

AIRCRAFT MAINTENANCE MANUAL

PASSENGER SEATS - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to remove/install the passenger seat assemblies.
- B. The procedures for removal and installation of the passenger seat assemblies are the same for all passenger seats.
- C. The front row of passenger seats have foodtray assemblies inside the armrests.
- D. The standard passenger seats have foodtray assemblies installed on their back.
- E. The passenger seats at the emergency exit row have a reduced size armrest for easier access to the emergency exit.
- F. The passenger seats in front of the emergency exit have sliding foodtray assemblies installed on the seatback.
- G. The last row of passenger seats does not have a foodtray assembly attached.
- H. The last row of passenger seats has a full recline position of 8 degrees from vertical. The standard passenger seats have a full recline position of 19 degrees.
- I. The passenger seat assemblies are installed in the passenger cabin at zones 231, 241, 242, 251, 252, 261, and 262.
- J. 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
25-21-01-000-801-A	PASSENGER SEAT ASSEMBLIES - REMOVAL	ACFT MODEL(S) EMB-145
25-21-01-400-801-A	PASSENGER SEAT ASSEMBLIES - INSTALLATION	ACFT MODEL(S) EMB-145
25-21-01-000-803-A	PASSENGER SEAT ARMREST - REMOVAL	ACFT MODEL(S) EMB-145
25-21-01-000-804-A	PASSENGER SEAT FOOD TRAY TABLE - REMOVAL	ACFT MODEL(S) EMB-145
25-21-01-000-805-A	PASSENGER SEAT HYDRAULIC LOCK - REMOVAL	ACFT MODEL(S) EMB-145
25-21-01-400-803-A	PASSENGER SEAT ARMREST - INSTALLATION	ACFT MODEL(S) EMB-145
25-21-01-400-804-A	PASSENGER SEAT FOODTRAY TABLE - INSTALLATION	ACFT MODEL(S) EMB-145

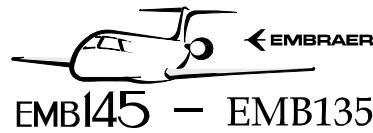


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(Continued)

TASK NUMBER	DESCRIPTION	EFFECTIVITY
25-21-01-400-805-A	PASSENGER SEAT HYDRAULIC LOCK - INSTALLATION	ACFT MODEL(S) EMB-145



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TASK 25-21-01-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. PASSENGER SEAT ASSEMBLIES - REMOVAL

A. General

- (1) This task gives the procedure to remove the passenger seat assemblies.
- (2) The seat bottom cushions are attached with Velcro fasteners.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 479	Wrench - Seat Installation	Used to remove/install the passenger seats	
GSE 481	Wrench - Seat Installation	Used to remove/install the passenger seats	

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Passenger cabin

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

SUBTASK 020-045-B

- (1) Remove the passenger seat assembly as follows:

NOTE: Before the removal, identify the location of each seat to make sure that it is installed back in the same position where it was removed from.

- (a) Remove the track lining sections (1), as applicable.
- (b) Loosen the bolts (2) that attach the track fitting assemblies (3).
- (c) Remove the seat bottom cushion (4).
- (d) Loosen the bolt (5) that attaches the track fitting assembly (6).
- (e) Install the seat bottom cushion (4).
- (f) Use GSE 479 or GSE 481 to loose the anti-rattle stud assembly (7).

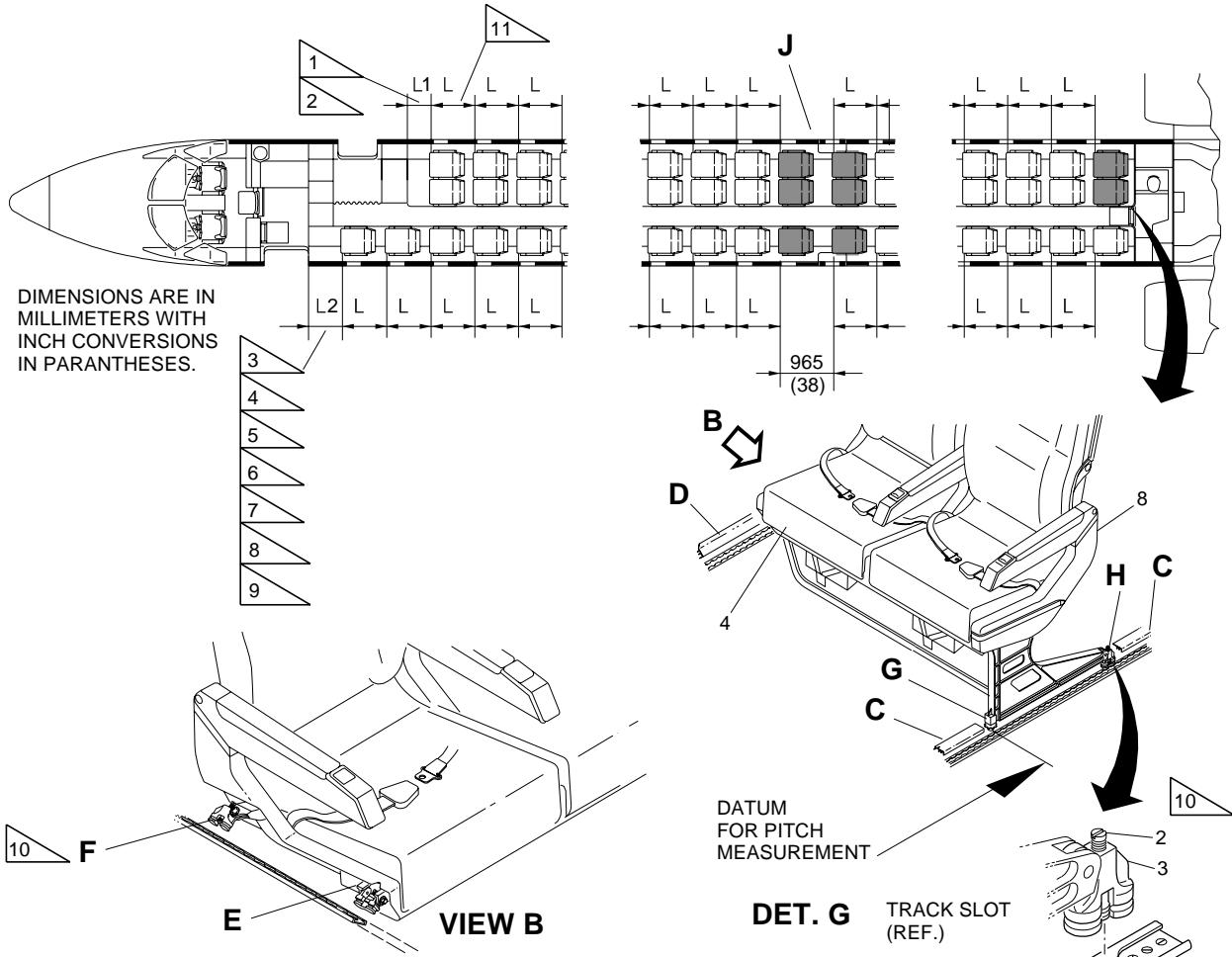


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- (g) Move the passenger seat assembly (8) horizontally to a position where the track fitting assemblies coincide with the larger openings of the track slot.
- (h) Pull up the passenger seat assembly (8), to remove it.

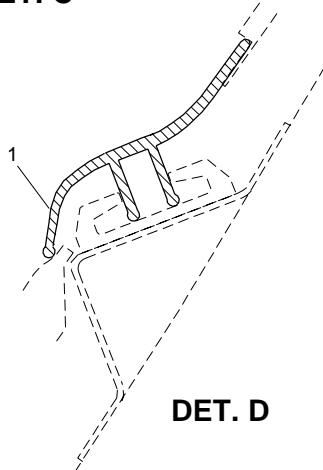
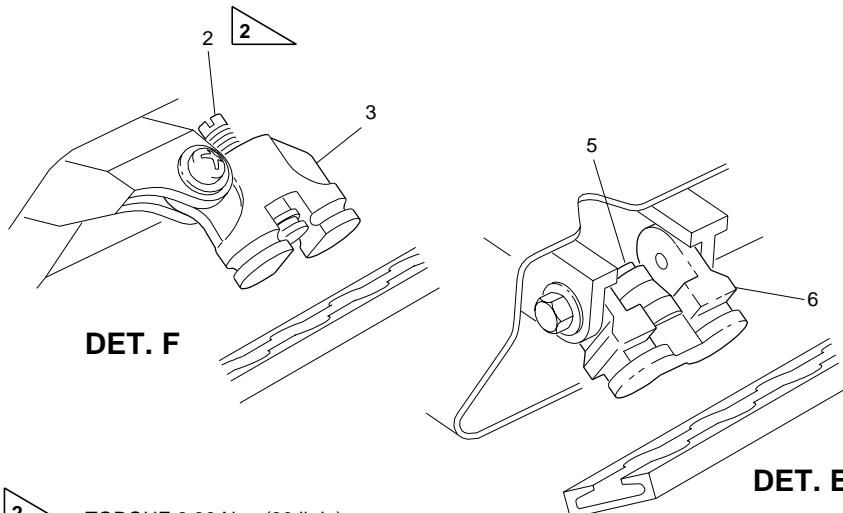
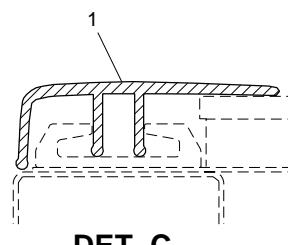
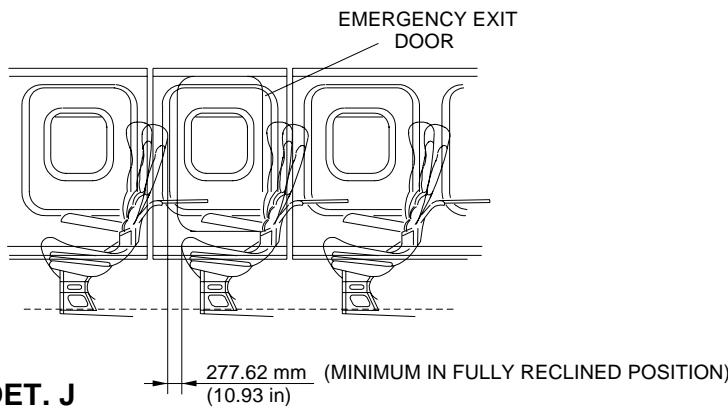
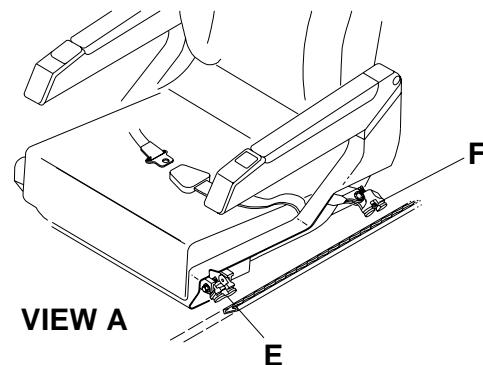
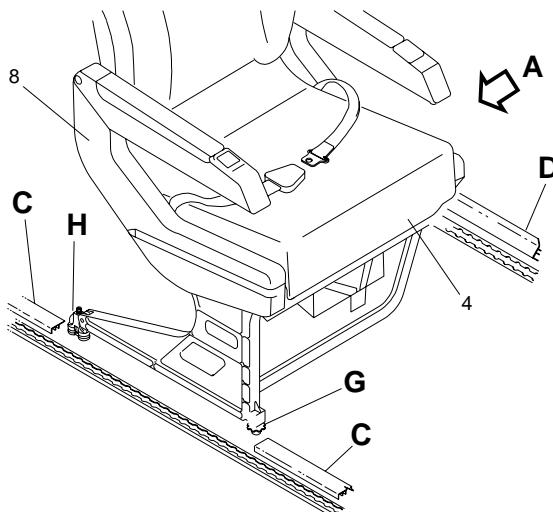
EFFECTIVITY: ACFT MODEL(S) EMB-145
Passenger Seat Assemblies - Removal/Installation
Figure 401 - Sheet 1



- 1 FOR AIRCRAFT WITH AFT GALLEY, L1 = 558.4 (22.00)
- 2 FOR AIRCRAFT WITH RH WINDSCREEN, L1 = 578.8 (22.76)
- 3 FOR AIRCRAFT WITH LH WINDSCREEN, L2 = 693.4 (27.30)
- 4 FOR AIRCRAFT WITH EMERGENCY EQUIPMENT STOWAGE UNIT, L2 = 546.6 (21.52)
- 5 FOR AIRCRAFT WITH LH WARDROBE (OPTION 4), L2 = 527.7 (22.55)
- 6 FOR AIRCRAFT WITH LH WARDROBE (OPTION 5), L2 = 558.9 (22.00)
- 7 FOR AIRCRAFT WITH LH GALLEY, L2 = 610.6 (24.04)
- 8 FOR AIRCRAFT WITH LH WARDROBE (OPTION 1), L2 = 610.6 (24.04)
- 9 FOR AIRCRAFT WITH LH WARDROBE (OPTION 2), L2 = 610.6 (24.04)
- 10 TORQUE 3.39 N.m (30 lb.in)
- 11 L = 787.40 (31 in)
- 12 FINGERTIGHT PLUS 1/2 TURN

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EFFECTIVITY: ACFT MODEL(S) EMB-145
 Passenger Seat Assemblies - Removal/Installation
 Figure 401 - Sheet 2



2 TORQUE 3.39 N.m (30 lb.in)

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TASK 25-21-01-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. PASSENGER SEAT ASSEMBLIES - INSTALLATION

A. General

(1) This task gives the procedure to install the passenger seat assemblies.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-21-01-800-802-A/500	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 479	Wrench - Seat Installation	Used to remove/install the passenger seat	
GSE 481	Wrench - Seat Installation	Used to remove/install the passenger seat	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
2	Do the task	Passenger cabin

I. Installation (Figure 401)

SUBTASK 420-047-B

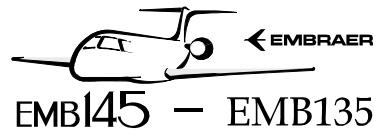
(1) Install the passenger seat assembly as follows:

NOTE: • Make sure that the passenger seat assembly is back to the same location as that from which it was removed.

- Start the installation of the passenger seat assemblies from the first larger opening of the track slot, from the rear portion to the front portion. Refer to Figure 401, DET. H.
- For aircraft with 37 or 36 passengers, obey the pitch of 787.4 mm (31 in) between the rows.
- Obey the pitch of 965 mm (38 in) for the emergency exit row.

- The pitch between seats is measured from the front leg of one seat to the front leg of the next seat.
- The distance between the first seat and the furniture ahead it is measured from the front leg of the seat to the furniture.
- For aircraft with aft galley, obey the distance of 558.4 mm (22.00 in) from it to the first double passenger-seat row.
- For aircraft with RH windscreens, obey the distance of 578.8 mm (22.76 in) from it to the first double passenger-seat row.
- For aircraft with LH windscreens, obey the distance of 693.4 mm (27.30 in) from it to the first single passenger seat.
- For aircraft with emergency equipment stowage unit, obey the distance of 546.6 mm (21.52 in) from it to the first single passenger seat.
- For aircraft with LH wardrobe (option 4), obey the distance of 527.7 mm (22.55 in) from it to the first single passenger seat.
- For aircraft with LH wardrobe (option 5), obey the distance of 558.9 mm (22.00 in) from it to the first single passenger seat.
- For aircraft with LH galley, obey the distance of 610.6 mm (24.04 in) from it to the first single passenger seat.
- For aircraft with LH wardrobe (option 1), obey the distance of 610.6 mm (24.04 in) from it to the first single passenger seat.
- For aircraft with LH wardrobe (option 2), obey the distance of 610.6 mm (24.04 in) from it to the first single passenger seat.
- Make sure that the distance between the seats in full recline position, installed near of the emergency exit is no less than 277.62 mm (10.93 in) and do not block the access to open the hatch. If necessary, adjust the seat recline (AMM TASK 25-21-01-800-802-A/500). Refer to Figure 401, DET. J.
 - (a) Put the passenger seat assembly (8) in a position where the track fitting assemblies coincide with the larger openings of the track slot.
 - (b) Push the passenger seat assembly (8) down and move it horizontally until it is in the correct position.
 - (c) Start and drive the anti-rattle stud (7) until the stud rests on the track (but not torque it now).
 - (d) Torque the bolts (2).

NOTE: Make sure that the passenger seat assembly (8) is in the correct position.
 - (e) Remove the seat bottom cushion (4).
 - (f) Attach the bolt (5).



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- (g) Install the seat bottom cushion (4).
- (h) Use GSE 479 or GSE 481 to torque the anti-rattle stud assembly (7).
- (i) Install the removed track lining sections (1).



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TASK 25-21-01-000-803-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

4. PASSENGER SEAT ARMREST - REMOVAL

A. General

- (1) This task gives the procedure to remove the passenger seats armrest.
- (2) This procedure is the same for all passenger seats.

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 removal	Passenger cabin

H. PASSENGER SEAT ARMREST - REMOVAL

SUBTASK 020-032-B ([Figure 402, Sheet 1](#))

- (1) To remove the single seat aisle armrest (8), do as follows:
 - (a) Remove the screws (5) and (6) that attach the armrest escutcheon (4) to the aisle armrest (8).
 - (b) Remove the armrest escutcheon (4) from the aisle armrest (8).
 - (c) Remove the screw (3) and washer (2) that attach the arm cap (1) to the aisle armrest (8).
 - (d) Remove the arm cap (1) from the aisle armrest (8).
 - (e) Remove the recline control cable (7) from the aisle armrest (8).

SUBTASK 020-033-A ([Figure 402, Sheet 2](#))

- (2) To remove the single seat outboard armrest (15), do as follows:
 - (a) Remove the screws (13) and (14) that attach the armrest escutcheon (12) to the outboard armrest (15).
 - (b) Remove the armrest escutcheon (12) from the outboard armrest (15).

- (c) Remove the screw (11) and washer (10) that attach the arm cap (9) to the outboard armrest (15).
- (d) Remove the arm cap (9) from the outboard armrest (15).

SUBTASK 020-034-B (Figure 403, Sheet 1)

- (3) To remove the single seat aisle armrest with audio jack (8), do as follows:
 - (a) Remove the screws (5) and (6) that attach the armrest escutcheon (4) to the aisle armrest (8).
 - (b) Remove the armrest escutcheon (4) from the aisle armrest (8).
 - (c) Remove the audio jack (9) from the armrest escutcheon (4).
 - (d) Remove the screw (3) and washer (2) that attach the arm cap (1) to the aisle armrest (8).
 - (e) Remove the arm cap (1) from the aisle armrest (8).
 - (f) Remove the recline control cable (7) from the aisle armrest (8).

SUBTASK 020-035-B (Figure 403, Sheet 2)

- (4) To remove the single seat outboard armrest with audio jack (17), do as follows:
 - (a) Remove the screws (14) and (15) that attach the armrest escutcheon (13) to the outboard armrest (17).
 - (b) Remove the armrest escutcheon (13) from the outboard armrest (17).
 - (c) Remove the audio jack (18) from the armrest escutcheon (13).
 - (d) Remove the screw (12) and washer (11) that attach the arm cap (10) to the outboard armrest (17).
 - (e) Remove the arm cap (10) from the outboard armrest (17).
 - (f) Remove the recline control cable (16) from the outboard armrest (17).

SUBTASK 020-036-A (Figure 404)

- (5) To remove the emergency exit armrest (1), do as follows:
 - (a) Remove the screw (3) that attaches the arm cap (2) to the emergency exit armrest (1).
 - (b) Remove the arm cap (2) from the emergency exit armrest (1).

SUBTASK 020-037-A (Figure 405, Sheet 1)

- (6) To remove the double seat center armrest (1), do as follows:
 - (a) Remove the screws (3) and (2) that attach the armrest escutcheon (4) to the center armrest (1).
 - (b) Remove the armrest escutcheon (4) from the center armrest (1).



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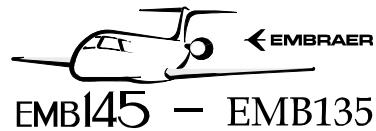
- (c) Remove the screw (5) and washer (6) that attach the arm cap (7) to the center armrest (1).
- (d) Remove the arm cap (7) from the center armrest (1).

SUBTASK 020-038-A (Figure 405, Sheet 2)

- (7) To remove the double seat aisle armrest (12), do as follows:
 - (a) Remove the screws (20) that attach the hinged arm cap (21) from the aisle armrest (12).
 - (b) Remove the hinged arm cap (21) as follows.
 - 1 Remove the pin (22) that attaches the arm pad (24) and half hinge (23).
 - 2 Remove the half hinge (23) from the arm pad (24).
 - 3 Remove the arm pad (24) from the aisle armrest (12).
 - (c) Remove the cover assembly (16) from the armrest escutcheon (15).
 - (d) Remove the screws (14) and (17) that attach the armrest escutcheon (15) from the aisle armrest (12).
 - (e) Remove the armrest escutcheon (15) from the aisle armrest (12).
 - (f) Remove the screw (8) and washer (9) that attach the pad (10) to the aisle armrest (12).
 - (g) Remove the pin (18) that attaches the in-arm food tray (19) from the aisle armrest (12).
 - (h) Remove the recline control cable (13) from the aisle armrest (12).
 - (i) Remove the velcro strap (11) from the aisle armrest (12).

SUBTASK 020-039-A (Figure 405, Sheet 3)

- (8) To remove the double seat outboard armrest (31), do as follows:
 - (a) Remove the screws (37) that attach the hinged arm cap (36) from the outboard armrest (31).
 - (b) Remove the hinged arm cap (36) as follows.
 - 1 Remove the pin (41) that attaches the arm pad (39) and half hinge (40).
 - 2 Remove the half hinge (40) from the arm pad (39).
 - 3 Remove the arm pad (39) from the outboard armrest (31).
 - (c) Remove the cover assembly (27) from the armrest escutcheon (28).
 - (d) Remove the screws (26) and (29) that attach the armrest escutcheon (28) from the outboard armrest (31).
 - (e) Remove the armrest escutcheon (28) from the outboard armrest (31).



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- (f) Remove the screw (35) and washer (34) that attach the pad (33) to the outboard armrest (31).
- (g) Remove the pin (25) that attaches the in-arm food tray (38) from the outboard armrest (31).
- (h) Remove the recline control cable (30) from the outboard armrest (31).
- (i) Remove the velcro strap (32) from the outboard armrest (31).

SUBTASK 020-040-A (Figure 406, Sheet 2)

- (9) To remove the double seat aisle armrest with audio jack (5), do as follows:
 - (a) Remove the screws (19) that attach the hinged arm cap (20) to the aisle armrest (5).
 - (b) Remove the hinged arm cap (20) assembly as follows:
 - 1 Remove the pin (21) that attaches the arm pad (23) and half hinge (22) to the aisle armrest (5).
 - 2 Remove the half hinge (22) and arm pad (23) from the aisle armrest (5).
 - (c) Remove the screws (10) and (13) and washers (11) and (14) that attach the armrest escutcheon (12) from the aisle armrest (5).
 - (d) Remove the armrest escutcheon (12) from the aisle armrest (5).
 - (e) Remove the screw (16) that attaches the escutcheon adapter (15) to the aisle armrest (5).
 - (f) Remove the escutcheon adapter (15) from the aisle armrest (5).
 - (g) Remove the screw (7) that attaches the audio bracket (8) and audio jack (9) from the armrest escutcheon (12).
 - (h) Remove the audio bracket (8) and audio jack (9) from the armrest escutcheon (12).
 - (i) Remove the screw (1) and washer (2) that attach the pad (3) from the aisle armrest (5).
 - (j) Remove the pad (3) from the aisle armrest (5).
 - (k) Remove the pin (17) that attaches the in-arm food tray (18) to the aisle armrest (5).
 - (l) Remove the in-arm food tray (18) from the aisle armrest (5).
 - (m) Remove the recline control cable (6) from the aisle armrest (5).
 - (n) Remove the velcro strap (4) from the aisle armrest (5).

SUBTASK 020-041-A (Figure 406, Sheet 3)

- (10) To remove the double seat outboard armrest with audio jack (36), do as follows:

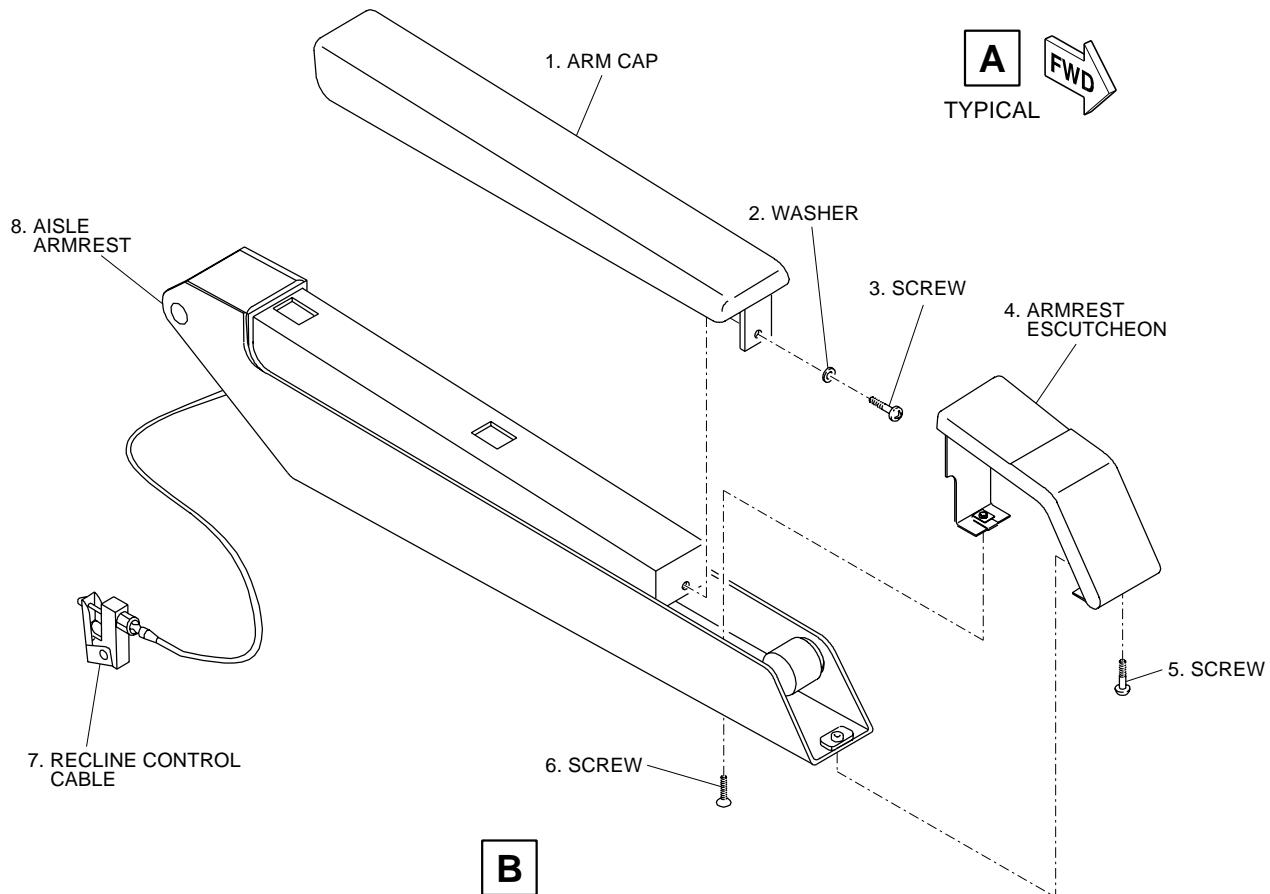
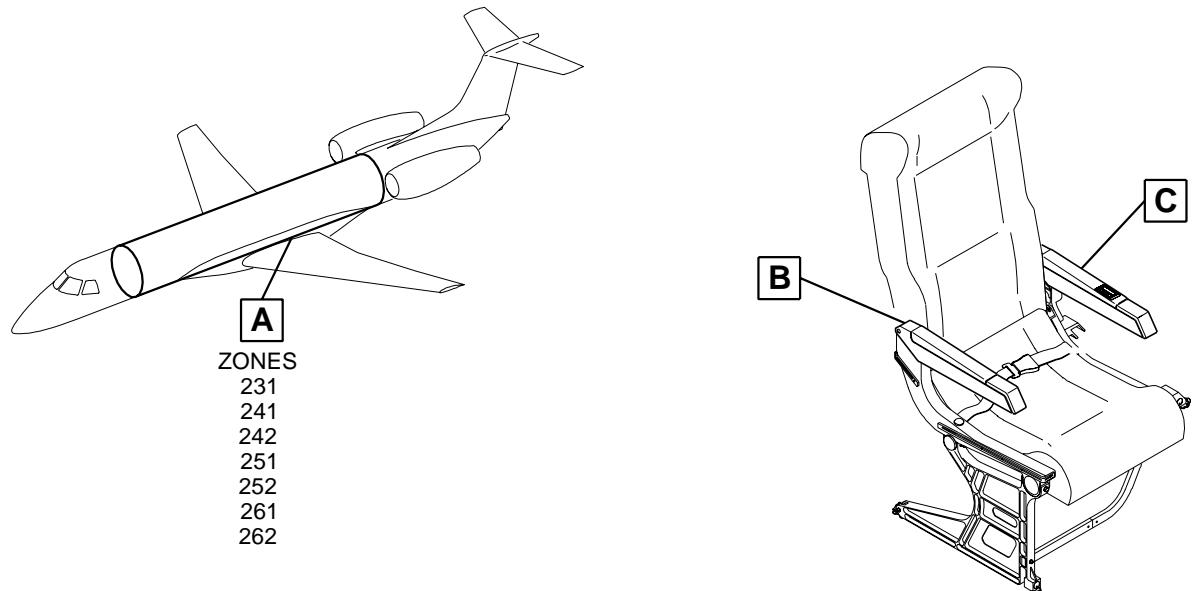


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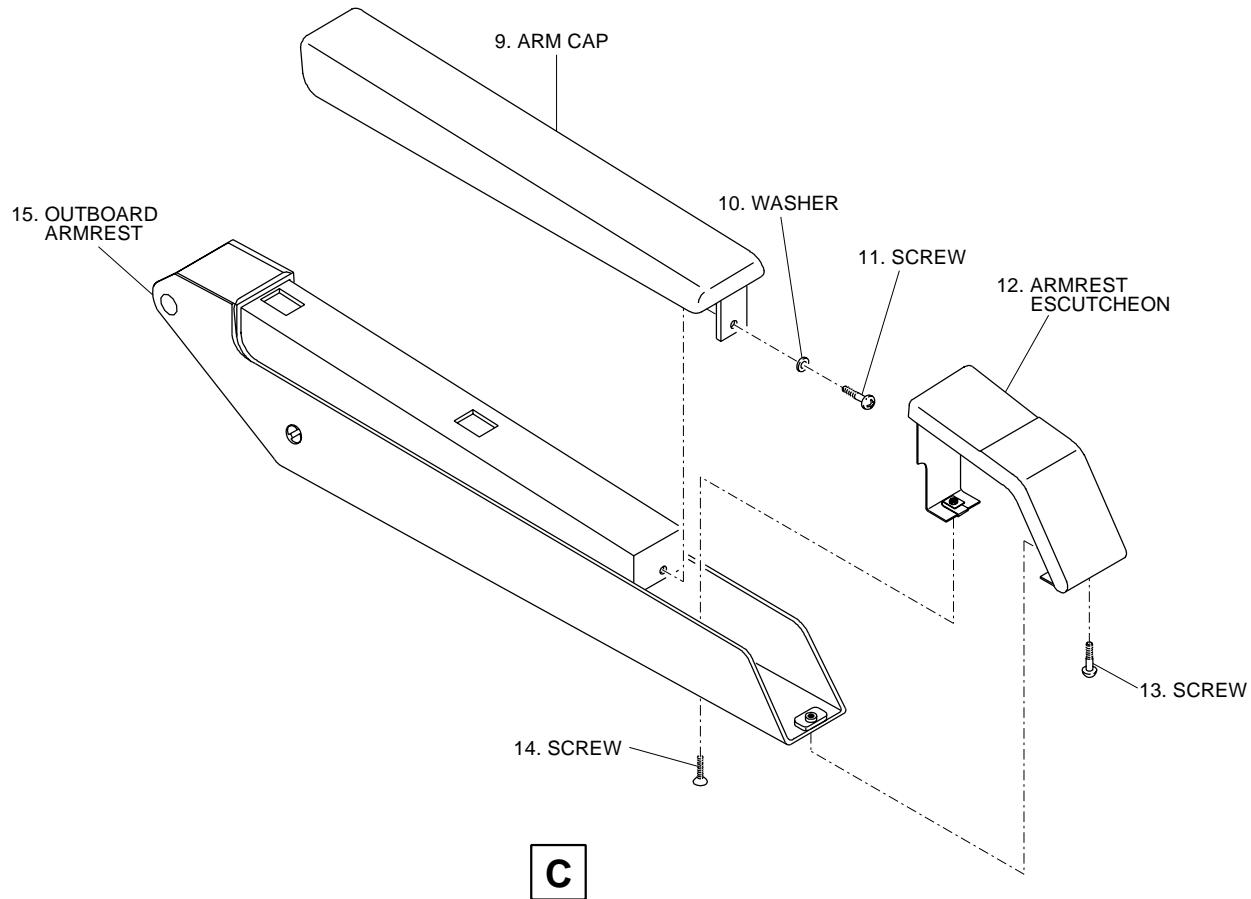
- (a) Remove the screws (42) that attach the hinged arm cap (41) to the outboard armrest (36).
- (b) Remove the hinged arm cap (41) assembly as follows:
 - 1 Remove the pin (46) that attaches the arm pad (44) and half hinge (45) to the outboard armrest (36).
 - 2 Remove the half hinge (45) and arm pad (44) from the outboard armrest (36).
- (c) Remove the screws (28) and (31) and washers (27) and (30) that attach the armrest escutcheon (29) from the outboard armrest (36).
- (d) Remove the armrest escutcheon (29) from the outboard armrest (36).
- (e) Remove the screw (25) that attaches the escutcheon adapter (26) to the outboard armrest (36).
- (f) Remove the escutcheon adapter (26) from the outboard armrest (36).
- (g) Remove the screw (34) that attaches the audio bracket (33) and audio jack (32) from the armrest escutcheon (29).
- (h) Remove the audio bracket (33) and audio jack (32) from the armrest escutcheon (29).
- (i) Remove the screw (40) and washer (39) that attach the pad (38) to the outboard armrest (36).
- (j) Remove the pad (38) from the outboard armrest (36).
- (k) Remove the pin (24) that attaches the in-arm food tray (43) to the outboard armrest (36).
- (l) Remove the in-arm food tray (43) from the outboard armrest (36).
- (m) Remove the recline control cable (35) from the outboard armrest (36).
- (n) Remove the velcro strap (37) from the outboard armrest (36).

EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 402 - Sheet 1



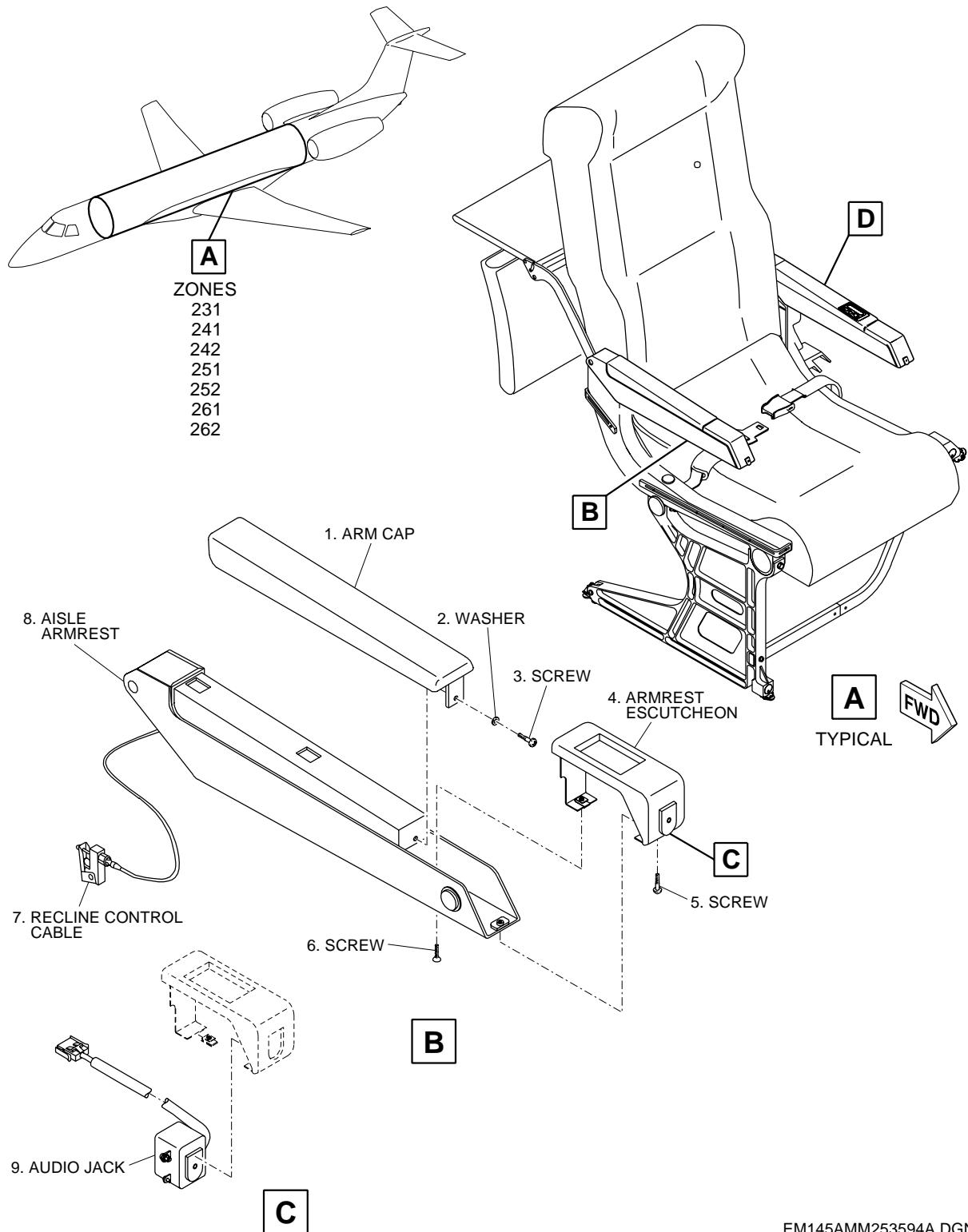
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 402 - Sheet 2



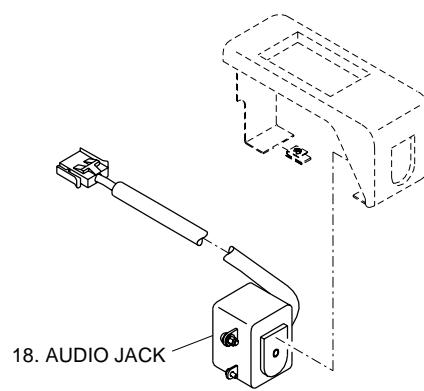
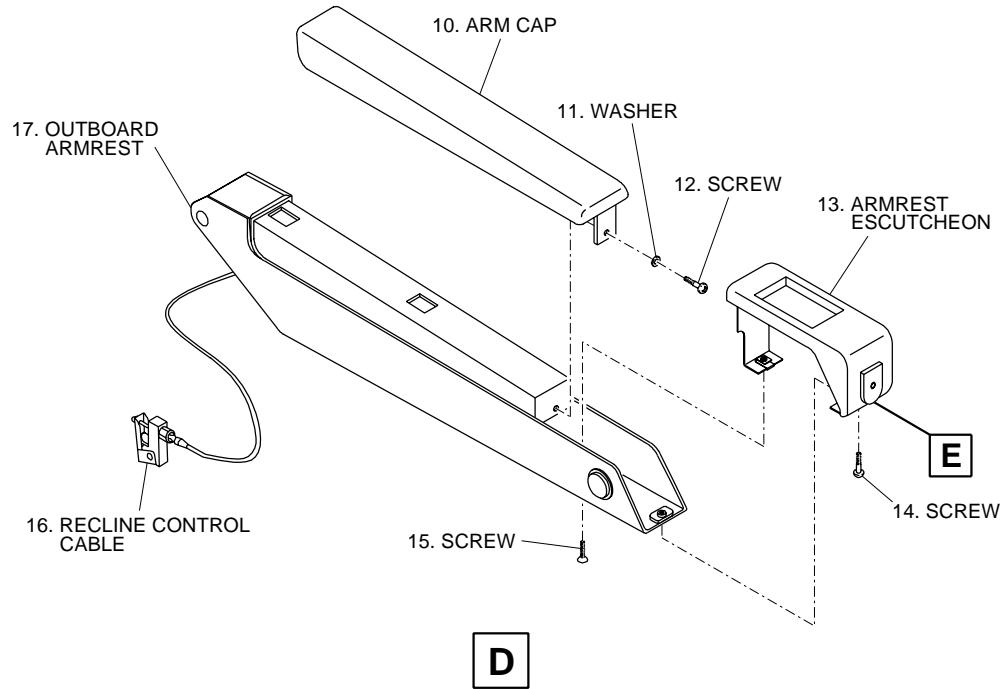
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 403 - Sheet 1



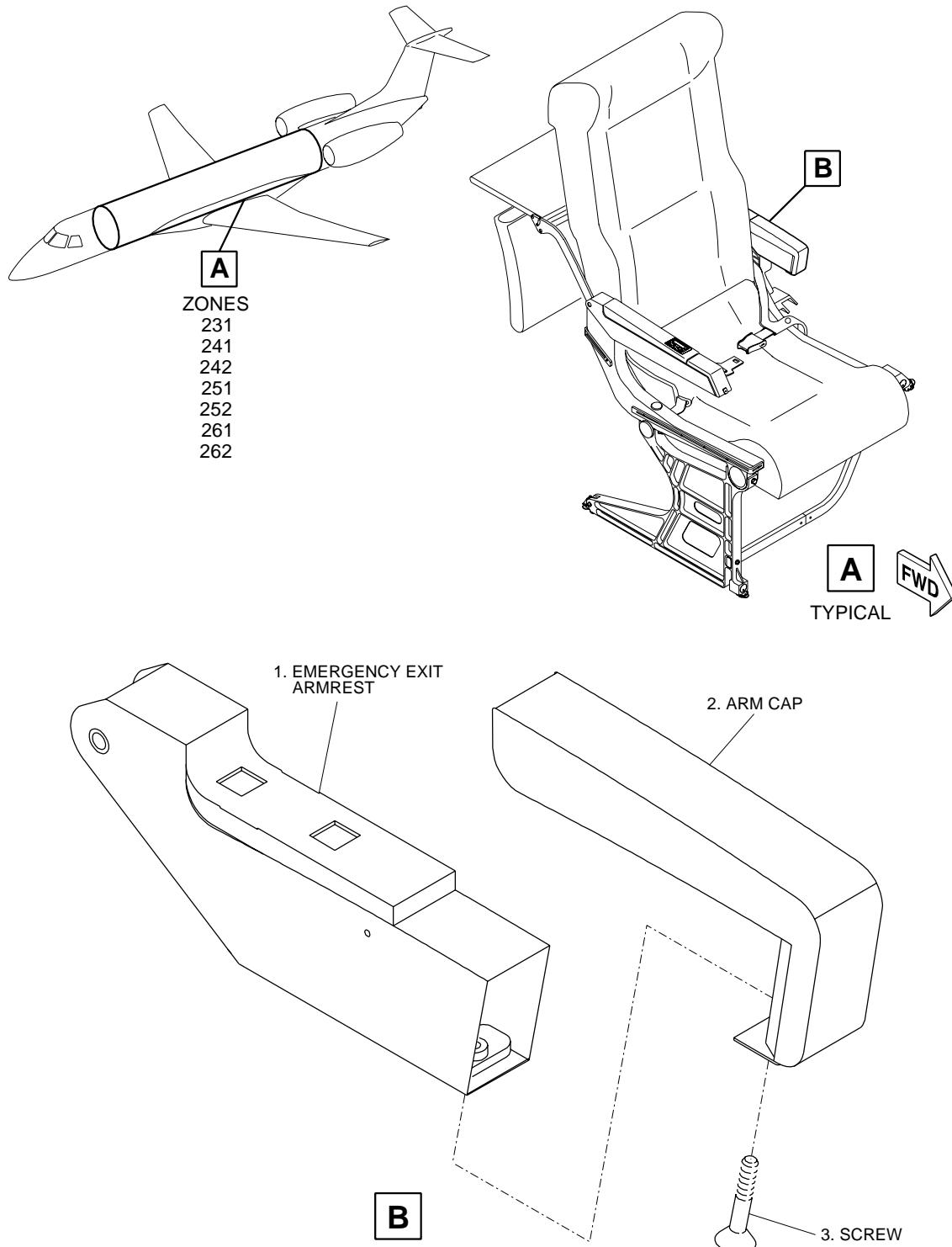
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 403 - Sheet 2



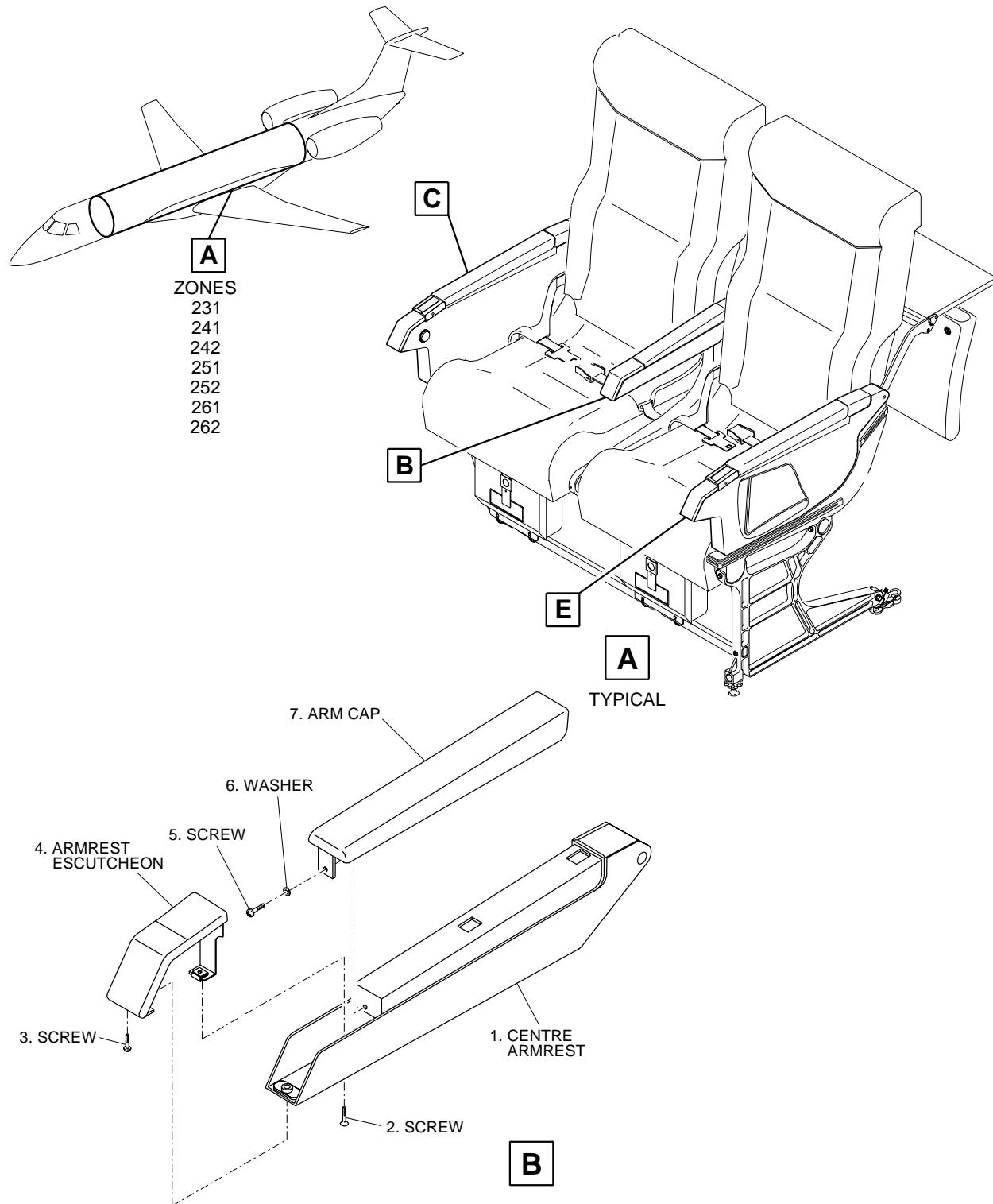
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 404



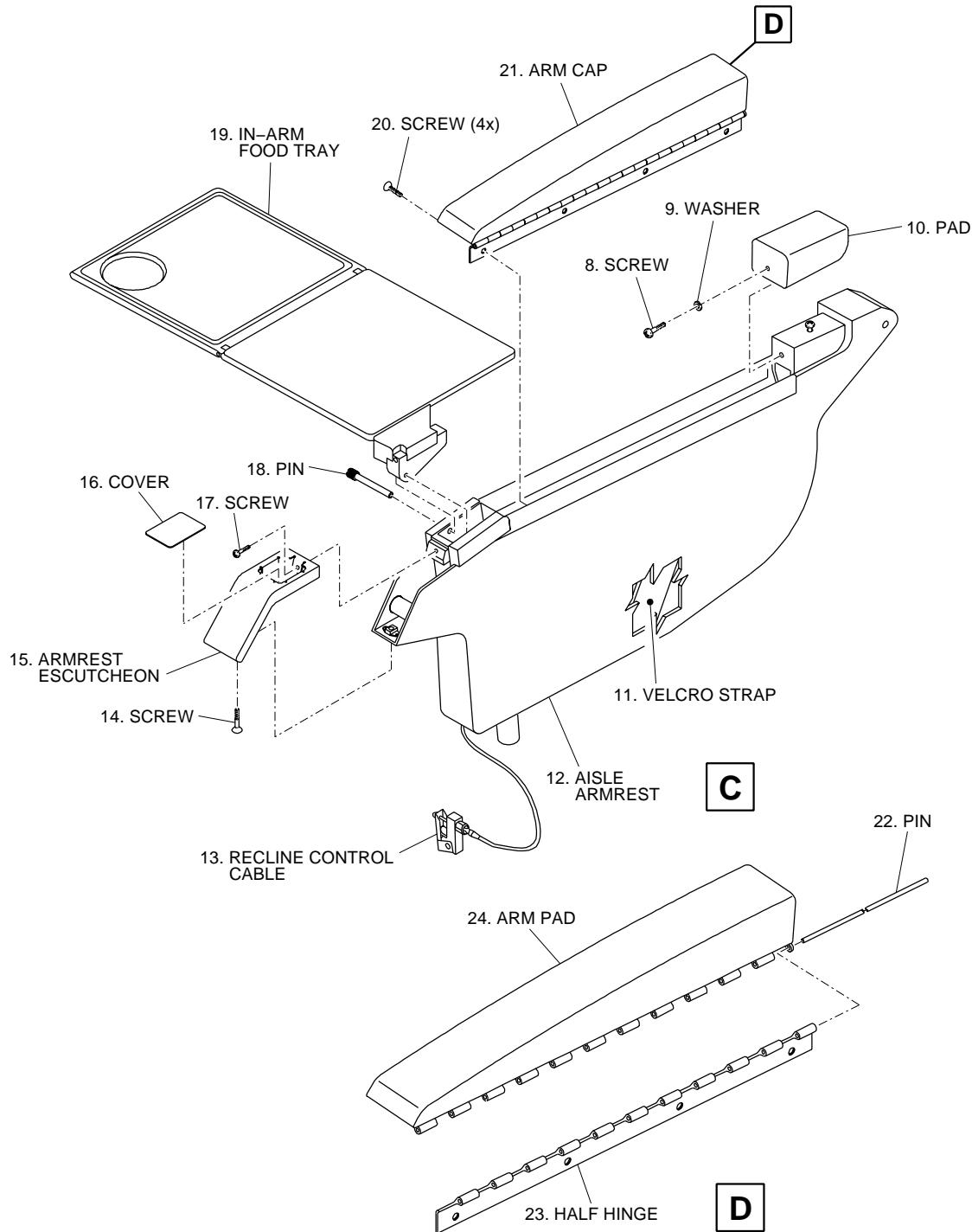
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 405 - Sheet 1



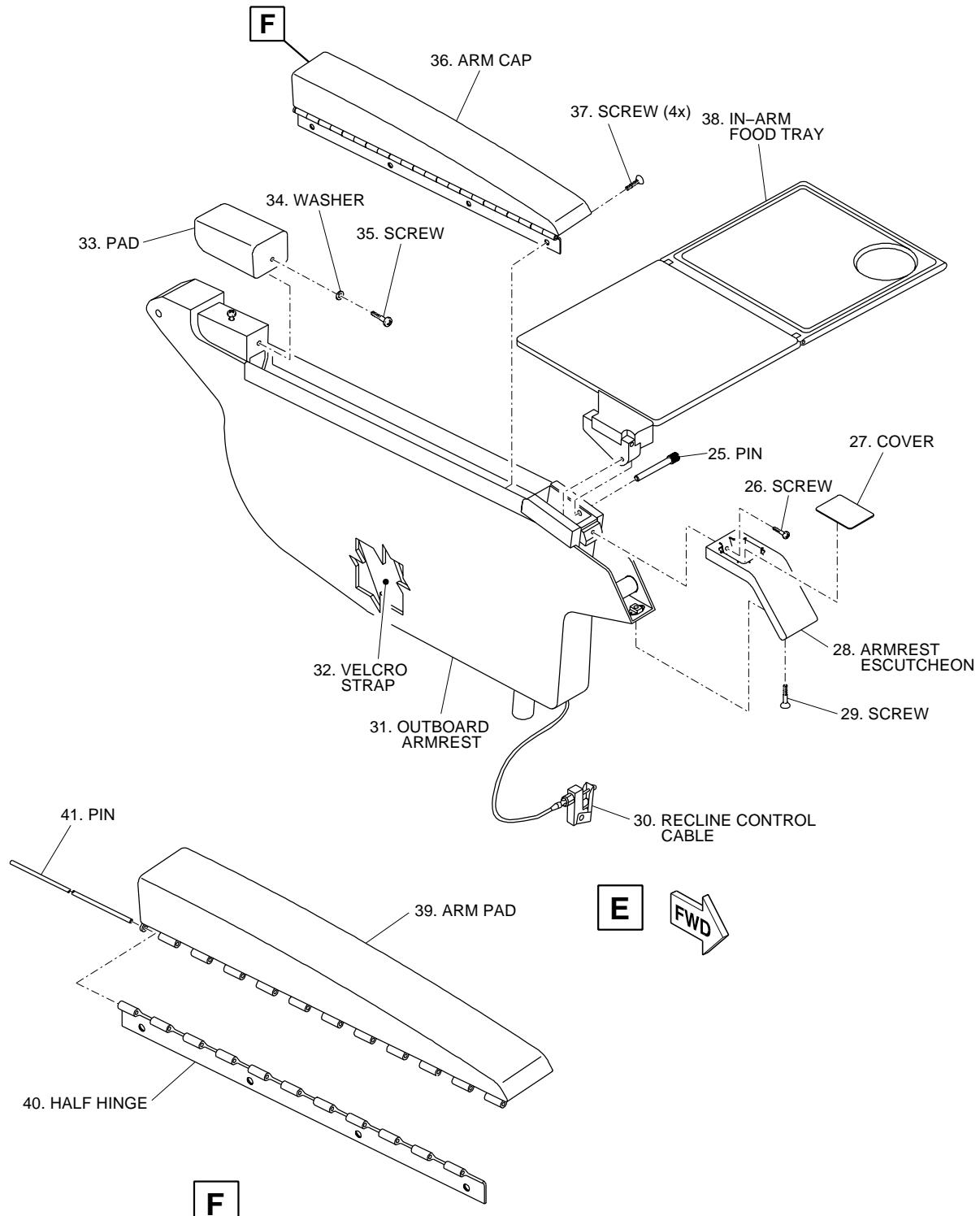
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 405 - Sheet 2



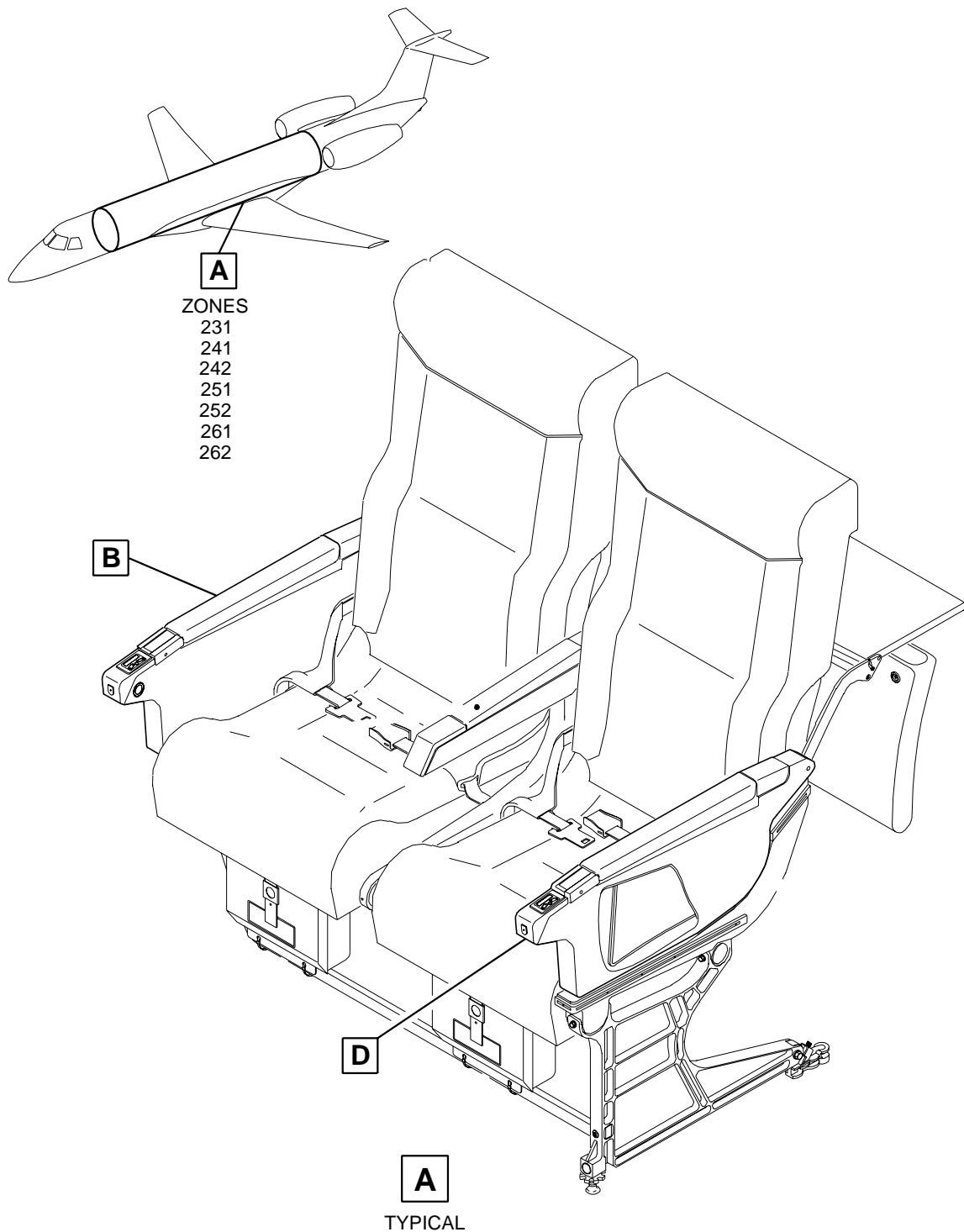
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
Figure 405 - Sheet 3



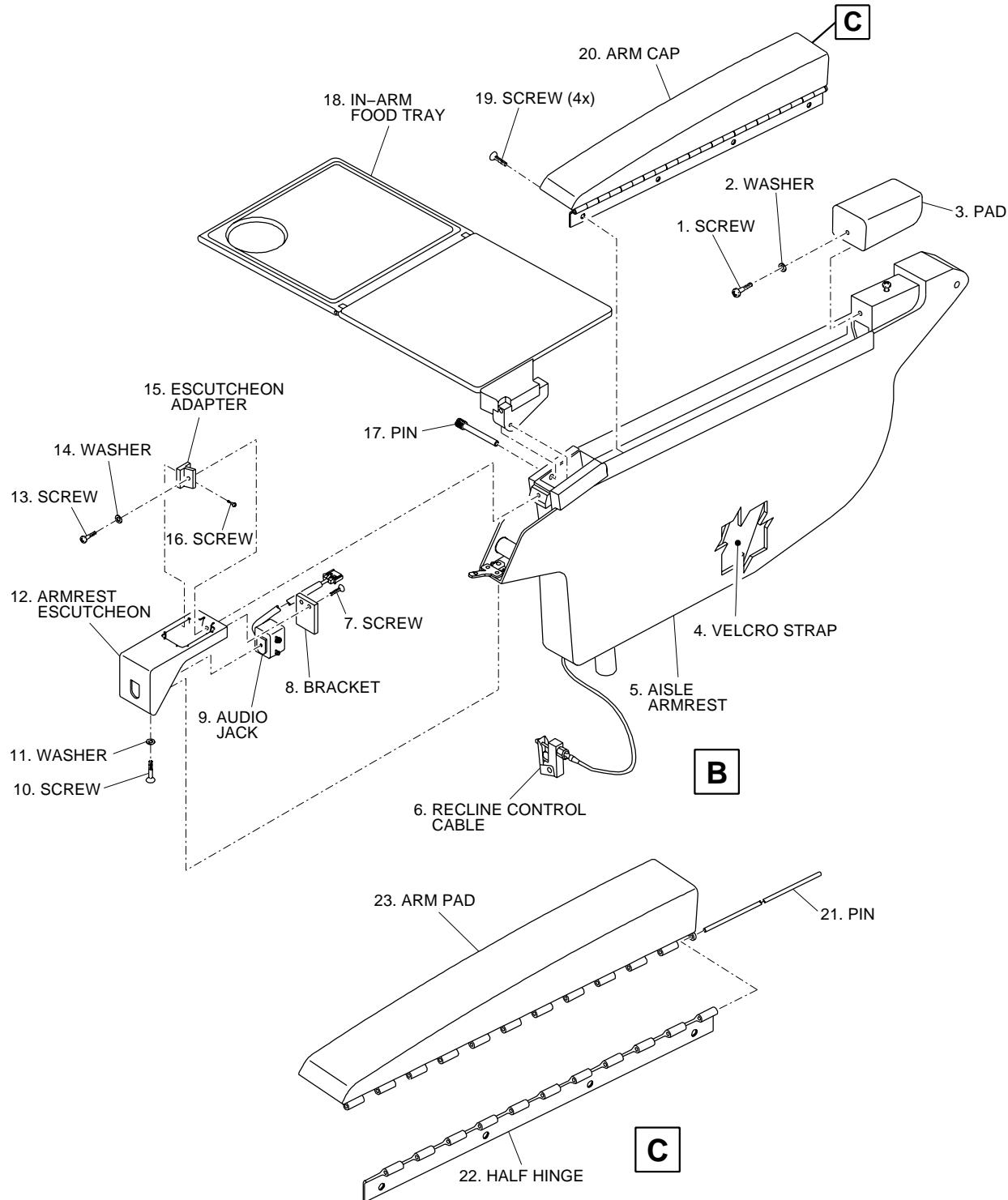
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
Figure 406 - Sheet 1



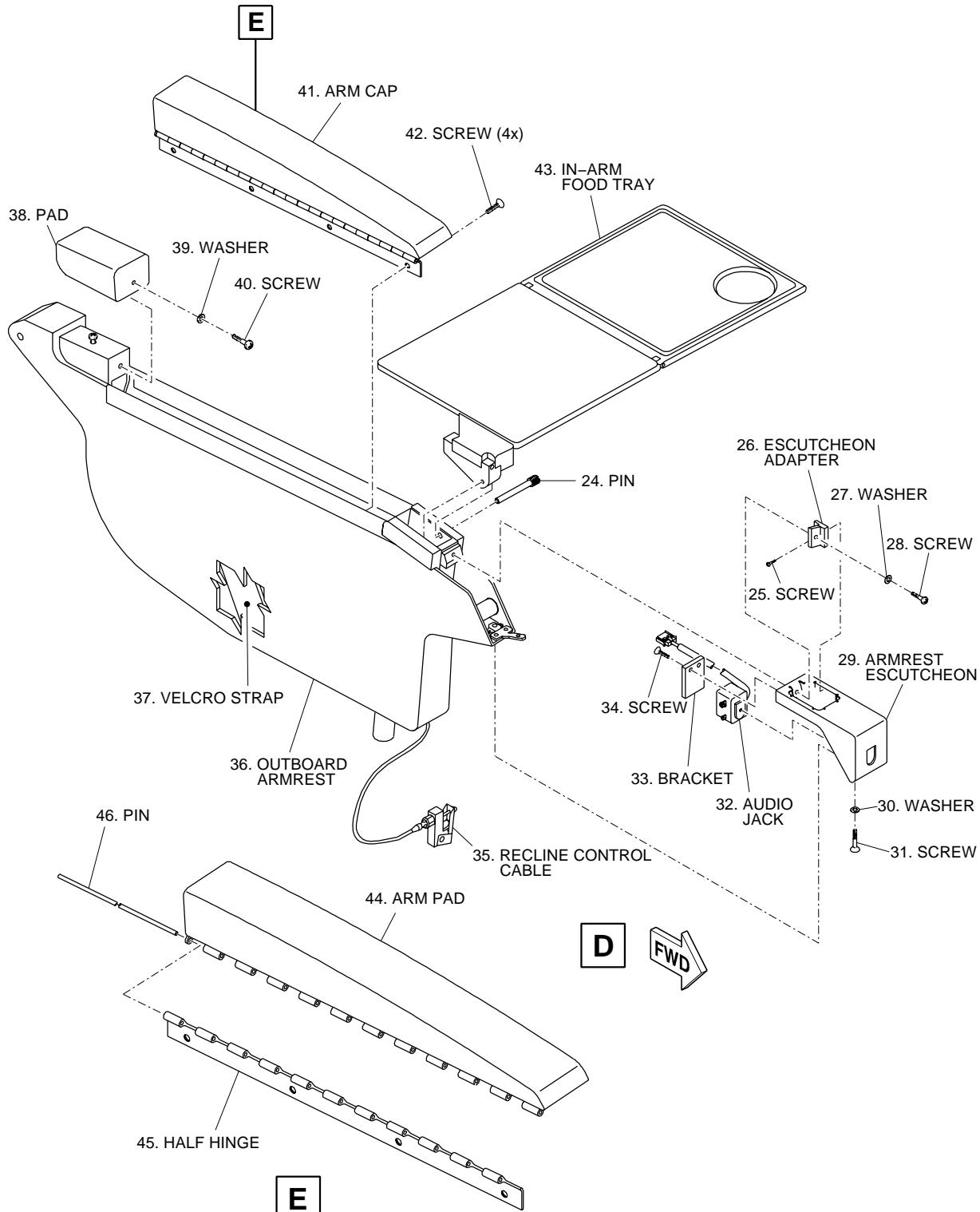
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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
Figure 406 - Sheet 2

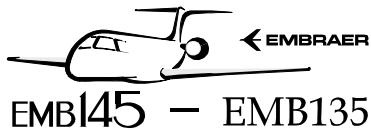


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EFFECTIVITY: ACFT MODEL(S) EMB-145
PASSENGER SEAT ARMREST - REMOVAL/INSTALLATION
 Figure 406 - Sheet 3



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MAINTENANCE MANUAL

TASK 25-21-01-000-804-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

5. PASSENGER SEAT FOOD TRAY TABLE - REMOVAL

A. General

- (1) This task gives the procedure to remove the passenger seat food tray table.

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	Do the task	Passenger cabin

H. Removal

SUBTASK 020-043-B (Figure 407, Sheet 1)

- (1) To remove the passenger seat food tray table (1) of the first row, do as follows:
- Remove the pin (2) that attaches the passenger seat food tray table (1) to the armrest.
 - Remove the passenger seat food tray table (1) from the armrest.

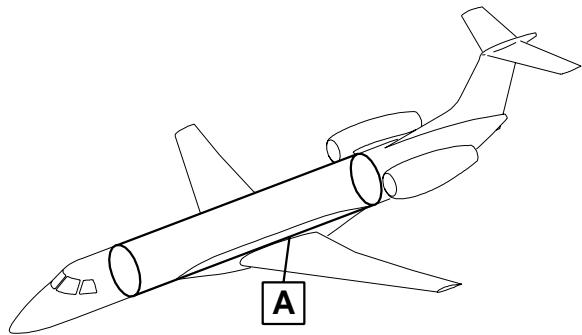
SUBTASK 020-042-B (Figure 407, Sheet 2)

- (2) To remove the passenger seat food tray table (3) of the other rows, do as follows:
- Put the passenger seat food tray table (3) down.
 - Remove the screws (4) and torsion tube assembly (5) that attach the passenger seat food tray table (3) to the food tray arm-assembly.
 - Remove the passenger seat food tray table (3) from the food tray arm-assembly.

EFFECTIVITY: ACFT MODEL(S) EMB-145

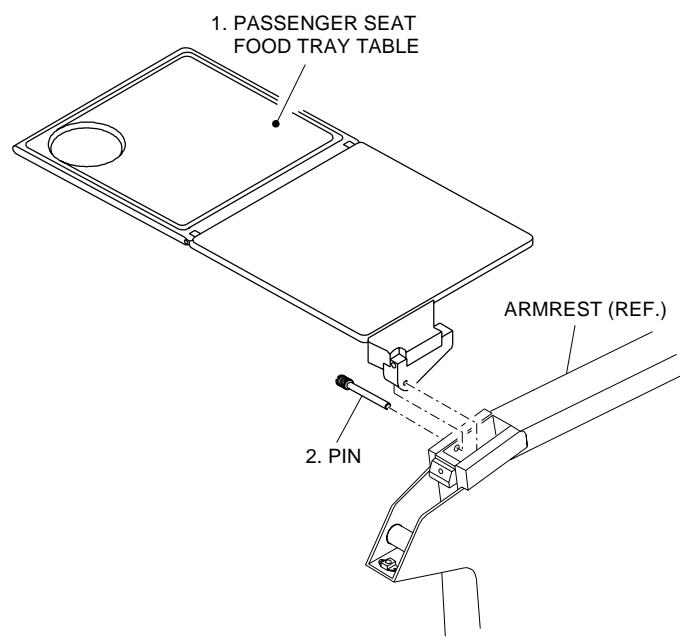
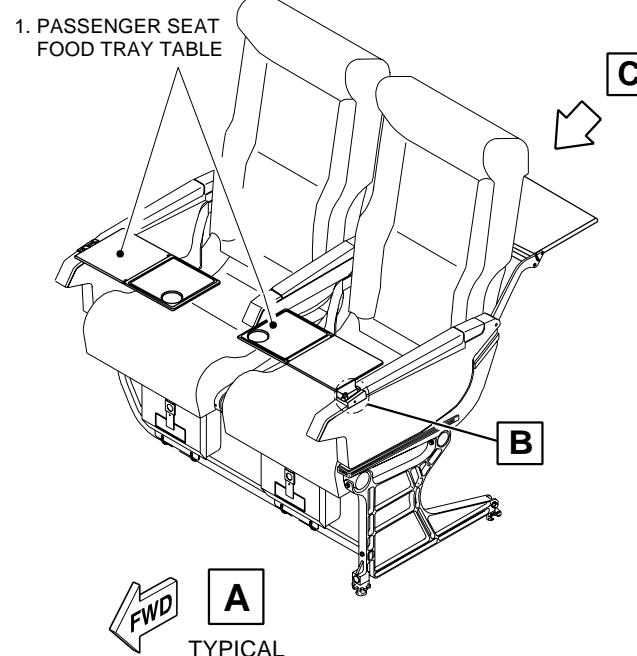
Passenger Seat Food Tray Table - Removal/Installation

Figure 407 - Sheet 1



ZONES

- 231
- 241
- 242
- 251
- 252
- 261
- 262



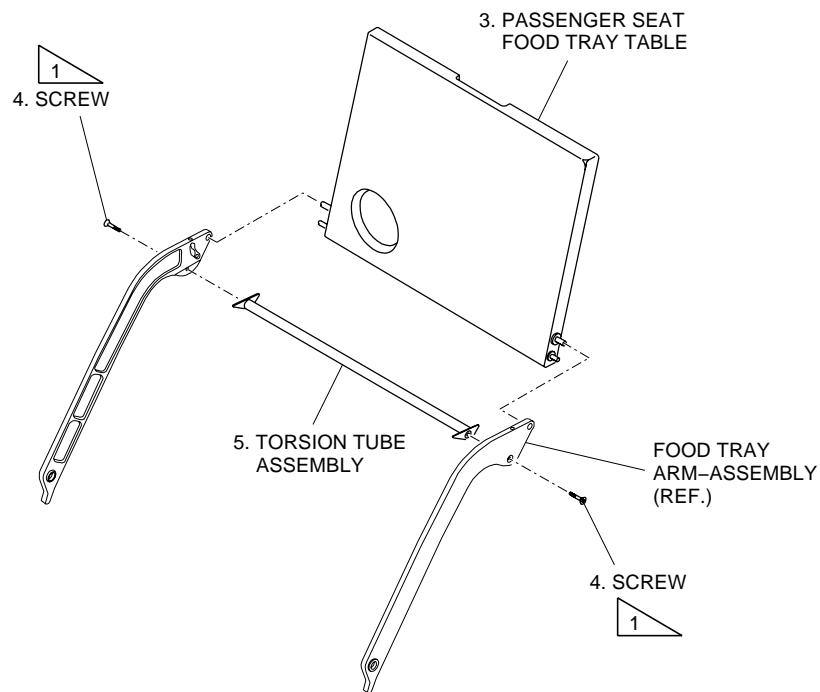
B
TYPICAL

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EFFECTIVITY: ACFT MODEL(S) EMB-145

Passenger Seat Food Tray Table - Removal/Installation

Figure 407 - Sheet 2



C

TYPICAL

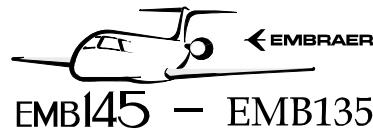
 TORQUE: 0.8 – 1 N.m (7 – 9 lb.in)

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TASK 25-21-01-000-805-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

6. PASSENGER SEAT HYDRAULIC LOCK - REMOVAL

A. General

- (1) This task gives the procedure to remove the passenger seat hydraulic lock.

B. References

REFERENCE	DESIGNATION
IPC 25-21-17	PASSENGER CABIN SEATS

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Universal pliers	To remove the locking tab	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Tie-down strap	IPC 25-21-17	1

H. Persons Recommended

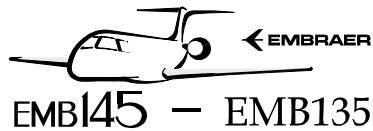
QTY	FUNCTION	PLACE
1	Do the task	Passenger cabin

I. Removal

SUBTASK 020-044-B (Figure 408)

- (1) Remove the passenger seat hydraulic lock (16) as follows:

- (a) Remove the seat bottom cushion (2) from the passenger seat (1) to get access to the passenger seat hydraulic lock (15).
- (b) Remove the tie-down strap (3) that attaches the recline control cable (8) to the passenger seat hydraulic lock (15).
- (c) Remove the bolt (6), washers (5), and nut (4) that attach the passenger seat hydraulic lock (15) to the back assembly.



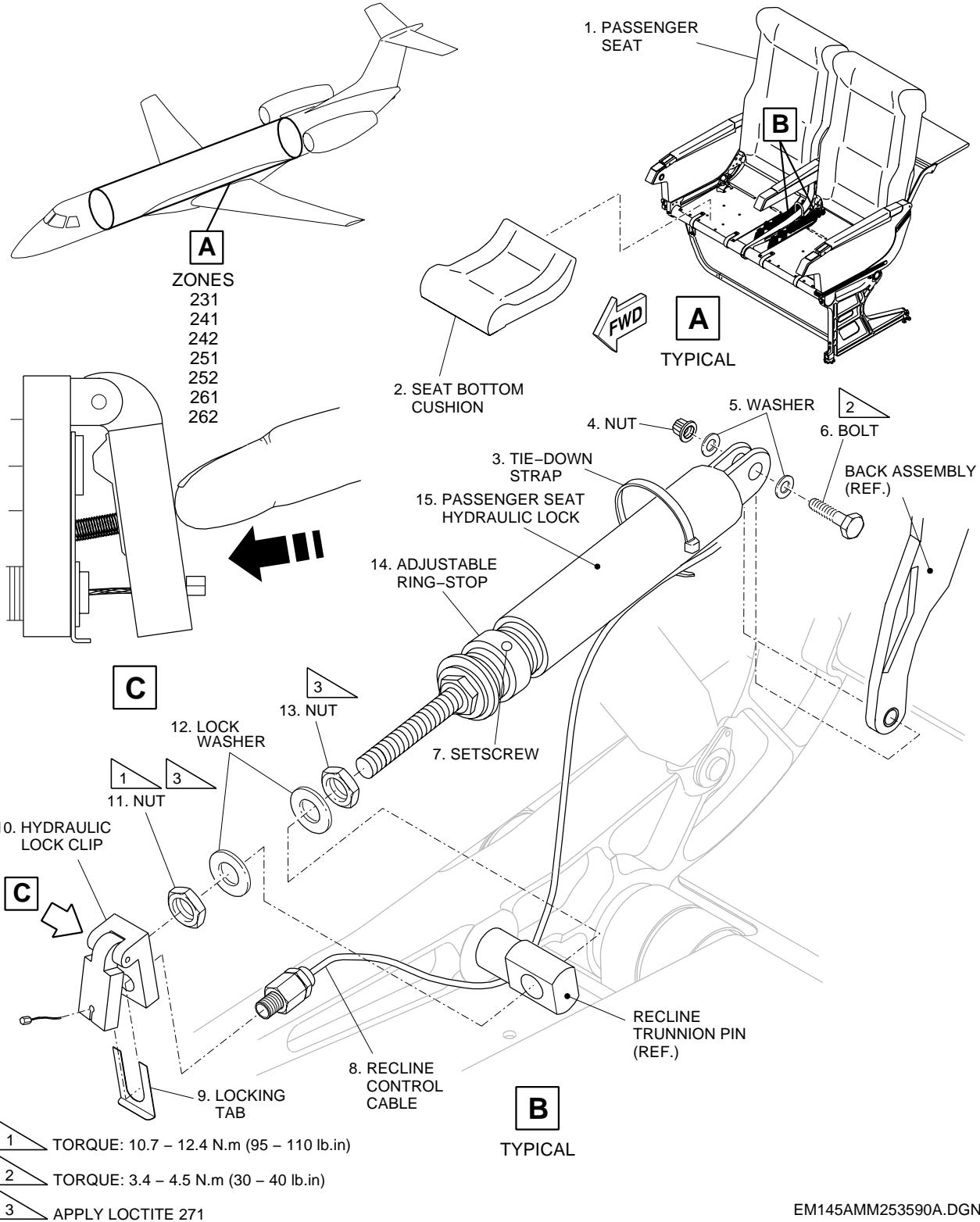
EMB145 – EMB135

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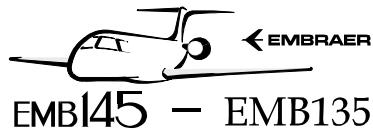
- (d) Push the hydraulic lock clip (10) with your fingers to remove the recline control cable (8).
- (e) Use a commercially available to remove the locking tab (9) that attaches the hydraulic lock clip (10) to the recline control cable (8).
- (f) Remove the hydraulic lock clip (10) from the passenger seat hydraulic lock (15).
- (g) Remove the nuts (11) and (13) and lock washers (12) that attach the passenger seat hydraulic lock (15) to the recline trunnion pin.
- (h) Remove the passenger seat hydraulic lock (15).

NOTE: Be careful when you remove the hydraulic lock (15), because the seat back will fall free.

EFFECTIVITY: ACFT MODEL(S) EMB-145
Passenger Seat Hydraulic Lock - Removal/Installation
Figure 408



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TASK 25-21-01-400-803-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

7. PASSENGER SEAT ARMREST - INSTALLATION

A. General

- (1) This task gives the procedure to install the passenger seats armrest.
- (2) This procedure is the same for all passenger seats.

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 installation	Passenger cabin

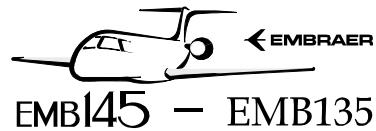
H. PASSENGER SEAT ARMREST - INSTALLATION

SUBTASK 420-034-B (Figure 402, Sheet 1)

- (1) To install the single seat aisle armrest (8), do as follows:
 - (a) Put the aisle armrest (8) in its installation position.
 - (b) Connect the recline control cable (7) to the aisle armrest (8).
 - (c) Install the arm cap (1) on the aisle armrest (8) with the washer (2) and screw (3).
 - (d) Put the armrest escutcheon (4) on the aisle armrest (8).
 - (e) Install the screws (5) and (6) that attach the armrest escutcheon (4) to the aisle armrest (8).

SUBTASK 420-035-B (Figure 402, Sheet 2)

- (2) To install the single seat outboard armrest (15), do as follows:
 - (a) Put the outboard armrest (15) in its installation position.
 - (b) Install the arm cap (9) on the outboard armrest (15) with the washer (10) and screw (11).



- (c) Put the armrest escutcheon (12) on the outboard armrest (15).
- (d) Install the screws that attach the armrest escutcheon (12) to the outboard armrest (15).

SUBTASK 420-036-A (Figure 403, Sheet 1)

- (3) To install the single seat aisle armrest (8) with audio jack, do as follows:
 - (a) Put the aisle armrest(8) in its installation position.
 - (b) Connect the recline control cable (7) to the aisle armrest (8).
 - (c) Install the arm cap (1) on the aisle armrest (8) with the washer (2) and screw (3).
 - (d) Install the audio jack (9) on the armrest escutcheon (4).
 - (e) Put the armrest escutcheon (4) on the aisle armrest (8).
 - (f) Install the screws (5) and (6) that attach the armrest escutcheon (4) to the aisle armrest (8).

SUBTASK 420-037-A (Figure 403, Sheet 2)

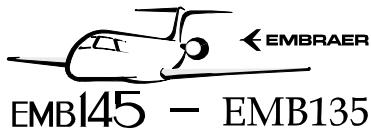
- (4) To install the single seat outboard armrest (17) with audio jack, do as follows:
 - (a) Put the outboard armrest (17) in its installation position.
 - (b) Connect the recline control cable (16) to the outboard armrest (17).
 - (c) Install the arm cap (10) on the outboard armrest (17) with the washer (11) and screw (12).
 - (d) Install the audio jack (18) on the armrest escutcheon (13).
 - (e) Put the armrest escutcheon (13) on the outboard armrest (17).
 - (f) Install the screws (14) and (15) that attach the armrest escutcheon (13) to the outboard armrest (17).

SUBTASK 420-038-A (Figure 404)

- (5) To install the emergency exit armrest (1), do as follows:
 - (a) Put the emergency exit armrest (1) in its installation position.
 - (b) Put the arm cap (2) on the emergency exit armrest (1).
 - (c) Install the screw (3) that attaches the arm cap (2) to the emergency exit armrest (1).

SUBTASK 420-039-A (Figure 405, Sheet 1)

- (6) To install the double seat center armrest (1), do as follows:
 - (a) Put the center armrest (1) in its installation position.



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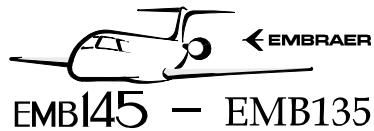
- (b) Install the arm cap (7) on the center armrest (1) with the washer (6) and screw (5).
- (c) Put the armrest escutcheon (4) on the center armrest (1).
- (d) Install the screws (2) and (3) that attach the armrest escutcheon (4) to the center armrest (1).

SUBTASK 420-040-A (Figure 405, Sheet 2)

- (7) To install the double seat aisle armrest (12), do as follows:
 - (a) Put the aisle armrest (12) in its installation position.
 - (b) Install the velcro strap (11) on the aisle armrest (12).
 - (c) Connect the recline control cable (13) to the aisle armrest (12).
 - (d) Install the in-arm food tray (19) on the aisle armrest (12) with the pin (18).
 - (e) Install the pad (10) on the aisle armrest (12) with the washer (9) and screw (8).
 - (f) Install the armrest escutcheon (15) on the aisle armrest (12) with the screws (14) and (17).
 - (g) Install the cover (16) on the armrest escutcheon (15).
 - (h) Connect the hinged arm cap (21) assembly as follows.
 - 1 Install the half hinge (23) on the arm pad (24) assembly with the pin (22).
 - (i) Install the hinged arm cap (21) on the aisle armrest (12) with the screws (20).

SUBTASK 420-041-A (Figure 405, Sheet 3)

- (8) To install the double seat outboard armrest (31), do as follows:
 - (a) Put the outboard armrest (31) in its installation position.
 - (b) Install the velcro strap (32) on the outboard armrest (31).
 - (c) Connect the recline control cable (30) to the outboard armrest (31).
 - (d) Install the in-arm food tray (38) on the outboard armrest (31) with the pin (25).
 - (e) Install the pad (33) on the outboard armrest (31) with the washer (34) and screw (35).
 - (f) Install the armrest escutcheon (28) on the outboard armrest (31) with the screws (26) and (29).
 - (g) Install the cover (27) on the armrest escutcheon (28).
 - (h) Connect the hinged arm cap (36) assembly as follows.
 - 1 Install the half hinge (40) on the arm pad (39) assembly with pin (41).
 - (i) Install the hinged arm cap (36) on the outboard armrest (31) with the screws (37).



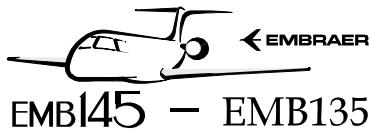
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SUBTASK 420-042-A (Figure 406, Sheet 2)

- (9) To install the double seat aisle armrest (5) with the audio jack, do as follows:
 - (a) Put the aisle armrest (5) in its installation position.
 - (b) Install the velcro strap (4) on the aisle armrest (5).
 - (c) Connect the recline control cable (6) to the aisle armrest (5).
 - (d) Install the in-arm food tray (18) on the aisle armrest (5) with the pin (17).
 - (e) Install the pad (3) on the aisle armrest (5) with the washer (2) and screw (1).
 - (f) Install the audio jack (9) and audio bracket (8) on the aisle armrest(5).
 - (g) Install the screws (7) that attach the audio jack (9) and audio bracket (8) to the aisle armrest (5).
 - (h) Install the escutcheon adapter (15) on the aisle armrest (5).
 - (i) Install the screws (16) that attach the escutcheon adapter (15) to the aisle armrest (5).
 - (j) Install the armrest escutcheon (12) on the aisle armrest (5).
 - (k) Install the washers (11) and (14) and screws (10) and (13) that attach the armrest escutcheon (12) to the aisle armrest (5).
 - (l) Connect the hinged arm cap (20) assembly as follows.
 - 1 Install the half hinge (22) on the arm pad (23)assembly with pin (21).
 - (m) Install the hinged arm cap (20) on the aisle armrest (5) with the screws (19).

SUBTASK 420-043-A (Figure 406, Sheet 3)

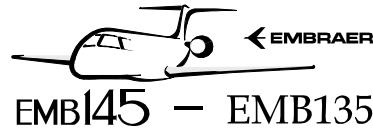
- (10) To install the double seat outboard armrest (36) with the audio jack, do as follows:
 - (a) Put the outboard armrest (36) in its installation position.
 - (b) Install the velcro strap (37)on the outboard armrest (36).
 - (c) Connect the recline control cable (35) to the outboard armrest (36).
 - (d) Install the in-arm food tray (43) on the outboard armrest (36) with the pin (24).
 - (e) Install the pad (38) on the outboard armrest (36) with the washer (39) and screw (40).
 - (f) Install the audio jack (32) and audio bracket (33) on the outboard armrest (36).
 - (g) Install the screws (34) that attach the audio jack (32) and audio bracket (33) to the outboard armrest (36).
 - (h) Install the escutcheon adapter (26) on the outboard armrest (36).



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- (i) Install the screws (25) that attach the escutcheon adapter (26) to the outboard armrest (36).
- (j) Install the armrest escutcheon (29) on the outboard armrest (36).
- (k) Install the washers (27) and (30) and screws (28) and (31) that attach the armrest escutcheon (29) to the outboard armrest (36).
- (l) Install the hinged arm cap (36) assembly as follows.
 - 1 Install the half hinge (45) on the arm pad (44) assembly with the pin (46).
- (m) Install the hinged arm cap (41) on the outboard armrest (36) with the screws (42).



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TASK 25-21-01-400-804-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

8. PASSENGER SEAT FOODTRAY TABLE - INSTALLATION

A. General

- (1) This task gives the procedure to install the passenger seat food tray table.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (see Fig. 401, Sheet 2)	To torque the screw	

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Do the task	Passenger cabin

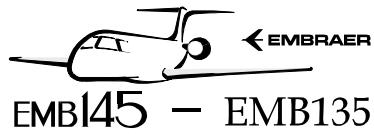
H. Installation

SUBTASK 420-044-B (Figure 407, Sheet 1)

- (1) To install the passenger seat food tray table (1) of the first row, do as follows:
- Put the passenger seat food tray table (1) in its installation position on the armrest.
 - Install the pin (2) that attaches the passenger seat food tray table (1) to the armrest.

SUBTASK 420-045-B (Figure 407, Sheet 2)

- (2) To install the passenger seat food tray table (3) of the other rows, do as follows:
- Put the passenger seat food tray table (3) in its installation position on the food tray arm-assembly.
 - Install the torsion tube assembly (5) and screws (4) that attach the passenger seat food tray table (3) to the food tray arm-assembly.
 - Torque the screws (4) as shown in Figure 407, Sheet 2.



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- (d) Put the passenger seat food tray table (3) back to the up position.



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TASK 25-21-01-400-805-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

9. PASSENGER SEAT HYDRAULIC LOCK - INSTALLATION

A. General

(1) This task gives the procedure to install the passenger seat hydraulic lock.

B. References

REFERENCE	DESIGNATION
IPC 25-21-17	PAX SEAT

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (see Fig. 401)	To torque the bolt	
Commercially available	Torque wrench (see Fig. 401)	To torque the nut	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
LOCTITE 271	Loctite 271Anaerobic Adhesive - Loctite 271	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Tie-down strap	IPC 25-21-17	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Do the task	Passenger cabin

I. Installation

SUBTASK 420-046-B (Figure 408)

(1) Install the passenger seat hydraulic lock (15) as follows:

(a) Install the nuts (11) and (13) and lock washers (12) that attach the passenger seat hydraulic lock (15) to the recline trunnion pin.

- (b) Install the hydraulic lock clip (10) on the passenger seat hydraulic lock (15).
- (c) Push the hydraulic lock clip (10) with your fingers to install the recline control cable (8).
- (d) Install the locking tab (9) that attaches the hydraulic lock clip (10) to the recline control cable (8).
- (e) Install the bolt (6), washers (5), and nut (4) that attach the passenger seat hydraulic lock (15) to the back assembly.

NOTE: When you install the passenger seat hydraulic lock (15) on the back assembly, you will adjust the passenger-seat recline angle.
- (f) Torque the bolt (6) as shown in [Figure 408](#).
- (g) Adjust the passenger-seat back recline as follow:
 - 1 Adjust the passenger-seat-back full upright position as follows:
 - a Loosen the nut (11).
 - b Turn the nut (13) to adjust the passenger-seat-back full upright position.

NOTE: Full upright position angle is 11 degrees from the vertical reference.
 - c Tighten nut (11) to safety the passenger seat hydraulic lock (15) to the recline trunnion pin.
 - d Torque the nut (11) as shown in [Figure 408](#).
 - e Apply Loctite 271Anaerobic Adhesive - Loctite 271 LOCTITE 271 to the nuts (11) and (13).
 - 2 Adjust the passenger-seat-back full recline position as follows:
 - a Loosen the set screw (7).
 - b Turn the adjustable ring-stop (14) to adjust the passenger-seat-back full recline position.

NOTE: Full recline position angle is 19 degrees from the vertical reference.
 - c Tighten set screw (7) to lock the adjustable ring-stop (14).
 - d Install the tie-down strap (3) that attaches the recline control cable (8) to the passenger seat hydraulic lock (15).
 - e Install the seat bottom cushion (2) to the passenger seat (1).