



AIRCRAFT
MAINTENANCE MANUAL

AILERON INTERMEDIARY SECTORS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the intermediary sectors of the aileron control system.
- B. These procedures are applicable to the LH and RH intermediary sectors.
- C. 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
27-11-05-000-801-A	INTERMEDIARY SECTOR - REMOVAL	ALL
27-11-05-400-801-A	INTERMEDIARY SECTOR - INSTALLATION	ALL



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 27-11-05-000-801-A

EFFECTIVITY: ALL

2. INTERMEDIARY SECTOR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the intermediary sector of the aileron control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 25-21-01-000-801-A/400	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
151		Below the passenger cabin floor
152		Below the passenger cabin floor

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, rig pins, flight controls	To lock the aileron control system in the neutral position	

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	Below the passenger cabin floor
1	Helps the other technician	Below the passenger cabin floor

I. Preparation

SUBTASK 841-002-A

- (1) Remove the passenger seats (AMM TASK 25-21-01-000-801-A/400).
- (2) Remove floor panels 251BF and 252AF (AMM MPP 06-41-02/100).
- (3) Install the rig pins to the aileron control system to lock it in the neutral position.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

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

SUBTASK 020-002-A

- (1) Disconnect the end of the bonding strap (5) from the support at the fuselage structure. For this, remove the nut (2), washers (3), (4), (6), and (7) and bolt (8).

- (2) Remove the cable guards (1) (4 positions).

- (3) Release the tension on the control cables (9) and (10) and disconnect them from the cable circuit at the wing.

NOTE: Identify the positions of the control cables (9) and (10) to install them again in the same positions.

- (4) Release the tension on the control cables (12) and (13) and disconnect them from the cable circuit in the fuselage.

NOTE: Identify the positions of the control cables (12) and (13) to install them again in the same positions.

- (5) Remove the cotter pin (18), nut (17), washer (16), bushing (15) and bolt (14).

- (6) Pull the sector (11) out of the support at the fuselage structure.

- (7) Disconnect the ends of the control cables (9), (10), (12) and (13) from the sector (11). For this, remove the cotter pins (19) (DET. C).

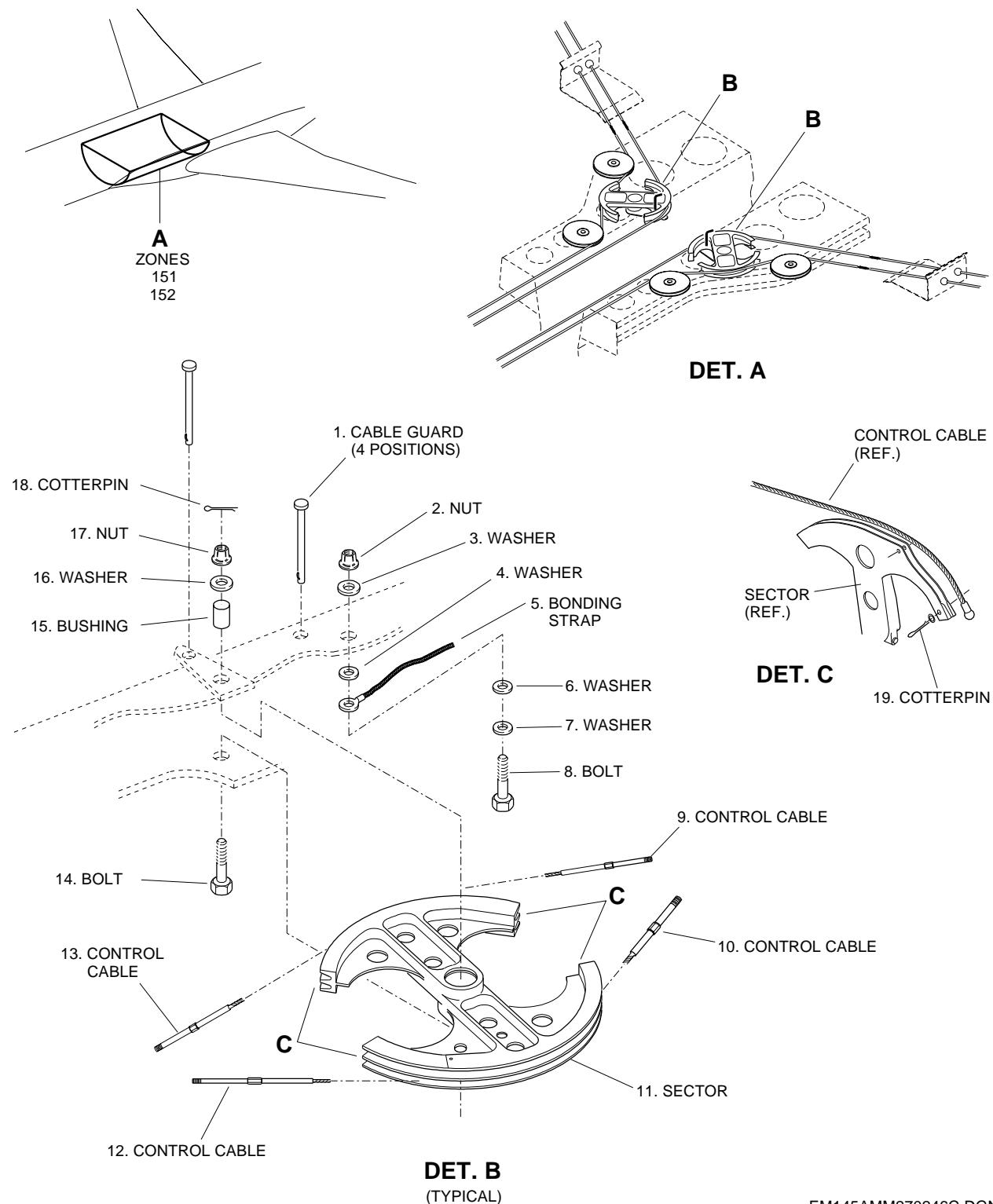
NOTE: Identify the positions of the control cables (9), (10), (12) and (13) to install them again in the same positions.

- (8) Remove the sector (11).

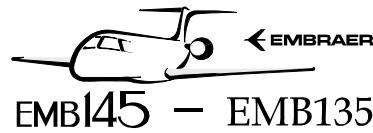
EFFECTIVITY: ALL

Intermediary Sector - Removal/Installation

Figure 401



EM145AMM270246C.DGN



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 27-11-05-400-801-A

EFFECTIVITY: ALL

3. INTERMEDIARY SECTOR - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the intermediary sector of the aileron control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 25-21-01-400-801-A/400	-
AMM TASK 27-10-00-700-801-A/500	AILERON ADJUSTMENT AND CHECK
AMM TASK 27-11-01-700-801-A/500	-
AMM TASK 28-41-00-200-801-A/600	-
IPC 27-11-00	AILERON PRIMARY MECHANICAL CONTROL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
151		Below the passenger cabin floor
152		Below the passenger cabin floor

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, rig pins, flight controls	To lock the aileron control system in the neutral position	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS24665-134	Cotter pin	4

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-11-00	1



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Below the passenger cabin floor
1	Helps the other technician	Below the passenger cabin floor

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Connect the ends of the control cables (9), (10), (12) and (13) to the sector (11) and lock them with the cotter pins (19) (DET. C).

NOTE: The control cables (9), (10), (12) and (13) must be installed in the same positions as those they were removed from. Refer to their position identification.

- (2) Put the sector (11) in its support at the fuselage structure.

- (3) Install the bolt (14), bushing (15), washer (16), nut (17) and cotter pin (18).

- (4) Connect the control cables (9) and (10) to the cable circuit at the wing.

NOTE: The control cables (9) and (10) must be installed in the same positions as those they were removed from. Refer to their position identification.

- (5) Connect the control cables (12) and (13) to the cable circuit in the fuselage.

NOTE: The control cables (12) and (13) must be installed in the same positions as those they were removed from. Refer to their position identification.

- (6) Connect the end of the bonding strap (5) to the support at the fuselage structure. For this, install the bolt (8), washers (7), (6), (4) and (3) and nut (2).

NOTE: Refer to [AMM TASK 20-13-21-910-801-A/200](#) for the correct installation of the bonding strap (5).

- (7) Install the cable guards (1) (4 positions).

J. Follow-on

SUBTASK 842-002-A

- (1) Apply tension to the control cables of the aileron control system (AMM TASK 27-11-01-700-801-A/500).

- (2) Remove the rig pins from the aileron control system.

- (3) Do a check on the aileron control system ([AMM TASK 27-10-00-700-801-A/500](#)).

- (4) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).



AIRCRAFT
MAINTENANCE MANUAL

- (5) Install floor panels 251BF and 252AF (AMM MPP 06-41-02/100).
- (6) Install the passenger seats (AMM TASK 25-21-01-400-801-A/400).

