

PRESSURE SWITCH (ACCUMULATOR LOW PRESSURE) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove, install, deactivate and reactivate the pressure switch of the emergency/parking brake 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
32-44-05-000-801-A	PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - REMOVAL	ALL
32-44-05-400-801-A	PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - INSTALLATION	ALL
32-44-05-040-801-A	PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - DEACTIVATION PROCEDURE	ALL
32-44-05-440-801-A	PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - REACTIVATION PROCEDURE	ALL

TASK 32-44-05-000-801-A

EFFECTIVITY: ALL

2. PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the pressure switch of the emergency/parking brake system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 32-44-02-910-801-A/200	HYDRAULIC ACCUMULATOR EMERGENCY/PARKING BRAKE - RELEASE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193CR	Hydraulic compartment 2

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	Hydraulic compartment 2

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the ELEC PUMP 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Fully release the pressure from the fluid chamber of the emergency/parking brake-system hydraulic accumulator ([AMM TASK 32-44-02-910-801-A/200](#)).

- (3) Remove access panel 193CR of hydraulic compartment 2. Refer to AMM MPP 06-41-02/100.
- (4) 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](#))

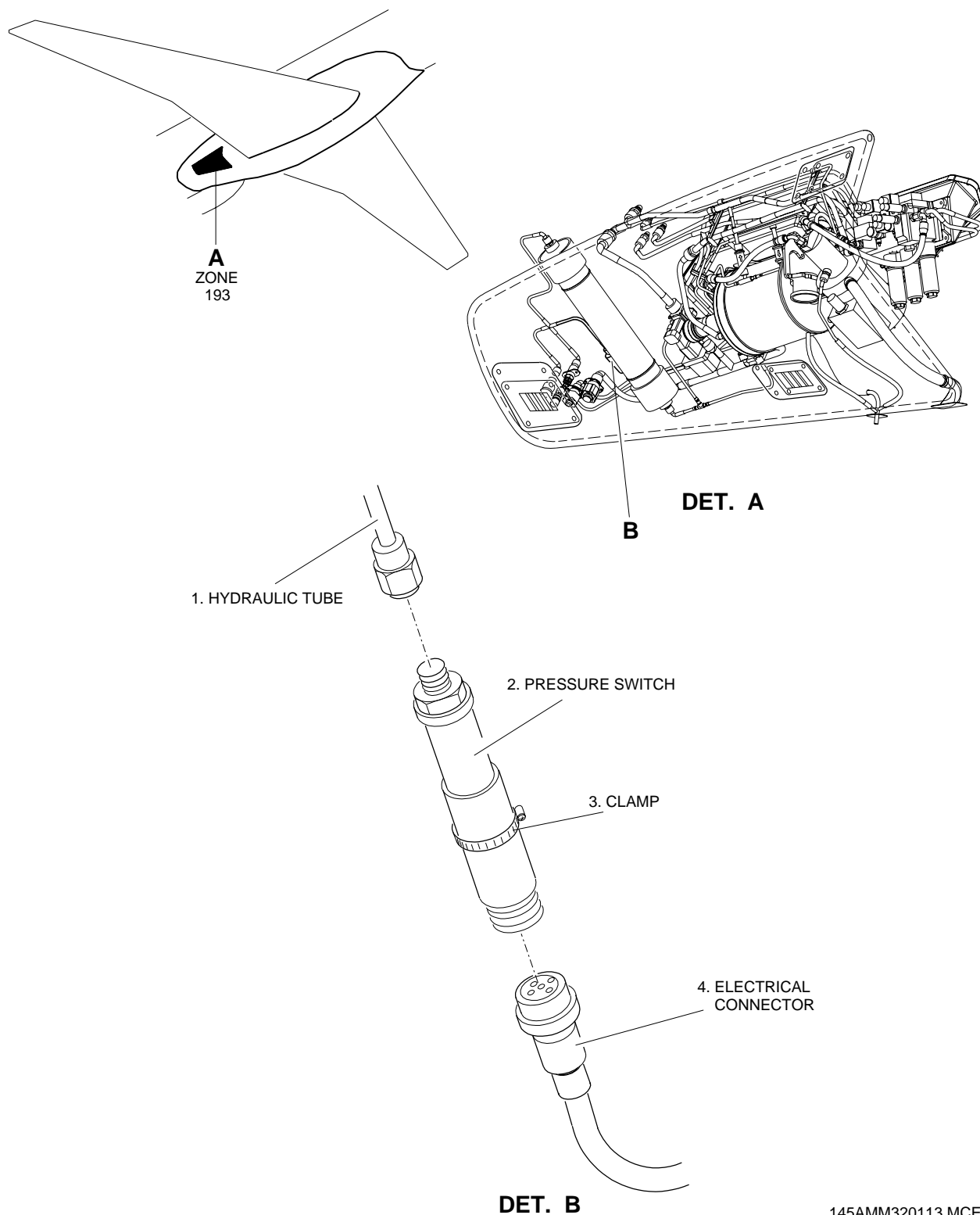
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (4).
- (2) Disconnect the hydraulic tube (1).
- (3) Loosen the clamp (3).
- (4) Remove the pressure switch (2).

EFFECTIVITY: ALL

Pressure Switch of the Emergency/Parking Brake System - Removal/Installation

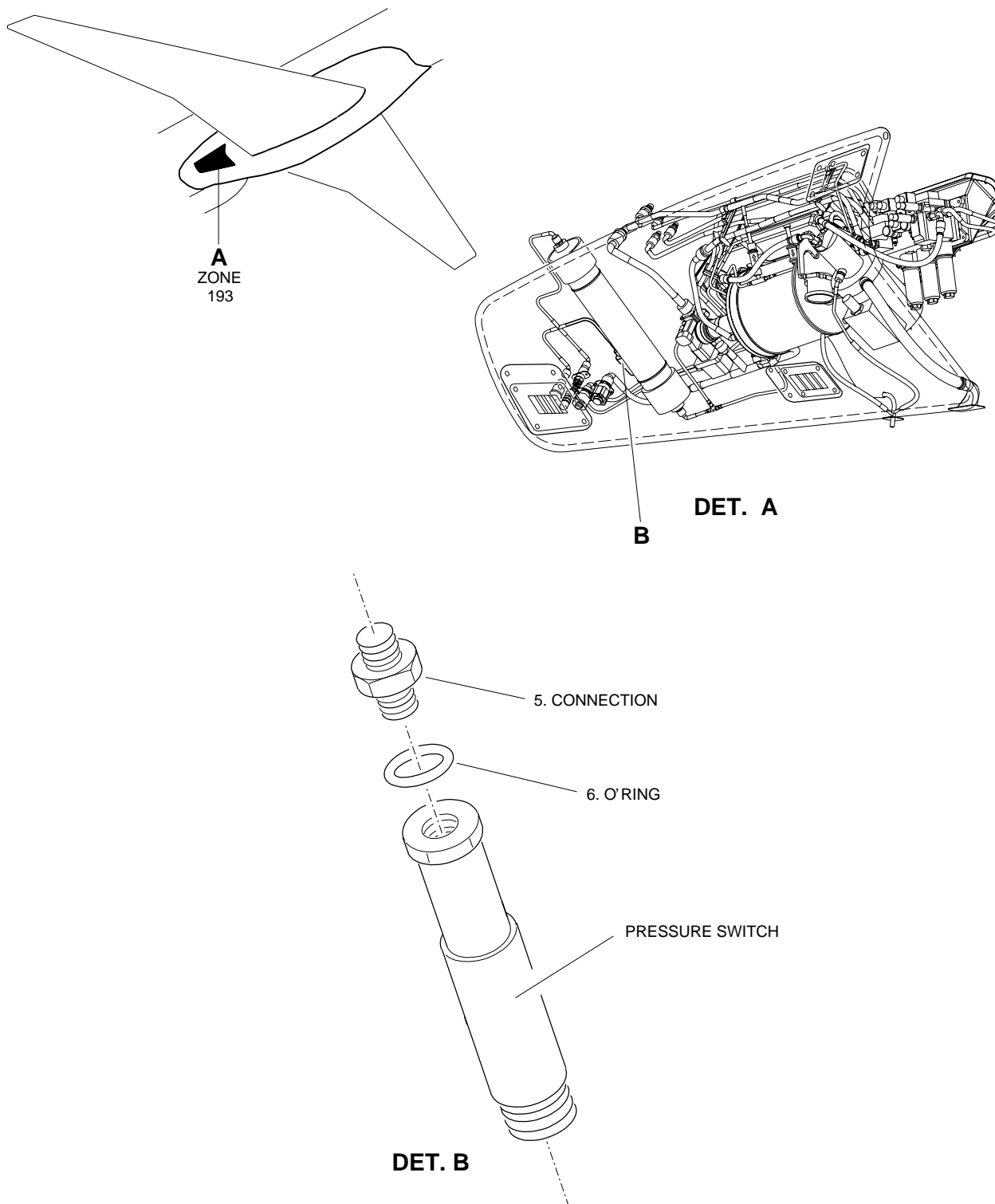
Figure 401



EFFECTIVITY: ALL

Pressure Switch of the Emergency/Parking Brake System - Removal/Installation

Figure 402



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TASK 32-44-05-400-801-A

EFFECTIVITY: ALL

3. PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the pressure switch of the emergency/parking brake system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR
AMM TASK 32-44-02-600-801-A/300	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
IPC 32-44-05	PRESSURE SWITCH

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193CR	Hydraulic compartment 2

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

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

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 32-44-05	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic compartment 2

I. Preparation (Figure 402)

SUBTASK 841-003-A

- (1) Remove and keep the fitting (5).
- (2) Remove and discard the old O-ring (6).
- (3) Install the new O-ring (6).
- (4) Install the fitting (5).

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the pressure switch (2) in position in the clamp (3).
- (2) Connect the hydraulic tube (1).
- (3) Connect the electrical connector (4).
- (4) Tighten the clamp (3).

K. Follow-on

SUBTASK 842-002-A

- (1) Pressurize the nitrogen chamber of the hydraulic accumulator ([AMM TASK 32-44-02-600-801-A/300](#)).
- (2) On the circuit breaker panel, close the ELEC PUMP 2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) Pressurize hydraulic system 2 ([AMM TASK 29-10-00-860-801-A/200](#)).
- (4) Bleed the air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (5) Do a check on the pressure switch for leaks.
- (6) Read the accumulator pressure-gage indication. The pressure gage must show 2900 ± 200 psi
- (7) Install access panel 193CR of hydraulic compartment 2. Refer to AMM MPP 06-41-02/100.

TASK 32-44-05-040-801-A

EFFECTIVITY: ALL

4. PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - DEACTIVATION PROCEDURE

A. General

- (1) This task refers to item 32-44-05 - Accumulator Low Pressure Switch of the DDPM.
- (2) It is permitted to operate the aircraft with the accumulator low pressure switch unserviceable if you do a check before each flight day and see that the accumulator charge is normal.

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193CR	Hydraulic compartment 2

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic compartment 2

H. Deactivation Procedure

SUBTASK 040-002-A

- (1) Put chocks at the landing gear wheels.
- (2) Operate the Emergency/Parking Brake handle a minimum of ten times.
NOTE: To prevent hydraulic fluid transference from system 1 to system 2 or vice versa, first apply brakes with the pedals and pull or release the emergency/parking brake handle.
- (3) Make sure that the accumulator pressure gage reading is between 2200 and 2500 psi (nitrogen precharge).
- (4) Attach an "EMRG BR LO PRES MESSAGE INOP" tag to the EICAS Bezel.
- (5) Write in the aircraft technical logbook that you did the Deactivation Procedure for the accumulator low-pressure switch.

TASK 32-44-05-440-801-A

EFFECTIVITY: ALL

5. PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - REACTIVATION PROCEDURE

A. General

(1) This task refers to item 32-44-05 - Accumulator Low Pressure Switch of the DDPM.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-44-05-000-801-A/400	PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - REMOVAL
AMM TASK 32-44-05-400-801-A/400	PRESSURE SWITCH OF THE EMERGENCY/PARKING BRAKE SYSTEM - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193CR	Hydraulic compartment 2

D. Tools and Equipment

Not Applicable

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	Hydraulic compartment 2

I. Reactivation Procedure

SUBTASK 440-002-A

- (1) Remove the unserviceable accumulator low-pressure switch. Refer to [AMM TASK 32-44-05-000-801-A/400](#).
- (2) Install an accumulator low-pressure switch that you know that is in good condition. Refer to [AMM TASK 32-44-05-400-801-A/400](#).
- (3) Remove the “EMRG BR LO PRES MESSAGE INOP” tag from the EICAS bezel.
- (4) Write in the aircraft technical logbook that you did the Reactivation Procedure for the Accumulator Low-Pressure Switch

