



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

AILERON DISCONNECTION - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Aileron disconnect device.
- 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
27-15-00-000-801-A	AILERON DISCONNECT DEVICE - REMOVAL	ALL
27-15-00-400-801-A	AILERON DISCONNECT DEVICE - INSTALLATION	ALL



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TASK 27-15-00-000-801-A

EFFECTIVITY: ALL

2. AILERON DISCONNECT DEVICE - REMOVAL

A. General

- (1) This task gives the procedures to remove the Aileron disconnect device.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 25-11-01-000-801-A/400	PILOT SEAT - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Area below the cockpit floor
221	221(EF/GF)	Cockpit LH upper side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, Rig Pins	To lock the aileron in 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	Fuselage

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Do not do other tasks on the aileron system.
- (3) Remove the pilot seat ([AMM TASK 25-11-01-000-801-A/400](#)).
- (4) Remove cockpit underfloor access hatch 123BL and floor panels 221(EF/GF) (AMM MPP 06-41-01/100).



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- (5) Install the rig pins on the left torque tube (5) and the right torque tube (7). Refer to DET. B.

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

SUBTASK 020-002-A

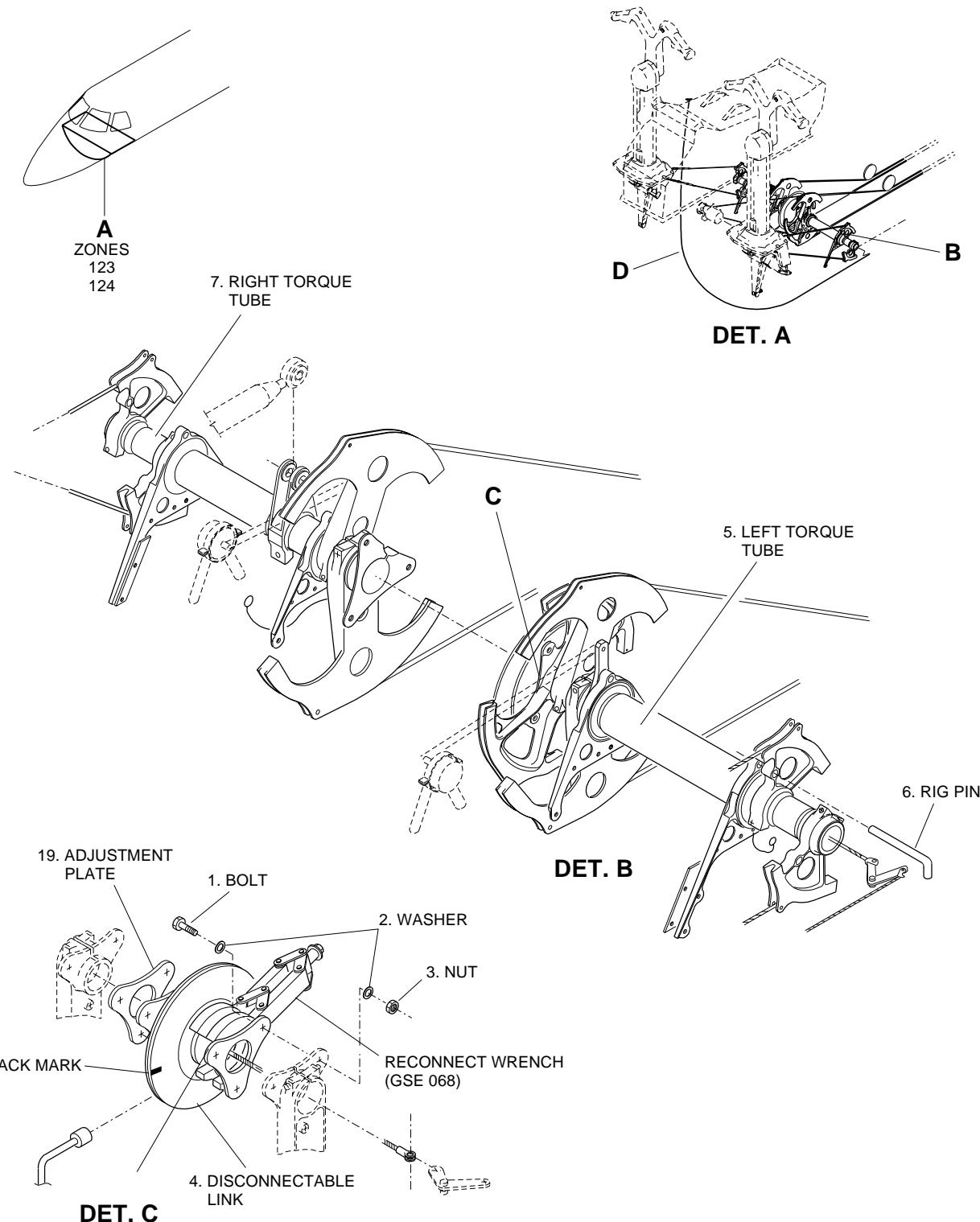
- NOTE:
- When you remove the disconnectable link (4), do not cause damage to the actuating cable. Make sure that the internal cable (8) is installed at the gap between the connecting flange (14) and the geared shaft (12).
 - If the disconnectable link (4) is disconnected, make sure that the disks do not turn more than 60° in relation to each other.

- (1) Remove the cotter pin (10), pin (17), and washer (9) that attach the disconnectable link internal cable (8) to the bellcrank (11).
- (2) Disconnect the electrical connector (13).
- (3) Remove the nut (3), washer (2), and bolt (1) to loose, the disconnectable link (4).
- (4) If applicable, remove the adjustment plate (19).
- (5) Remove the disconnectable link (4).

EFFECTIVITY: ALL

Aileron Disconnect Device - Removal/Installation

Figure 401 - Sheet 1

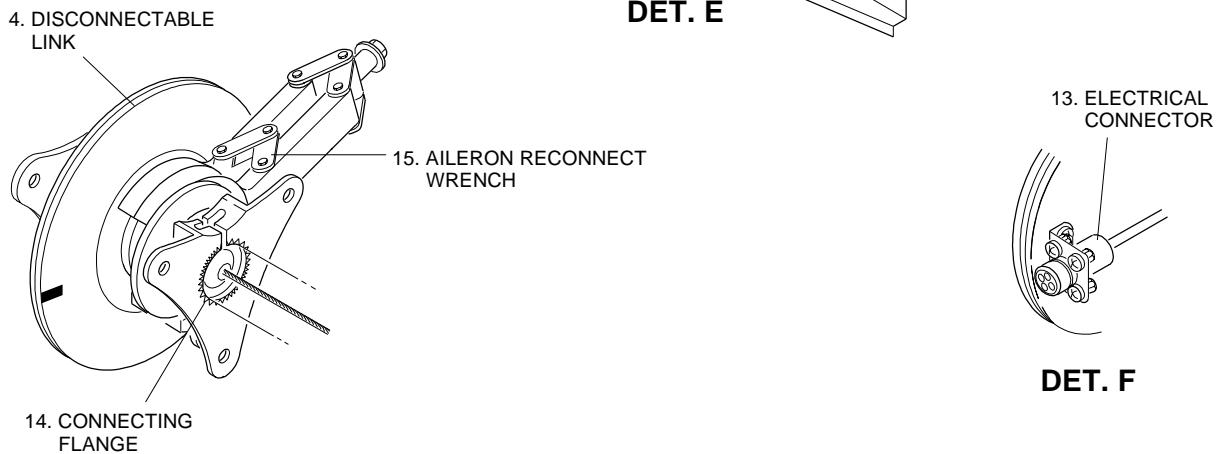
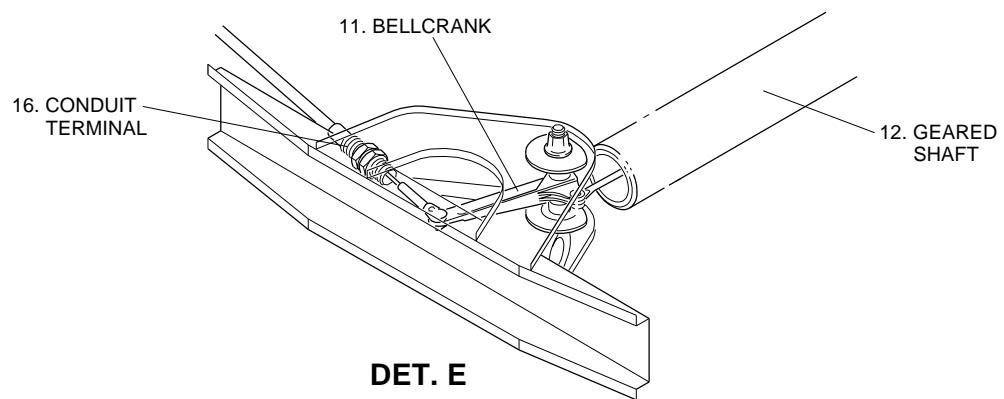
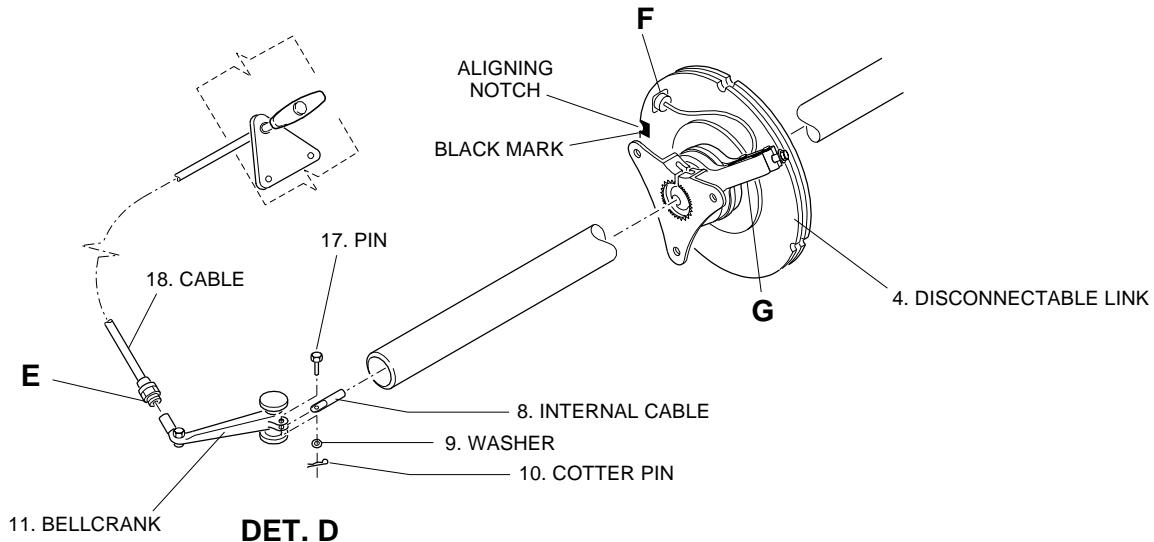


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EFFECTIVITY: ALL

Aileron Disconnect Device - Removal/Installation

Figure 401 - Sheet 2



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TASK 27-15-00-400-801-A

EFFECTIVITY: ALL

3. AILERON DISCONNECT DEVICE - INSTALLATION

A. General

(1) This task gives the procedures to install the Aileron disconnect device.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 25-11-01-400-801-A/400	PILOT SEAT - INSTALLATION
AMM TASK 27-15-00-700-801-A/500	OPERATIONAL CHECK OF THE AILERON DISCONNECT SYSTEM
AMM TASK 28-41-00-200-801-A/600	-
IPC 27-15-00	AILERON DISCONNECT

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Area below the cockpit floor
221	221(EF/GF)	Cockpit LH upper side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, Rig Pins	To lock the aileron in neutral position	
GSE 068	Wrench	To reconnect the elevator torque tube	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-15-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Fuselage



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I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the disconnectable link internal cable (8) into the left torque tube (5).
- (2) If the cable (8) is tight inside the torque tube, adjust the conduit terminal (16) to insert the cable (8) into the bellcrank (11).
- (3) If applicable, install the adjustment plate (19).
- (4) Install the disconnectable link (4) on the aileron torque tube with the bolt (1), nut (3), and the washer (2).

CAUTION: DURING THE INSTALLATION OF THE DISCONNECTABLE LINK (1), MAKE SURE THAT THE BLACK MARK IS UP AND TURNED 70° FORWARD IN RELATION TO THE TORQUE TUBE SECTOR.

- (5) Install the disconnectable link internal cable (8) to the bellcrank (11) with the pin (17), washer (9), and cotter pin (10).
- (6) Connect the electrical connector (13).

J. Follow-on

SUBTASK 842-002-A

- (1) Reconnect the aileron disconnect system with tool GSE 068.
- (2) Remove the rig pins from the left (5) and right torque tubes (7).
- (3) Do an inspection all along the cable (18) for interferences with adjacent structures or signs of chafing.
- (4) Do the operational check of the Aileron Disconnect System ([AMM TASK 27-15-00-700-801-A/500](#)).
- (5) 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 part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Aircraft Maintenance Program.

- (6) Install cockpit underfloor access hatch 123BL and floor panels 221(EF/GF) (AMM MPP 06-41-01/100).
- (7) Install the pilot seat ([AMM TASK 25-11-01-400-801-A/400](#)).

