



AIRCRAFT MAINTENANCE MANUAL

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 |



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

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](#)).



AIRCRAFT MAINTENANCE MANUAL

- (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](#))

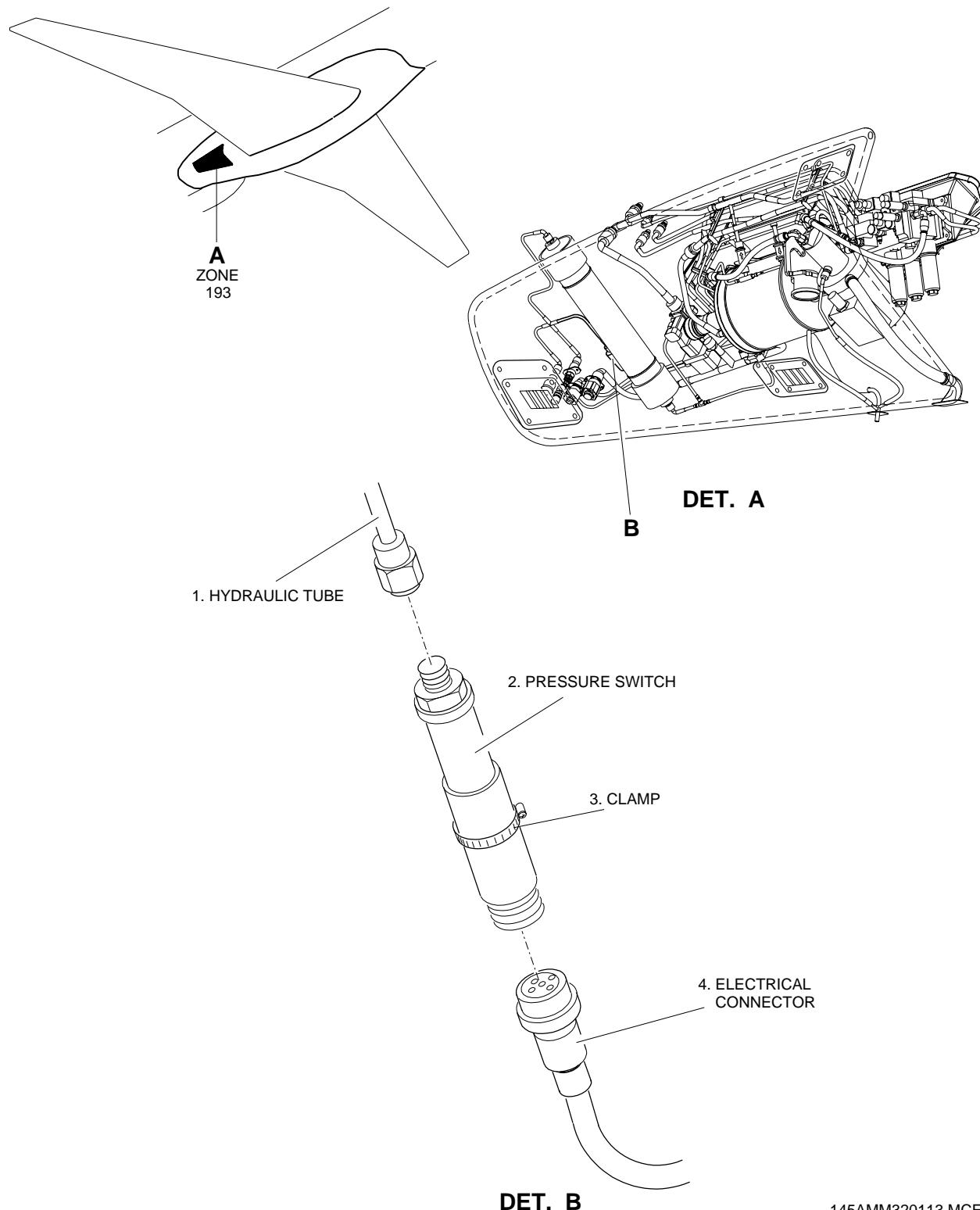
SUBTASK 020-002-A

- (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

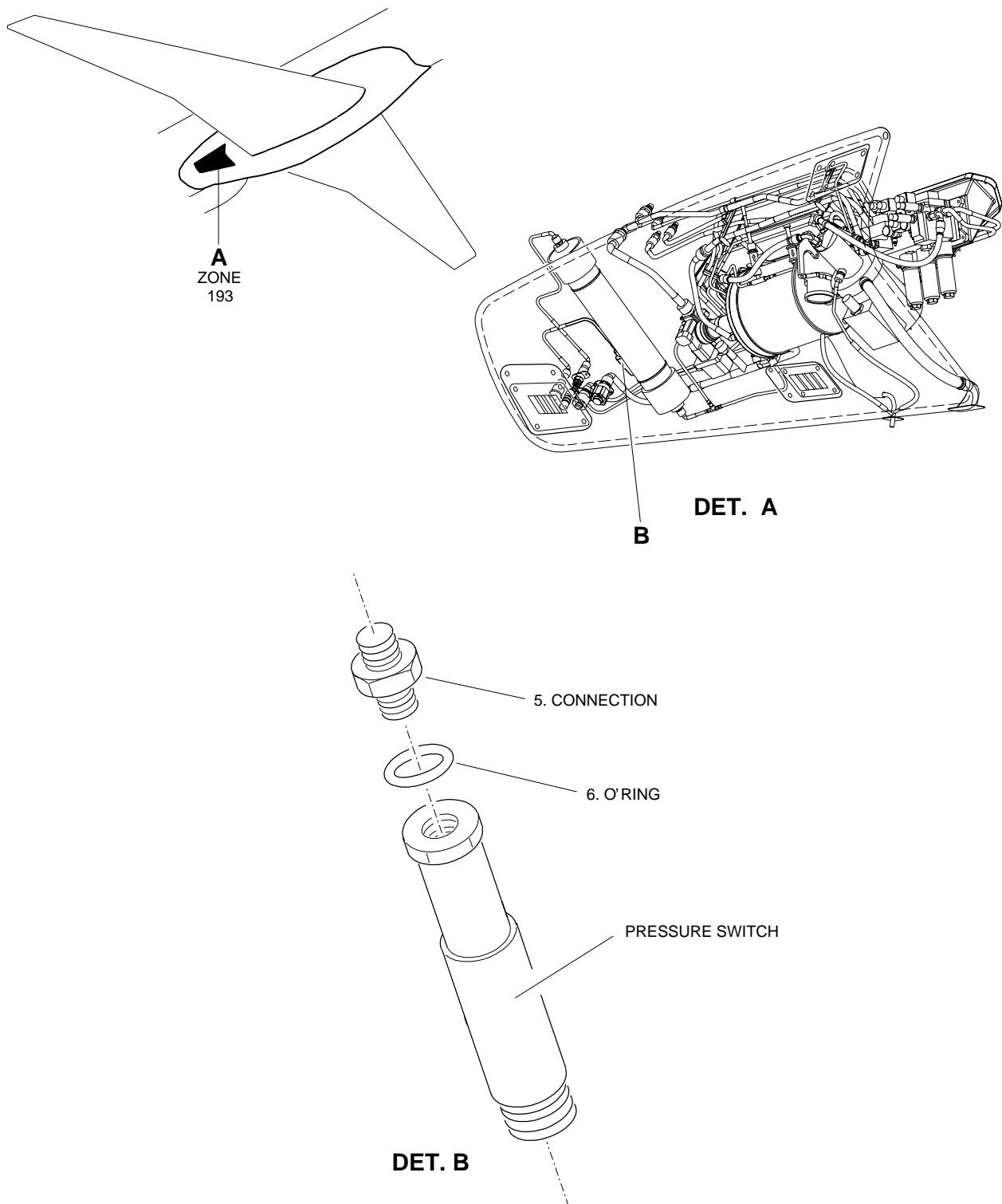


145AMM320113.MCE A

EFFECTIVITY: ALL

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

Figure 402



145AMM320114.MCE A



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

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.



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

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

