



AIRCRAFT  
MAINTENANCE MANUAL

RUDDER-POSITION MICROSWITCH HOLDER - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the rudder-position-microswitch holder that are assembled on the rudder control system.
- B. These procedures are applicable to the LH rudder pedal assembly.
- C. 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
27-25-03-000-801-A	RUDDER POSITION MICROSWITCHES - ALL REMOVAL	
27-25-03-400-801-A	RUDDER POSITION MICROSWITCHES - ALL INSTALLATION	



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 27-25-03-000-801-A

EFFECTIVITY: ALL

2. RUDDER POSITION MICROSWITCHES - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the rudder-position microswitch holder assembly of the rudder control system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
<a href="#">AMM TASK 25-11-01-000-801-A/400</a>	PILOT SEAT - REMOVAL
<a href="#">AMM TASK 25-12-06-000-801-A/400</a>	PEDAL ASSEMBLY LINING - REMOVAL
<a href="#">AMM TASK 27-25-02-000-801-A/400</a>	RUDDER POSITION MICROSWITCHES - REMOVAL
<a href="#">AMM TASK 53-01-01-000-801-A/400</a>	COCKPIT FLOOR PANELS - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223HZ	Rudder-control mechanism on the cockpit floor
221	221DF	Rudder control mechanism electrical connectors below the cockpit floor

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 058</a>	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) Make sure that the aircraft is deenergized and safe for maintenance.



- (2) Remove the pilot seat ([AMM TASK 25-11-01-000-801-A/400](#)).
- (3) Remove cockpit floor panel 221DF (AMM MPP 06-41-02/100) ([AMM TASK 53-01-01-000-801-A/400](#)).
- (4) Remove left pedal assembly lining 223HZ ([AMM TASK 25-12-06-000-801-A/400](#)).
- (5) Open access door 123BL.
- (6) Install the rig pins to the rudder control system to lock it in the neutral position.

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

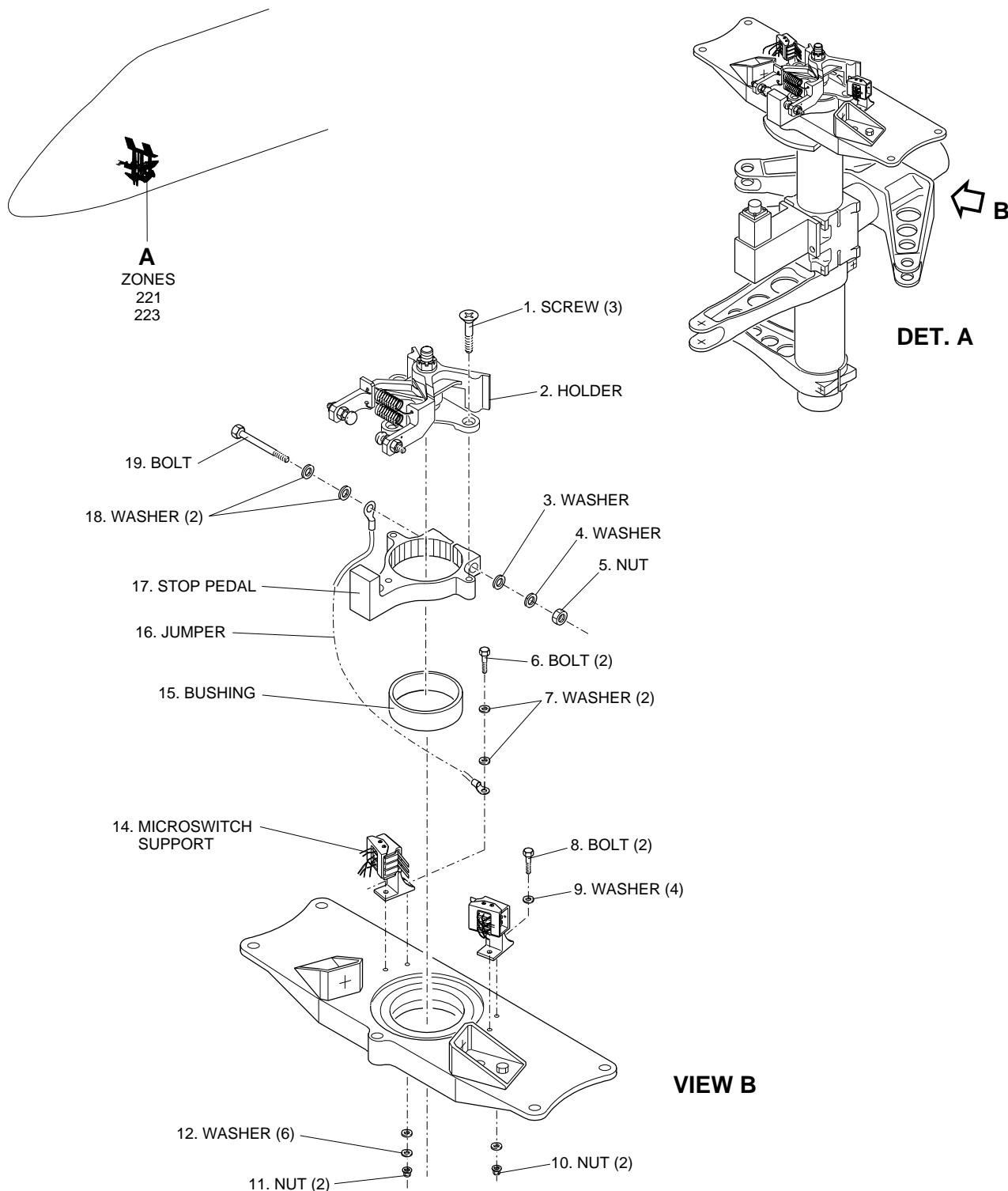
SUBTASK 020-002-A

- (1) Remove the rudder position microswitches according to [AMM TASK 27-25-02-000-801-A/400](#).
- (2) Remove the bolt (6) and (8), washer (7), (9) and (12), and nut (10) and (11) to remove the microswitch support (14).
- (3) Remove the screw (1).
- (4) Remove the holder (2) from the support pedal (13).  
**NOTE:** Do not change the adjustment of the screws at the rudder-position microswitch stop to make the installation easier.
- (5) Remove the bolt (19), washer (18), (3) and (4), and nut (5).
- (6) Remove the stop pedal (17) and the bushing (16) from the support pedal (13).

**EFFECTIVITY: ALL**

Rudder-Position Microswitch Holder - Removal/Installation

Figure 401



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**TASK 27-25-03-400-801-A**
**EFFECTIVITY: ALL**
**3. RUDDER POSITION MICROSWITCHES - INSTALLATION**
**A. General**

- (1) This procedure gives the instructions to install the rudder-position microswitch holder assembly of the rudder control system.

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-02/100	-
<a href="#">AMM TASK 25-11-01-400-801-A/400</a>	PILOT SEAT - INSTALLATION
<a href="#">AMM TASK 25-12-06-400-801-A/400</a>	PEDAL ASSEMBLY LINING - INSTALLATION
<a href="#">AMM TASK 27-25-00-700-801-A/500</a>	RUDDER PEDALS AUTOSHUTOFF AND RUDDER MANUAL SHUTOFF FUNCTIONS- OPERATIONAL CHECK
<a href="#">AMM TASK 27-25-02-400-801-A/400</a>	RUDDER POSITION MICROSWITCHES - INSTALLA- TION
<a href="#">AMM TASK 27-25-02-700-801-A/500</a>	RUDDER POSITION MICROSWITCHES - ADJUST- MENT/TEST
<a href="#">AMM TASK 53-01-01-400-801-A/400</a>	COCKPIT FLOOR PANELS - INSTALLATION

**C. Zones and Accesses**

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
223	223HZ	Rudder control mechanism on the cock- pit floor
221	221DF	Rudder control mechanism electrical connectors below the cockpit floor

**D. Tools and Equipment**

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
<a href="#">GSE 058</a>	Kit rig pins, flight controls	To lock the rudder control system in the neu- tral position	

**E. Auxiliary Items**

Not Applicable

**F. Consumable Materials**

Not Applicable

**G. Expandable Parts**

Not Applicable



## AIRCRAFT MAINTENANCE MANUAL

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Below the cockpit floor

### I. Installation (Figure 401)

#### SUBTASK 420-002-A

- (1) Install the bushing (15) and position the stop pedal (17) to the support pedal.
- (2) Install the bolt (19), washer (18), jumper (16), washer (3) and (4), and nut (5).
- (3) Position the holder (2) to the support pedal (13).
- (4) Install the screw (1).
- (5) Position the microswitch support (14) on the support pedal (13) and install the bolt (6) and (8), washer (7), (9) and (12), and nut (10) and (11).
- (6) Install the rudder position microswitches according to [AMM TASK 27-25-02-400-801-A/400](#).

### J. Follow-on

#### SUBTASK 842-002-A

- (1) Remove the rig pins from the rudder control system.
- (2) Do a check on the rudder position microswitches ([AMM TASK 27-25-02-700-801-A/500](#)).
- (3) Do a check of the rudder pedals auto-shutoff and rudder manual shutoff functions ([AMM TASK 27-25-00-700-801-A/500](#)).
- (4) Close access door 123BL.
- (5) Install the left pedal assembly lining 223HZ ([AMM TASK 25-12-06-400-801-A/400](#)).
- (6) Install the cockpit floor panel 221DF (AMM MPP 06-41-02/100) ([AMM TASK 53-01-01-400-801-A/400](#)).
- (7) Install the pilot seat ([AMM TASK 25-11-01-400-801-A/400](#)).