

SERVICE DOOR EXTERNAL ACTUATING HANDLE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove and install the external actuating handle of the service 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
52-43-07-000-801-A	SERVICE DOOR EXTERNAL ACTUATING HANDLE - REMOVAL	ALL
52-43-07-400-801-A	SERVICE DOOR EXTERNAL ACTUATING HANDLE - INSTALLATION	ALL

TASK 52-43-07-000-801-A

EFFECTIVITY: ALL

2. SERVICE DOOR EXTERNAL ACTUATING HANDLE - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the external actuating handle of the service door.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-23-05-000-801-A/400	SERVICE DOOR LINING PANELS - REMOVAL
AMM TASK 52-43-00-000-801-A/400	SERVICE DOOR - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
821		Service door

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the service door	

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) Release the spring (12) from the lever (7).
- (2) Remove the cotter pin, flat washer, and straight pin (9) to disconnect the lever (7) from the cam (11).

NOTE: Be careful not to lose the bearing (8).

- (3) Remove the nut, washer, and bolt (10), and then 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 then 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 bellcrank (2), 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), then remove the bushing (33) to disconnect the bellcrank (2) from the cam (15).
- (9) Remove the nut, washer, and bolt (3).
- (10) Pull the cam (15) to the right side of the door.
- (11) Remove the nut, washer, and bolt (30) and the nut, washer, and bolt (31) to disconnect the tube (18) from the torque tube (16).
- (12) Pull the torque tube (16).
- (13) Remove the retaining ring (32) and the spacer (17) from the torque tube.
- (14) Disconnect and remove the tube (18).
- (15) Loosen the nut and bolt (24), then remove the clamp (23).
- (16) Remove the nut (21) and the bolt (27) from the external handle (20).
- (17) Pull the tube (19).

- NOTE:
- Be careful not to lose the washers (26) and (28).
 - Remove and discharge the O-rings (25) and (29).

(18) Remove the external handle (20).

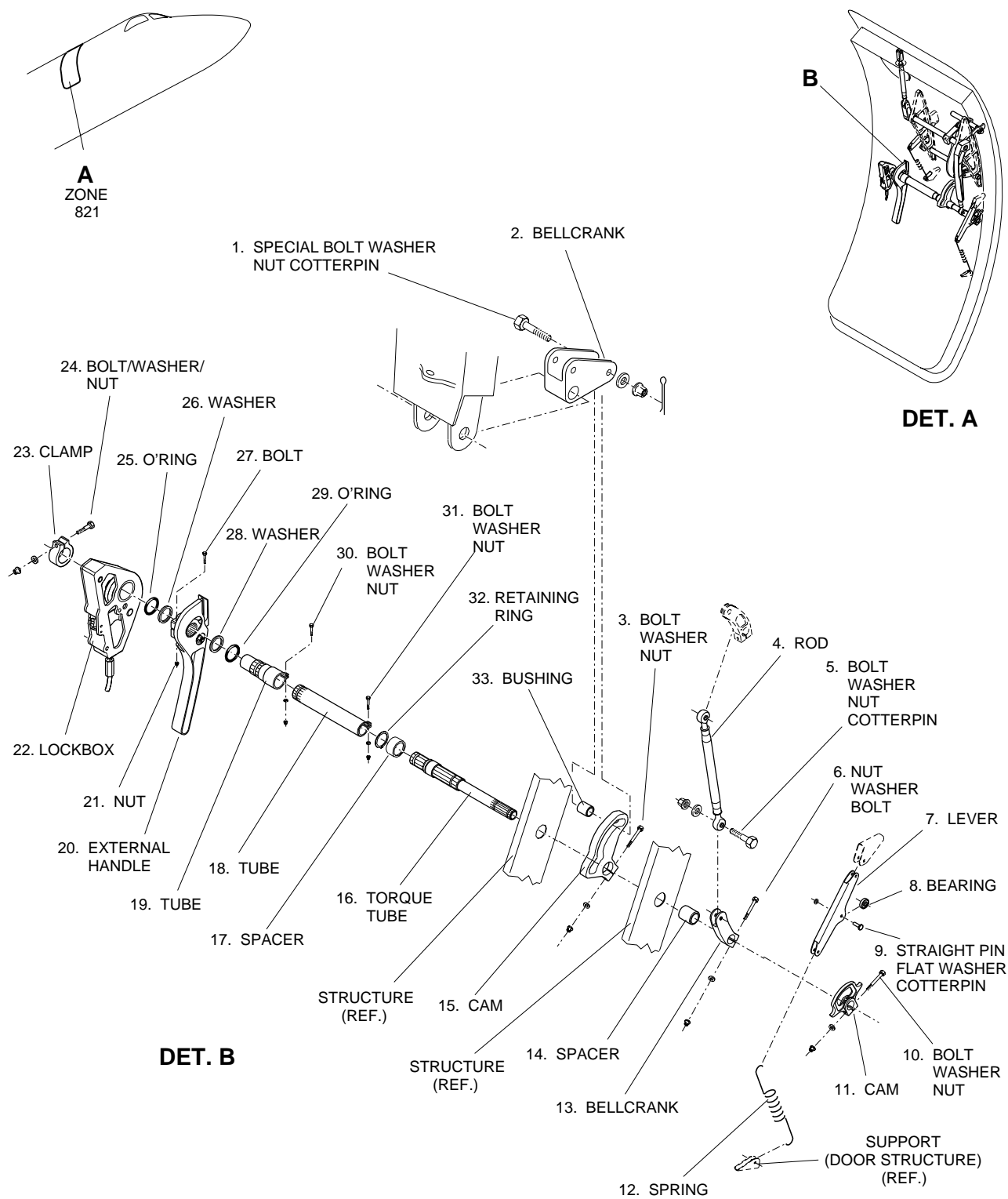
(19) If necessary, disassemble the external handle as follows (Sheet 2 of [Figure 401](#)):

- Remove the nut (1), washer (2), screw (6), and bushings (3) and (5).
- Remove the stop (8) from the handle (4).
- Remove the bushing (7) and washer (10) from the handle (4).
- Remove the bushing (9) from the stop (8).

EFFECTIVITY: ALL

External Actuating Handle - Removal/Installation

Figure 401 - Sheet 1

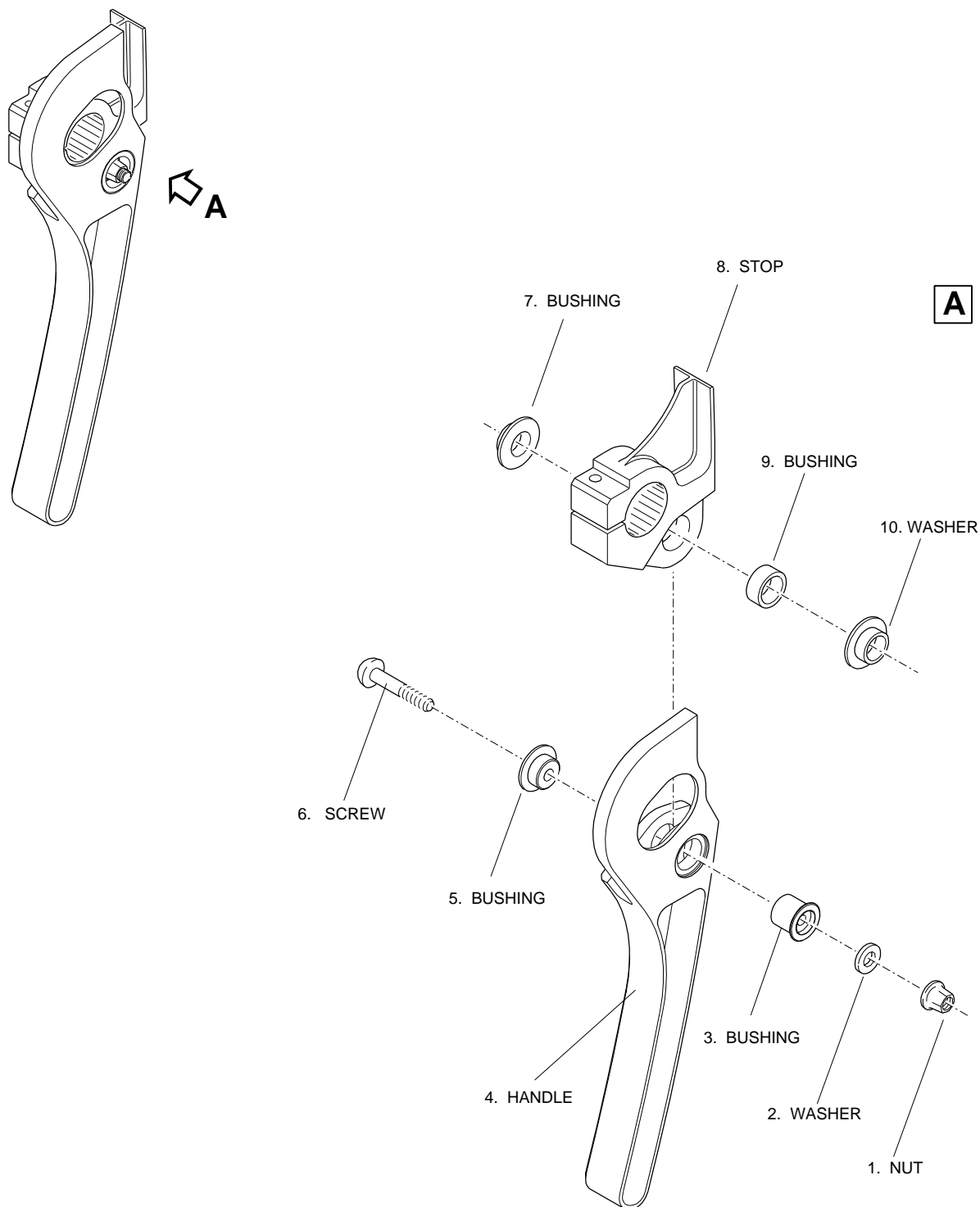


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EFFECTIVITY: ALL

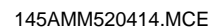
External Actuating Handle - Removal/Installation

Figure 401 - Sheet 2



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Figure 402



TASK 52-43-07-400-801-A

EFFECTIVITY: ALL

3. SERVICE DOOR EXTERNAL ACTUATING HANDLE - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the external actuating handle of the service door.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-23-05-400-801-A/400	SERVICE DOOR LINING PANELS - INSTALLATION
AMM TASK 52-43-00-400-801-A/400	SERVICE DOOR - INSTALLATION
AMM TASK 52-43-06-700-801-A/500	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

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the service door	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 52-43-11	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Maintenance shop

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) If applicable, assemble the external handle as follows (Sheet 2 of (Figure 401):

- (a) Install the bushing (9) to the stop (8).
 - (b) Install the bushing (7) and the washer (10) to the handle (4), then position the stop (8) on the handle (4).
 - (c) Install the bushings (5) and (3), screw (6), washer (2) and nut (1).
- (2) Install the new O-rings (25) and (29) to the door.
 - (3) Put the washer (28) in position and start to introduce the tube (19).
 - (4) Put the external handle (20) in position and push the tube (19) through the hole of the external handle.
 - (5) Put the washer (26) in position and totally push the tube (19) into the hole.
 - (6) Install the bolt (27) and the nut (21) to the external handle (20).
 - (7) Install the clamp (23) and then install the bolt, washer, and nut (24) to the clamp (23).
 - (8) Put the cam (15) in position and install the torque tube (16).
 - (9) Install the spacer (17) and the retaining ring (33) to the torque tube (16).
 - (10) Install the tube (18) to the torque tube (16) and to the tube (19).
 - (11) Install the bolt, washer, and nut (30).
 - (12) Install the bolt, washer, and nut (31).
 - (13) Install the bolt, washer, and nut (3) to the cam (15).
 - (14) Put the bushing (33) on the cam (15). Put the bellcrank (2) near the cam (15) and install the special bolt, washer, nut, and cotter pin (1).
- NOTE:** Make sure that the special bolt goes through the bushing (33).
- (15) Install the spacer (14) to the torque tube (16).
 - (16) Install the bellcrank (13) to the torque tube (16).
 - (17) Put the end of the rod (4) on the bellcrank (13) and install the bolt, washer, nut, and cotter pin (5).
 - (18) Install the bolt, washer, and nut (6) to the bellcrank (13).
 - (19) Install the cam (11) to the end of the torque tube (16) and install the bolt, washer, and nut (10).
 - (20) Put the bearing (8) on the cam (11).
 - (21) Put the lever (7) on the cam (11) and install the straight pin, flat washer, and cotter pin (9) to the lever (7).
 - (22) Attach the spring (12) to the lever (7).
 - (23) 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](#)).