

## SERVICE-DOOR ELEVATION CAM - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to remove and install the elevation cam of the service door mechanism.
- 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
52-43-01-000-801-A	SERVICE DOOR ELEVATION CAM - REMOVAL	ALL
52-43-01-400-801-A	SERVICE DOOR ELEVATION CAM - INSTALLATION	ALL

TASK 52-43-01-000-801-A

EFFECTIVITY: ALL

## 2. SERVICE DOOR ELEVATION CAM - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the elevation cam of the service door mechanism.

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 25-23-05-000-801-A/400</a>	SERVICE DOOR LINING PANELS - REMOVAL
<a href="#">AMM TASK 52-43-00-000-801-A/400</a>	SERVICE DOOR - REMOVAL

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
821		Service door

### 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	Maintenance shop

### I. Preparation

#### SUBTASK 841-002-A

- (1) Remove the lining panels of the service door ([AMM TASK 25-23-05-000-801-A/400](#)).
- (2) Remove the service door ([AMM TASK 52-43-00-000-801-A/400](#)).
- (3) Put the door on a safe place to prevent scratches to the door.

### J. Removal ([Figure 401](#)) ([Figure 402](#))

#### SUBTASK 020-002-A

- (1) Remove the spring (12).

- (2) Remove the cotter pin, flat washer, and straight pin (9), and the bearing (8) to disconnect the lever (7) from the cam (11).
- (3) Remove the nut, washer, and bolt (10) and remove the cam (11) from the end of the torque tube (16).
- (4) Remove the cotter pin, nut, washer, and bolt (5) to disconnect the end of the rod (4) from the bellcrank (13).
- (5) Remove the nut, washer, and bolt (6), and remove the bellcrank (13) from the torque tube (16).
- (6) Remove the spacer (14) from the torque tube (16).
- (7) To get access to the cam (15), it is necessary to remove the door arm. To remove the door arm, do as follows ([Figure 402](#)):
  - (a) Remove the cotter pin (12), nut (11), washer (10), bolt (14), and the washers (13) and (15) (Det. C on [Figure 402](#)).
  - (b) Remove the cotter pin (5), nut (6), washer (7), bolt (9), washer (8), and the bushings (3) and (4) (Det. B on [Figure 402](#)).

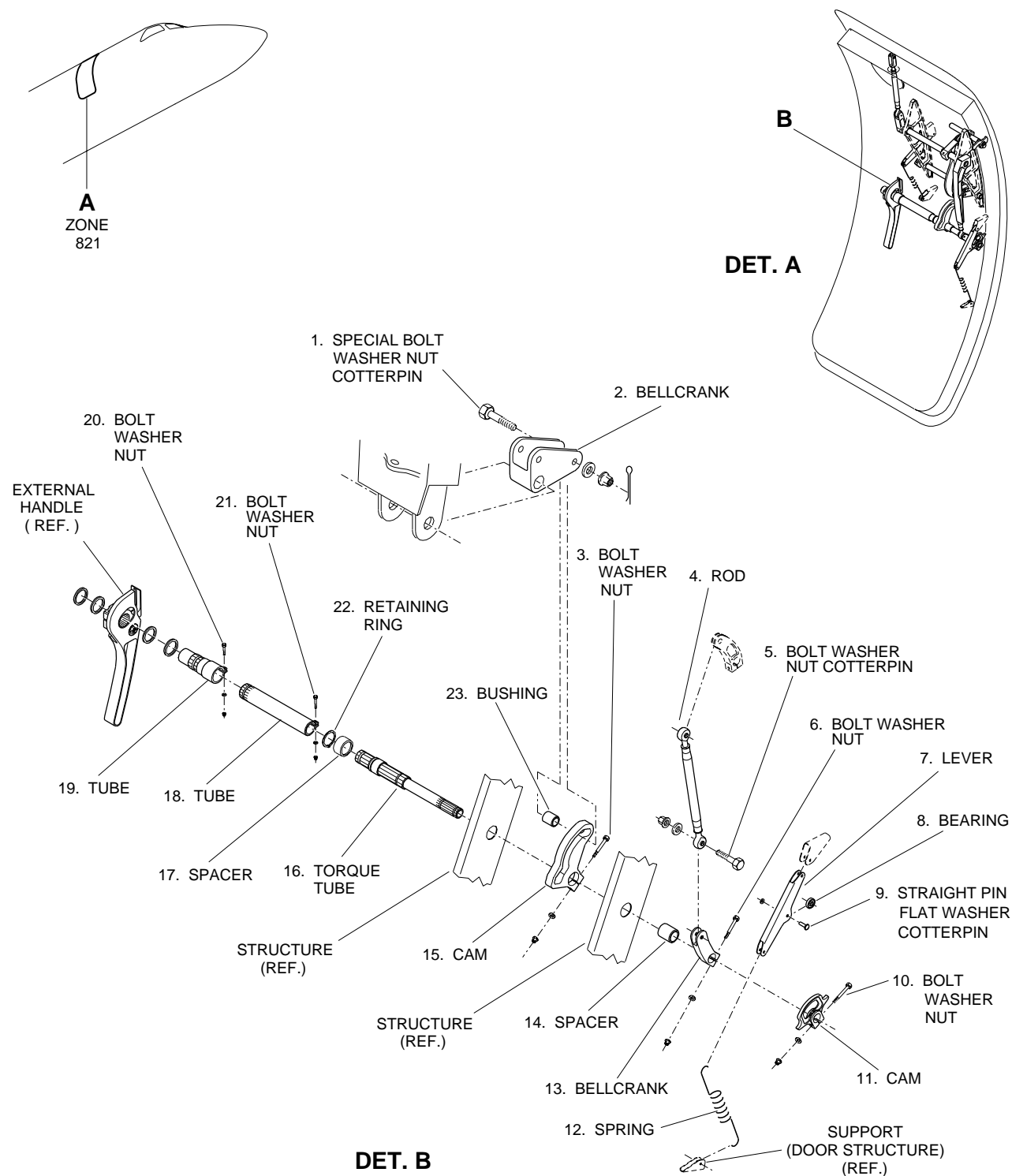
**CAUTION:** BE CAREFUL NOT TO CUT OR CAUSE OTHER DAMAGE TO THE WIRE (2).

- (c) Pull up the door arm (1) to get access to the bellcrank.
- (8) Remove the cotter pin, nut, washer, and special bolt (1), and the bushing (23) to disconnect the bellcrank (2) from the cam (15).
- (9) Remove the nut, washer, and bolt (21) to disconnect the tube (18) from the torque tube (16).
- (10) Remove the retaining ring (22) from the torque tube (16).
- (11) Push the torque tube (16) to the right side of the door.
- (12) Remove the nut, washer, and bolt (20) to disconnect the tube (19) from the tube (18).
- (13) Remove the tube (18).
- (14) Remove the nut, washer, and bolt (3).
- (15) Push the torque tube (16) to the left side of the door.
- (16) Remove the cam (15).

EFFECTIVITY: ALL

Elevation Cam - Removal/Installation

Figure 401

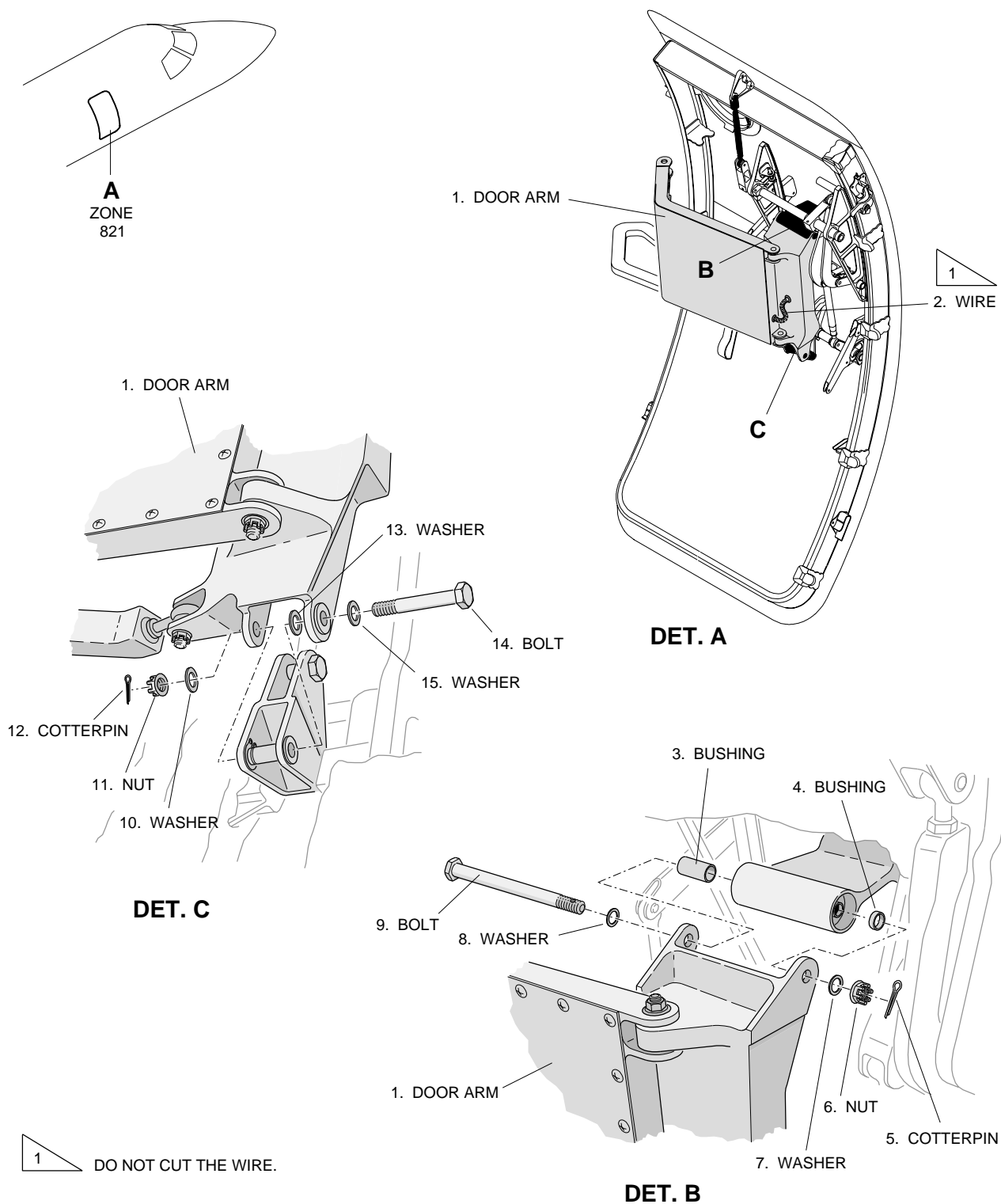


145AMM520119.MCE B

EFFECTIVITY: ALL

Service Door Arm - Removal/Installation

Figure 402



145AMM520414.MCE

TASK 52-43-01-400-801-A

EFFECTIVITY: ALL

### 3. SERVICE DOOR ELEVATION CAM - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the elevation cam of the service door mechanism.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 25-23-05-400-801-A/400</a>	SERVICE DOOR LINING PANELS - INSTALLATION
<a href="#">AMM TASK 52-43-00-400-801-A/400</a>	SERVICE DOOR - INSTALLATION
<a href="#">AMM TASK 52-43-06-700-801-A/500</a>	SERVICE-DOOR ACTUATING AND LOCKING MECHANISM - FUNCTIONAL CHECK
IPC 52-43-11	SERVICE DOOR - MECHANISM

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
821		Service door

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

Not Applicable

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 52-43-11	3

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Maintenance shop

#### I. Installation (Figure 401) (Figure 402)

##### **SUBTASK 420-002-A**

- (1) Put the torque tube (16) in the door structure.
- (2) Put the cam (15) on the torque tube (16).

- (3) Push the torque tube (16) to the right side of the door.
- (4) Put the end of the tube (18) in the end of the tube (19).
- (5) Put the spacer (17) on the end of the torque tube (16) and install the retaining ring (22).
- (6) Connect the end of the torque tube (16) to the end of the tube (18). Install the bolt, washer, and nut (21) to attach them.
- (7) Install the bolt, washer, and nut (20) to attach the ends of the tubes (18) and (19).
- (8) Put the cam (15) in the bellcrank (2).
- (9) Install the bolt, washer, and nut (3) to attach the cam (15) to the torque tube (16).
- (10) Install the bushing (23), and the special bolt, washer, nut, and cotter pin (1) to attach the cam (15) to the bellcrank (2).
- (11) Put the spacer (14) on the torque tube (16).
- (12) Put the bellcrank (13) on the torque tube (16).
- (13) Connect the end of the rod (4) to the bellcrank (13). Install the bolt, washer, nut, and cotter pin (5) to attach it.
- (14) Install the bolt, washer, and nut (6) to attach the bellcrank (13) to the torque tube (16).
- (15) Put the cam (11) on the end of the torque tube (16) and in the lever (7).
- (16) Install the bearing (8) and the straight pin, flat washer, and cotter pin (9) to attach the cam (11) to the lever (7).
- (17) Install the bolt, washer, and nut (10) to attach the cam (11) to the end of the torque tube (16).
- (18) Install the spring (12) between the lever (7) and the support at the door structure.
- (19) Install the door arm (1) as follows (Figure 402):
  - (a) Put the door arm (1) on the door.
  - (b) Put the bushings (3) and (4) (Det. B in (Figure 402)).
  - (c) Install the washer (8) on the bolt (9) (Det. B in (Figure 402)).
  - (d) Install the bolt (9) (Det. B in (Figure 402)).
  - (e) Install the washer (7), nut (6), and cotter pin (5) (Det. B in (Figure 402)).
  - (f) Install the washer (15) on the bolt (14) (Det. C in (Figure 402)).
  - (g) Put the washer (13) between the door arm (1) and the support.
  - (h) Install the bolt (14) (Det. C in (Figure 402)).
  - (i) Install the washer (10), nut (11), and cotter pin (12) (Det. C in (Figure 402)).

J. Follow-on

*SUBTASK 842-002-A*

- (1) Install the service door ([AMM TASK 52-43-00-400-801-A/400](#)).
- (2) Do a functional check of the service door ( [AMM TASK 52-43-06-700-801-A/500](#)).
- (3) Install the lining panels of the service door ([AMM TASK 25-23-05-400-801-A/400](#)).