



AIRCRAFT MAINTENANCE MANUAL

SERVICE DOOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install 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
52-43-00-000-801-A	SERVICE DOOR - REMOVAL	ALL
52-43-00-400-801-A	SERVICE DOOR - INSTALLATION	ALL



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TASK 52-43-00-000-801-A

EFFECTIVITY: ALL

2. SERVICE DOOR - REMOVAL

A. General

(1) This procedure gives the instructions to remove the service door.

B. References

REFERENCE	DESIGNATION
AMM 52-43-00/101	-
AMM TASK 25-23-05-000-801-A/400	SERVICE DOOR LINING PANELS - 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 work area	
Commercially available	Torque wrench	To remove bolts	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technician's hands	1
Commercially available	Safety Goggles	For protection of technician's eyes	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

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



I. Preparation

SUBTASK 841-002-A

- (1) Open the service door (AMM 52-43-00/101).
- (2) Remove the lining panel 821BW of the service door, according to [AMM TASK 25-23-05-000-801-A/400](#).
- (3) Remove the lining panel of the passenger cabin along the contour of the service-door frame, at the link point of its arm.

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

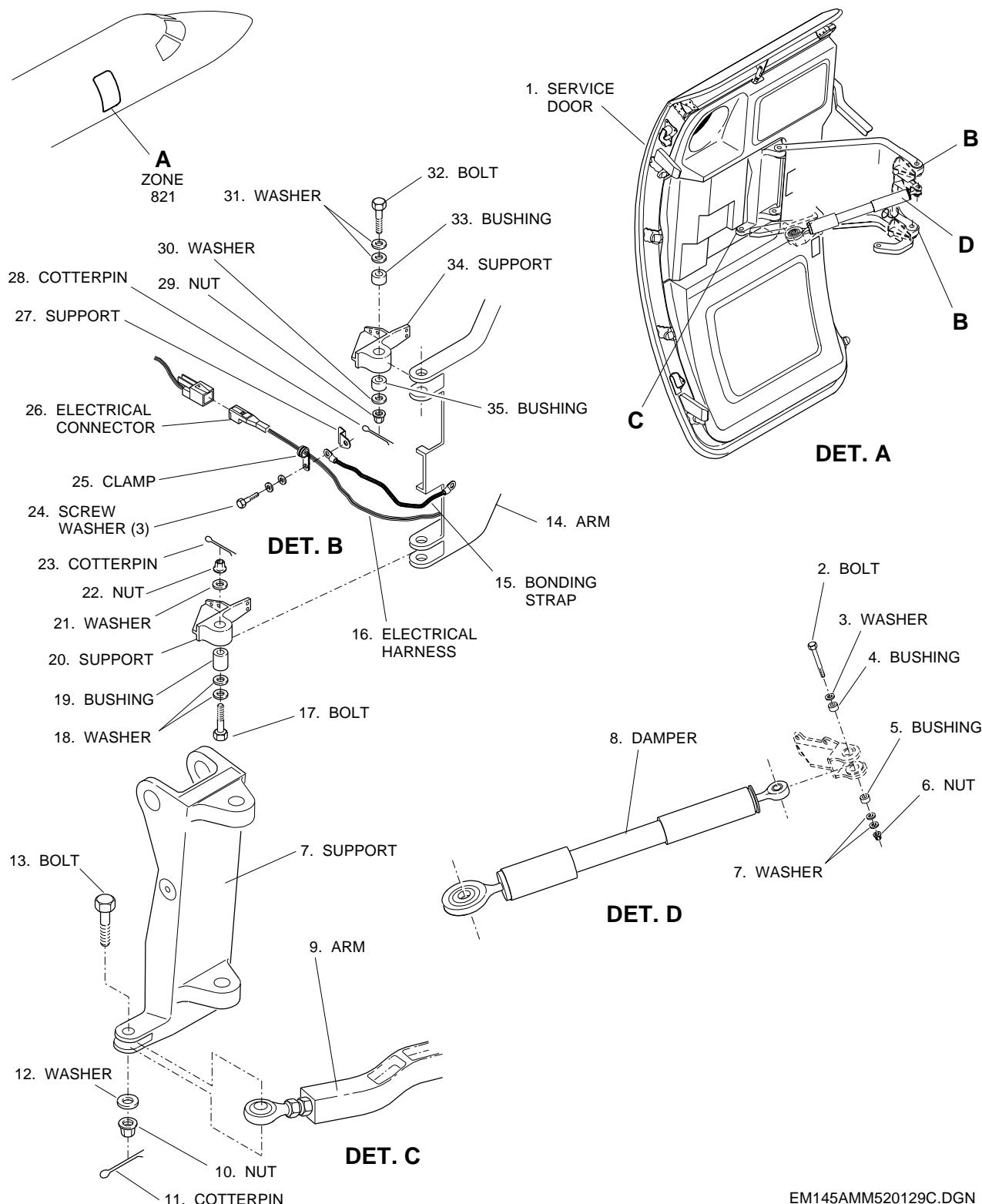
SUBTASK 020-002-A

- (1) Disconnect the end of the damper (8) from the arm (14). For this, remove the nut (6), washers (7), bushing (5) and (4), washer (3), and bolt (2).
- (2) Disconnect the arm (9) from the support (7) at the service door. For this, remove the cotter pin (11), nut (10), washer (12), and bolt (13).
- (3) Disconnect the electrical connector (26).
- (4) Release the electrical harness (16) and the end of the bonding strap (15) from the support (27) at the fuselage structure as follows:
 - (a) Remove the screw and three washers (24) and release the end of the bonding strap (15) and the clamp (25).
- (5) Hold the service door (1).
- (6) Remove the cotter pin (23), nut (22), washer (21), bolt (17), washers (18), and bushing (19) to release the lower link-point of the arm (14) from the support (20) at the fuselage.
- (7) Remove the cotter pin (28), nut (29), washer (30), bushing (35), bolt (32), bushing (33), and washers (31) to release the upper link-point of the arm (14) from the support (34) at the fuselage.
- (8) Remove the service door (1).

EFFECTIVITY: ALL

Service Door - Removal/Installation

Figure 401



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TASK 52-43-00-400-801-A

EFFECTIVITY: ALL

3. SERVICE DOOR - INSTALLATION

A. General

(1) This procedure gives the instructions to install the service door.

B. References

REFERENCE	DESIGNATION
52-43-00	-
AMM 52-43-00/101	-
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 25-23-05-400-801-A/400	SERVICE DOOR LINING PANELS - INSTALLATION
AMM TASK 52-43-06-700-801-A/500	SERVICE-DOOR ACTUATING AND LOCKING MECHANISM - FUNCTIONAL CHECK

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 work area	
Commercially available	Torque wrench	To install the bolts	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Protective Gloves	For protection of technician's hands	1
Commercially available	Safety Goggles	For protection of technician's eyes	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM-D-740	Methyl Ethyl Ketone - MEK	AR



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G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	52-43-00	2

H. Persons Recommended

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

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the service door (1) in its frame at the fuselage.
- (2) Put the arm (14) in the supports (20) and (34) at the fuselage structure.
- (3) Install the bushing (33), bolt (32), washers (31), bushing (35), washer (30), nut (29), and cotter pin (28) to connect the upper link-point of the arm (14) to the support (34).
- (4) Install the bolt (17), washer (18), bushing (19), washer (21), nut (22), and cotter pin (23) to connect the lower link-point of the arm (14) to the support (20).
- (5) Put the clamp (25) on the electrical harness (16).
- (6) Connect the electrical connector (26).
- (7) Connect the end of the bonding strap (15) and attach the clamp (25) to the support (27) at the fuselage as follows:
 - (a) Make sure that the support (27) is correctly prepared for bonding. Refer to [AMM TASK 20-13-21-910-801-A/200](#).
 - (b) Put the end of the bonding strap (15) and the clamp (25) on the support (27).
 - (c) Make sure that the length of the electrical harness (16) is sufficient to permit the free movement of the service door (1).
 - (d) Install the screw and three washers (24) to attach the clamp (25) and the end of the bonding strap (15). Refer to [AMM TASK 20-13-21-910-801-A/200](#).
- (8) Connect the arm (9) to the support (7) at the service door as follows:
 - (a) Put the end of the arm (9) in the support (7).
 - (b) Install the bolt (13), washer (12), nut (10), and cotter pin (11).
- (9) Connect the damper (8) to the arm (14) as follows:
 - (a) Put the end of the damper (8) in the arm (14).
 - (b) Install the bolt (2), bushing (4), washer (3), bushing (5), washers (7), and nut (6).



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J. Follow-on

SUBTASK 842-002-A

- (1) Do an operational check of the service door.

NOTE: The operating load for the door handle should not exceed 220 N (50 lbf).

- (2) If necessary, adjust the actuation and locking mechanism of the service door, according to [AMM TASK 52-43-06-700-801-A/500](#).
- (3) Install the lining panel 821BW of the service door, according to [AMM TASK 25-23-05-400-801-A/400](#).
- (4) Install the lining panel of the passenger cabin along the contour of the service-door frame, at the link point of its arm.
- (5) Close the service door (AMM 52-43-00/101).

