

## MAIN-DOOR INTERNAL ACTUATING-HANDLE TORQUE TUBE - REMOVAL/INSTALLATION

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

### 1. General

- A. This section gives the procedures to remove and install the torque tube of the internal actuating-handle of the main door.
- 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
52-11-05-000-801-A	MAIN-DOOR INTERNAL ACTUATING-HANDLE TORQUE TUBE - REMOVAL	AIRCRAFT WITH AIRSTAIRS DOOR
52-11-05-400-801-A	MAIN DOOR INTERNAL ACTUATING HANDLE TORQUE TUBE - INSTALLATION	AIRCRAFT WITH AIRSTAIRS DOOR

TASK 52-11-05-000-801-A

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

## 2. MAIN-DOOR INTERNAL ACTUATING-HANDLE TORQUE TUBE - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the torque tube of the internal actuating-handle of the main door.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM MPP 06-45-00/100</a>	- COMPONENT LOCATION
<a href="#">AMM SDS 52-10-00/1</a>	
<a href="#">AMM TASK 52-10-02-000-801-A/400</a>	MAIN-DOOR STEP-TREAD LINING PANEL - REMOVAL
<a href="#">AMM TASK 52-11-01-000-801-A/400</a>	MAIN DOOR INTERNAL ACTUATING-HANDLE - REMOVAL

### C. Zones and Accesses

Not Applicable

### D. Tools and Equipment

Not Applicable

### 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	Main door
1	Helps the other technician	Main door

### I. Preparation

#### *SUBTASK 841-002-A*

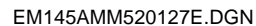
- (1) Open the main door ([AMM SDS 52-10-00/1](#)) .
- (2) Remove the lining panels of the main door ( [AMM MPP 06-45-00/100](#)).
- (3) Remove the lining of the tread of the main door fourth step ([AMM TASK 52-10-02-000-801-A/400](#)).
- (4) Remove the internal actuating handle of the main door ([AMM TASK 52-11-01-000-801-A/400](#)).

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

*SUBTASK 020-002-A*

- (1) Cut the lockwire (6) and remove the bolt (5) to disconnect the rod (4) end from the bellcrank (8).
- (2) Remove the cotter pin, nut, washer, and bolt (7) to disconnect the damper (3) end from the bellcrank (8).
- (3) Remove the bellcrank (8) and the bushing (9).
- (4) Remove the cotter pin, nut, washer, and bolt (12) to disconnect the rod (11) end from the stop bellcrank (13).
- (5) Remove the cotter pin, nut, washer, and bolt (14) to disconnect the rod (15) end from the bellcrank (29).
- (6) Remove the cotter pin, nut, washer, and bolt (18) to disconnect the rod (17) end from the bellcrank (28).
- (7) Remove the cotter pin, nut, washer, and bolt (22) to disconnect the rod (21) end from the bellcrank (27).
- (8) Remove the nut, washer, and bolt (30) to loosen the stop bellcrank (13).
- (9) Remove the nut, washer, and bolt (16) to loosen the bellcrank (29).
- (10) Remove the nut, washer, and bolt (19) to loosen the bellcrank (28).
- (11) Remove the nut, washer, and bolt (23) to loosen the bellcrank (27).
- (12) Loosen the nut, washer, and bolt (24) to loosen the spring assembly (25).
- (13) Pull the torque tube (20) and remove the stop bellcrank (13), bellcranks (29), (28), and (27), spacer (26), and spring assembly (25).
- (14) Remove the washers (10) and (2), and step (1).
- (15) Remove the torque tube (20).

## Figure 401



TASK 52-11-05-400-801-A

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

### 3. MAIN DOOR INTERNAL ACTUATING HANDLE TORQUE TUBE - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the torque tube of the internal actuating-handle of the main door.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-45-00/100	- COMPONENT LOCATION
AMM SDS 52-10-00/1	
AMM TASK 52-10-01-820-804-A/500	MAIN-DOOR LOCKING-MECHANISM CAMS - TEST
AMM TASK 52-10-02-400-801-A/400	MAIN-DOOR STEP-TREAD LINING PANEL - INSTALLATION
AMM TASK 52-11-01-400-801-A/400	MAIN DOOR INTERNAL ACTUATING HANDLE - INSTALLATION
IPC 52-11-00	MAIN DOOR - ACTUATING AND LOCKING MECHANISM
TASK 52-11-00-820-802-A	-

#### C. Zones and Accesses

Not Applicable

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C25	Lockwire	AR

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 52-11-00	5

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Main door
1	Helps the other technician	Main door

I. Installation (Figure 401)

*SUBTASK 420-002-A*

- (1) Put the step (1) together with the washers (2) and (10) on the main door.
- (2) Put the torque tube (20) in the main door step (1), and install the washers (2) and (10).
- (3) Put the spring assembly (25), spacer (26), bellcranks (27), (28), and (29), and stop bellcrank (13) on the torque tube (20).
- (4) Install the bolt, washer, and nut (30) to attach the stop bellcrank (13) to the torque tube (20).
- (5) Install the bolt, washer, and nut (16) to attach the bellcrank (29) to the torque tube (20).
- (6) Install the bolt, washer, and nut (19) to attach the bellcrank (28) to the torque tube (20).
- (7) Install the bolt, washer, and nut (23) to attach the bellcrank (27) to the torque tube (20).
- (8) Tighten the bolt, washer, and nut (24) to attach the spring assembly (25) to the torque tube (20).
- (9) Put the bushing (9) and bellcrank (8) on the torque tube (20) end.
- (10) Connect the damper (3) end to the bellcrank (8) and attach it with the bolt, washer, nut, and cotter pin (7).
- (11) Connect the rod (4) end to the bellcrank (8) and attach it with the bolt (5).
- (12) Connect the rod (11) end to the stop bellcrank (13) and attach it with the bolt, washer, nut, and cotter pin (12).
- (13) Connect the rod (15) end to the bellcrank (29) and attach it with the bolt, washer, nut, and cotter pin (14).
- (14) Connect the rod (21) end to the bellcrank (27) and attach it with the bolt, washer, nut, and cotter pin (22).
- (15) Connect the rod (17) end to the bellcrank (28) and attach it with the bolt, washer, nut, and cotter pin (18).
- (16) Safety the bolt (5) with the lockwire (6).

J. Follow-on

*SUBTASK 842-002-A*

**CAUTION:** MAKE SURE THAT THE KEY ON THE TORQUE TUBE FITS THE SLOT ON THE SHAFT. IF YOU DO NOT OBEY THIS PRECAUTION, DAMAGE TO THE TORQUE TUBE SPLINES CAN OCCUR (FIGURE 401, DET. C).

- (1) Install the internal actuating-handle of the main door ([AMM TASK 52-11-01-400-801-A/400](#)).
- (2) If necessary, adjust Main-Door Locking-Mechanism Cams ( [AMM TASK 52-10-01-820-804-A/500](#)).

- (3) If necessary, adjust the Main-Door Step Actuation Mechanism (TASK 52-11-00-820-802-A).
- (4) Install the lining panels of the main door ( [AMM MPP 06-45-00/100](#)).
- (5) Install the lining on the tread of the main door fourth step ([AMM TASK 52-10-02-400-801-A/400](#)).
- (6) Close the main door ([AMM SDS 52-10-00/1](#)).

