

## PRESSURE SWITCH (EMERGENCY/PARKING BRAKE) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures for removal/installation and deactivation/reactivation of the pressure switch of the emergency/parking brake system (BRAKE ON light).
- 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
32-44-07-000-801-A	PRESSURE SWITCH - REMOVAL	ALL
32-44-07-400-801-A	PRESSURE SWITCH - INSTALLATION	ALL
32-44-07-040-801-A	PRESSURE SWITCH - DEACTIVATION PROCEDURE	ALL
32-44-07-440-801-A	PRESSURE SWITCH OF THE EMERGEN- CY/PARKING BRAKE SYSTEM - REACTI- VATION PROCEDURE	ALL

TASK 32-44-07-000-801-A

EFFECTIVITY: ALL

## 2. PRESSURE SWITCH - REMOVAL

### A. General

- (1) This task gives the procedures to remove the pressure switch.
- (2) Usually, it is not necessary to change the heat-shrinkable boot (refer to [Figure 401](#)). But, if it is necessary to replace the electrical connector (4) or if it has signs of damage, contamination, or corrosion, do the maintenance procedures for the electrical connector and change the heat-shrinkable boot as follows:

To clean the electrical connector, refer to WM 20-50-00/201.

To replace the electrical connector, refer to WM 20-50-01/201.

To change the heat-shrinkable boot, refer to [AMM TASK 32-60-00-910-802-A/200](#).

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 32-00-01-910-801-A/200</a>	LG SAFETY PIN - INSTALLATION AND REMOVAL
<a href="#">AMM TASK 32-44-02-910-801-A/200</a>	HYDRAULIC ACCUMULATOR EMERGENCY/PARKING BRAKE - RELEASE
<a href="#">AMM TASK 32-60-00-910-802-A/200</a>	CONNECTOR OF THE PRESSURE SWITCH - PROTECTION
WM 20-50-00/201	-
WM 20-50-01/201	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532		MLG BAY

### 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 Hands	1
Commercially available	Rubber Goggles, Resistant to Phosphate Ester-Base Fluid	Protection for Eyes	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	MLG BAY

I. Preparation

*SUBTASK 841-002-A*

- (1) Make sure that the safety pins of the landing gears are installed ( [AMM TASK 32-00-01-910-801-A/200](#) ).
- (2) On the circuit breaker panel, open the ELEC PUMP 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) 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](#) ).

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

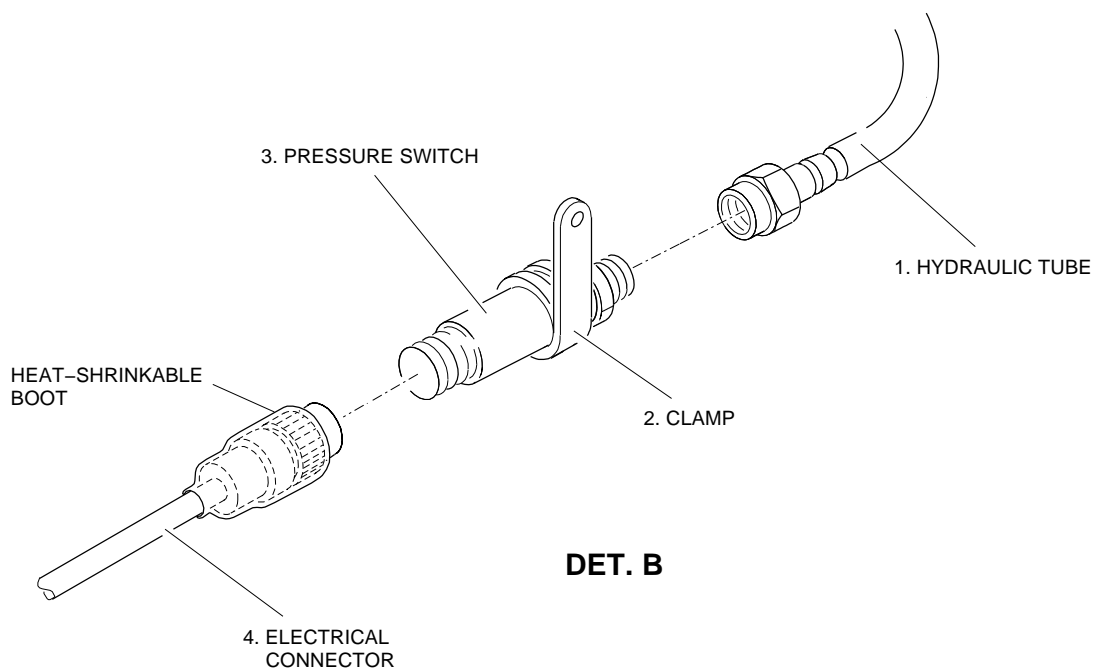
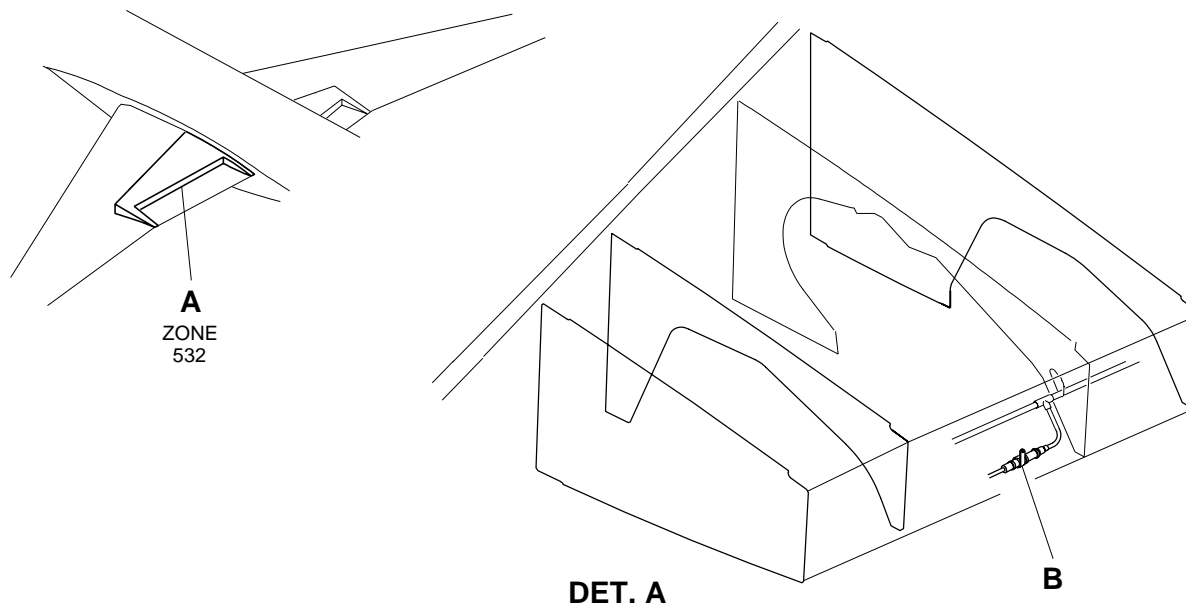
*SUBTASK 020-002-A*

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

EFFECTIVITY: ALL

Pressure Switch - Removal/Installation

Figure 401

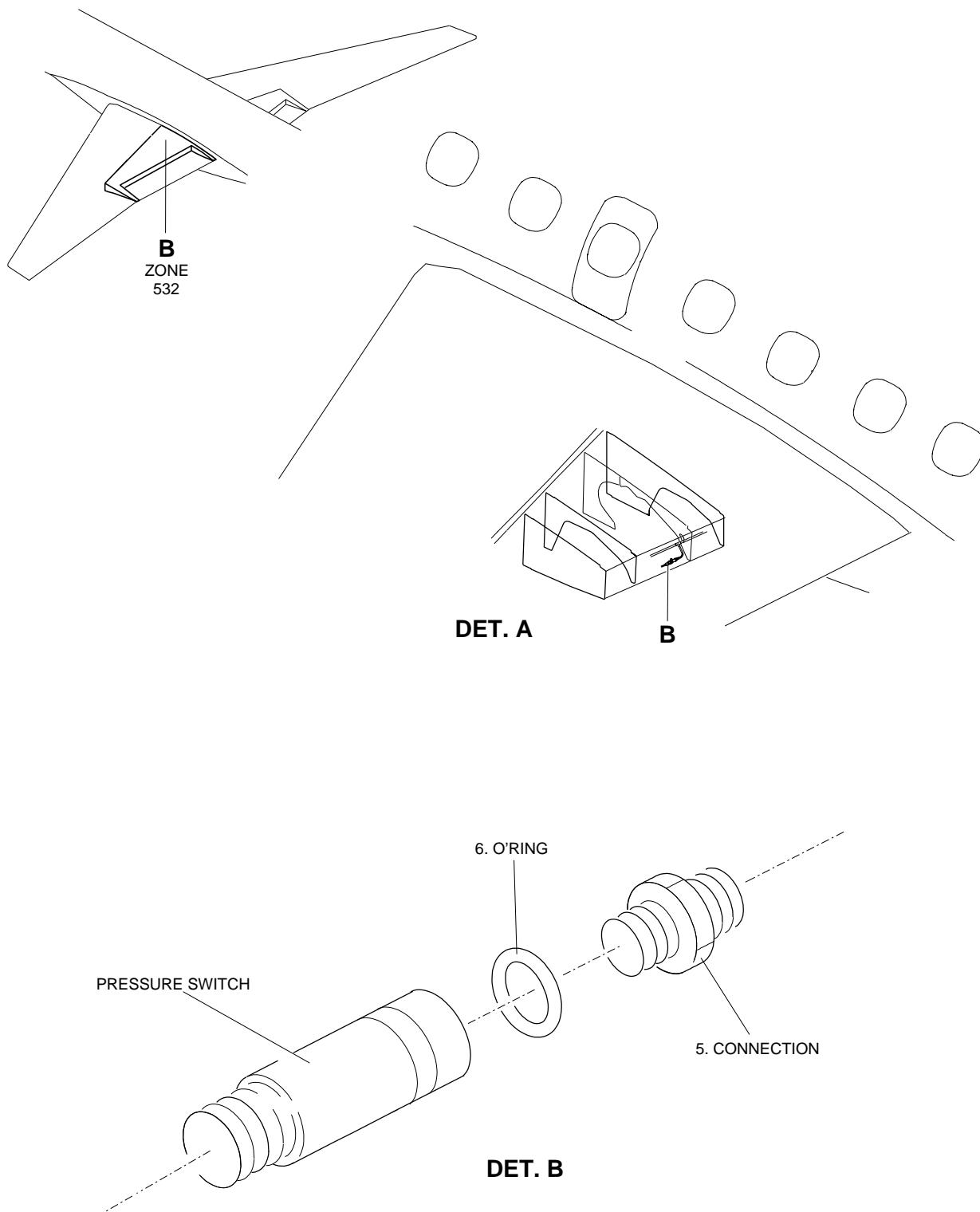


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EFFECTIVITY: ALL

Connections of the Pressure Switch - Removal/Installation

Figure 402



145AMM320108.MCE B

TASK 32-44-07-400-801-A

EFFECTIVITY: ALL

### 3. PRESSURE SWITCH - INSTALLATION

#### A. General

- (1) This task gives the procedure to install the pressure switch.
- (2) Usually, it is not necessary to change the heat-shrinkable boot (refer to Figure 401). But, if it is necessary to replace the electrical connector (4) or if it has signs of damage, contamination, or corrosion, do the maintenance procedures for the electrical connector and change the heat-shrinkable boot as follows:

To clean the electrical connector, refer to WM 20-50-00/201.

To replace the electrical connector, refer to WM 20-50-01/201.

To change the heat-shrinkable boot, refer to [AMM TASK 32-60-00-910-802-A/200](#).

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 29-10-00-860-801-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
<a href="#">AMM TASK 32-40-00-800-801-A/200</a>	NORMAL BRAKE AND EMERGENCY PARKING BRAKE SYSTEMS - BLEEDING
<a href="#">AMM TASK 32-44-02-600-801-A/300</a>	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
<a href="#">AMM TASK 32-60-00-910-802-A/200</a>	CONNECTOR OF THE PRESSURE SWITCH - PROTECTION
IPC 32-44-07	PRESSURE SWITCH
WM 20-50-00/201	-
WM 20-50-01/201	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532		MLG BAY

#### 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 Hands	1
Commercially available	Rubber Goggles, Resistant to Phosphate Ester-Base Fluid	Protection for Eyes	1

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
MIL-L-87177	Lektro-Tech Super Corr-A	AR

G. Expendable Parts

<i>ITEM</i>	<i>IPC REFERENCE (VENDOR REFERENCE)</i>	<i>QTY</i>
O-ring	IPC 32-44-07	1

H. Persons Recommended

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	MLG BAY

I. Preparation (Figure 402)

**SUBTASK 841-003-A**

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

J. Installation Figure 401

**SUBTASK 420-002-A**

- (1) Install the pressure switch (3).
- (2) Tighten the clamp (2).
- (3) Connect the hydraulic tube (1).
- (4) If the electrical connector (4) has signs of damage, contamination, or corrosion, do the maintenance procedures on the electrical connector. Refer to [AMM TASK 32-60-00-910-802-A/200](#).

**WARNING: DO NOT GET LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A IN YOUR MOUTH OR EYES, OR ON YOUR SKIN. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A. KEEP LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A AWAY FROM SPARKS, FLAME, AND HEAT. LUBRICANT AND ANTICORROSIVE FILM PN LEKTRO-TECH SUPER CORR-A IS A POISONOUS AND FLAMMABLE SUBSTANCE.**

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

NOTE: Before you connect the connector, apply Lektro-Tech Super Corr-A into the plug connector to prevent corrosion and clean the contacts.

K. Follow-on

*SUBTASK 842-002-A*

- (1) Pressurize the Emergency/Parking brake 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) Do a check on the pressure switch for leakage.
- (5) Bleed the normal brake and emergency parking brake systems ( [AMM TASK 32-40-00-800-801-A/200](#)).
- (6) Operate the Emergency/Parking Brake handle and make sure that the BRAKE ON light comes on.

NOTE: To prevent hydraulic fluid transference from system 1 to system 2 or vice versa, first apply brakes with the pedals and then pull or release the emergency/parking brake handle.



TASK 32-44-07-040-801-A  
EFFECTIVITY: ALL

#### 4. PRESSURE SWITCH - DEACTIVATION PROCEDURE

##### A. General

- (1) This task refers to item 32-44-07 - Brake On Lights of the DDPM.
- (2) It is permitted to operate the aircraft with the pressure switch (Brake on light) unserviceable if the emergency/parking brake system operates normally.

##### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 49-10-00-910-802-A/200</a>	APU - START
<a href="#">AMM TASK 49-10-00-910-803-A/200</a>	APU - SHUTDOWN
<a href="#">AMM TASK 49-13-00-910-802-A/200</a>	APU - START
<a href="#">AMM TASK 49-13-00-910-803-A/200</a>	APU - SHUTDOWN

##### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532		MLG BAY

##### 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	MLG BAY

##### I. Deactivation Procedure

###### SUBTASK 040-002-A

- (1) Parking-brake system check:
  - (a) Shut the engines down and chock the aircraft.
  - (b) Start the APU ( [AMM TASK 49-10-00-910-802-A/200](#) for APU T-62T-40C11 or [AMM TASK 49-13-00-910-802-A/200](#) for APU T-62T-40C14, as applicable).

- (c) Set the two power levers to the IDLE position.
- (d) Set the electric pump of hydraulic system 2 to on.
- (e) Cycle the Parking Brake handle while other person looks to see that the brake actuating pistons for all brake assemblies operate.

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.

- (f) Release the parking brakes.
  - (g) Advance the thrust levers to the MAX position.
  - (h) Make sure that the TAKEOFF BRAKES voice message does not sound and the NO TAKEOFF CONFIG message is not shown on the EICAS.
  - (i) Apply the parking brake and make sure that the TAKEOFF BRAKES voice message sounds and the NO TAKEOFF CONFIG message is shown on the EICAS.
  - (j) Retard the power lever and set the hydraulic pump to off.
  - (k) Shut down the APU ( [AMM TASK 49-10-00-910-803-A/200](#) for APU T-62T-40C11 or [AMM TASK 49-13-00-910-803-A/200](#) for APU T-62T-40C14, as applicable).
- (2) Attach an "INOP" tag to the related light.
  - (3) Write in the aircraft technical logbook that you did the deactivation procedure for the emergency/parking brake pressure switch.

TASK 32-44-07-440-801-A

EFFECTIVITY: ALL

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

A. General

(1) This task refers to item 32-44-07 - Brake On Lights of the DDPM.

B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 32-44-07-000-801-A/400</a>	PRESSURE SWITCH - REMOVAL
<a href="#">AMM TASK 32-44-07-400-801-A/400</a>	PRESSURE SWITCH - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532		MLG BAY

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	MLG BAY

I. Reactivation Procedure

**SUBTASK 440-002-A**

- (1) Remove the unserviceable pressure switch. Refer to [AMM TASK 32-44-07-000-801-A/400](#).
- (2) Install a pressure switch that you know that is in good condition. Refer to [AMM TASK 32-44-07-400-801-A/400](#).
- (3) Remove the "INOP" tag from the related light.
- (4) Write in the aircraft technical logbook that you did the reactivation procedure for the emergency/parking-brake pressure switch.

