

PRESSURE TRANSDUCER - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures for removal/installation and deactivation/reactivation of the pressure transducer.
- B. This procedure is applicable to the four pressure transducers (two for the outboard brakes and two for the inboard brakes) installed two in the LH wing stub and two in the RH wing stub.
- C. The pressure transducers of the outboard and the inboard brakes of the LH main landing gear are installed in the LH wing.
- D. The pressure transducers of the outboard and the inboard brakes of the RH main landing gear are installed in the RH wing.
- E. 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
32-41-08-000-801-A	PRESSURE TRANSDUCER - REMOVAL	ALL
32-41-08-400-801-A	PRESSURE TRANSDUCER - INSTALLATION	ALL
32-41-08-040-801-A	PRESSURE TRANSDUCER - DEACTIVATION PROCEDURE	ALL
32-41-08-440-801-A	PRESSURE TRANSDUCER - REACTIVATION PROCEDURE	ALL

TASK 32-41-08-000-801-A

EFFECTIVITY: ALL

2. PRESSURE TRANSDUCER - REMOVAL

A. General

(1) This task gives the procedures to remove the pressure transducer.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM TASK 32-44-02-910-801-A/200	HYDRAULIC ACCUMULATOR EMERGENCY/PARK- ING BRAKE - RELEASE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532	532AB	LH wing
632	632AB	RH wing

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	LH or RH wing

I. Preparation

SUBTASK 841-002-A

- (1) On the Circuit Breaker Panel, open the ELEC PUMP 1 (outboard transducers) or ELEC PUMP 2 (inboard transducers) circuit breakers and attach a DO-NOT-CLOSE tag to them.

- (2) Remove access panel 532AB or panel 632AB ([AMM MPP 06-44-00/100](#)).
- (3) Control the rudder to the left and to the right until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (4) 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](#)).
- (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

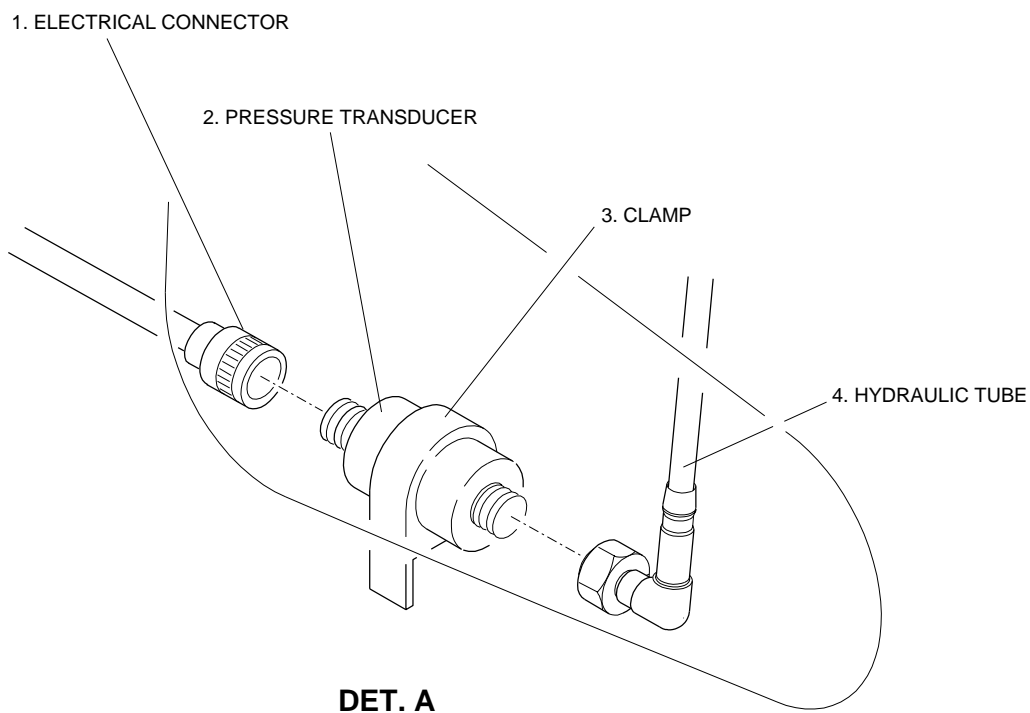
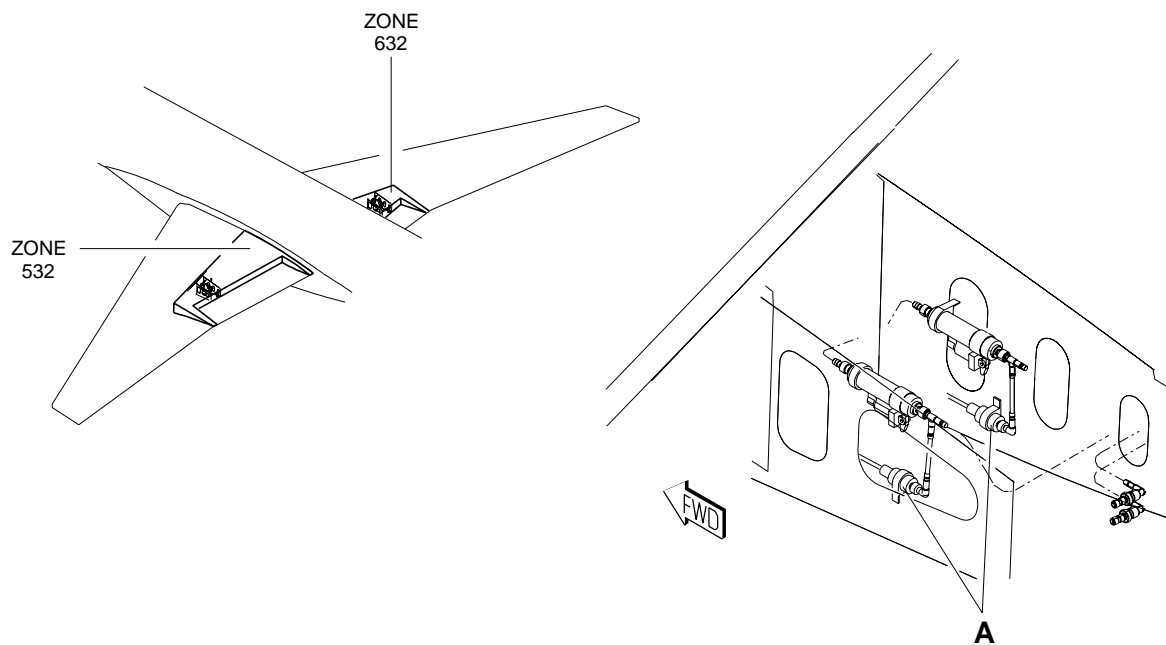
WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL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

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

EFFECTIVITY: ALL

Pressure Transducer - Removal/Installation

Figure 401



145AMM320103.MCE A

TASK 32-41-08-400-801-A
EFFECTIVITY: ALL

3. PRESSURE TRANSDUCER - INSTALLATION

A. General

(1) This task gives the procedures to install the pressure transducer.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-44-00/100	- COMPONENT LOCATION
AMM TASK 32-40-00-800-801-A/200	NORMAL BRAKE AND EMERGENCY PARKING BRAKE SYSTEMS - BLEEDING
AMM TASK 32-44-02-600-801-A/300	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532	532AB	LH wing
632	632AB	RH wing

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	LH or RH wing

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) Put the pressure switch (2) on its clamp.
- (2) Tighten the clamp (3).
- (3) Connect the hydraulic tube (4).

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 LEKTROTECH 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.

- (4) Connect the electrical connector (1).

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

J. Follow-on

SUBTASK 842-002-A

- (1) Install access panel 532AB or panel 632AB ([AMM MPP 06-44-00/100](#)).
- (2) Pressurize the Emergency/Parking brake accumulator ([AMM TASK 32-44-02-600-801-A/300](#)).
- (3) On the Circuit Breaker Panel, close the ELEC PUMP 1 (outboard transducers) or ELEC PUMP 2 (inboard transducers) circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (4) Bleed the Normal Brake and Emergency Parking Brake Systems ([AMM TASK 32-40-00-800-801-A/200](#)).
- (5) Do the functional check of the Main Brake System (TASK 32-41-00-700-801-A).

TASK 32-41-08-040-801-A

EFFECTIVITY: ALL

4. PRESSURE TRANSDUCER - DEACTIVATION PROCEDURE

A. General

- (1) This task refers to item 32-41-08 - Brake Pressure Transducers of the DDPM.
- (2) It is permitted to dispatch the aircraft with one Brake Pressure Transducer inoperative with the BRAKE DEGRADED caution message in view if:
 - only the related PRESS TRANSDUCER FAIL message is shown on the brake system portion of the CMC;
 - there is no external leakage; and
 - the related brake pressure transducer is deactivated.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-41-08-000-801-A/400	PRESSURE TRANSDUCER - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532	532AB	LH wing
632	632AB	RH wing

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	LH or RH wing

I. Deactivation Procedure

SUBTASK 040-002-A

- (1) For access to Brake Pressure Transducers, refer to [AMM TASK 32-41-08-000-801-A/400](#).
- (2) Get access to the related pressure transducer



- (3) Disconnect and stow the electrical connector
- (4) Do a check for no signs of leakage at the pressure port.
- (5) Write in the aircraft technical logbook that you did the deactivation procedure for the brake pressure transducer.

TASK 32-41-08-440-801-A

EFFECTIVITY: ALL

5. PRESSURE TRANSDUCER - REACTIVATION PROCEDURE

A. General

(1) This task refers to item 32-41-08 - Brake Pressure Transducers of the DDPM.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-41-08-000-801-A/400	PRESSURE TRANSDUCER - REMOVAL
AMM TASK 32-41-08-400-801-A/400	PRESSURE TRANSDUCER - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
532	532AB	LH wing
632	632AB	RH wing

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	LH or RH wing

I. Reactivation Procedure

SUBTASK 440-002-A

- (1) For access to the Brake Pressure Transducers, refer to [AMM TASK 32-41-08-000-801-A/400](#).
- (2) Get access to the unserviceable pressure transducer and remove it. Refer to [AMM TASK 32-41-08-000-801-A/400](#).
- (3) Install a pressure transducer that you know that is in good condition. Refer to [AMM TASK 32-41-08-400-801-A/400](#).
- (4) Write in the aircraft technical logbook that you did the reactivation procedure for the brake pressure transducer.

