HEADLINER - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

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
25-22-04-000-801-A	HEADLINER - REMOVAL	ACFT MODEL(S) EMB-145
25-22-04-400-801-A	HEADLINER - INSTALLATION	ACFT MODEL(S) EMB-145

TASK 25-22-04-000-801-A
EFFECTIVITY: ACFT MODEL(S) EMB-145

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 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 eleven standard ceiling panels.

    B. References

REFERENCE	DESIGNATION
AMM TASK 25-23-06-000-801-A/400	MAIN-DOOR TRIM SHROUD ASSEMBLY - REMOVAL
AMM TASK 25-23-07-000-801-A/400	-
AMM TASK 25-27-05-000-801-A/400	-
AMM TASK 25-27-07-000-801-A/400	GALLEY CURTAIN - REMOVAL
AMM TASK 25-31-03-000-801-A/400	OVENS AND OVEN CONTROLLERS - 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 841-017-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 1/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 020-017-A

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

(a) Remove the shims (5).

(b) Remove the lens (6).

(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.

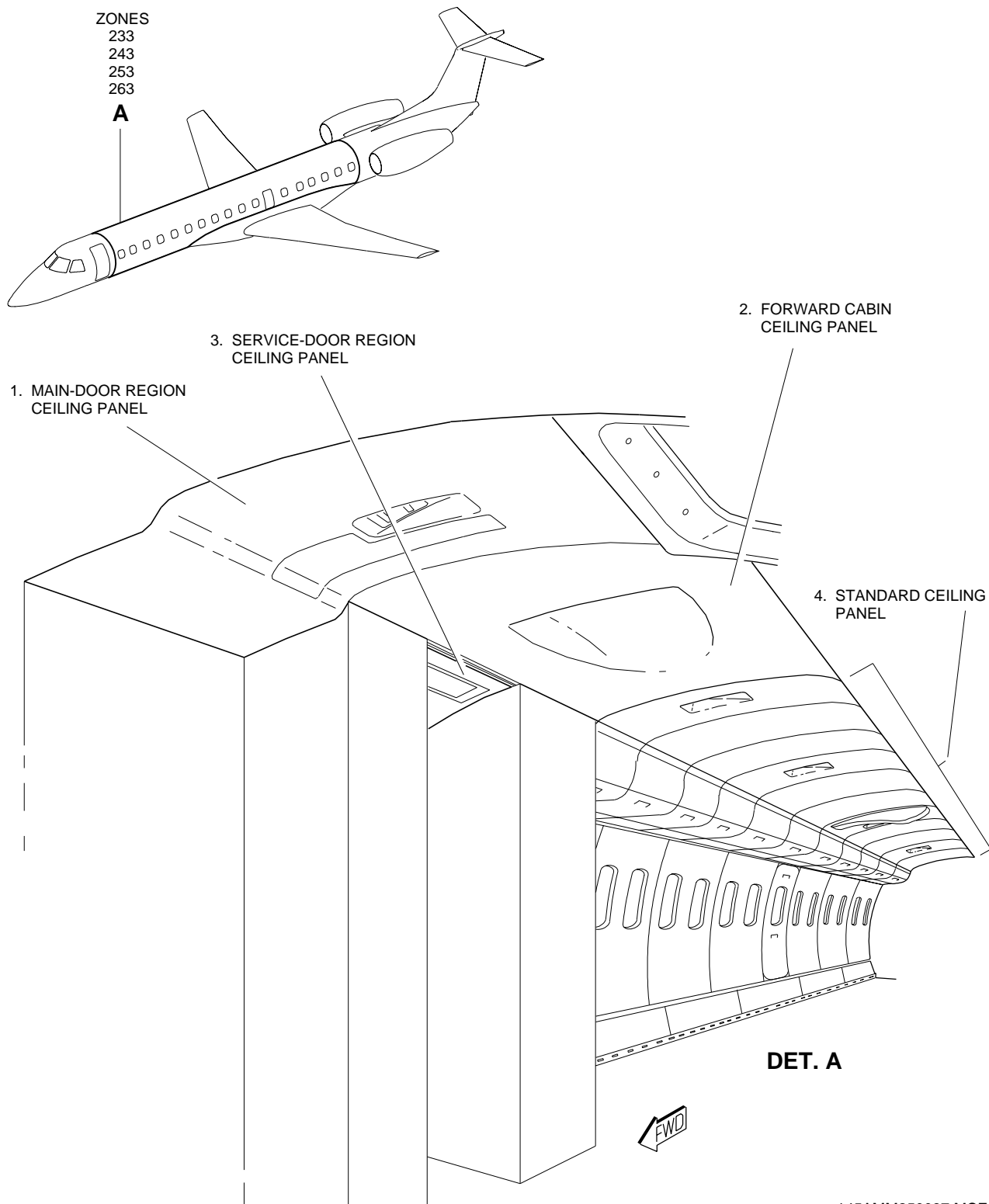(d) Turn the standard ceiling panel (1) around the catch (4) and remove it from the PSU extrusion.

(e)   Disconnect the electrical connector (7), if applicable.

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

(2)   To remove the service-door region ceiling panel (6), do the steps below (Figure 403):

(a)   Remove the door upper trim shroud (3) (AMM TASK 25-23-07-000-801-A/400).

(b)   Loosen the Camloc fasteners (2).

(c)   Insert a pin in the holes (5) of the galley curtain track (4) to release it, and remove the galley curtain assembly (AMM TASK 25-27-07-000-801-A/400).

(d)   Loosen the Camloc fasteners (1).

(e)   Disconnect the electrical connectors (7).

(f)   Remove the service-door region ceiling panel (6).

(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)   Loosen the attaching screws (2) and remove the galley curtain-track support (4).

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

(d)   Remove the plug (7).

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

(f)   Remove the access panel (14) with the screws (15) and washers (16), on the aft galley.

(g)   Remove the plug (13).

(h)   Loosen the screw (12) and washer (11) that attach the ceiling panel.

(i)   Remove the shims (19) and the lenses (18).

(j)   Move the forward cabin ceiling panel (1) to remove the catches (17) from the Passenger Service Unit (PSU) extrusion.

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

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

(m)   Disconnect the electrical connector (20).

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

(a)   For aircraft with RH wardrobe or outboard galley without ovens installed (Figure 405).

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25-22-04

000-801-A/400 CONFIG-1
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1 Remove the main-door curtain-track assembly (5) (AMM TASK 25-27-05-000-801-A/400).

2 Remove the door upper forward trim shroud (6) (AMM TASK 25-23-06-000-801-A/400).

3 Open the miscellaneous door (2) and remove the screws (4) that attach the access plates (3).

4 Loosen the Camloc fasteners (7) that attach the ceiling panel.

5 Disconnect the electrical connectors (8).

6 Remove the main-door region ceiling panel (1).

(b) For aircraft with outboard galley with ovens installed (Figure 406).

1 Remove the main-door curtain-track assembly (8) (AMM TASK 25-27-05-000-801-A/400).

2 Remove the door upper forward trim shroud (9) (AMM TASK 25-23-06-000-801-A/400).

3 Remove the oven (7) (AMM TASK 25-31-03-000-801-A/400).

4 Remove oven controllers (2) and (3) (AMM TASK 25-31-03-000-801-A/400).

5 Open the LH compartment door (4).

6 Remove the access plates (5) with the screws (6) (see DET. C).

7 Loosen the Camloc fasteners (10) that attach the ceiling panel.

8 Disconnect the electrical connectors (11) (see DET. F).

9 Remove the main-door region ceiling panel (1).
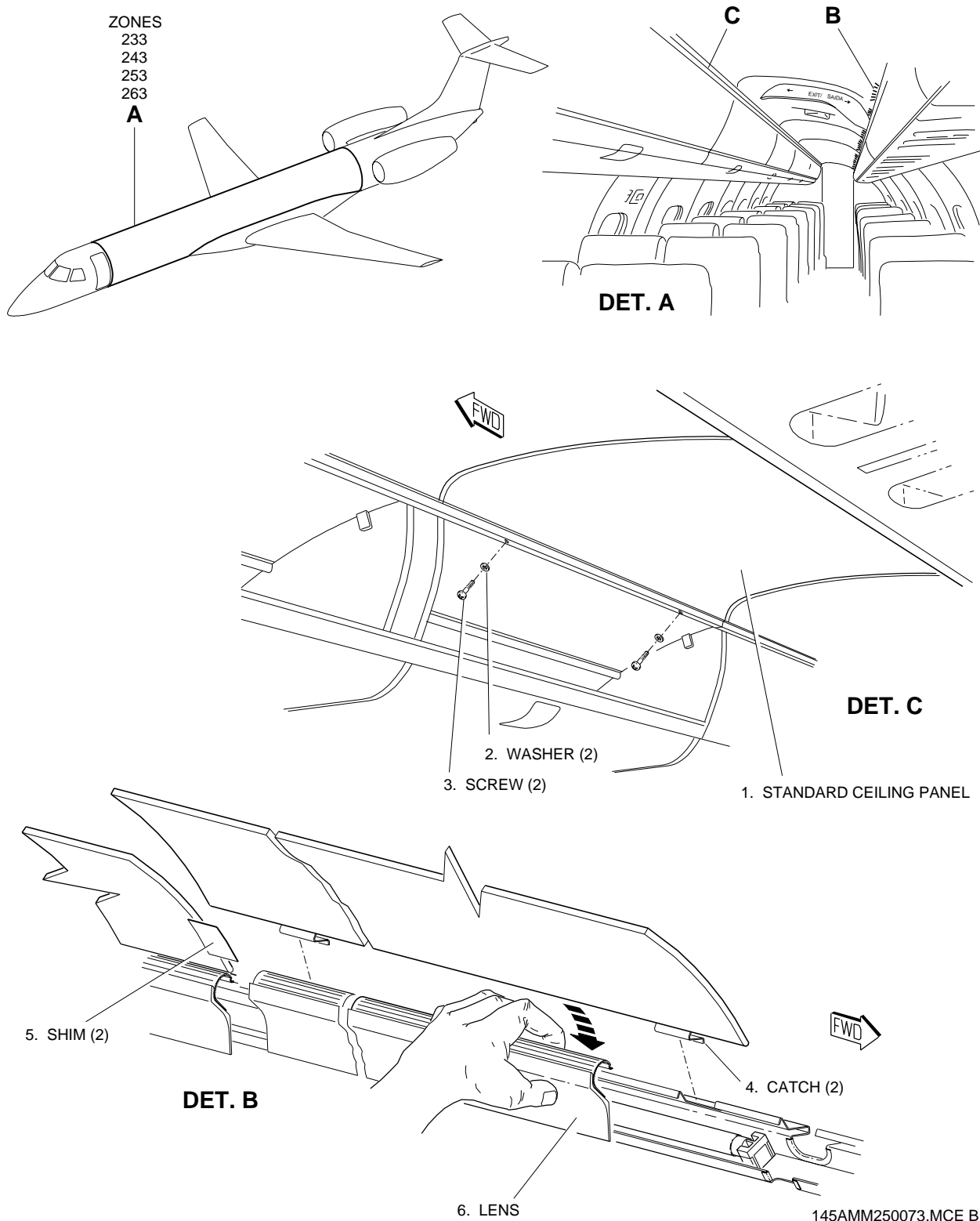
EFFECTIVITY: ACFT MODEL(S) EMB-145
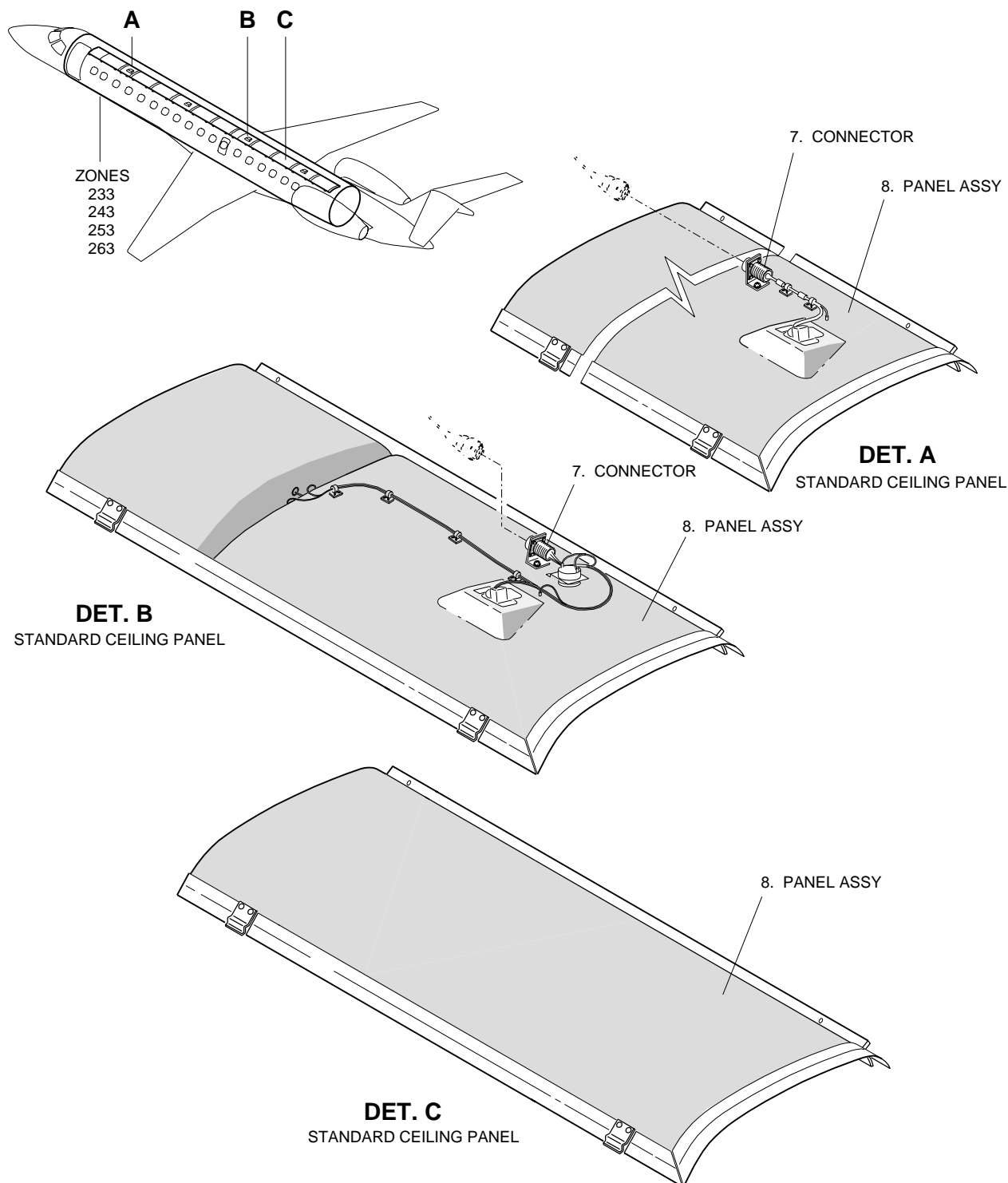Headliner Panels - Removal/Installation
Figure 401

ZONES
233
243
253
263

A

2. FORWARD CABIN
CEILING PANEL

3. SERVICE-DOOR REGION
CEILING PANEL

1. MAIN-DOOR REGION
CEILING PANEL

4. STANDARD CEILING
PANEL

DET. A

FWD

145AMM250087.MCE

EFFECTIVITY: ACFT MODEL(S) EMB-145
Standard Ceiling Panels - Removal/Installation
Figure 402 - Sheet 1

ZONES
233
243
253
263

A

C   **B**

DET. A

FWD

DET. C

2. WASHER (2)

3. SCREW (2)

1. STANDARD CEILING PANEL

5. SHIM (2)

DET. B

4. CATCH (2)

FWD

6. LENS

145AMM250073.MCE B

EFFECTIVITY: ACFT MODEL(S) EMB-145
Standard Ceiling Panels - Removal/Installation
Figure 402 - Sheet 2

ZONES
233
243
253
263

7. CONNECTOR

8. PANEL ASSY

DET. A
STANDARD CEILING PANEL

7. CONNECTOR

8. PANEL ASSY

DET. B
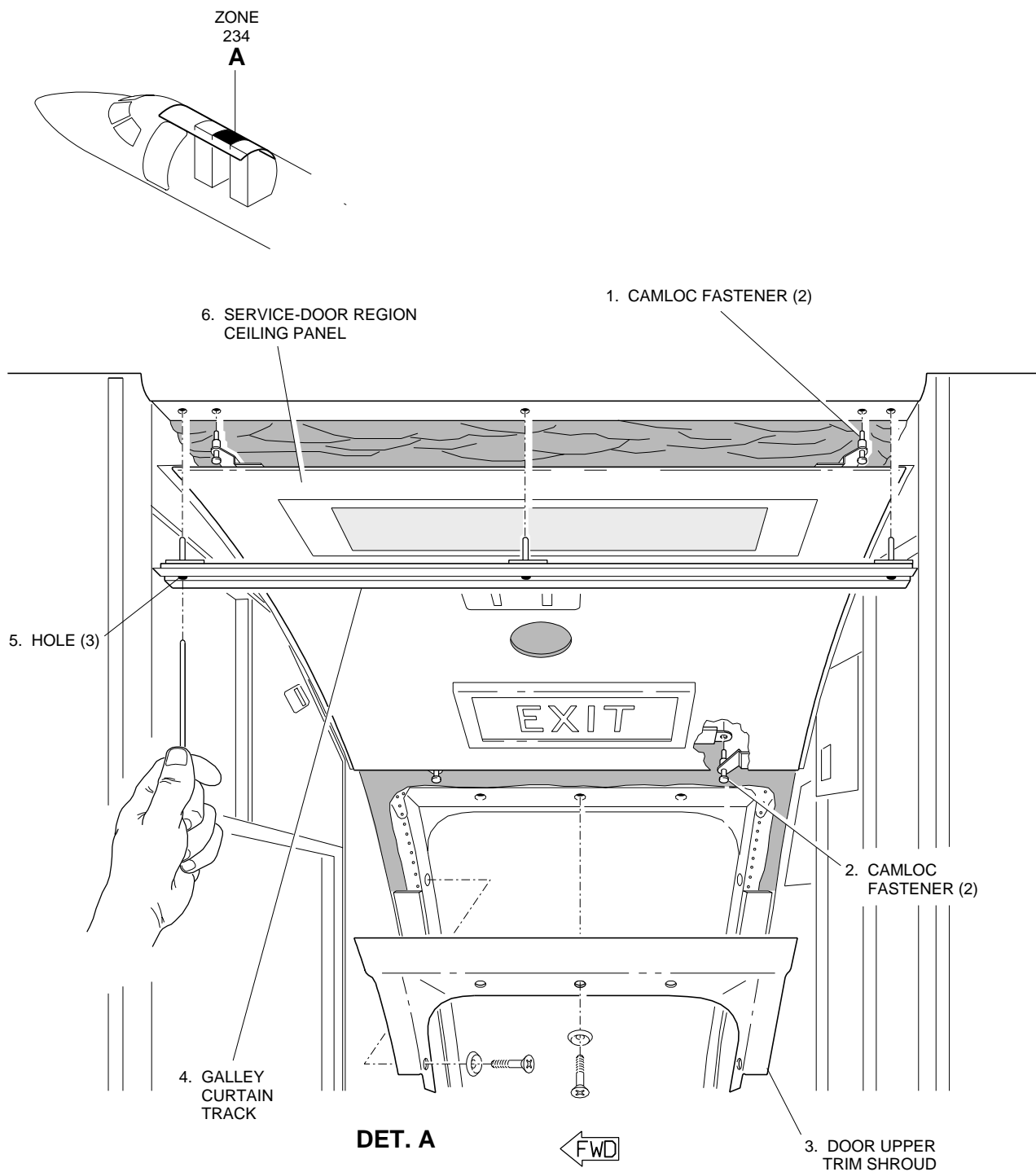STANDARD CEILING PANEL
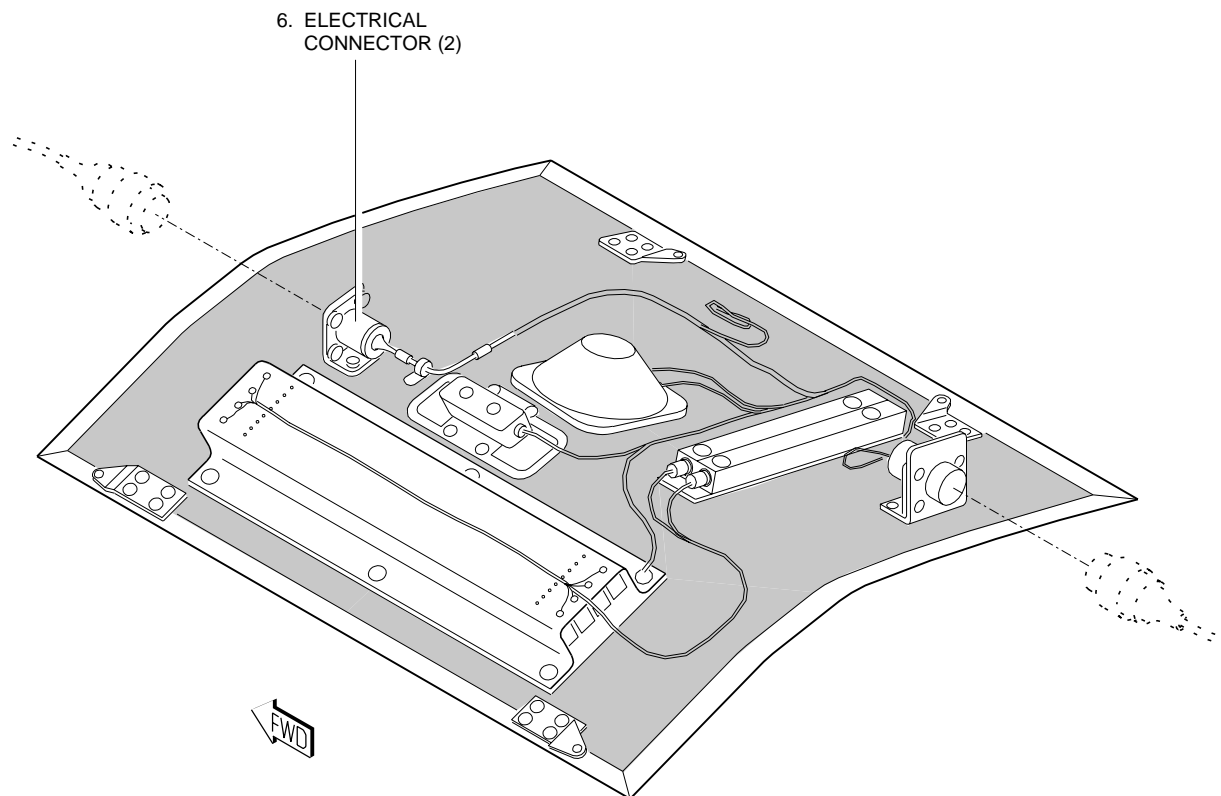
8. PANEL ASSY

DET. C
STANDARD CEILING PANEL

145AMM250067.MCE

EFFECTIVITY: ACFT MODEL(S) EMB-145
Service-Door Region Ceiling Panel - Removal/Installation
Figure 403 - Sheet 1

ZONE
234

A

6. SERVICE-DOOR REGION
   CEILING PANEL

1. CAMLOC FASTENER (2)

5. HOLE (3)

2. CAMLOC
   FASTENER (2)

4. GALLEY
   CURTAIN
   TRACK

DET. A

FWD

3. DOOR UPPER
   TRIM SHROUD

EXIT

145AMM250081.MCE A

EFFECTIVITY: ACFT MODEL(S) EMB-145
Service-Door Region Ceiling Panel - Removal/Installation
Figure 403 - Sheet 2

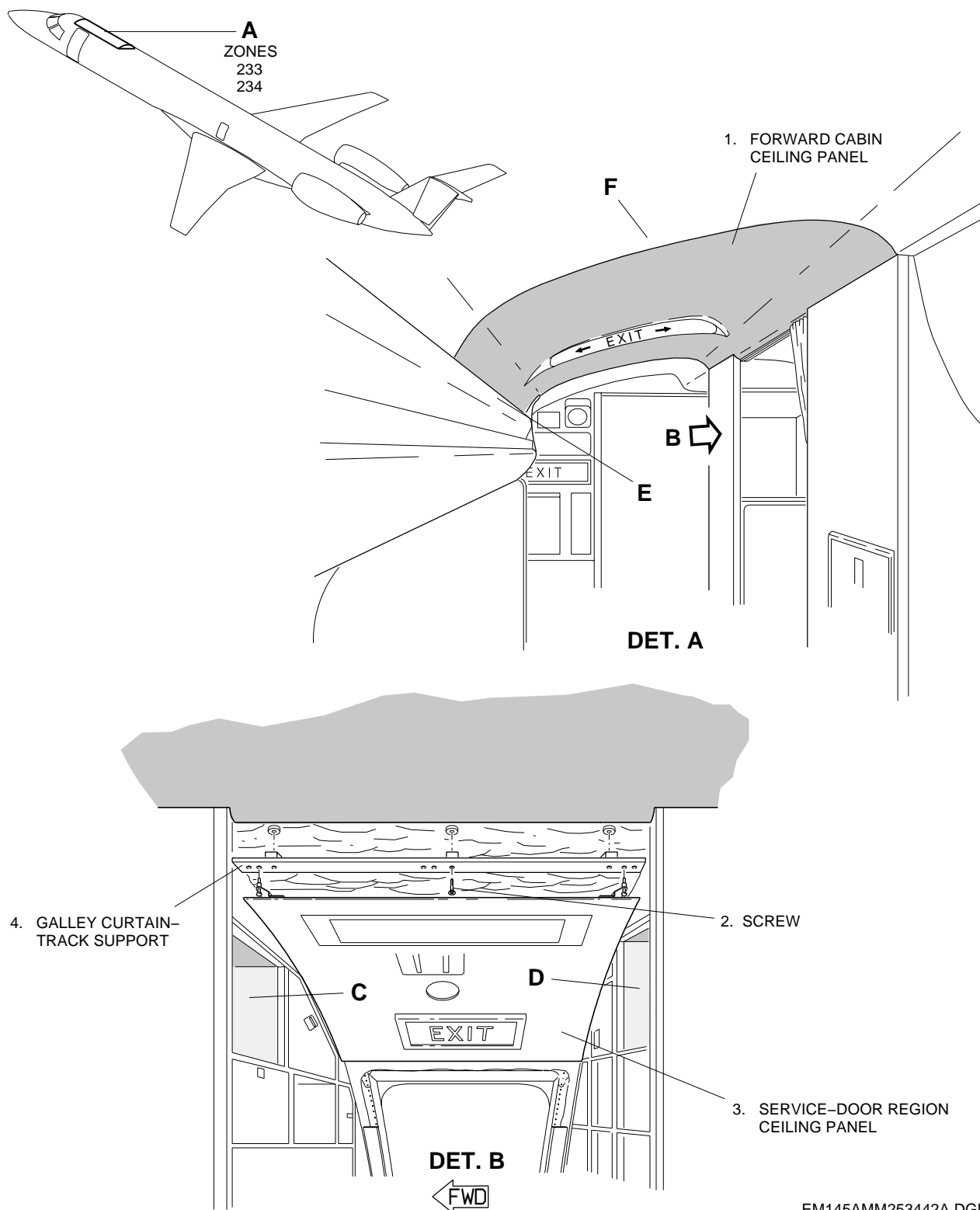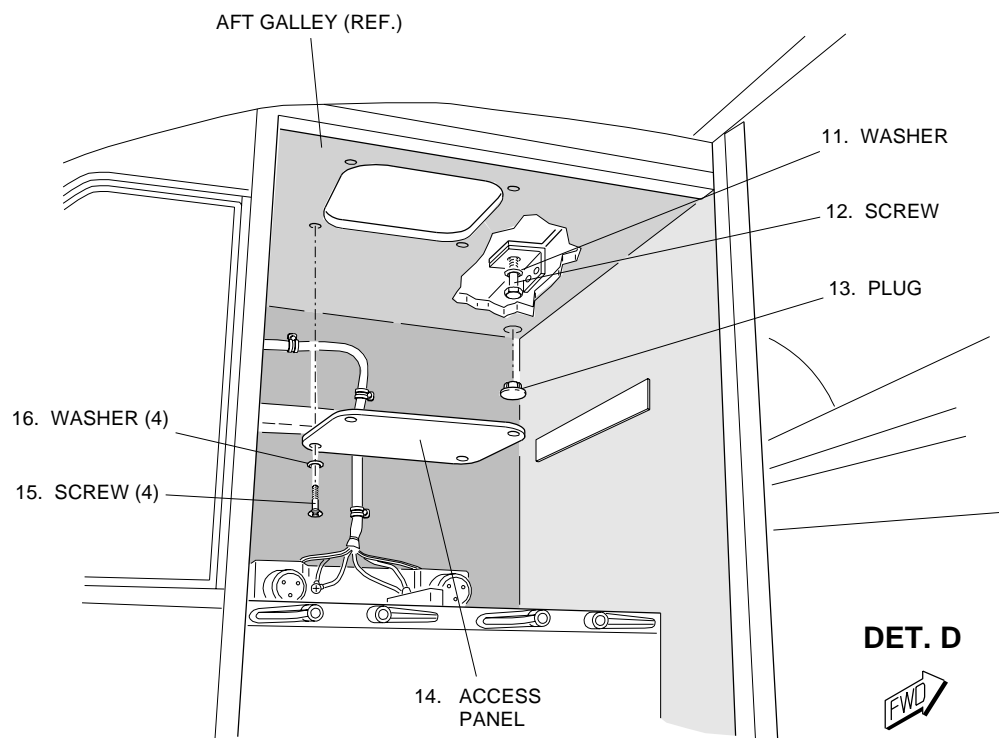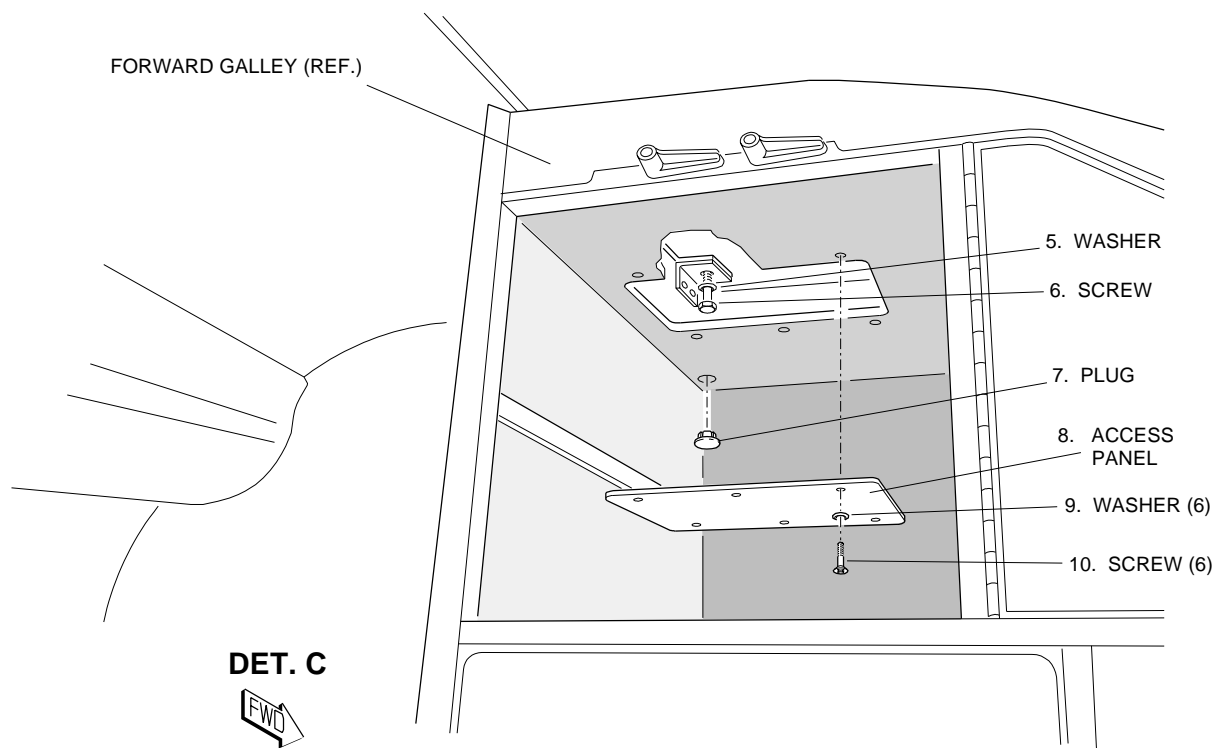6. ELECTRICAL
   CONNECTOR (2)

FWD

DET. B

145AMM250083.MCE A

EMBRAER
EMB145 — EMB135

EFFECTIVITY: ACFT MODEL(S) EMB-145
Forward Cabin Ceiling Panel - Removal/Installation
Figure 404 - Sheet 1

A
ZONES
233
234

1. FORWARD CABIN
   CEILING PANEL

F

EXIT

B

E

DET. A

4. GALLEY CURTAIN–
   TRACK SUPPORT

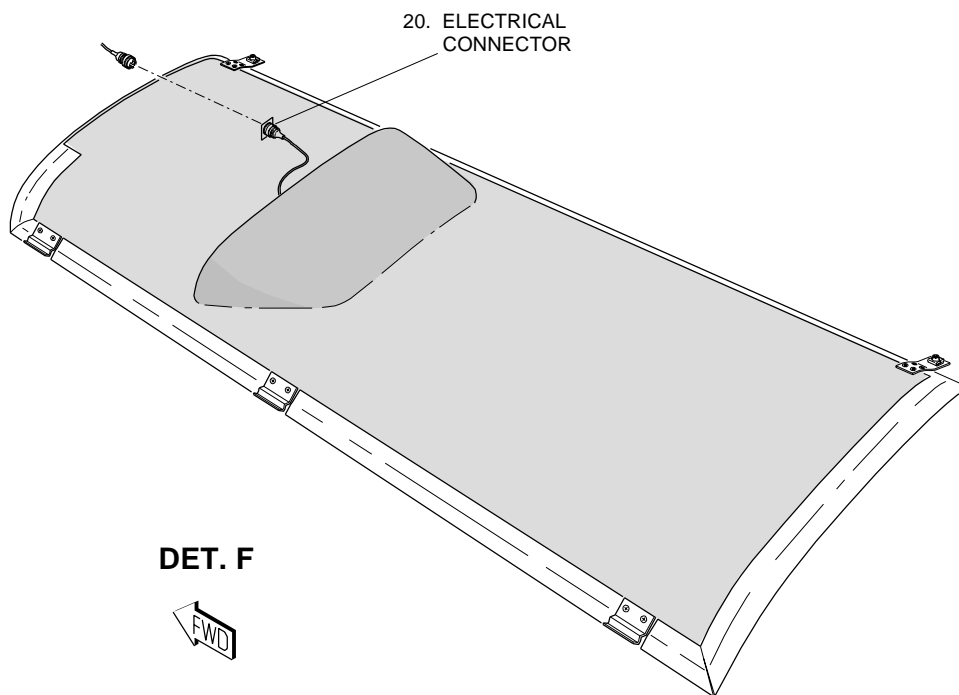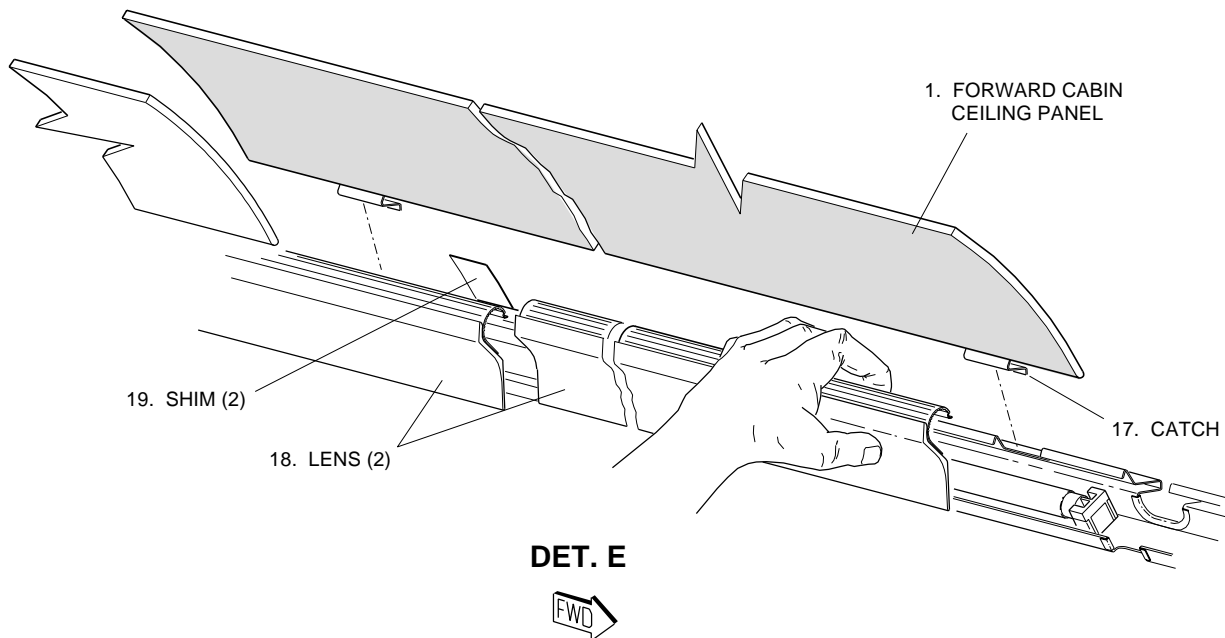2. SCREW

C

D

EXIT

3. SERVICE–DOOR REGION
   CEILING PANEL

DET. B

FWD

EM145AMM253442A.DGN

EFFECTIVITY: ACFT MODEL(S) EMB-145
Forward Cabin Ceiling Panel - Removal/Installation
Figure 404 - Sheet 2

FORWARD GALLEY (REF.)

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

DET. C

FWD

AFT GALLEY (REF.)

11. WASHER
12. SCREW
13. PLUG

16. WASHER (4)
15. SCREW (4)

14. ACCESS PANEL

DET. D

FWD

EM145AMM253443A.DGN

EMB**145** — EMB135

◀EMBRAER

1. FORWARD CABIN
CEILING PANEL

19. SHIM (2)

18. LENS (2)

17. CATCH

DET. E

FWD

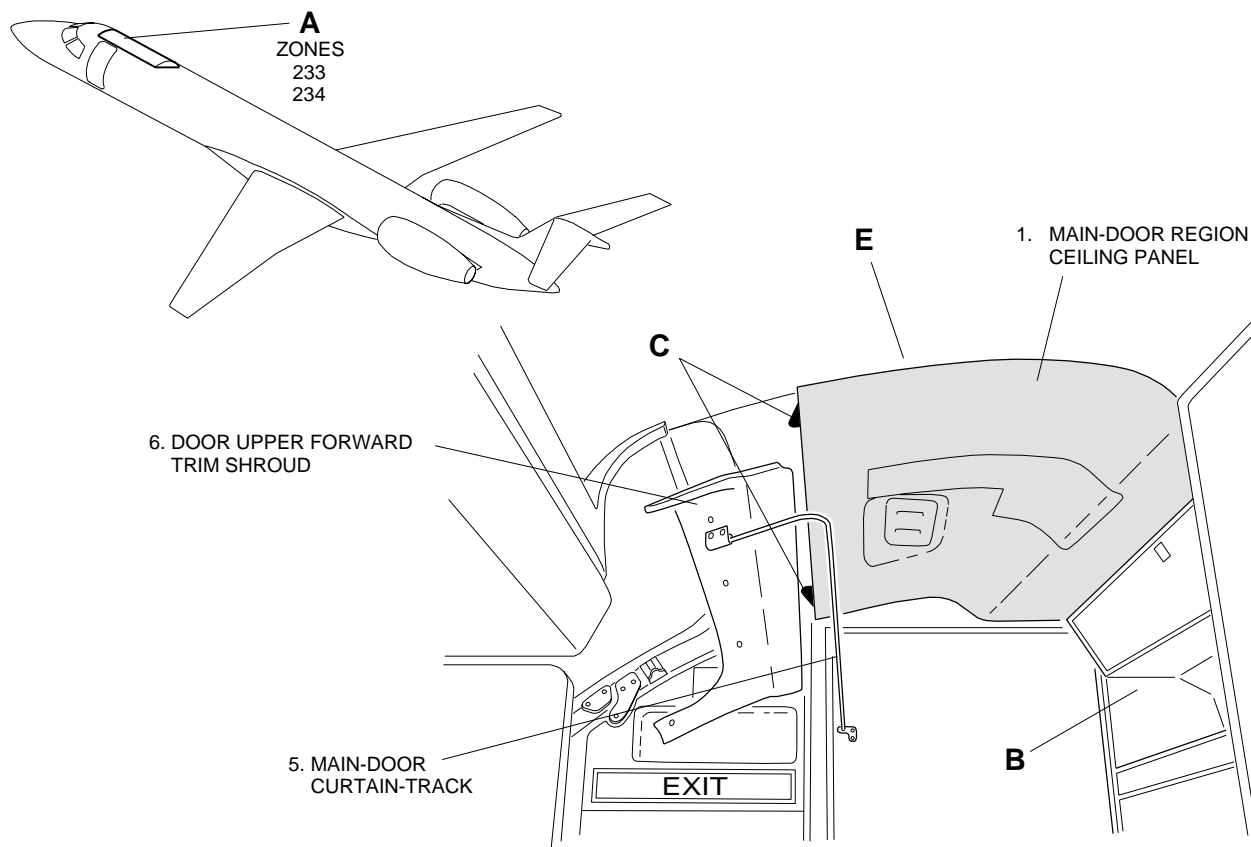20. ELECTRICAL
CONNECTOR

DET. F

FWD

EM145AMM253444A.DGN

EMB145 — EMB135

EFFECTIVITY: AIRCRAFT WITH RH WARDROBE OR OUTBOARD GALLEY WITHOUT OVENS
Main-Door Region Ceiling Panel - Removal/Installation
Figure 405 - Sheet 1

A
ZONES
233
234

E

C

1. MAIN-DOOR REGION
   CEILING PANEL

6. DOOR UPPER FORWARD
   TRIM SHROUD

5. MAIN-DOOR
   CURTAIN-TRACK

EXIT

B

DET. A

2. MISCELLANEOUS
   DOOR

3. ACCESS
   PLATE (2)

4. SCREW (4)

D

DET. B

145AMM250084.MCE A

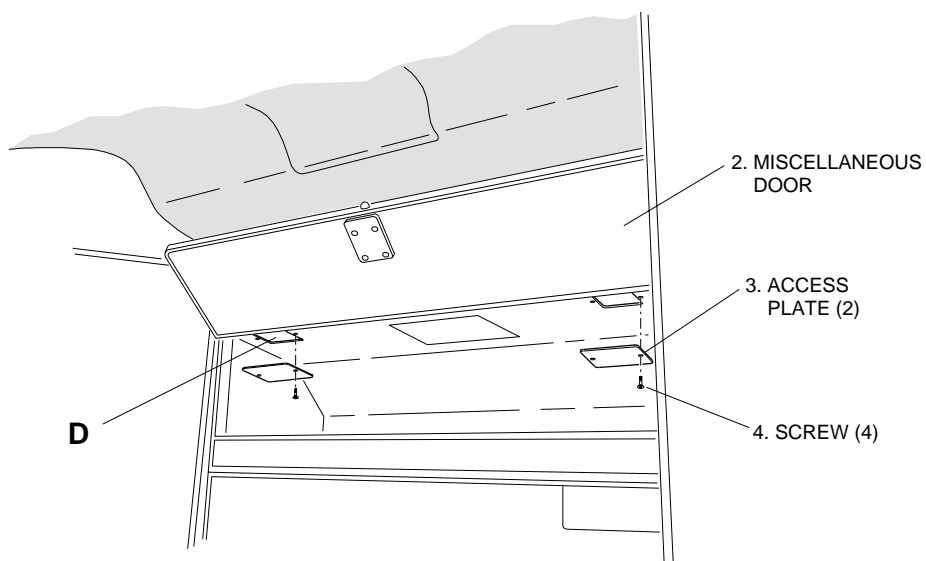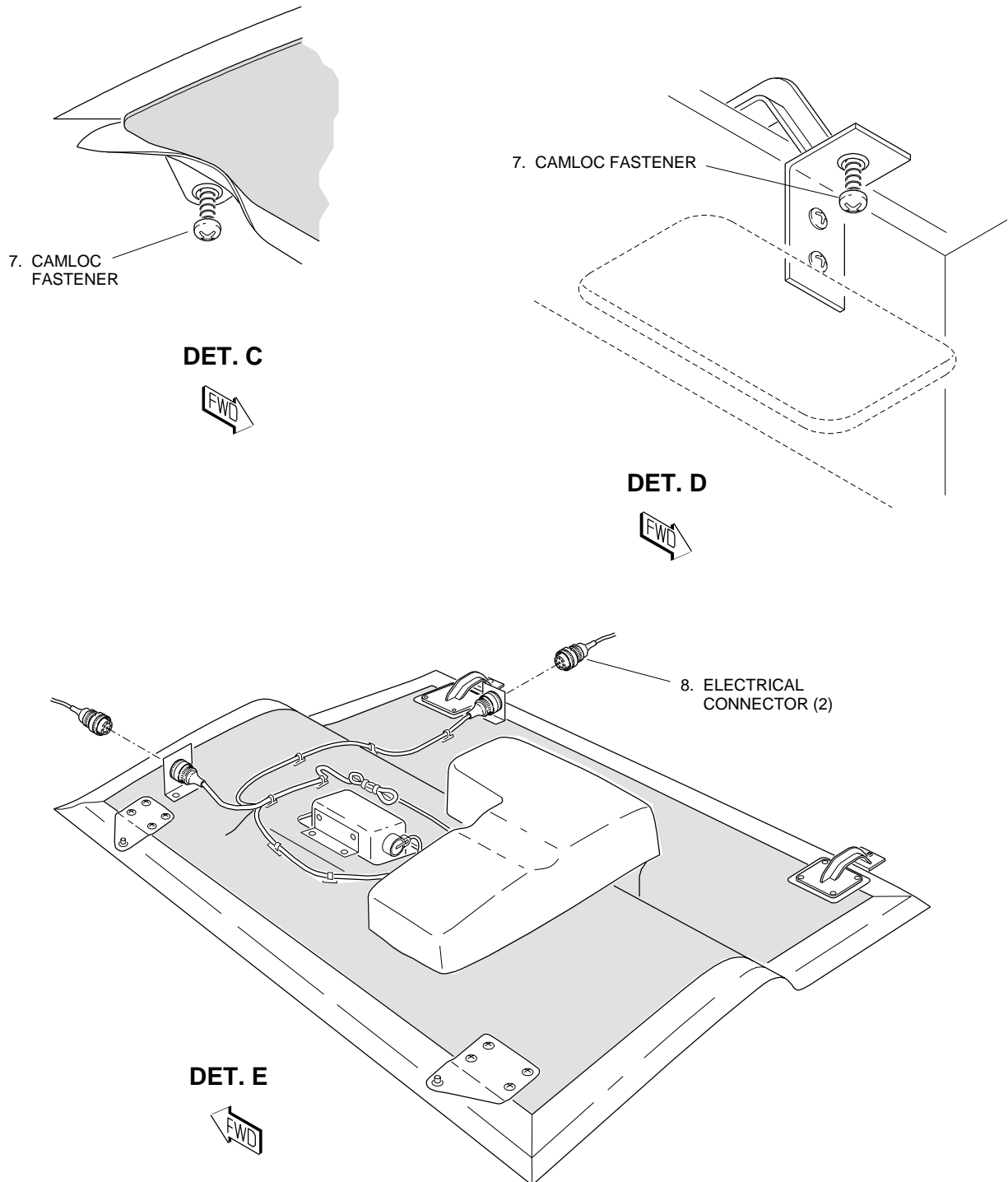*EFFECTIVITY: AIRCRAFT WITH RH WARDROBE OR OUTBOARD GALLEY WITHOUT OVENS*
Main-Door Region Ceiling Panel - Removal/Installation
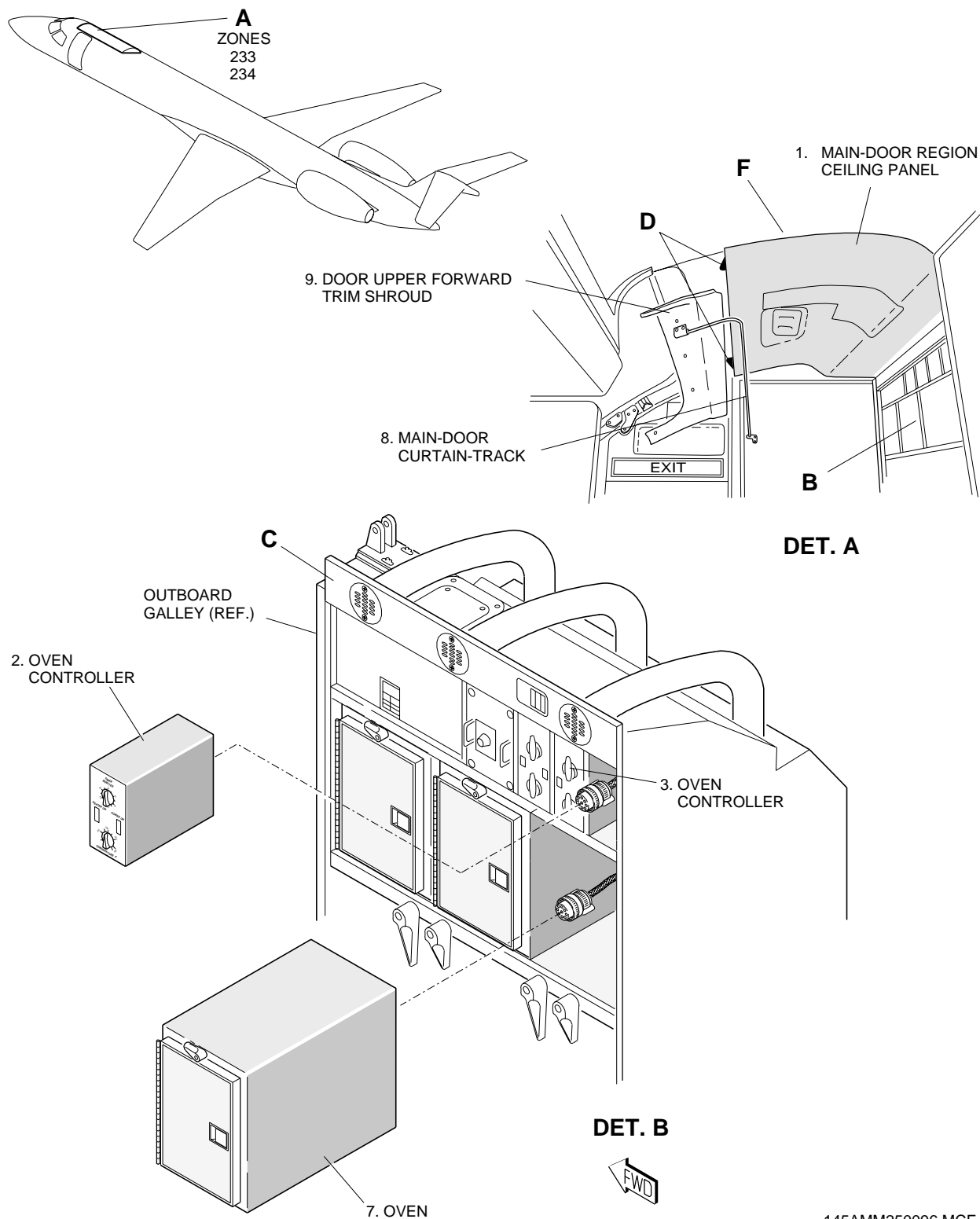Figure 405 - Sheet 2

7. CAMLOC
    FASTENER

DET. C

FWD

7. CAMLOC FASTENER

DET. D

FWD

8. ELECTRICAL
    CONNECTOR (2)

DET. E

FWD

145AMM250085.MCE

EFFECTIVITY: AIRCRAFT WITH OUTBOARD GALLEY WITH OVENS
Main-Door Region Ceiling Panel - Removal/Installation
Figure 406 - Sheet 1

A
ZONES
233
234

1. MAIN-DOOR REGION
CEILING PANEL

F

D

9. DOOR UPPER FORWARD
TRIM SHROUD

8. MAIN-DOOR
CURTAIN-TRACK

EXIT

B

DET. A

C

OUTBOARD
GALLEY (REF.)

2. OVEN
CONTROLLER
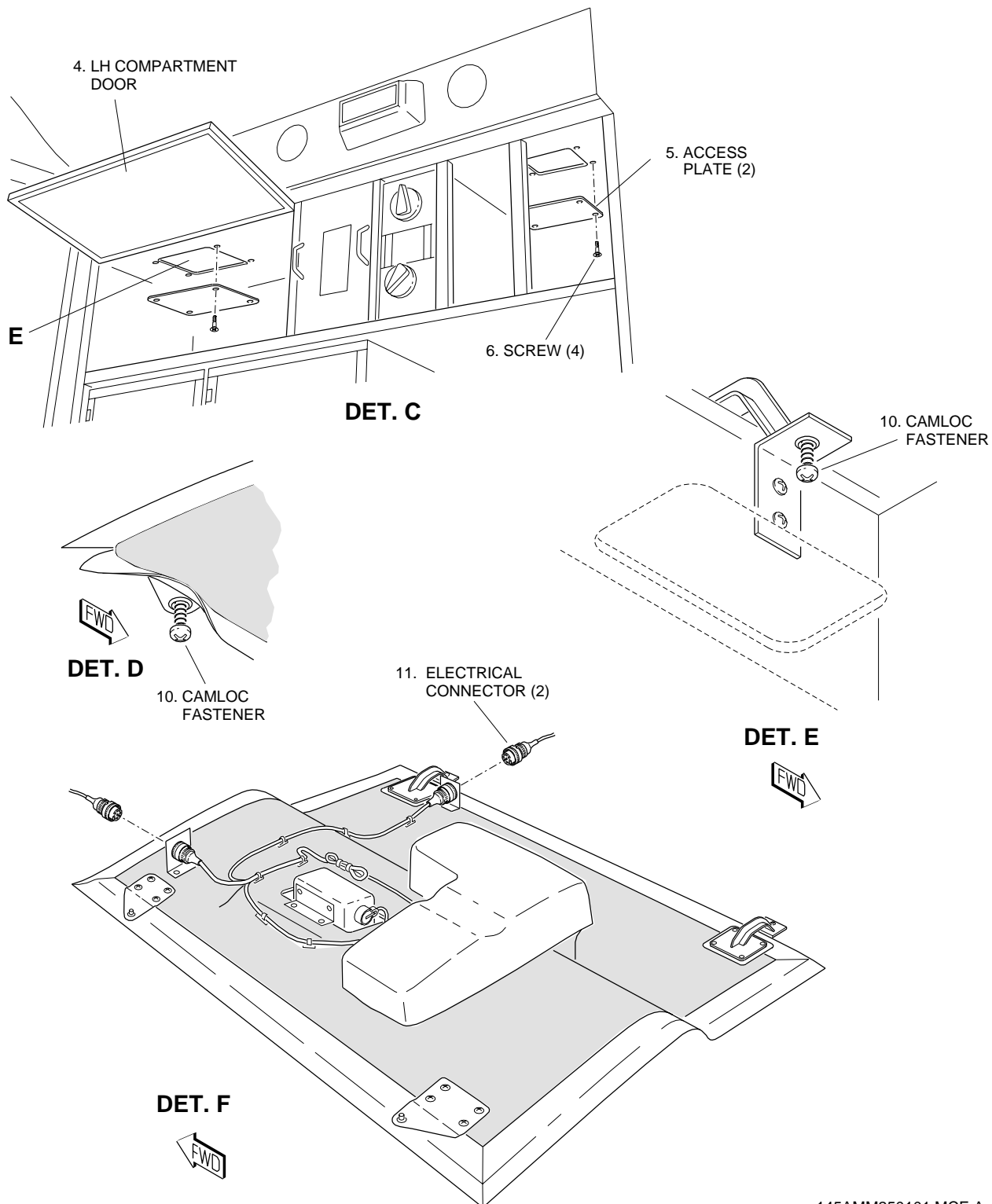
3. OVEN
CONTROLLER

DET. B

FWD

7. OVEN

145AMM250096.MCE A

EFFECTIVITY: AIRCRAFT WITH OUTBOARD GALLEY WITH OVENS
Main-Door Region Ceiling Panel - Removal/Installation
Figure 406 - Sheet 2

4. LH COMPARTMENT
DOOR

5. ACCESS
PLATE (2)

E

6. SCREW (4)

DET. C

10. CAMLOC
FASTENER

DET. D

10. CAMLOC
FASTENER

11. ELECTRICAL
CONNECTOR (2)

DET. E

FWD

DET. F

FWD

145AMM250101.MCE A

TASK 25-22-04-400-801-A
EFFECTIVITY: ACFT MODEL(S) EMB-145

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 eleven standard ceiling panels.

    B.   References

REFERENCE	DESIGNATION
AMM TASK 25-23-06-400-801-A/400	MAIN-DOOR TRIM SHROUD ASSEMBLY - INSTALLATION
AMM TASK 25-23-07-400-801-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 25-31-03-400-801-A/400	OVENS AND OVEN CONTROLLERS - 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 420-017-A

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

(a) For aircraft with RH wardrobe or outboard galley without ovens installed (Figure 405).

1 Connect the electrical connectors (8).

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

3 Turn the Camloc fasteners (7) to attach the main-door region ceiling panel (1).

4 Install the screws (4) to attach the access plates (3).

5 Install the upper forward trim shroud of the door (6) (AMM TASK 25-23-06-400-801-A/400).

6 Install the main-door curtain-track assembly (5) (AMM TASK 25-27-05-400-801-A/400).

(b) For aircraft with outboard galley with ovens installed (Figure 406).

1 Connect the electrical connector (11) (see DET. F).

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

3 Turn the Camloc fasteners (10) to attach the main-door region ceiling panel (1).

4 Install the screws (6) to attach the access plates (5) (see DET. C).

5 Install the oven controllers (2) and (3) (AMM TASK 25-31-03-400-801-A/400).

6 Install the oven (7) (AMM TASK 25-31-03-400-801-A/400).

7 Install the upper forward trim shroud of the door (9) (AMM TASK 25-23-06-400-801-A/400).

8 Install the main-door curtain-track assembly (8) (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) Connect the electrical connector (20).

(b) 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.

<u>3</u>   Move the left end of the panel to fit the catches (17) into the Passenger Service Unit (PSU) extrusion.

(c)   Install the screw (12) and washer (11) that attach the forward ceiling panel to the aft galley.

(d)   Install the screws (15) and washers (16) to attach the access panel (14) to the aft galley.

(e)   Install the plug (13).

(f)   Install the screw (6) and washer (5) that attach the forward cabin ceiling panel (1) to the forward galley.

(g)   Install the screws (10) and washers (9) to attach the access panel (8) to the forward galley.

(h)   Install the plug (7).

(i)   Install the lenses (18).

(j)   Install the shims (19).

(k)   Install the screws (2) to attach the galley curtain-track support (4).

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

(3)   To install the service-door region ceiling panel (6), do the steps below (Figure 403):

(a)   Connect the electrical connectors (7).

(b)   Put the service-door region ceiling panel (6) in its installation position.

(c)   Turn the Camloc fasteners (1) and (2) that attach the service-door region ceiling panel (6).

(d)   Install the galley curtain-track assembly (4). Push in the lock pins on the curtain track and hold them in until they engage the receptacles on the curtain-track support assembly (AMM TASK 25-27-07-400-801-A/400).

(e)   Install the service-door upper trim shroud (3) (AMM TASK 25-23-07-400-801-A/ 400).

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

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

(b)   Set the left catch (4) of the standard ceiling panel (1) into the PSU extrusion.

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

(d)   Install the screws (3) and the washers (2) that attach the standard ceiling panel (1).

(e)   Install the lenses (6).

(f)   Install the shims (5).

J.   Follow-on

SUBTASK 842-017-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 1/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.

1   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:

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, 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).