HEADLINER - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-135

1. General

    A.   This section gives the procedures to remove/install the headliner panels.

    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
25-22-04-000-802-A	HEADLINER - REMOVAL	ACFT MODEL(S) EMB-135
25-22-04-400-802-A	HEADLINER - INSTALLATION	ACFT MODEL(S) EMB-135

TASK 25-22-04-000-802-A
EFFECTIVITY: ACFT MODEL(S) EMB-135

2.   <u>HEADLINER - REMOVAL</u>

A.   General

(1)   This task gives the procedures to remove the headliner panels.

(2)   The headliner panels are installed in the passenger cabin at zones 233, 234, 243, 253, and 263.

(3)   The headliner panels include four types of panels: a main-door region ceiling panel, a service-door region ceiling panel, a forward cabin ceiling panel, and nine standard ceiling panels.

B.   References

REFERENCE	DESIGNATION
AMM TASK 25-23-06-000-801-A/400	MAIN-DOOR TRIM SHROUD ASSEMBLY - REMOVAL
AMM TASK 25-23-07-000-802-A/400	-
AMM TASK 25-27-05-000-801-A/400	-
AMM TASK 25-27-07-000-801-A/400	GALLEY CURTAIN - REMOVAL

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 841-018-A

(1)   Make sure that the aircraft is safe for maintenance.

(2)   If the standard ceiling panel to be removed has lamps, do the steps below:

(a) On the LH electrical power control/distribution box, open the RDNG LT/ATTD CALL 1 circuit breaker (Location Tip: RB SHED DC BUS I/RDNG LT/ATTD CALL 1).

(b) On the overhead panel, set the EMERG LT switch to the OFF position.

(c) On the circuit breaker panel, open the EMERG circuit breaker (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).

(3) Before you remove the main-door/service-door region ceiling panel, do the steps below:

(a) For aircraft with outboard galley installed.

1 On the ELECTRICAL control panel, on the overhead panel, make sure that the SHED BUSES rotary switch is set to the OFF position.

2 Put a DO-NOT-SET-AUTO tag on the SHED BUSES rotary switch.

(b) On the circuit breaker panel, open the circuit breakers below:

1 COURTESY LIGHT 1 (Location Tip: HOT BUS 2/COURTESY LIGHT 1).

2 COURTESY 2 (Location Tip: DC BUS 1/LIGHTS/COURTESY 2).

(c) On the LH electrical power control/distribution box, open the COURTESY 3 circuit breaker (Location Tip: RB SERV BUS/COURTESY 3).

(d) On the overhead panel, set the EMERG LT switch to the OFF position.

(e) On the circuit breaker panel, open the EMERG circuit breaker (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).

(4) Before you remove the forward cabin ceiling panel, do the steps below:

(a) On the overhead panel, set the EMERG LT switch to the OFF position.

(b) On the circuit breaker panel, open the EMERG circuit breaker (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).

J. Removal (Figure 401)

SUBTASK 020-018-A
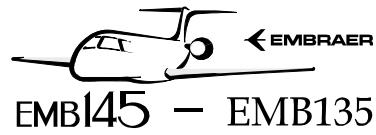
(1) To remove the standard ceiling panel (1), do the steps below (Figure 402):

(a) Remove the shims (6).

(b) Remove the lens (5).

(c) Open the door of the overhead bin in front of the ceiling panel that you will remove and remove the screws (3) and washers (2) that attach the standard ceiling panel (1) to the overhead bin.

(d) Turn the standard ceiling panel (1) around the catches (4) and remove it from the passenger service unit (PSU) extrusion.

(e)   If the standard ceiling panel to be removed has lamps, disconnect the electrical connector (7).

(f)   Remove the standard ceiling panel (1).

(2)   To remove the service-door region ceiling panel (5), do the steps below (Figure 403):

(a)   Remove the galley curtain assembly and the galley curtain track (4) (AMM TASK 25-27-07-000-801-A/400).

(b)   Remove the door upper trim shroud (3) (AMM TASK 25-23-07-000-802-A/400).

(c)   Loosen the Camloc fasteners (2).

(d)   Loosen the Camloc fasteners (1).

(e)   Disconnect the electrical connectors (6).

(f)   Remove the service-door region ceiling panel (5).

(3)   To remove the forward cabin ceiling panel (1), do the steps below (Figure 404):

(a)   Remove the service-door region ceiling panel (3), do the steps above (Figure 403).

(b)   Remove the galley curtain-track support (4) with the screws (2).

(c)   On the forward galley, remove the access panel (8) with the screws (10) and washers (9).

(d)   Remove the plug (7).

(e)   Loosen the screw (6) and washer (5) that attach the forward cabin ceiling panel (1).

(f)   Remove the shims (15) and the lenses (14).

(g)   Move the forward cabin ceiling panel (1) to remove the catches (12) from the passenger service unit (PSU) extrusion.

(h)   Slide the right end of the forward cabin ceiling panel (1) over the top of the forward galley by approximately 51 mm (2 inches).

(i)   Turn the left end of the forward cabin ceiling panel (1) counterclockwise around the right end until it passes the light deflector (13).

(j)   Disconnect the electrical connector (11).

(k)   Remove the forward cabin ceiling panel (1).

(4)   To remove the main-door region ceiling panel (1), do the steps below (Figure 405):

(a)   Remove the main-door curtain assembly (AMM TASK 25-27-05-000-801-A/400).

(b)   Remove the door upper forward trim shroud (2) (AMM TASK 25-23-06-000-801-A/400).
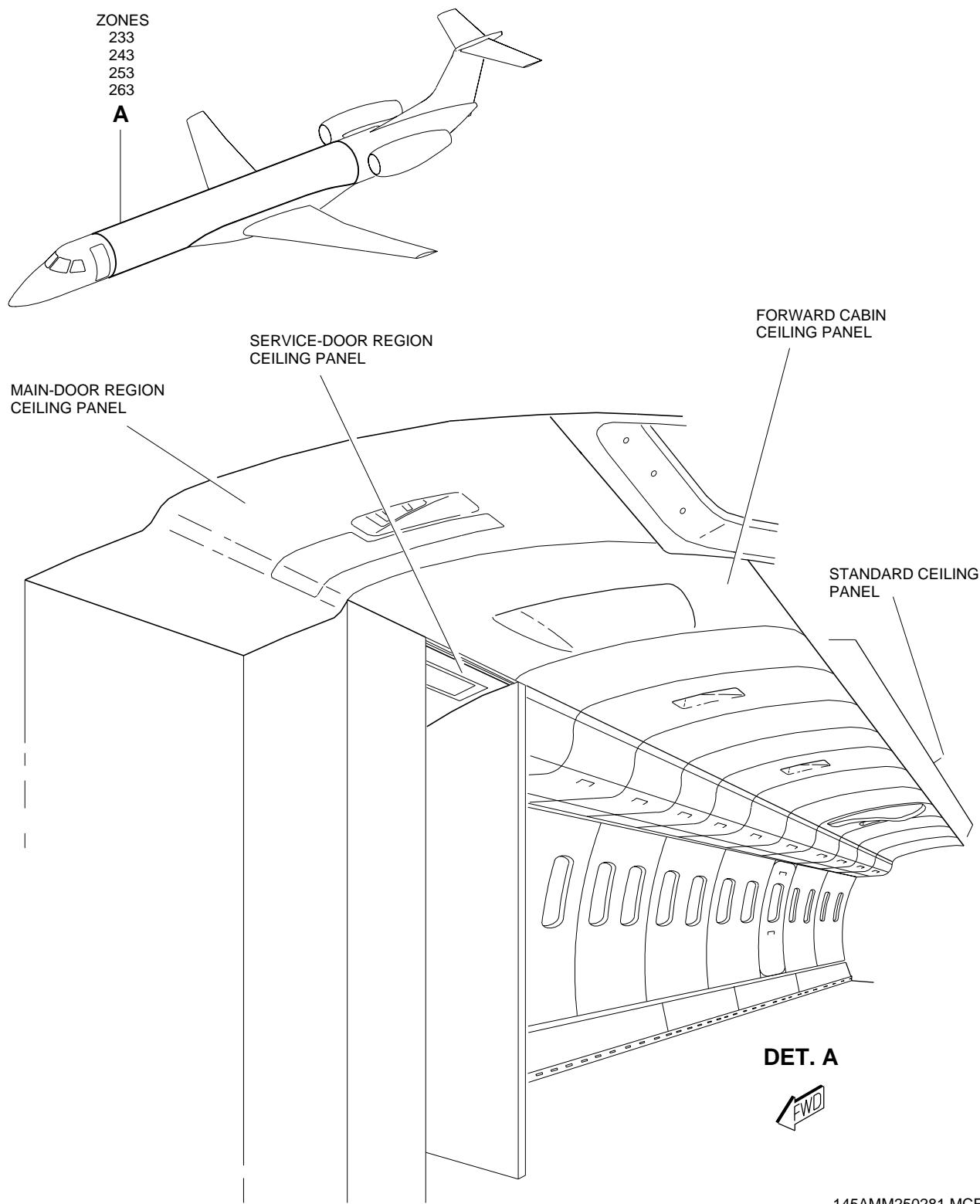
(c)   Loosen the Camloc fasteners (5) that attach the main-door region ceiling panel (1).

(d)   Disconnect the electrical connectors (3).

(e)   Move the main-door region ceiling panel (1) to remove the catches (4) from the retainers.

(f)   Remove the main-door region ceiling panel (1).
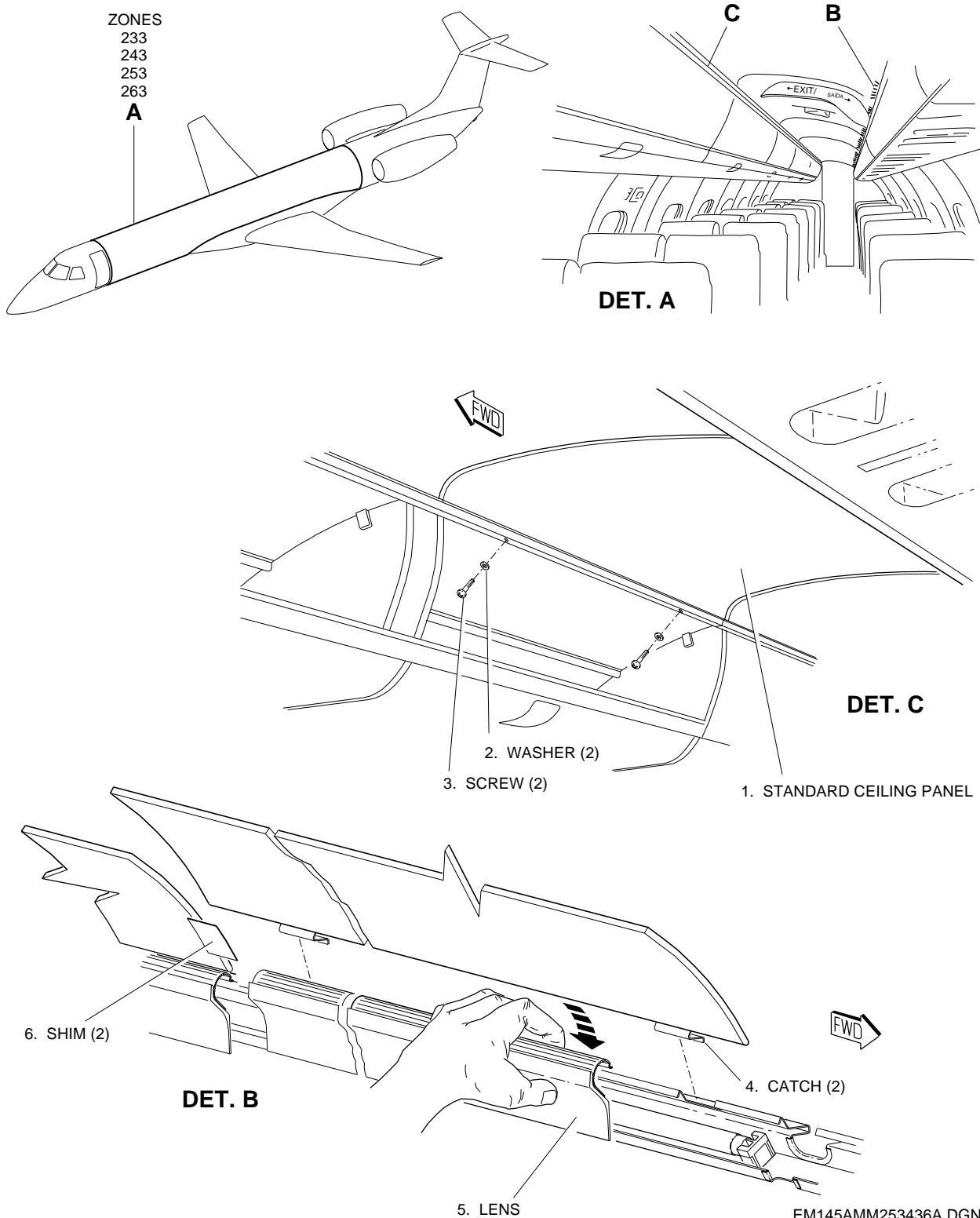
EFFECTIVITY: ACFT MODEL(S) EMB-135
Headliner Panels - Removal/Installation
Figure 401

ZONES
233
243
253
263

A

FORWARD CABIN
CEILING PANEL

SERVICE-DOOR REGION
CEILING PANEL

MAIN-DOOR REGION
CEILING PANEL

STANDARD CEILING
PANEL

DET. A

FWD
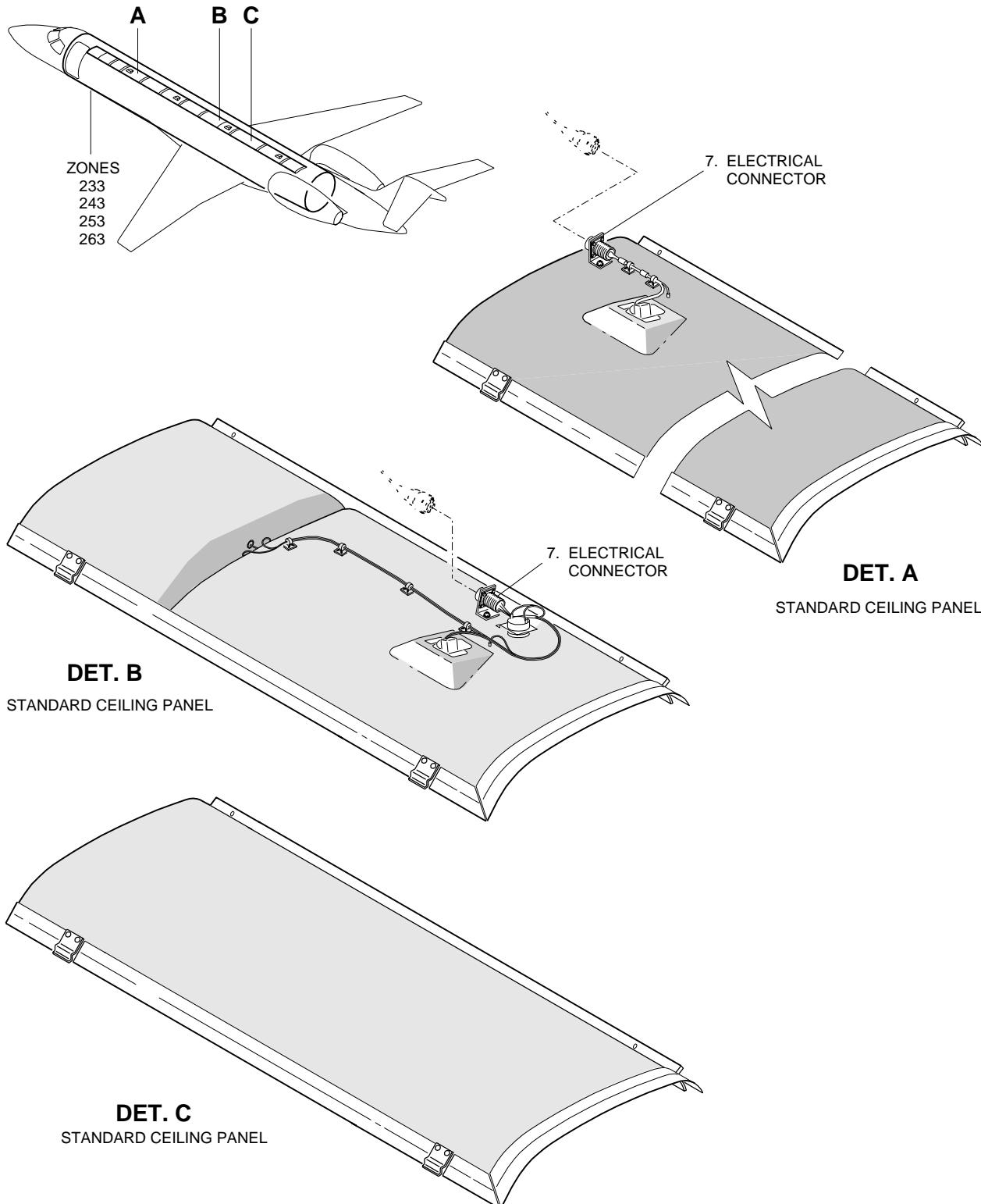
145AMM250281.MCE

EFFECTIVITY: ACFT MODEL(S) EMB-135
Standard Ceiling Panels - Removal/Installation
Figure 402 - Sheet 1
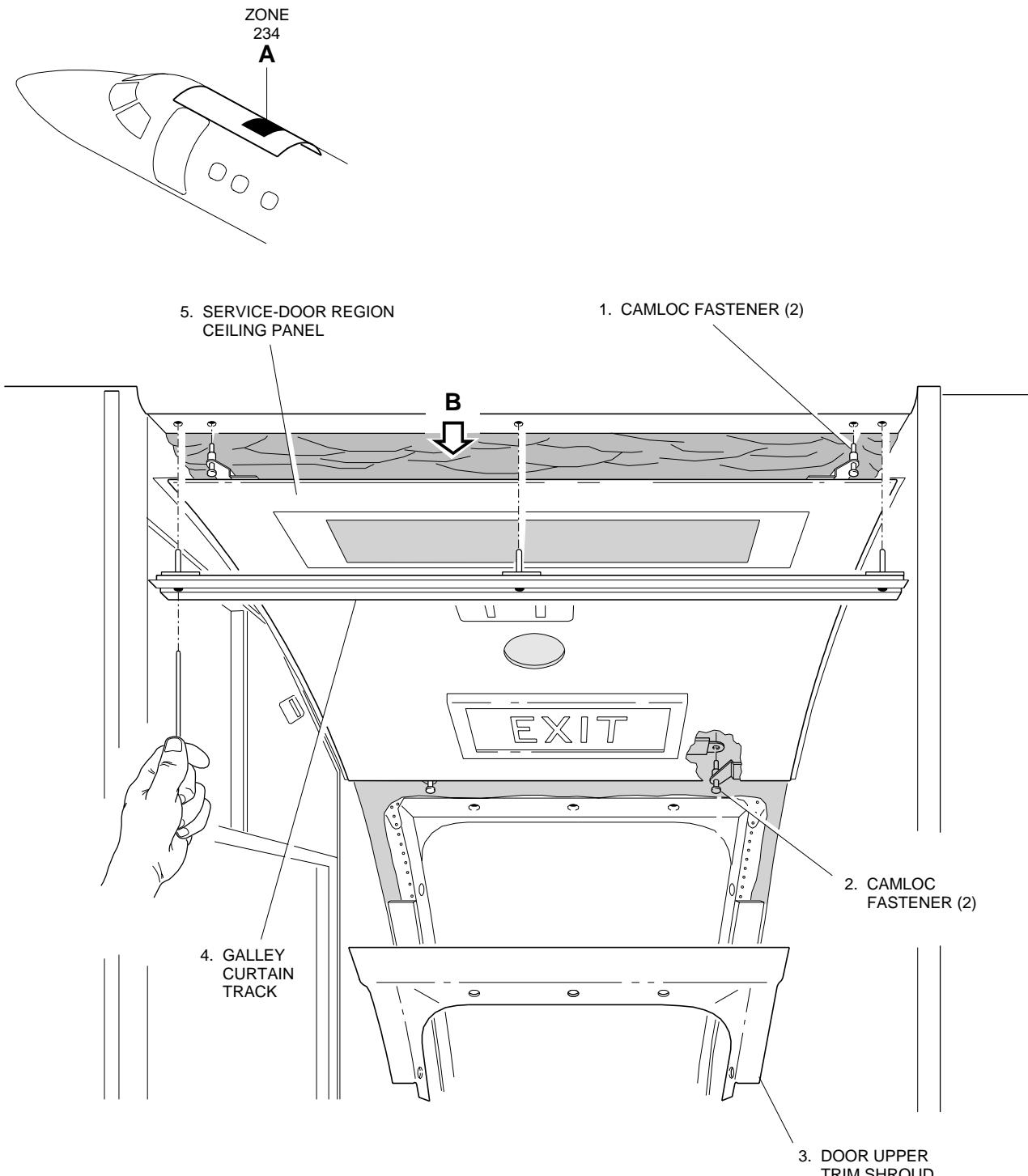
ZONES
233
243
253
263

A

C   **B**

←EXIT/ SAIDA→

DET. A

FWD

DET. C

2. WASHER (2)

3. SCREW (2)

1. STANDARD CEILING PANEL

6. SHIM (2)

DET. B

FWD

4. CATCH (2)

5. LENS

EM145AMM253436A.DGN

EFFECTIVITY: ACFT MODEL(S) EMB-135
Standard Ceiling Panels - Removal/Installation
Figure 402 - Sheet 2

ZONES
233
243
253
263

7. ELECTRICAL
CONNECTOR

7. ELECTRICAL
CONNECTOR

DET. A
STANDARD CEILING PANEL

DET. B
STANDARD CEILING PANEL

DET. C
STANDARD CEILING PANEL

145AMM250285.MCE

EFFECTIVITY: ACFT MODEL(S) EMB-135
Service-Door Region Ceiling Panel - Removal/Installation
Figure 403 - Sheet 1
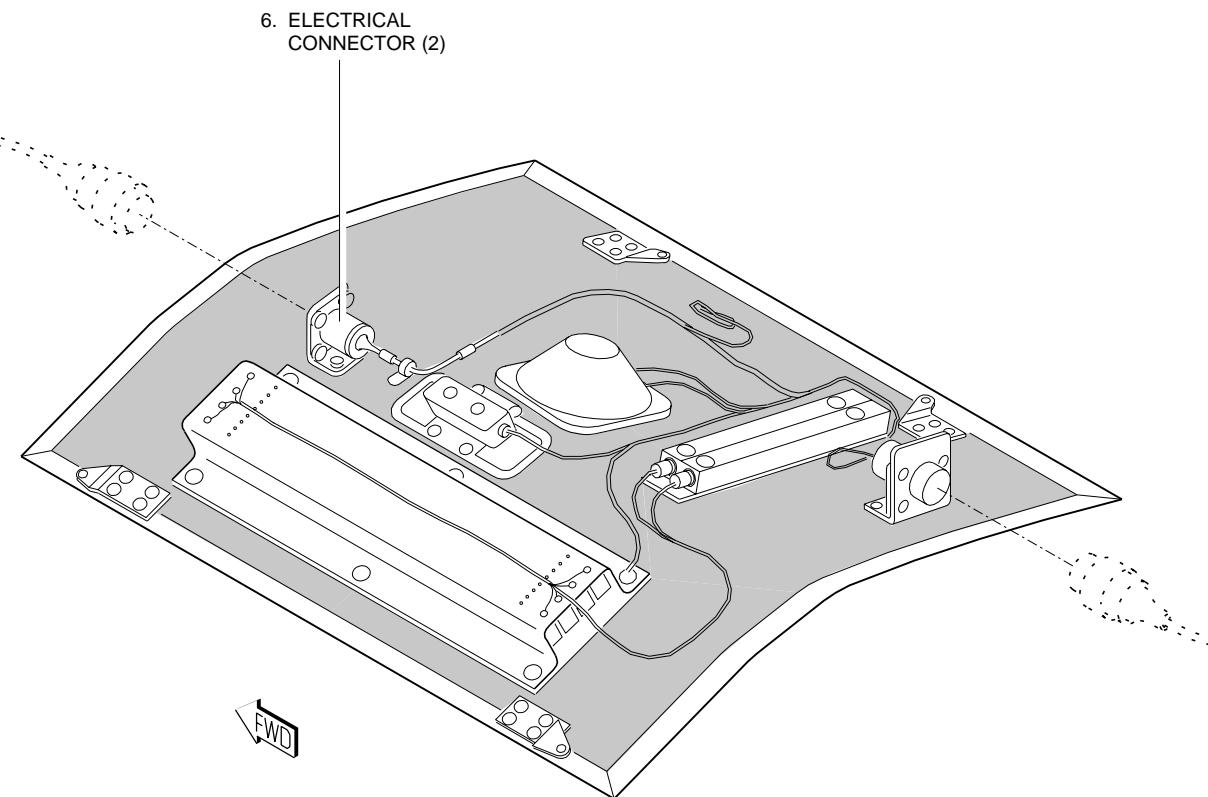
ZONE
234
A

5. SERVICE-DOOR REGION
CEILING PANEL

1. CAMLOC FASTENER (2)

B

2. CAMLOC
FASTENER (2)

4. GALLEY
CURTAIN
TRACK

3. DOOR UPPER
TRIM SHROUD

DET. A

FWD

145AMM250289.MCE

EMB**145** – EMB135

EFFECTIVITY: ACFT MODEL(S) EMB-135
Service-Door Region Ceiling Panel - Removal/Installation
Figure 403 - Sheet 2

6. ELECTRICAL
   CONNECTOR (2)

FWD
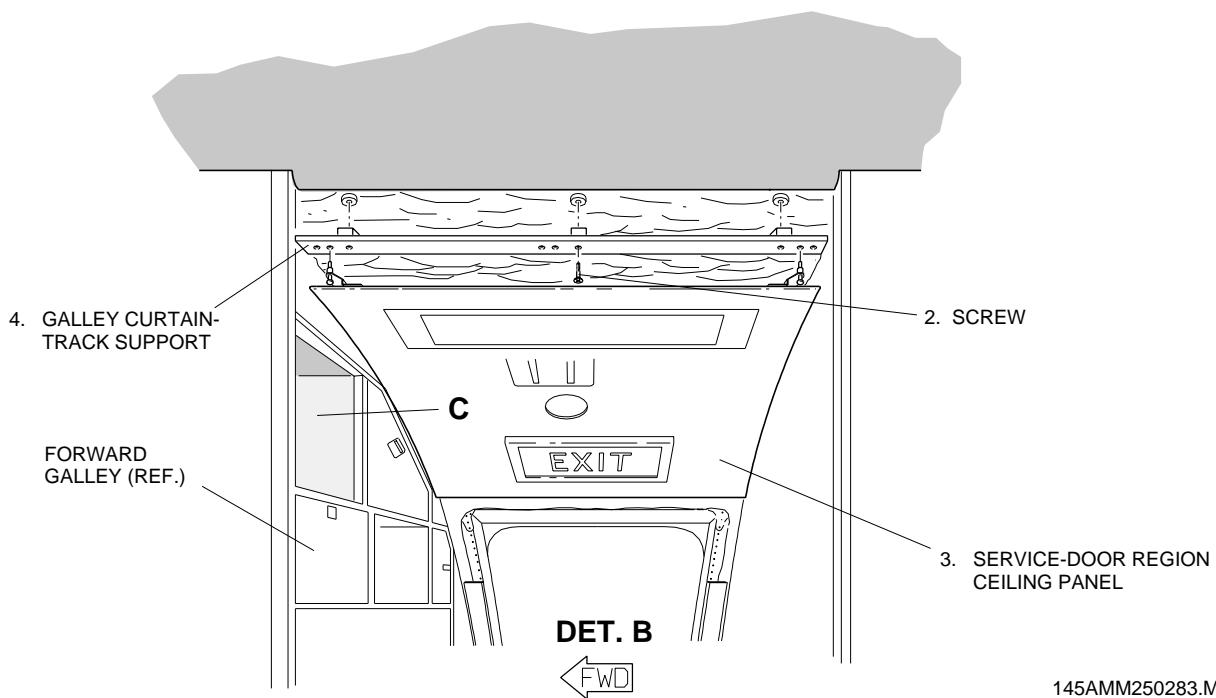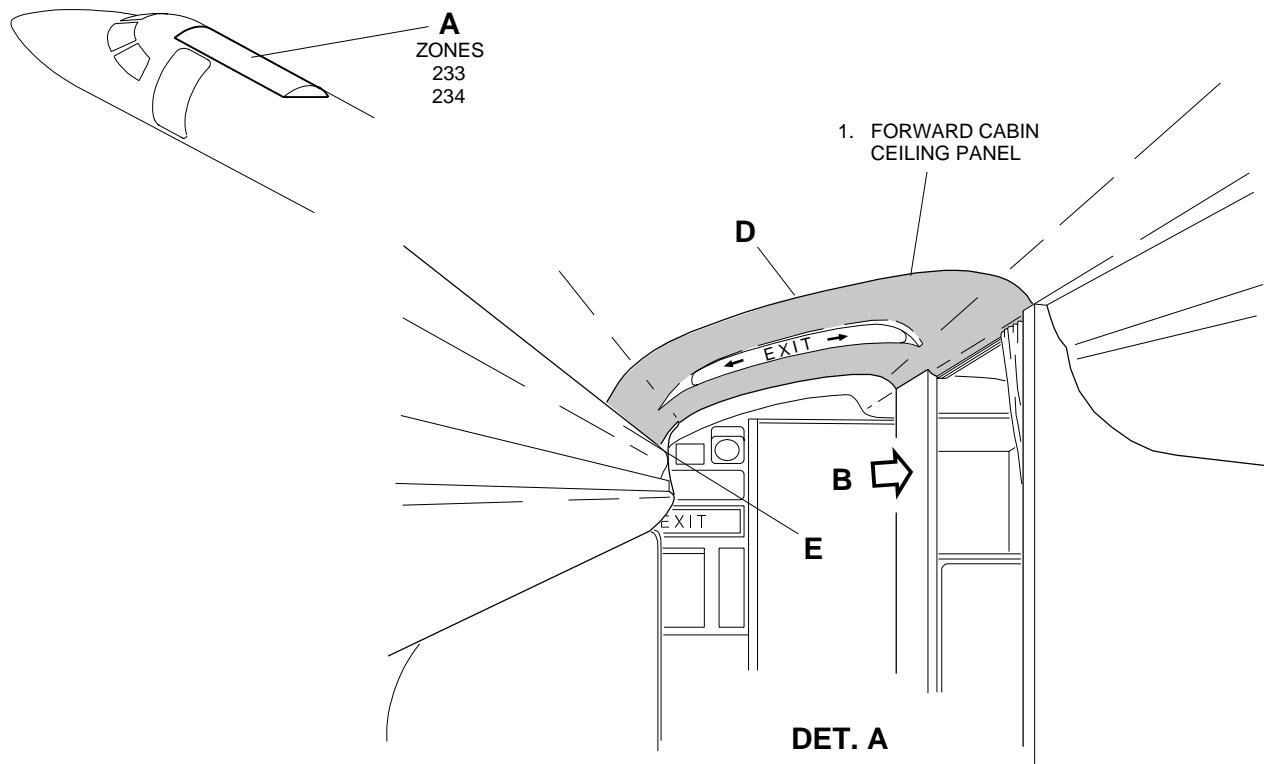
DET. B
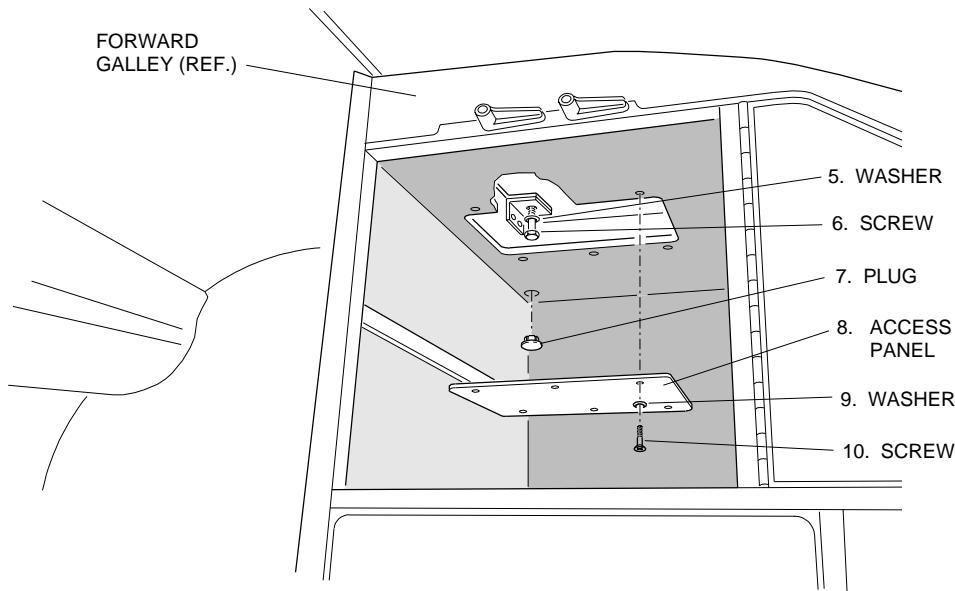
145AMM250083.MCE A

EFFECTIVITY: ACFT MODEL(S) EMB-135
Forward Cabin Ceiling Panel - Removal/Installation
Figure 404 - Sheet 1
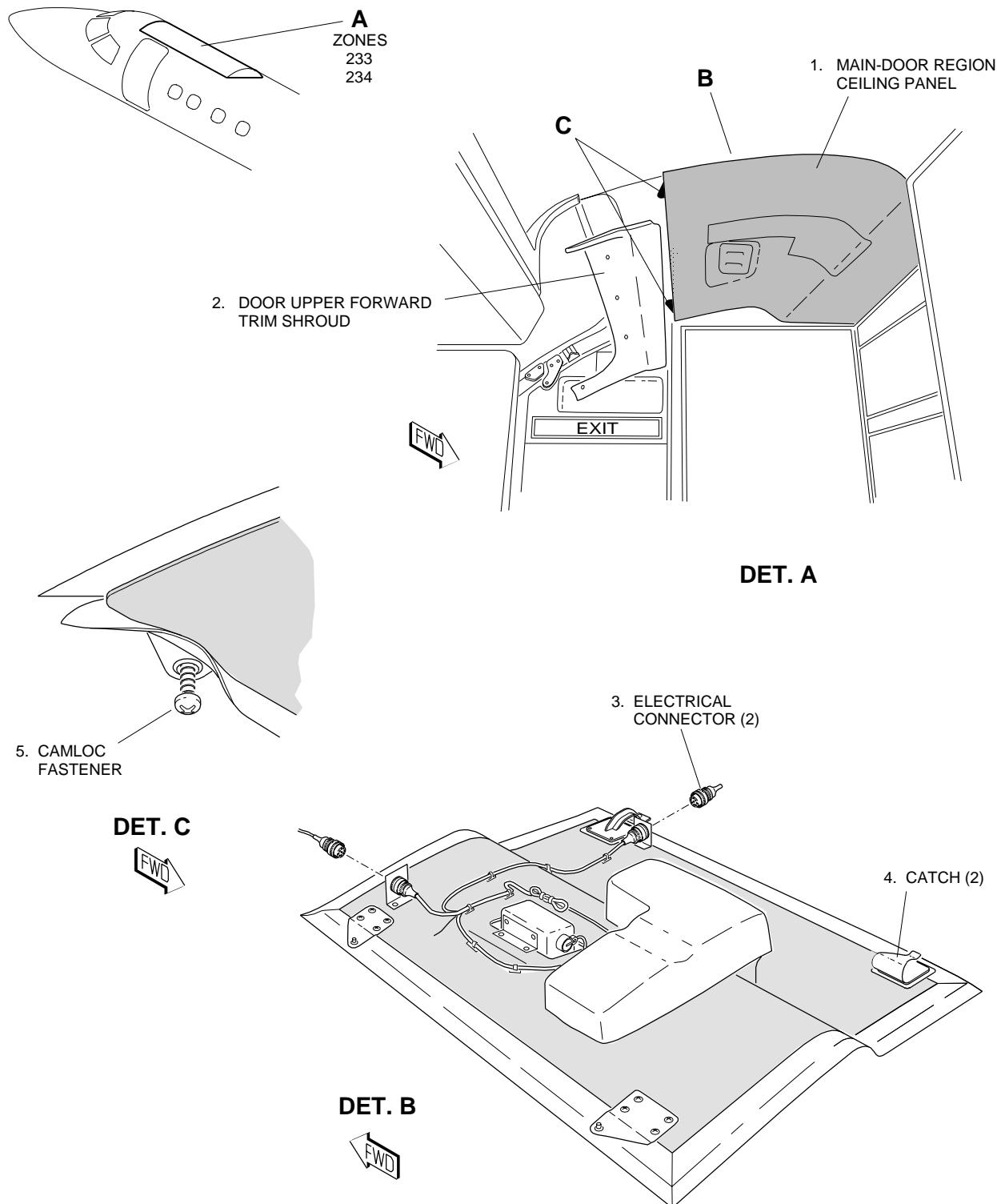
A
ZONES
233
234

1. FORWARD CABIN
   CEILING PANEL

D

← EXIT →

B

EXIT

E

DET. A

4. GALLEY CURTAIN-
   TRACK SUPPORT

2. SCREW

C

FORWARD
GALLEY (REF.)

EXIT

3. SERVICE-DOOR REGION
   CEILING PANEL

DET. B

FWD

145AMM250283.MCE A

EFFECTIVITY: ACFT MODEL(S) EMB-135
Forward Cabin Ceiling Panel - Removal/Installation
Figure 404 - Sheet 2

FORWARD
GALLEY (REF.)

5. WASHER
6. SCREW
7. PLUG
8. ACCESS PANEL
9. WASHER
10. SCREW

DET. C
FWD

11. ELECTRICAL CONNECTOR

DET. D
FWD

15. SHIM
14. LENS
12. CATCH
13. LIGHT DEFLECTOR

DET. E
FWD

145AMM250284.MCE A

EFFECTIVITY: ACFT MODEL(S) EMB-135
Main-Door Region Ceiling Panel - Removal/Installation
Figure 405

A
ZONES
233
234

B
C

1. MAIN-DOOR REGION
   CEILING PANEL

2. DOOR UPPER FORWARD
   TRIM SHROUD

EXIT

FWD

DET. A

5. CAMLOC
   FASTENER

3. ELECTRICAL
   CONNECTOR (2)

4. CATCH (2)

DET. C

FWD

DET. B

FWD

145AMM250282.MCE

TASK 25-22-04-400-802-A
EFFECTIVITY: ACFT MODEL(S) EMB-135

3.   HEADLINER - INSTALLATION

A.   General

(1)   This task gives the procedures to install the headliner panels.

(2)   The headliner panels are installed in the passenger cabin of the aircraft, zones 233, 234, 243, 253, and 263.

(3)   The headliner panels include four types of panels: a main-door region ceiling panel, a service-door region ceiling panel, a forward cabin ceiling panel, and nine standard ceiling panels.

B.   References

REFERENCE	DESIGNATION
AMM TASK 25-23-06-400-801-A/400	MAIN-DOOR TRIM SHROUD ASSEMBLY - INSTALLATION
AMM TASK 25-23-07-400-802-A/400	-
AMM TASK 25-27-05-400-801-A/400	-
AMM TASK 25-27-07-400-801-A/400	GALLEY CURTAIN - INSTALLATION
AMM TASK 33-25-00-700-801-A/500	READING AND ATTENDANT CALL LIGHTS (1) - OPERATIONAL TEST
AMM TASK 33-26-00-700-801-A/500	COURTESY/STAIR LIGHTS - OPERATIONAL TEST
AMM TASK 33-50-00-700-801-A/500	EMERGENCY LIGHTS - OPERATIONAL CHECK

C.   Zones and Accesses

Not Applicable

D.   Tools and Equipment

Not Applicable

E.   Auxiliary Items

Not Applicable

F.   Consumable Materials
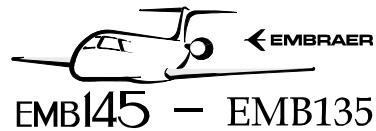
Not Applicable

G.   Expandable Parts

Not Applicable

H.   Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Passenger cabin

I.   Installation (Figure 401)

SUBTASK 420-018-A

(1)   To install the main-door region ceiling panel (1), do the steps below (Figure 405):

(a)   Put the main-door region ceiling panel (1) in position to do the electrical connections.

(b)   Connect the electrical connectors (3).

(c)   Put the main-door region ceiling panel (1) in its installation position.

(d)   Move the main-door region ceiling panel (1) to fit the catches (4) onto the retainers.

(e)   Turn the Camloc fasteners (5) to attach the main-door region ceiling panel (1).

(f)   Install the door upper forward trim shroud (2) (AMM TASK 25-23-06-400-801-A/ 400).

(g)   Install the main-door curtain assembly (AMM TASK 25-27-05-400-801-A/400).

(2)   To install the forward cabin ceiling panel (1), do the steps below (Figure 404):

(a)   Put the forward cabin ceiling panel (1) in position to do the electrical connection.

(b)   Connect the electrical connector (11).

(c)   Put the forward cabin ceiling panel (1) in its installation position as follows:

1   Slide the right end of the forward cabin ceiling panel (1) over the top of the forward galley by approximately 51 mm (2 inches).

2   Turn the left end of the forward cabin ceiling panel (1) clockwise around the right end until it passes the light deflector (13).

3   Move the left end of the panel to fit the catches (12) onto the passenger service unit (PSU) extrusion.

(d)   Attach the forward ceiling panel (1) to the forward galley with the screw (6) and washer (5).

(e)   Attach the access panel (8) with the screws (10) and washers (9).

(f)   Install the plug (7).

(g)   Install the lenses (14).

(h)   Install the shims (15).

(i)   Attach the galley curtain-track support (4) with the screws (2).

(j)   Install the service-door region ceiling panel (3), do the steps below (Figure 403).

(3)   To install the service-door region ceiling panel (5), do the steps below (Figure 403):

(a) Put the service-door region ceiling panel (5) in position to do the electrical connections.

(b) Connect the electrical connectors (6).

(c) Put the service-door region ceiling panel (5) in its installation position.

(d) Attach the service-door region ceiling panel (5) with the Camloc fasteners (2).

(e) Attach the service-door region ceiling panel (5) with the Camloc fasteners (1).

(f) Install the galley curtain-track assembly (4) (AMM TASK 25-27-07-400-801-A/ 400).

(g) Install the door upper trim shroud (3) (AMM TASK 25-23-07-400-802-A/400).

(4) To install the standard ceiling panel (1), do the steps below (Figure 402):

(a) Put the standard ceiling panel (1) in position to do the electrical connection, if applicable.

(b) Connect the electrical connector (7), if applicable.

(c) Set the catches (4) onto the passenger service unit (PSU) extrusion.

(d) Turn the standard ceiling panel (1) around the catches (4) to align the bracket holes with the inserts on the overhead bin.

(e) Attach the standard ceiling panel (1) to the overhead bin with the screws (3) and washers (2).

(f) Install the lenses (5).

(g) Install the shims (6).

J. Follow-on

SUBTASK 842-018-A

(1) If you installed the standard ceiling panel with lamps, do the steps below:

(a) On the LH electrical power control/distribution box, close the RDNG LT/ATTD CALL 1 circuit breaker (Location Tip: RB SHED DC BUS I/RDNG LT/ATTD CALL 1).

(b) On the overhead panel, set the EMERG LT switch to the ARM position.

(c) On the circuit breaker panel, close the EMERG circuit breaker (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).

(d) Do an operational test of the emergency lights (AMM TASK 33-50-00-700-801-A/ 500).

(e) Do an operational test of the reading and attendant call lights (AMM TASK 33-25-00-700-801-A/500).

(2) If you installed the main-door/service-door region ceiling panel, do the steps below:

(a) For aircraft with outboard galley installed.

    <u>1</u> On the ELECTRICAL control panel, on the overhead panel, remove the DO-NOT-SET-AUTO tag from the SHED BUSES rotary switch and turn it to the AUTO position.

(b) On the circuit breaker panel, close the circuit breakers below:

    <u>1</u> COURTESY LIGHT 1 (Location Tip: HOT BUS 2/COURTESY LIGHT 1).

    <u>2</u> COURTESY 2 (Location Tip: DC BUS 1/LIGHTS/COURTESY 2).

(c) On the LH electrical power control/distribution box, close the COURTESY 3 circuit breaker (Location Tip: RB SERV BUS/COURTESY 3).

(d) On the overhead panel, set the EMERG LT switch to the ARM position.

(e) On the circuit breaker panel, close the EMERG circuit breaker (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).

(f) Do an operational test of the emergency lights (AMM TASK 33-50-00-700-801-A/500).

(g) Do an operational test of the courtesy/stair lights (AMM TASK 33-26-00-700-801-A/500).

(3) If you installed the forward cabin ceiling panel, do the steps below:

(a) On the overhead panel, set the EMERG LT switch to the ARM position.

(b) On the circuit breaker panel, close the EMERG circuit breaker (Location Tip: ESSENTIAL DC BUS 2/LIGHTS/EMERG).

(c) Do an operational test of the emergency lights (AMM TASK 33-50-00-700-801-A/500).