



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

ELEVATOR DISCONNECT SYSTEM - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the elevator 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 |
|--------------------|--|-------------|
| 27-35-00-000-801-A | ELEVATOR DISCONNECT DEVICE - RE-<br>MOVAL      | ALL         |
| 27-35-00-400-801-A | ELEVATOR DISCONNECT DEVICE - IN-<br>STALLATION | ALL         |



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TASK 27-35-00-000-801-A

EFFECTIVITY: ALL

2. ELEVATOR DISCONNECT DEVICE - REMOVAL

A. General

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

B. References

| REFERENCE            | DESIGNATION |
|----------------------|-------------|
| AMM MPP 06-41-01/100 | -           |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION                          |
|------|------------|-----------------------------------|
| 123  | 123BL      | Area below the cockpit floor - LH |

D. Tools and Equipment

| ITEM    | DESCRIPTION   | PURPOSE   | QTY |
|---------|---------------|---|-----|
| GSE 058 | Kit, Rig Pins | To lock the elevator 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 | Area below the cockpit floor |

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Open control rigging door 123BL (AMM MPP 06-41-01/100).
- (3) Install the rig pin (2) to lock the elevator torque tube (6) in the neutral position.

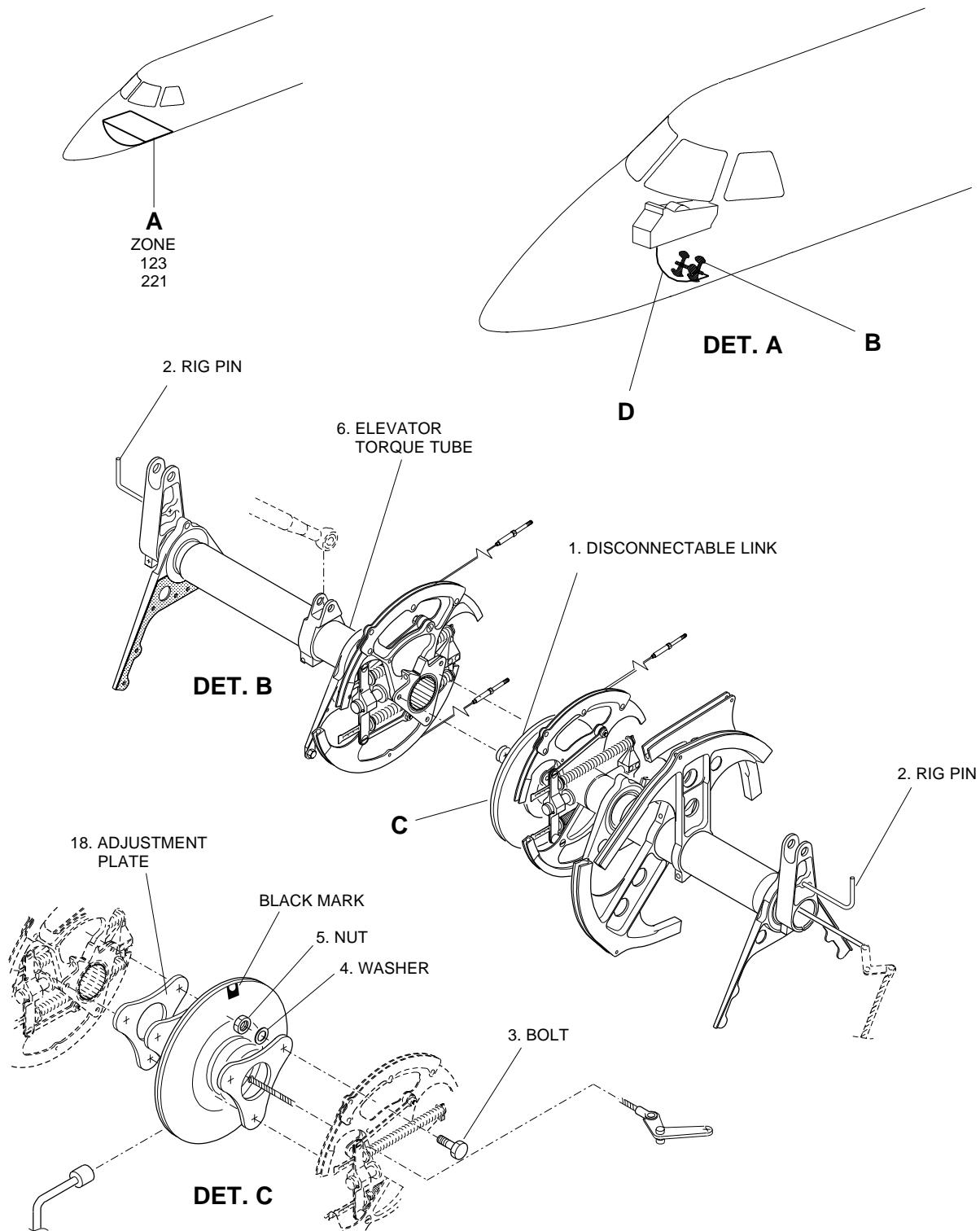


J. Removal ([Figure 401](#))

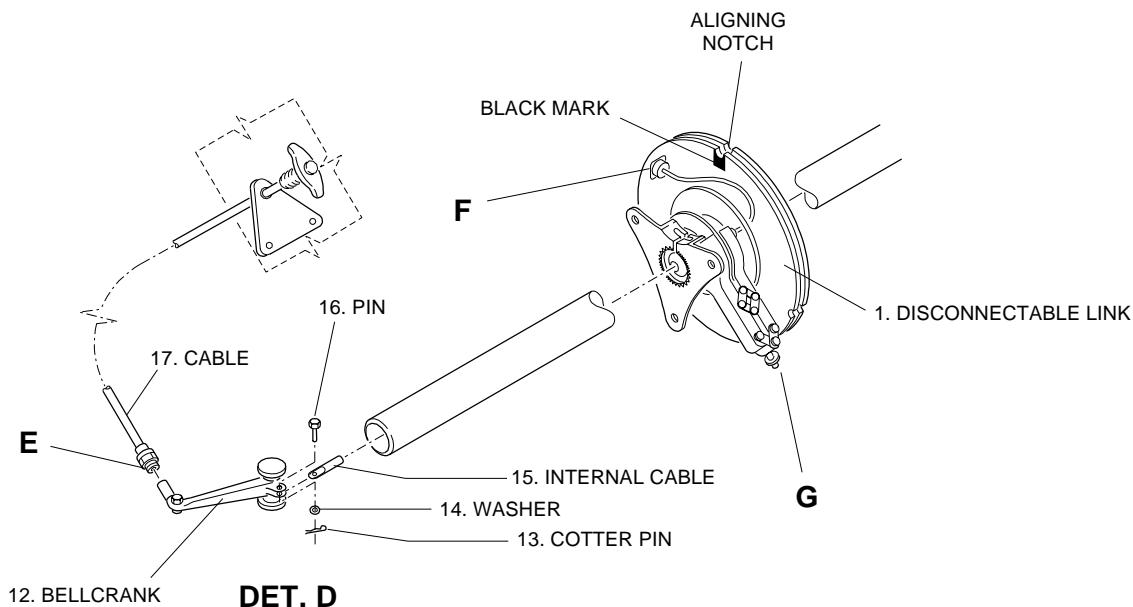
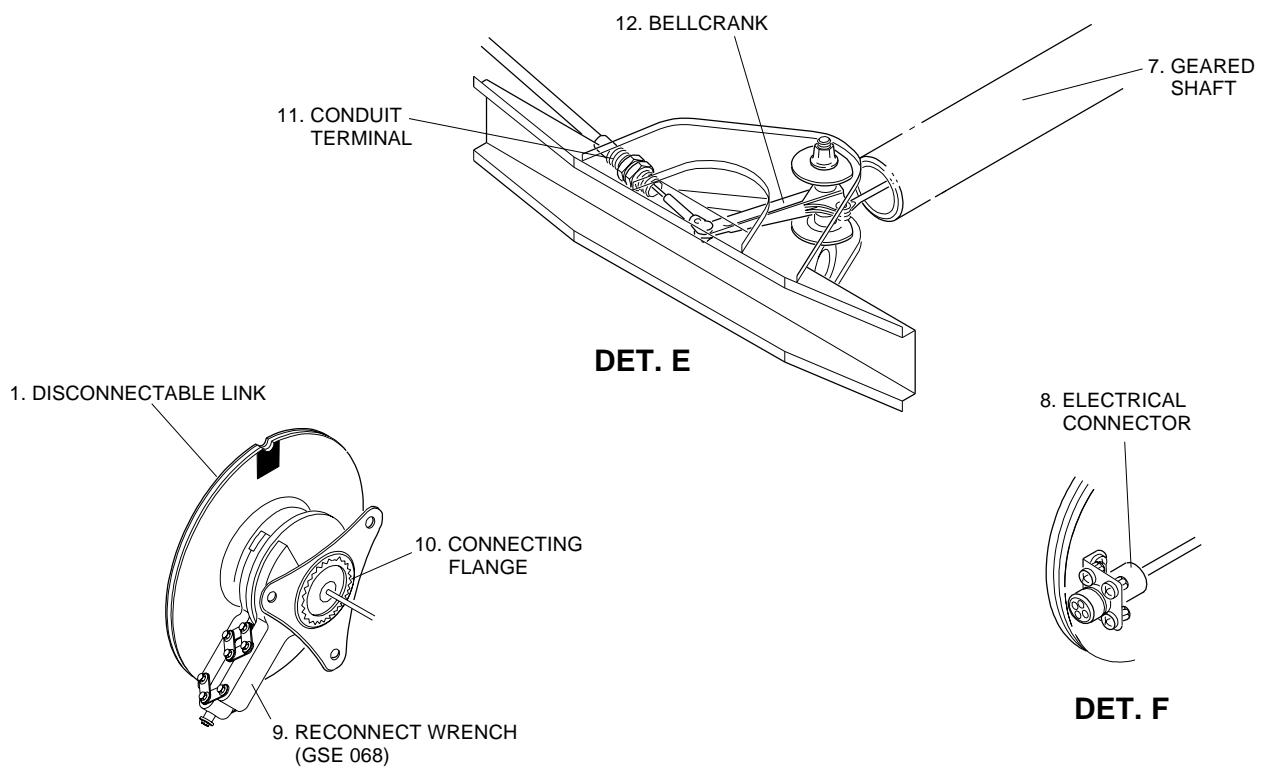
SUBTASK 020-002-A

- NOTE:**
- When you remove the disconnectable link (1), be careful not to cause damage to the actuating cable. Make sure that the internal cable (15) is installed at the gap between the connecting flange (10) and the geared shaft (7).
  - If the disconnectable link (1) is disconnected, make sure that the disks do not turn more than 60° in relation to each other.

- (1) Remove the cotter pin (13), pin (16), and washer (14) to release the internal cable (15) of the disconnectable link (1) from the bellcrank (12). Refer to Det. D of [Figure 401](#).
- (2) Disconnect the electrical connector (8). Refer to Det. F of [Figure 401](#).
- (3) Remove the nuts (5), washers (4), and bolts (3) to remove the disconnectable link (1). Refer to Det. B of [Figure 401](#).
- (4) If applicable, remove the adjustment place (18).
- (5) Remove the disconnectable link (1) from the elevator torque tube (6).

**EFFECTIVITY: ALL**
**Elevator Disconnect Device - Removal/Installation**
**Figure 401 - Sheet 1**


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**EFFECTIVITY: ALL**
**Elevator Disconnect Device - Removal/Installation**
**Figure 401 - Sheet 2**

**DET. D**

**DET. E**
**DET. F**



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TASK 27-35-00-400-801-A

EFFECTIVITY: ALL

3. ELEVATOR DISCONNECT DEVICE - INSTALLATION

A. General

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

B. References

| REFERENCE                       | DESIGNATION  |
|---------------------------------|--|
| AMM MPP 06-41-01/100            | -  |
| AMM TASK 27-35-00-700-801-A/500 | OPERATIONAL CHECK OF THE ELEVATOR DIS-<br>CONNECT SYSTEM |
| AMM TASK 28-41-00-200-801-A/600 | -  |
| IPC 27-35-00                    | ELEVATOR DISCONNECT                                      |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION                          |
|------|------------|-----------------------------------|
| 123  | 123BL      | Area below the cockpit floor - LH |

D. Tools and Equipment

| ITEM    | DESCRIPTION   | PURPOSE   | QTY |
|---------|---------------|---|-----|
| GSE 058 | Kit, Rig Pins | To lock the elevator system in the 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<br>(VENDOR REFERENCE) | QTY   |
|------------|-------------------------------------|-------|
| Cotter pin | IPC 27-35-00                        | 1/LRU |

H. Persons Recommended

| QTY | FUNCTION      | PLACE                        |
|-----|---------------|------------------------------|
| 1   | Does the task | Area below the cockpit floor |



## I. Installation (Figure 401)

## SUBTASK 420-002-A

- (1) Put the disconnectable link internal cable (15) into the left torque tube (6). Refer to Det. B of Figure 401.
- (2) If the internal cable (15) is tight inside the torque tube, adjust the conduit terminal (11) to insert the internal cable (15) into the bellcrank (12).
- (3) If applicable, install the adjustment place (18).
- (4) Install the disconnectable link (1) on the elevator torque tube (6) with the bolts (3), nuts (5), and washers (4).

**CAUTION:** DURING THE INSTALLATION OF THE DISCONNECTABLE LINK (1), MAKE SURE THAT THE BLACK MARK IS UP AND TURNED 90° IN RELATION TO THE TORQUE TUBE SECTOR.

- (5) Install the disconnectable link internal cable (15) to the bellcrank (12) with the pin (16), washer (14), and cotter pin (13).
- (6) Connect the electrical connector (8).

## J. Follow-on

## SUBTASK 842-002-A

- (1) Connect the elevator disconnect system again. Use the elevator reconnect wrench (9).
- (2) Remove the rig pins (2) from the elevator torque tube (6).
- (3) Do an inspection all along the cable (17) for interferences with adjacent structures or signs of chafing.
- (4) Do the operational check of the Elevator Disconnect System ([AMM TASK 27-35-00-700-801-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 control rigging door 123BL (AMM MPP 06-41-01/100).

