



AIRCRAFT MAINTENANCE MANUAL

DC-TO-DC CONVERTER - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to remove and install the DC-to-DC converter of the CD player.
- B. The DC-to-DC converter is installed in the forward galley, zone 232.
- C. To do these procedures, use AMM TASK 23-32-05-000-801-A/400 and AMM TASK 23-32-05-400-801-A/400 or AMM TASK 23-32-05-000-802-A/400 and AMM TASK 23-32-05-400-802-A/400, as applicable.
- D. 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
23-32-05-000-801-A	DC-TO-DC CONVERTER - REMOVAL	ACFT MODEL(S) EMB-145
23-32-05-400-801-A	DC-TO-DC CONVERTER - INSTALLATION	ACFT MODEL(S) EMB-145
23-32-05-000-802-A	DC-TO-DC CONVERTER - REMOVAL	ACFT MODEL(S) EMB-145
23-32-05-400-802-A	DC-TO-DC CONVERTER - INSTALLATION	ACFT MODEL(S) EMB-145
23-32-05-000-803-A	DC-TO-DC CONVERTER - REMOVAL	ACFT MODEL(S) EMB-145
23-32-05-400-803-A	DC-TO-DC CONVERTER - INSTALLATION	ACFT MODEL(S) EMB-145



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TASK 23-32-05-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. DC-TO-DC CONVERTER - REMOVAL

A. General

- (1) This task gives the procedures for the removal of the DC-to-DC converter.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Forward galley

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	Forward galley

H. Preparation ([Figure 401](#))

SUBTASK 841-006-A

- (1) On the circuit breaker panel, open the circuit breakers listed below and attach a DO-NOT-CLOSE tag to them:
 - MUSIC (Location Tip: SHED DC BUS 1/SERVICE/MUSIC).
 - PA (Location Tip: ESSENTIAL DC BUS 2/COMM/PA).
- (2) Remove the screws (2) that attach the door (3) to the forward galley (1).
- (3) Remove the door (3).
- (4) Pull and hold the table lock (14).
- (5) Pull the table (15) and remove it from the forward galley (1).
- (6) Remove the shroud (13) to get access to the screw (10).
- (7) Remove the screw (10) that attaches the CD player compartment (7) to the forward galley (1).
- (8) Open the door (9) to get access to the screw (11).



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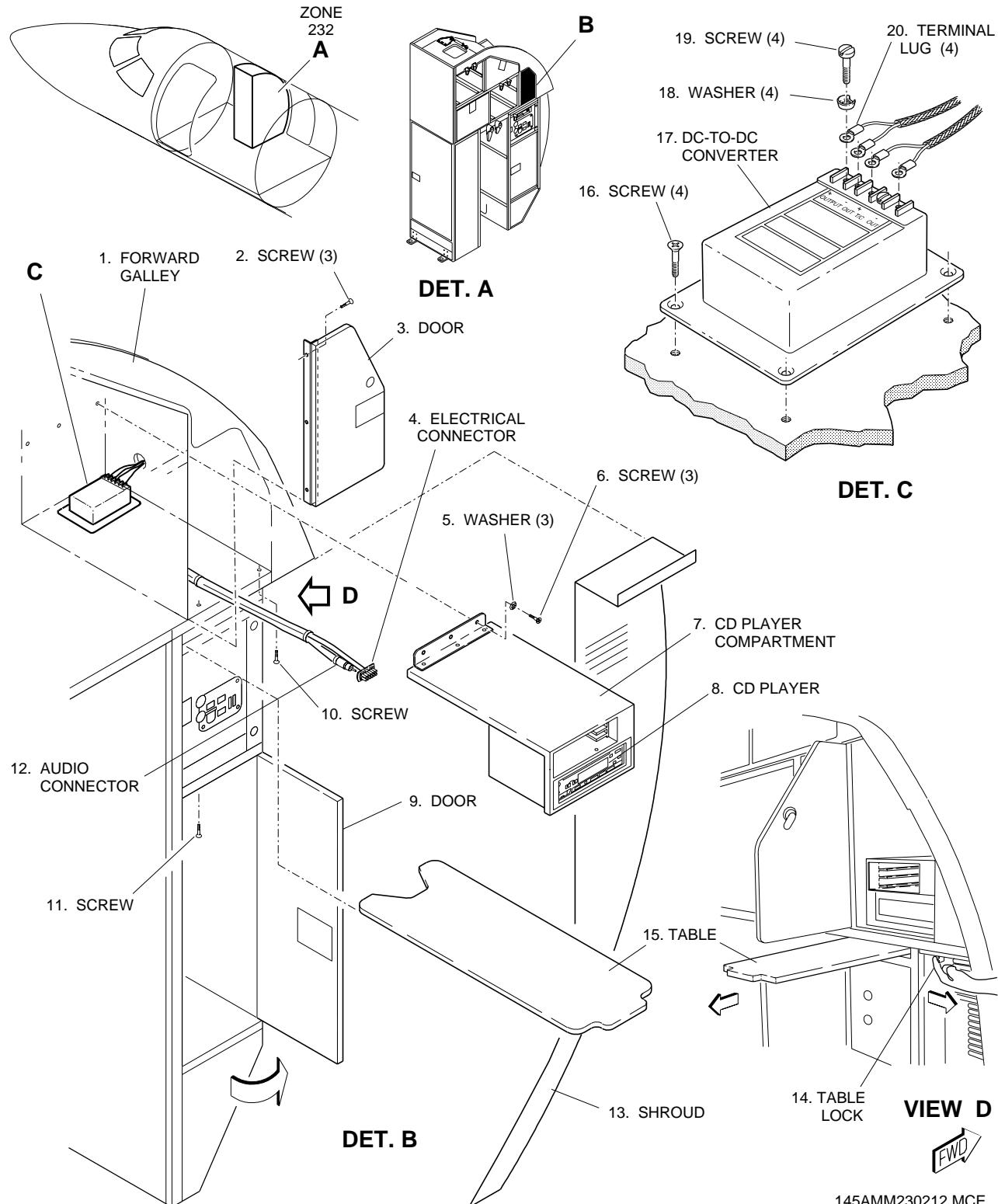
- (9) Remove the screw (11) that attaches the CD player compartment (7) to the forward galley (1).
- (10) Remove the screw (6) and washer (5).
- (11) Carefully pull the CD player compartment (7) to get access to the audio connector (12) and electrical connector (4).
- (12) Disconnect the audio connector (12) and the electrical connector (4) from the CD player (8).
- (13) Remove the CD player compartment (7) from the forward galley (1) to get access to the DC-to-DC converter (17).

I. Removal ([Figure 401](#))

SUBTASK 020-006-A

- (1) Remove the screws (19) and washers (18) that attach the terminal lugs (20) to the DC-to-DC converter (17).
- (2) Remove the screws (16) that attach the DC-to-DC converter (17) to the forward galley (1).
- (3) Remove the DC-to-DC converter (17).

EFFECTIVITY: ACFT MODEL(S) EMB-145
DC-to-DC Converter - Removal/Installation
Figure 401



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TASK 23-32-05-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. DC-TO-DC CONVERTER - INSTALLATION

A. General

- (1) This task gives the procedures for the installation of the DC-to-DC converter.

B. References

REFERENCE	DESIGNATION
AMM TASK 23-32-00-700-801-A/500	-
AMM TASK 23-32-00-700-802-A/500	-
AMM TASK 23-32-00-700-804-A/500	-
AMM TASK 23-32-00-700-805-A/500	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Forward galley

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	Forward galley

I. Installation (Figure 401)

SUBTASK 420-006-A

- (1) Put the DC-to-DC converter (17) in position.
- (2) Install the screws (16) to attach the DC-to-DC converter (17) to the forward galley (1).
- (3) Put the terminal lugs (20) in position.
- (4) Install the screws (19) and washers (18) to attach the terminal lugs (20) to the DC-to-DC converter (17).



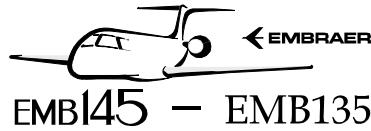
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J. Follow-on (Figure 401)

SUBTASK 842-006-A

- (1) Connect the audio connector (12) and the electrical connector (4) to the CD player (8).
- (2) Carefully put the CD player compartment (7) into the forward galley (1).
- (3) Install the screw (11) to attach the CD player compartment (7) to the forward galley (1).
- (4) Install the screw (10).
- (5) Install the screw (6) and washer (5).
- (6) On the circuit breaker panel, close the circuit breakers listed below and remove the DO-NOT-CLOSE tag from them:
 - MUSIC (Location Tip: SHED DC BUS 1/SERVICE/MUSIC).
 - PA (Location Tip: ESSENTIAL DC BUS 2/COMM/PA).
- (7) (Aircraft with CD player model DEH-245) Do the CD player model DEH-245 operational test (AMM TASK 23-32-00-700-801-A/500) or (AMM TASK 23-32-00-700-802-A/500, if you turn on the CD player with the SOURCE pushbutton).
- (8) (Aircraft with CD player model DEH-1000) Do the CD player model DEH-1000 operational test (AMM TASK 23-32-00-700-804-A/500) or (AMM TASK 23-32-00-700-805-A/500, if you turn on the CD player with the SOURCE pushbutton).
- (9) Install the shroud (13).
- (10) Pull and hold the table lock (14).
- (11) Put the table (15) into the forward galley (1).
- (12) Put the door (3) in position.
- (13) Install the screws (2) that attach the door (3) to the forward galley (1).



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TASK 23-32-05-000-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

4. DC-TO-DC CONVERTER - REMOVAL

A. General

- (1) This task gives the procedures for the removal of the DC-to-DC converter.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Forward galley

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	Forward galley

H. Preparation ([Figure 402](#))

SUBTASK 841-007-A

- (1) On the circuit breaker panel, open the circuit breakers listed below and attach a DO-NOT-CLOSE tag to them:
 - MUSIC (Location Tip: SHED DC BUS 1/SERVICE/MUSIC).
 - PA (Location Tip: ESSENTIAL DC BUS 2/COMM/PA).
- (2) Open the door (9).
- (3) Remove the screws (4) and washers (3) that attach the CD player compartment (6) to the forward galley (1).
- (4) Remove the screws (8) that attach the CD player compartment (6) to the forward galley (1).
- (5) Carefully pull the CD player compartment (6) to get access to the audio connector (7) and electrical connector (2).
- (6) Disconnect the audio connector (7) and the electrical connector (2) from the CD player (5).



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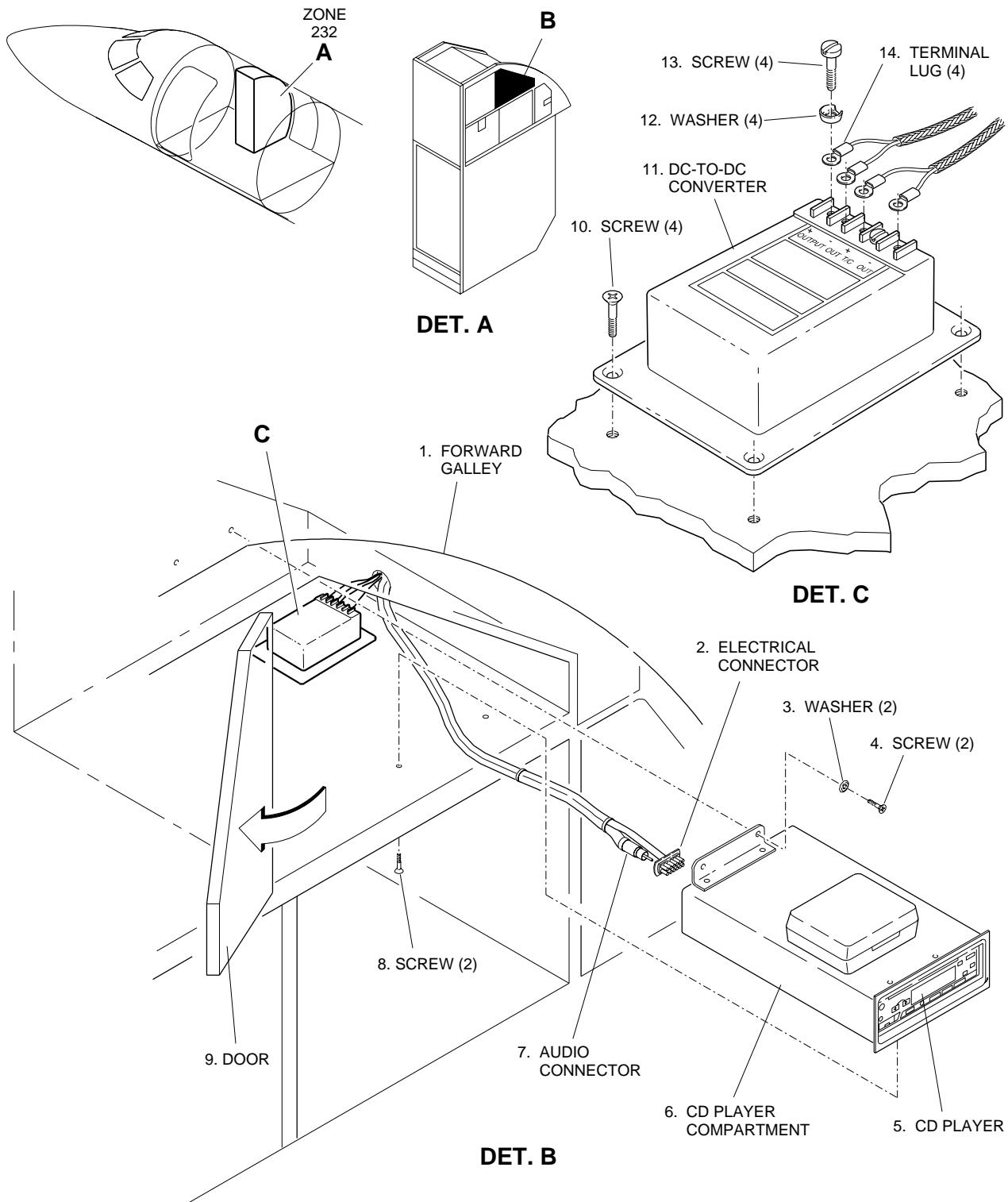
- (7) Remove the CD player compartment (6) from the forward galley (1) to get access to the DC-to-DC converter (11).

I. Removal ([Figure 402](#))

SUBTASK 020-007-A

- (1) Remove the screws (13) and washers (12) that attach the terminal lugs (14) to the DC-to-DC converter (11).
- (2) Remove the screws (10) that attach the DC-to-DC converter (11) to the forward galley (1).
- (3) Remove the DC-to-DC converter (11).

EFFECTIVITY: ACFT MODEL(S) EMB-145
DC-to-DC Converter - Removal/Installation
Figure 402



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TASK 23-32-05-400-802-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

5. DC-TO-DC CONVERTER - INSTALLATION

A. General

- (1) This task gives the procedures for the installation of the DC-to-DC converter.

B. References

REFERENCE	DESIGNATION
AMM TASK 23-32-00-700-801-A/500	-
AMM TASK 23-32-00-700-802-A/500	-
AMM TASK 23-32-00-700-804-A/500	-
AMM TASK 23-32-00-700-805-A/500	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Forward galley

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	Forward galley

I. Installation (Figure 402)

SUBTASK 420-007-A

- (1) Put the DC-to-DC converter (11) in position.
- (2) Install the screws (10) to attach the DC-to-DC converter (11) to the forward galley (1).
- (3) Put the terminal lugs (14) in position.
- (4) Install the screws (13) and washer (12) to attach the terminal lugs (14) to the DC-to-DC converter (11).



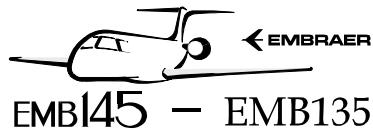
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J. Follow-on (Figure 402)

SUBTASK 842-007-A

- (1) Connect the audio connector (7) and the electrical connector (2) to the CD player (5).
- (2) Carefully put the CD player compartment (6) into the forward galley (1).
- (3) Install the screws (8) that attach the CD player compartment (5) to the forward galley (1).
- (4) Install the screws (4) and washers (3) that attach the CD player compartment (6) to the forward galley (1).
- (5) On the circuit breaker panel, close the circuit breakers listed below and remove the DO-NOT-CLOSE tag from them:
 - MUSIC (Location Tip: SHED DC BUS 1/SERVICE/MUSIC).
 - PA (Location Tip: ESSENTIAL DC BUS 2/COMM/PA).
- (6) (Aircraft with CD player model DEH-245) Do the CD player model DEH-245 operational test (AMM TASK 23-32-00-700-801-A/500) or (AMM TASK 23-32-00-700-802-A/500, if you turn on the CD player with the SOURCE pushbutton).
- (7) (Aircraft with CD player model DEH-1000) Do the CD player model DEH-1000 operational test (AMM TASK 23-32-00-700-804-A/500) or (AMM TASK 23-32-00-700-805-A/500, if you turn on the CD player with the SOURCE pushbutton).
- (8) Close the door (9).



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TASK 23-32-05-000-803-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

6. DC-TO-DC CONVERTER - REMOVAL

A. General

- (1) This task gives the procedures for the removal of the DC-to-DC converter.

B. References

REFERENCE	DESIGNATION
AMM TASK 26-14-02-000-801-A/400	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Forward galley

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	Forward galley

I. Preparation (Figure 401)

SUBTASK 841-008-A

- (1) On the circuit breaker panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:
 - MUSIC (Location Tip: SHED DC BUS 1/SERVICE/MUSIC).
 - PA (Location Tip: ESSENTIAL DC BUS 2/COMM/PA).
- (2) Remove the screw (4) and washer (5) that attach the support (6) to the forward galley (1).
- (3) Remove the support (6).
- (4) Carefully remove the shroud (12).
- (5) Open the door (13).

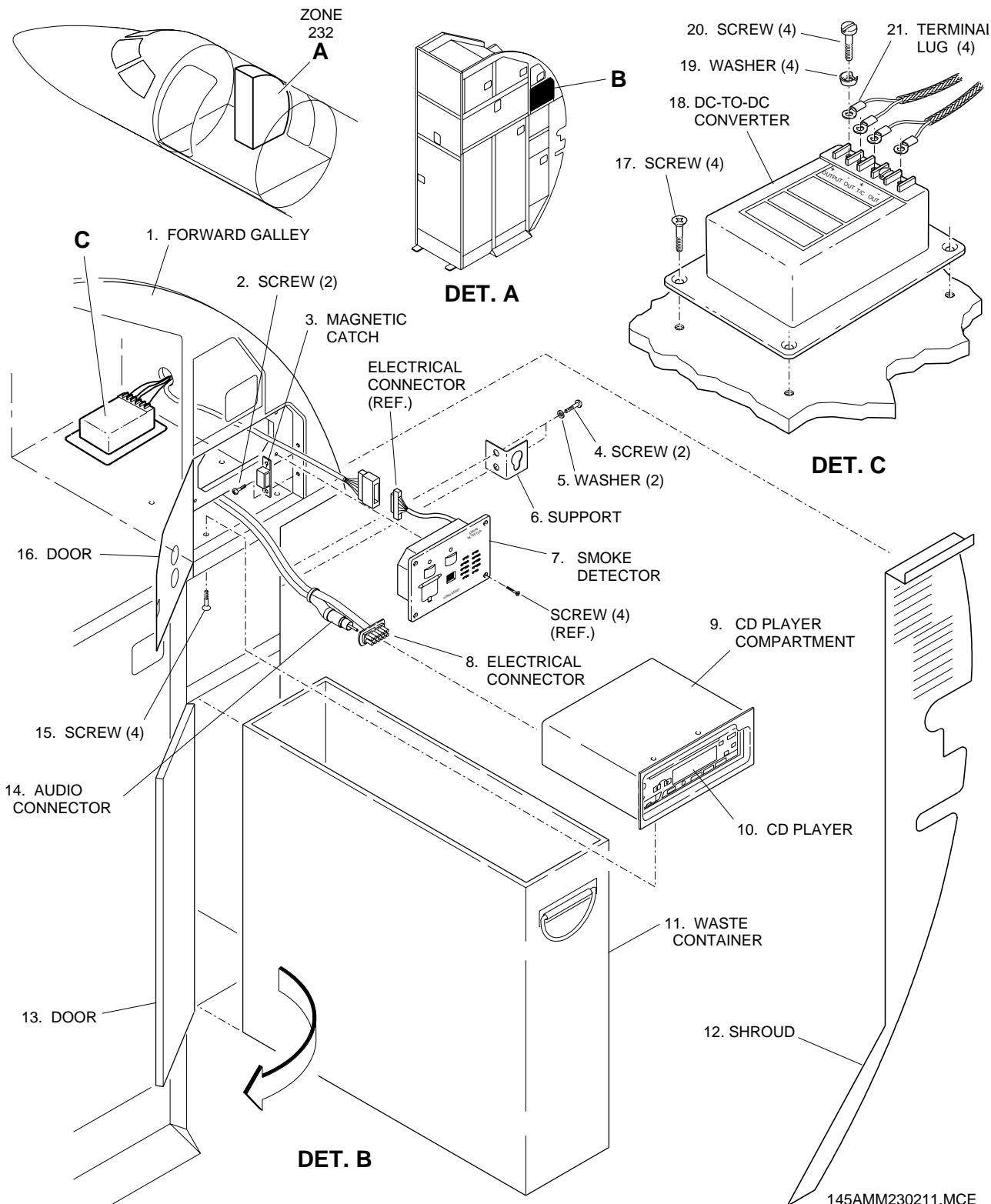
- (6) Pull the waste container (11) and remove it from the forward galley (1).
- (7) Open the door (16) to get access to the Smoke Detector Panel (7).
- (8) Remove the Smoke Detector Panel (7) (AMM TASK 26-14-02-000-801-A/400).
- (9) Remove the screws (2) that attach the magnetic catch (3) to the forward galley (1).
- (10) Remove the magnetic catch (3).
- (11) Remove the screws (15) that attach the CD player compartment (9) to the forward galley (1).
- (12) Carefully pull the CD player compartment (9) to get access to the audio connector (14) and electrical connector (8).
- (13) Disconnect the audio connector (14) and the electrical connector (8) from the CD player (10).
- (14) Remove the CD player compartment (9) from the forward galley (1) to get access to the DC-to-DC converter (18).

J. Removal (Figure 401)

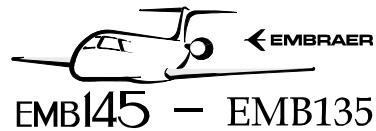
SUBTASK 020-008-A

- (1) Remove the screws (20) and washers (19) that attach the terminal lugs (21) to the DC-to-DC converter (18).
- (2) Remove the screws (17) that attach the DC-to-DC converter (18) to the forward galley (1).
- (3) Remove the DC-to-DC converter (18).

EFFECTIVITY: ACFT MODEL(S) EMB-145
DC-to-DC Converter - Removal/Installation
Figure 403



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TASK 23-32-05-400-803-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

7. DC-TO-DC CONVERTER - INSTALLATION

A. General

- (1) This task gives the procedures for the installation of the DC-to-DC converter.

B. References

REFERENCE	DESIGNATION
AMM TASK 23-32-00-700-801-A/500	-
AMM TASK 23-32-00-700-802-A/500	-
AMM TASK 23-32-00-700-804-A/500	-
AMM TASK 23-32-00-700-805-A/500	-
AMM TASK 26-14-02-400-801-A/400	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Forward galley

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

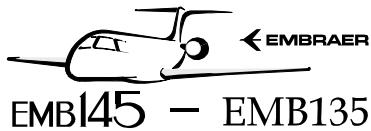
H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward galley

I. Installation (Figure 401)

SUBTASK 420-008-A

- (1) Put the DC-to-DC converter (18) in position.
- (2) Install the screws (17) to attach the DC-to-DC converter (18) to the forward galley (1).
- (3) Put the terminal lugs (21) in position.
- (4) Install the screws (20) and washer (19) to attach the terminal lugs (21) to the DC-to-DC converter (18).



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J. Follow-on (Figure 401)

SUBTASK 842-008-A

- (1) Connect the audio connector (14) and the electrical connector (8) to the CD player (10).
- (2) Carefully put the CD player compartment (9) into the forward galley (1).
- (3) Install the screws (15) that attach the CD player compartment (9) to the forward galley (1).
- (4) On the circuit breaker panel, close the circuit breakers listed below and remove the DO-NOT-CLOSE tag from them:
 - MUSIC (Location Tip: SHED DC BUS 1/SERVICE/MUSIC).
 - PA (Location Tip: ESSENTIAL DC BUS 2/COMM/PA).
- (5) (Aircraft with CD player model DEH-245) Do the CD player model DEH-245 operational test (AMM TASK 23-32-00-700-801-A/500) or (AMM TASK 23-32-00-700-802-A/500, if you turn on the CD player with the SOURCE pushbutton).
- (6) (Aircraft with CD player model DEH-1000) Do the CD player model DEH-1000 operational test (AMM TASK 23-32-00-700-804-A/500) or (AMM TASK 23-32-00-700-805-A/500, if you turn on the CD player with the SOURCE pushbutton).
- (7) Install the Smoke Detector Panel (7) (AMM TASK 26-14-02-400-801-A/400).
- (8) Put the magnetic catch (3) in position.
- (9) Install the screws (2) to attach the magnetic catch (3) to the forward galley (1).
- (10) Put the waste container (11) into the forward galley (1).
- (11) Install the shroud (12).
- (12) Put the support (6) in position.
- (13) Install the screws (4) and washers (5) to attach the support (6) to the forward galley (1).