

## MAIN-DOOR ACTUATION-SYSTEM PRESSURE SWITCH - REMOVAL/INSTALLATION

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

### 1. General

- A. This section gives the procedures to remove and install the pressure switch of the main-door actuation system.
- 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
52-12-03-000-801-A	MAIN-DOOR ACTUATION-SYSTEM PRES-SURE SWITCH - REMOVAL	AIRCRAFT WITH AIR-STAIRS DOOR
52-12-03-400-801-A	MAIN-DOOR ACTUATION-SYSTEM PRES-SURE SWITCH - INSTALLATION	AIRCRAFT WITH AIR-STAIRS DOOR

TASK 52-12-03-000-801-A

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

## 2. MAIN-DOOR ACTUATION-SYSTEM PRESSURE SWITCH - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the pressure switch of the main-door actuation system.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 29-10-00-860-802-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Nose hydraulic compartment

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

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

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment

### I. Preparation

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

- (1) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Open access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).

- (3) Depressurize the hydraulic system ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Fully release the pressure in the fluid chamber of the hydraulic accumulator of the main-door actuation system. For this, open the discharge valve and monitor the pressure gage until it shows the nitrogen precharge.
- (5) Slowly open the charging valve of the nitrogen chamber of the hydraulic accumulator to let all pressure in it go out.

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

*SUBTASK 020-002-A*

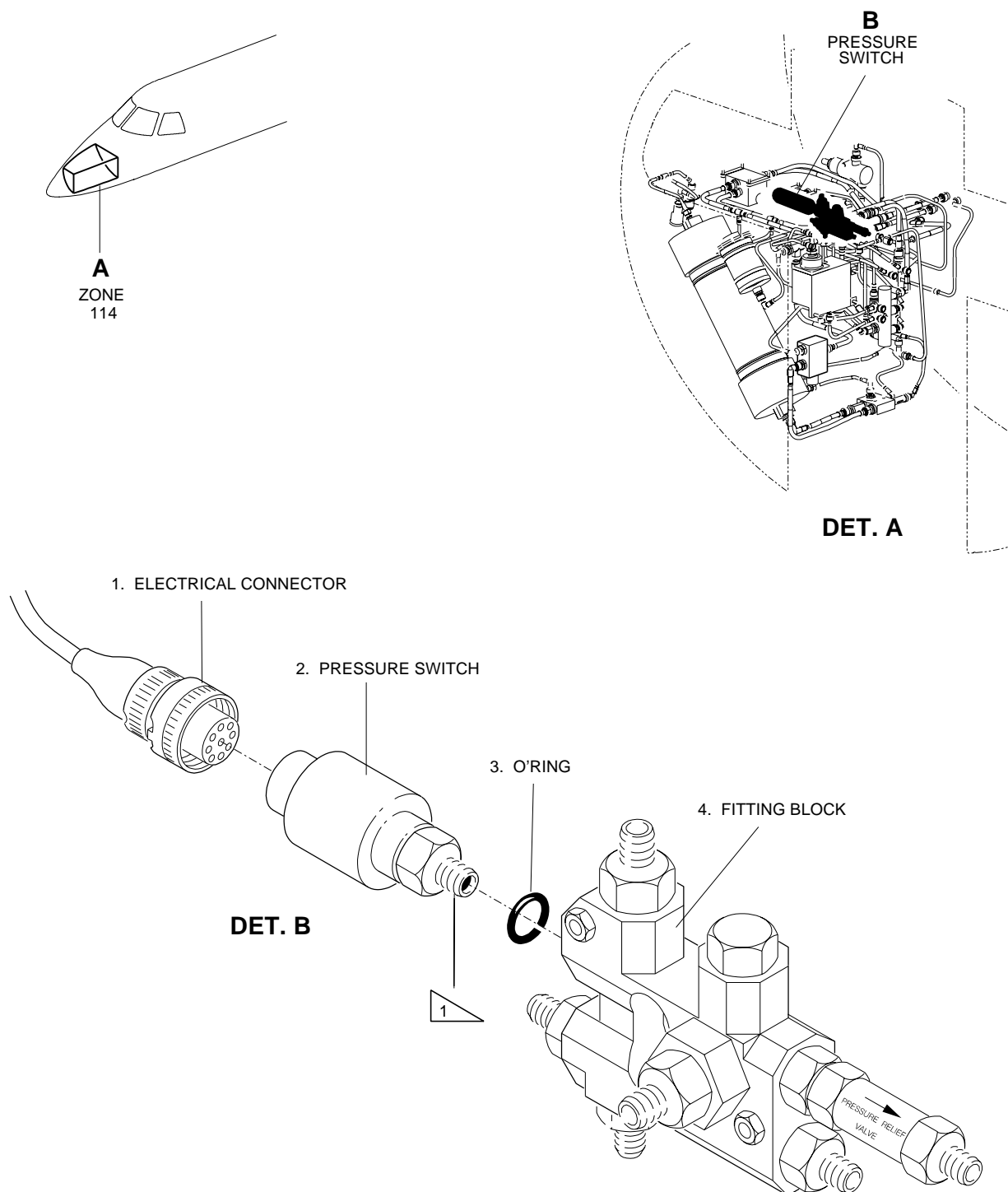
**WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL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


- (1) Disconnect the electrical connector (1).
- (2) Remove the pressure switch (2) from the fitting block (4).
- (3) Remove and discard the old O-ring (3).

**EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR**

**Pressure Switch of the Main-Door Actuation System - Removal/Installation**

**Figure 401**



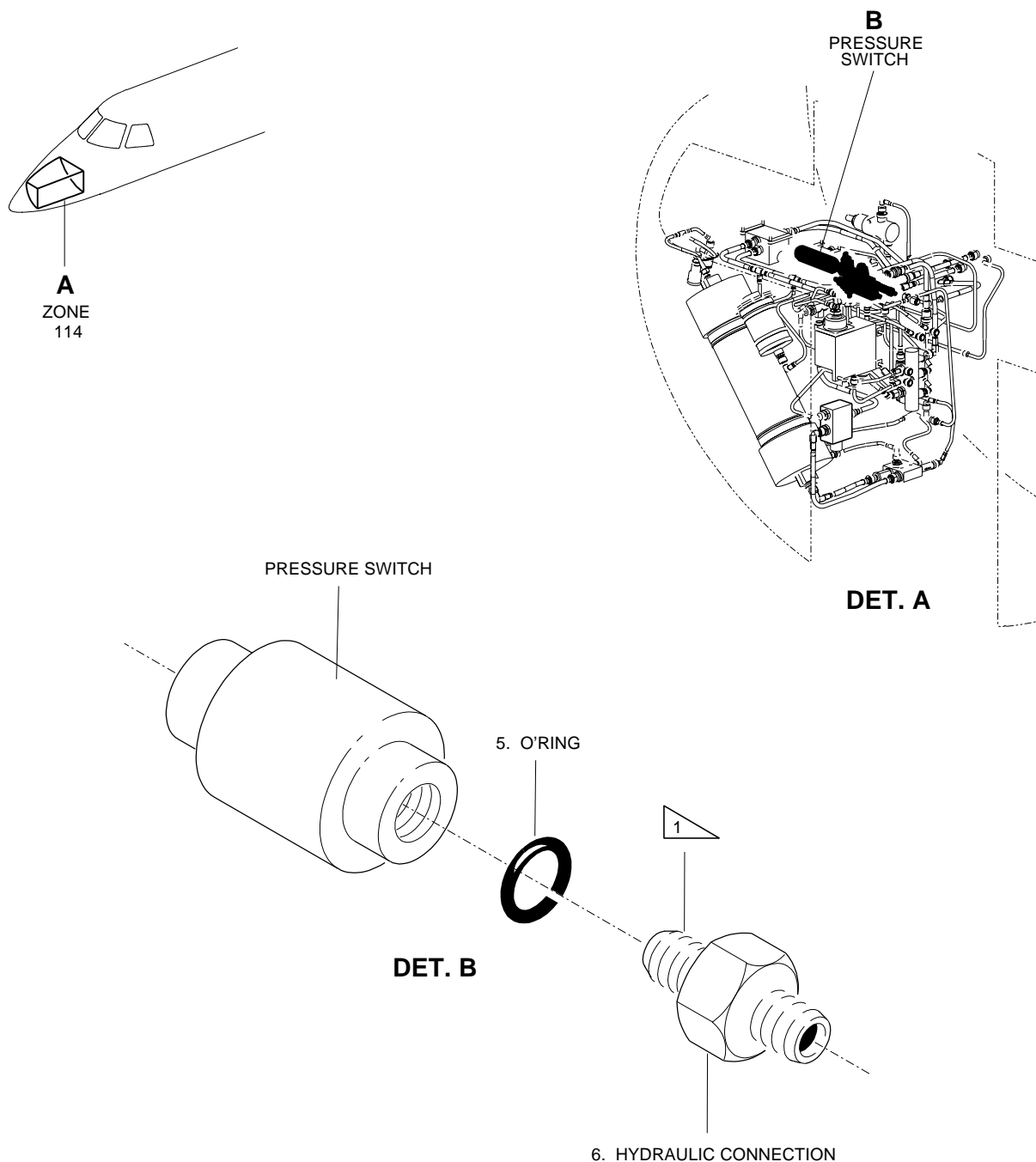

**TORQUE: 10.73 – 11.86 N.m (95 – 105 lb.in).**

EM145AMM520008C.DGN

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

Pressure Switch of the Main-Door Actuation System - Removal/Installation

Figure 402



1 TORQUE: 10.73 – 11.86 N.m (95 – 105 lb.in).

EM145AMM520009B.DGN

TASK 52-12-03-400-801-A

*EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR*

### 3. MAIN-DOOR ACTUATION-SYSTEM PRESSURE SWITCH - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the pressure switch of the main-door actuation system.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 12-13-06-600-801-A/300</a>	LANDING GEAR AND MAIN DOOR ACCUMULATOR - CHARGE
<a href="#">AMM TASK 29-10-00-860-802-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
<a href="#">AMM TASK 52-12-03-700-801-A/500</a>	MAIN-DOOR ACTUATION-SYSTEM PRESSURE SWITCH - OPERATIONAL TEST
IPC 52-12-00	MAIN DOOR - LIFTING AND LOWERING SYSTEM

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Nose hydraulic compartment

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

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

#### F. Consumable Materials

Not Applicable

#### G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 52-12-00	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment

I. Preparation (Figure 402)

*SUBTASK 841-003-A*

- (1) Remove and keep the hydraulic connection (6).
- (2) Remove and discard the old O-ring (5).
- (3) Install the new O-ring (5).
- (4) Install the hydraulic connection (6). Apply a torque of  $100 \pm 5$  lb.in.

J. 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) Put the new O-ring (3) in the hydraulic connection of the pressure switch (2).
- (2) Install the pressure switch (2) to the fitting block (4). Apply a torque of  $100 \pm 5$  lb.in.
- (3) Connect the electrical connector (1).

K. Follow-on

*SUBTASK 842-002-A*

- (1) On the circuit breaker panel, close the ELEC PUMP 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Charge the nitrogen chamber of the hydraulic accumulator ([AMM TASK 12-13-06-600-801-A/300](#)).
- (3) Pressurize hydraulic system 1 ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Do a check on the pressure switch for leaks.
- (5) Do an operational test of the pressure switch ( [AMM TASK 52-12-03-700-801-A/500](#)).
- (6) Close access panel 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).

