

## RUDDER PRESSURE SWITCH - REMOVAL/INSTALLATION

*EFFECTIVITY: ALL*

### 1. General

- A. This section gives the procedures to remove and install the pressure switch in the rudder PCU.
- B. There are two pressure switches in the rudder PCU as follows:
- The pressure switch of hydraulic system 1.
  - The pressure switch of hydraulic system 2.
- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
27-23-04-000-801-A	PRESSURE SWITCH - REMOVAL	ALL
27-23-04-400-801-A	PRESSURE SWITCH - INSTALLATION	ALL

TASK 27-23-04-000-801-A

EFFECTIVITY: ALL

## 2. PRESSURE SWITCH - REMOVAL

### A. General

- (1) This task gives the procedures to remove the pressure switches of hydraulic systems 1 and 2 from the rudder system.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
<a href="#">AMM TASK 29-10-00-860-801-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
325	325GR/HR	Vertical stabilizer

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 036</a>	Platform, hydraulic	To get access to the vertical stabilizer	

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1 pair
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1 pair

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

### I. Preparation

#### **SUBTASK 841-002-A**

- (1) Release the pressure of the hydraulic system ( [AMM TASK 29-10-00-860-801-A/200](#) ).

- (2) On the Circuit Breaker Panel, open the ELEC PUMP 1, ELEC PUMP 2, RUDDER 1, and RUDDER 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (3) Get access to the vertical stabilizer and open access panels 325GR/HR (AMM MPP 06-42-00/100).

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

*SUBTASK 020-002-A*

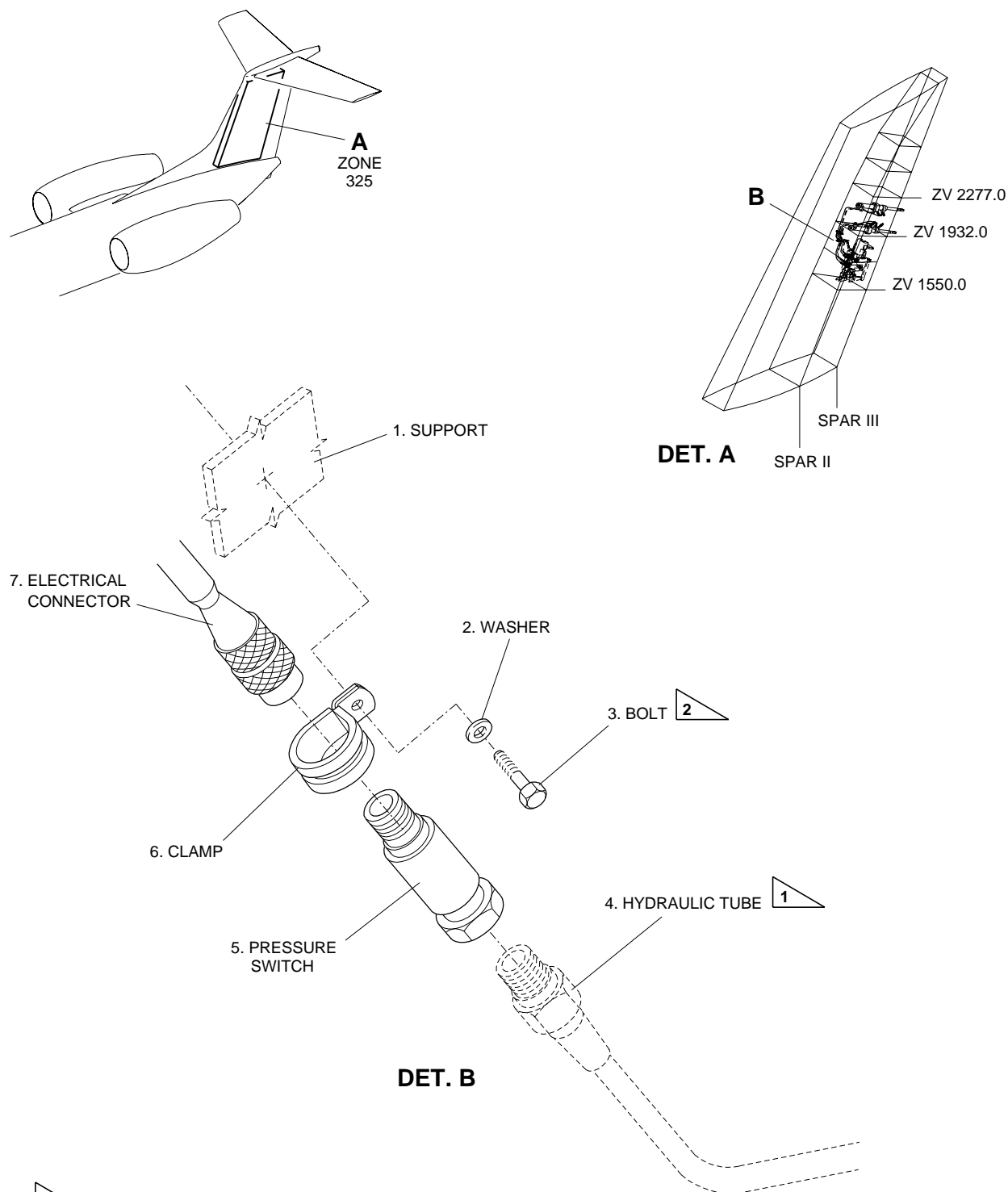
**WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.**

- (1) Disconnect the electrical connectors (7) from the pressure switch (5).
- (2) Remove the bolt (3) which attaches the clamp (6) from the pressure switch (5).
- (3) Remove the clamp (6) from the pressure switch (5).
- (4) Disconnect the pressure switch (5) from the hydraulic tube (4) and put a cap on the tube end.

EFFECTIVITY: ALL

Rudder Pressure Switches - Removal/Installation

Figure 401



1 TORQUE : 30.5 N.m (270 lb.in)

2 TORQUE : 2.8-3.4 N.m (25-30 lb.in)

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TASK 27-23-04-400-801-A

EFFECTIVITY: ALL

### 3. PRESSURE SWITCH - INSTALLATION

#### A. General

- (1) This task gives the procedures to install the pressure switches of hydraulic systems 1 and 2 on the rudder system.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
<a href="#">AMM TASK 27-23-00-700-804-A/500</a>	RUDDER SYSTEM - OPERATIONAL CHECK
<a href="#">AMM TASK 29-10-00-860-803-A/200</a>	HYDRAULIC SYSTEM - BLEED OF AIR

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
325	325GR/HR	Vertical stabilizer

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 036</a>	Hydraulic Platform	To get access to the vertical stabilizer	
Commercially available	Torque wrench (see Figure 401)	To apply the torques	

#### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1 pair
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1 pair

#### F. Consumable Materials

Not Applicable

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Vertical stabilizer

I. Installation (Figure 401)

*SUBTASK 420-002-A*

**WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.**

- (1) Install the pressure switch (5) on the clamp (6).
- (2) Install the clamp (6) to its support (1).
- (3) Install the pressure switch (5) to the hydraulic tube (4).
- (4) Apply the tightening torques to the nuts as shown in Figure 401.
- (5) Connect the electrical connector (7) to the pressure switch (5).

J. Follow-on

*SUBTASK 842-002-A*

- (1) On the Circuit Breaker Panel, close the ELEC PUMP 1, ELEC PUMP 2, RUDDER 1, and RUDDER 2 circuit breakers, and remove the DO-NOT-CLOSE tag from them.
- (2) Bleed the air from the hydraulic system lines ( [AMM TASK 29-10-00-860-803-A/200](#)).
- (3) Make sure that there are no leaks in the pressure switch.
- (4) Do step J.(2) of the operational check of the rudder system ( [AMM TASK 27-23-00-700-804-A/500](#)).
- (5) Close access panels 325GR/HR (AMM MPP 06-42-00/100).
- (6) Remove platform GSE 036.