

SPRING-LOADED CARTRIDGE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the spring-loaded cartridges of the rudder control system.
- B. These procedures are applicable to the four spring-loaded cartridges.
- C. The spring loaded-cartridges are installed in the pedal assemblies, as follows:
 - LH pedal assembly: two spring-loaded cartridges.
 - RH pedal assembly: two spring-loaded cartridges.
- D. 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
27-25-01-000-801-A	SPRING-LOADED CARTRIDGE - REMOV- AL	ALL
27-25-01-400-801-A	SPRING-LOADED CARTRIDGE - INSTAL- LATION	ALL

TASK 27-25-01-000-801-A

EFFECTIVITY: ALL

2. SPRING-LOADED CARTRIDGE - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the spring-loaded cartridge of the rudder control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Below the cockpit floor
124		Below the cockpit floor

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit, rig pins, flight controls	To lock the rudder control 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	Below the cockpit floor

I. Preparation

SUBTASK 841-002-A

- (1) Remove cockpit underfloor access hatch123BL (AMM MPP 06-41-01/100).
- (2) Remove floor lining panels 221DF and 222DF (AMM MPP 06-41-02/100).
- (3) Install the rig pins to the rudder control system to lock it in the neutral position.

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

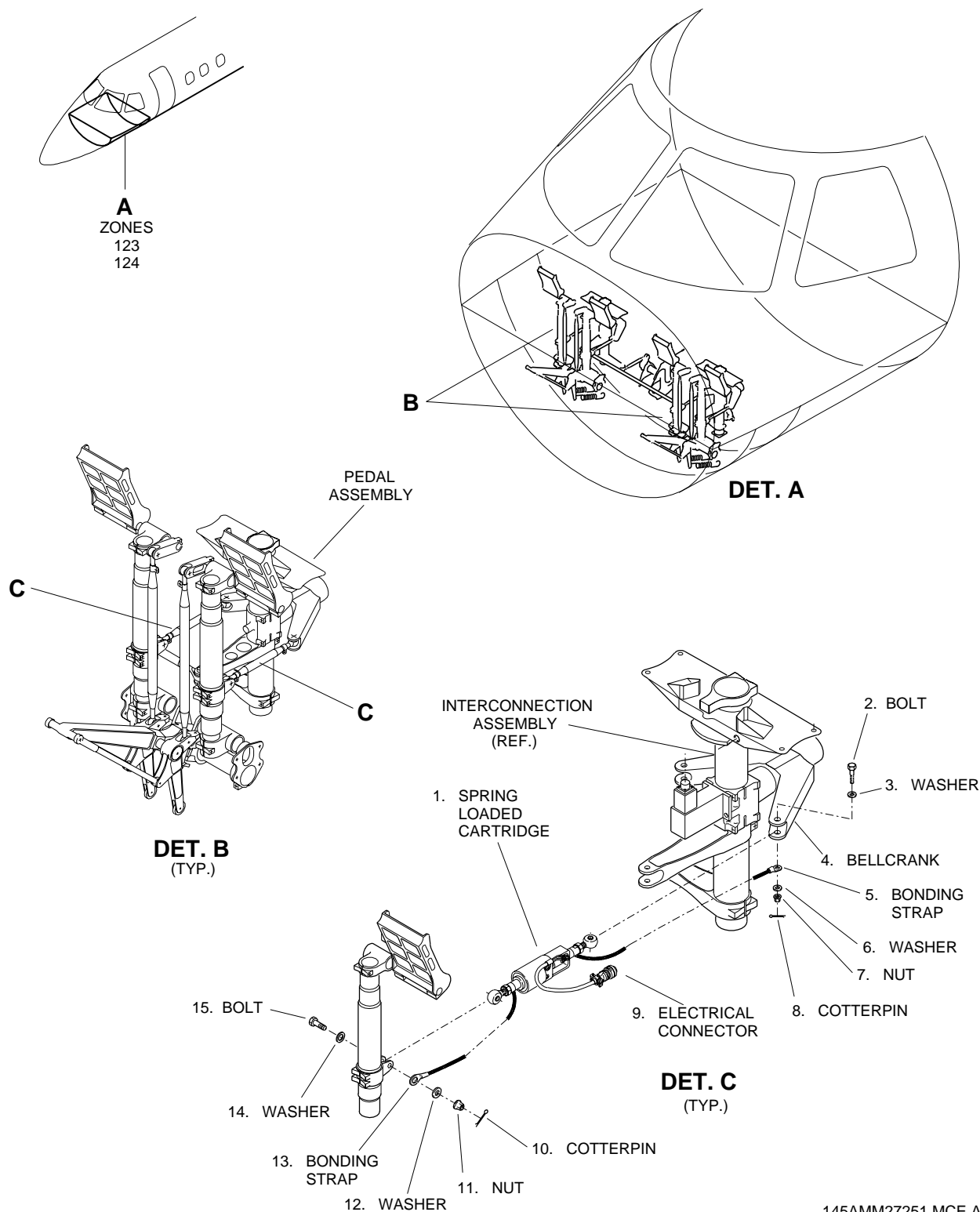
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (9).
- (2) Disconnect the end of the spring-loaded cartridge (1) from the bellcrank (4) at the interconnection assembly. For this, remove the cotter pin (8), nut (7), washer (6), bonding strap (5), washer (3), and bolt (2).
- (3) Disconnect the end of the spring-loaded cartridge (1) from the support at the arm assembly. For this, remove the cotter pin (10), nut (11), washer (12), bonding strap (13), washer (14), and bolt (15).
- (4) Remove the spring-loaded cartridge (1).

EFFECTIVITY: ALL

Spring-Loaded Cartridge - Removal/Installation

Figure 401



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TASK 27-25-01-400-801-A
EFFECTIVITY: ALL

3. SPRING-LOADED CARTRIDGE - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the spring-loaded cartridge of the rudder control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM TASK 20-13-21-910-801-A/200	TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES
AMM TASK 27-25-00-700-801-A/500	RUDDER PEDALS AUTOSHUTOFF AND RUDDER MANUAL SHUTOFF FUNCTIONS- OPERATIONAL CHECK
IPC 27-21-01	RUDDER PEDALS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Below the cockpit floor
124		Below the cockpit floor

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 058	Kit rig pins, flight controls	To lock the rudder control system in the neutral position	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Cotter pin	IPC 27-21-01	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Below the cockpit floor

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the spring-loaded cartridge (1) between the arm assembly and the interconnection assembly.
- (2) Connect the end of the spring-loaded cartridge (1) to the support at the arm assembly. For this, install the bolt (15), washer (14), bonding strap (13), washer (12), nut (11), and cotter pin (10).

NOTE: Refer to [AMM TASK 20-13-21-910-801-A/200](#) for correct installation of the bonding strap (13).

- (3) Connect the end of the spring-loaded cartridge (1) to the bellcrank (4) at the interconnection assembly. For this, install the bolt (2), washer (3), bonding strap (5), washer (6), nut (7), and cotter pin (8).

NOTE: Refer to [AMM TASK 20-13-21-910-801-A/200](#) for correct installation of the bonding strap (5).

- (4) Connect the electrical connector (9).

J. Follow-on

SUBTASK 842-002-A

- (1) Remove the rig pins from the rudder control system.
- (2) Do the rudder electrical test ([AMM TASK 27-25-00-700-801-A/500](#)).
- (3) Install cockpit underfloor access hatch 123BL (AMM MPP 06-41-01/100).
- (4) Install floor lining panels 221DF and 222DF (AMM MPP 06-41-02/100).