

PASSENGER SEATS - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-135

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-135
25-21-01-400-801-A	PASSENGER SEAT ASSEMBLIES - INSTALLATION	ACFT MODEL(S) EMB-135

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

EFFECTIVITY: ACFT MODEL(S) EMB-135

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 020-046-C

- (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.

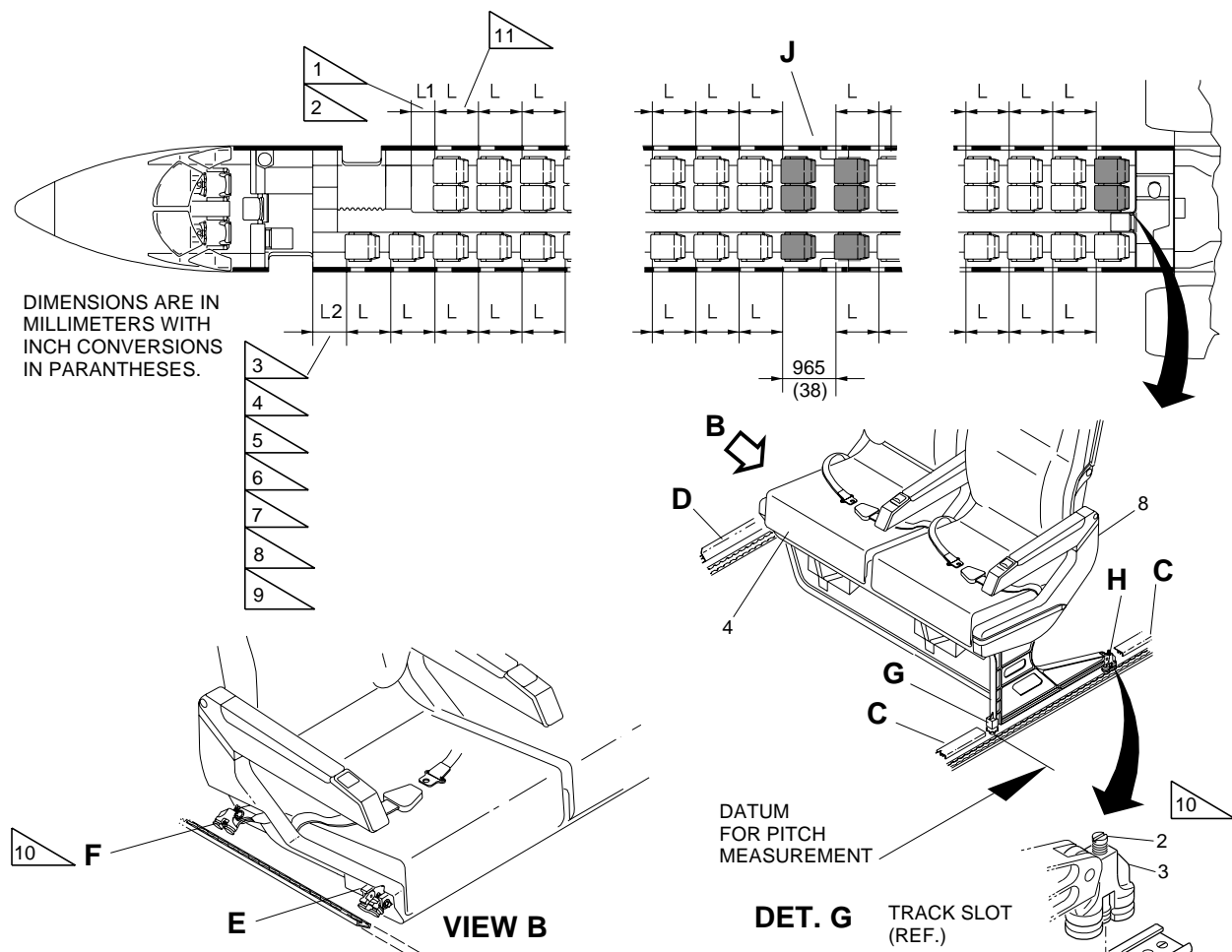
- (a) Remove the track lining sections (1), as applicable.
- (b) Loosen the bolts (2) that attach the track fitting assemblies (3).
- (c) Remove the seat bottom cushion (4).
- (d) Loosen the bolt (5) that attaches the track fitting assembly (6).
- (e) Install the seat bottom cushion (4).
- (f) Use GSE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

- (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-135

Passenger Seat Assemblies - Removal/Installation

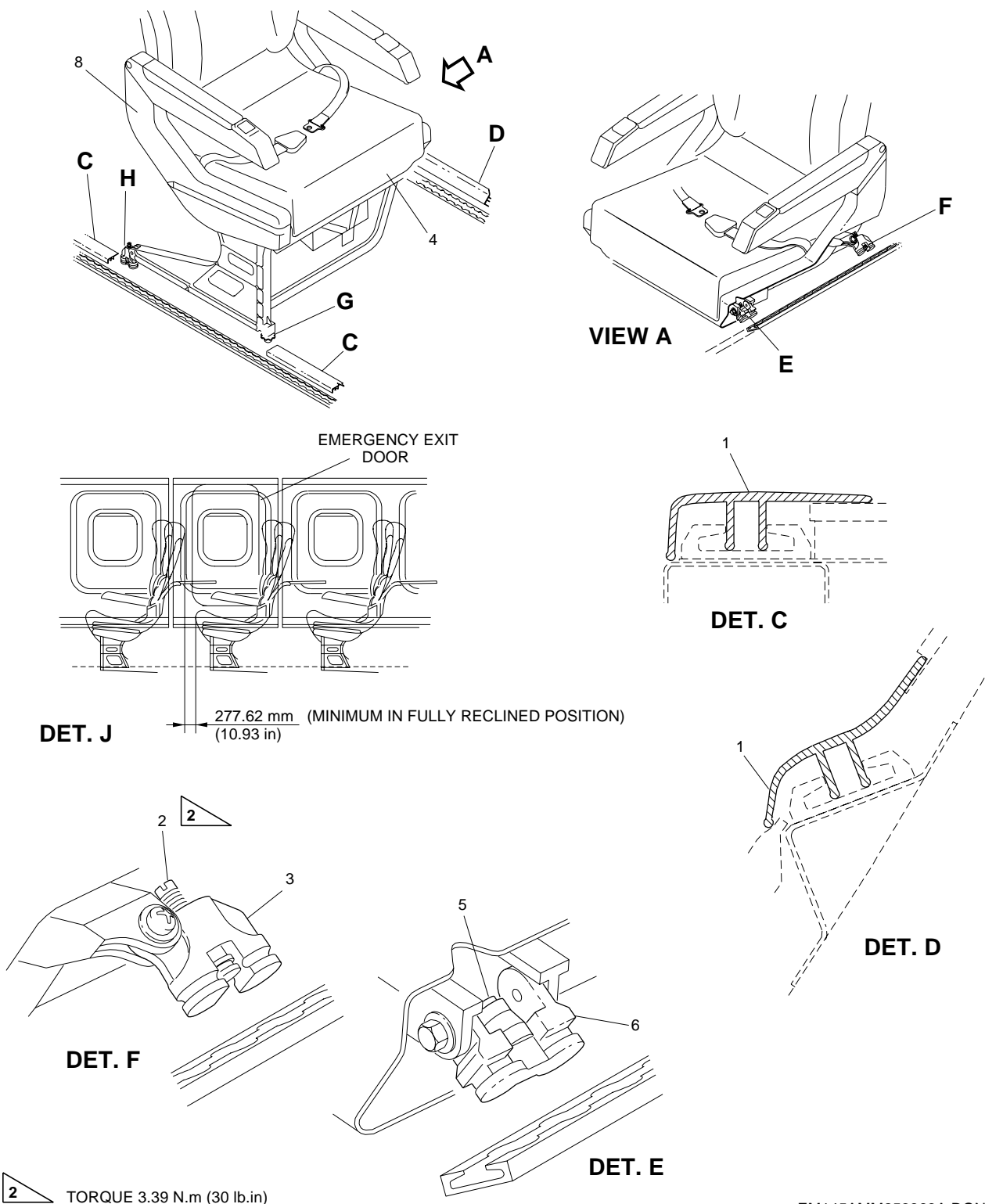
Figure 401 - Sheet 1



- 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-135
Passenger Seat Assemblies - Removal/Installation
Figure 401 - Sheet 2



EM145AMM253363A.DGN

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

EFFECTIVITY: ACFT MODEL(S) EMB-135

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 420-048-C

(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 windscreen, obey the distance of 578.8 mm (22.76 in) from it to the first double passenger-seat row.
- For aircraft with LH windscreen, 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).



- (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).