



AIRCRAFT MAINTENANCE MANUAL

ENGINE ANTI-ICING PRESSURE TRANSDUCER - REMOVAL/INSTALLATION

EFFECTIVITY: POST-MOD. S.B. 145-30-0022

1. General

- A. This section gives the procedures to remove and install the pressure transducer of the Engine Thermal Anti-Icing 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
30-21-06-000-801-A	PRESSURE TRANSDUCER - REMOVAL	POST-MOD. S.B. 145-30-0022
30-21-06-400-801-A	PRESSURE TRANSDUCER - INSTALLA- TION	POST-MOD. S.B. 145-30-0022



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TASK 30-21-06-000-801-A

EFFECTIVITY: POST-MOD. S.B. 145-30-0022

2. PRESSURE TRANSDUCER - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the pressure transducer of the Engine Thermal Anti-Icing System.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-30-00/100	-
AMM TASK 71-11-01-000-801-A/400	ENGINE UPPER COWLING - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412 (LH Upper cowling)	LH Nacelle
422	422 (RH Upper cowling)	RH Nacelle

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the low pressure switch	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH Nacelle

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
- ENG AIR INLET 1: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/ENG AIR INLET 1).



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- ENG AIR INLET 2: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/ENG AIR INLET 2).
 - ENG 1 A/I IND: (Location Tip: ESSENTIAL DC BUS 1/POWERPLANT/ENG 1 A/I IND).
 - ENG 2 A/I IND: (Location Tip: ESSENTIAL DC BUS 2/POWERPLANT/ENG 2 A/I IND).
- (2) Remove LH or RH engine upper cowling 412 or 422 (AMM MPP 06-30-00/100) ([AMM TASK 71-11-01-000-801-A/400](#)).

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

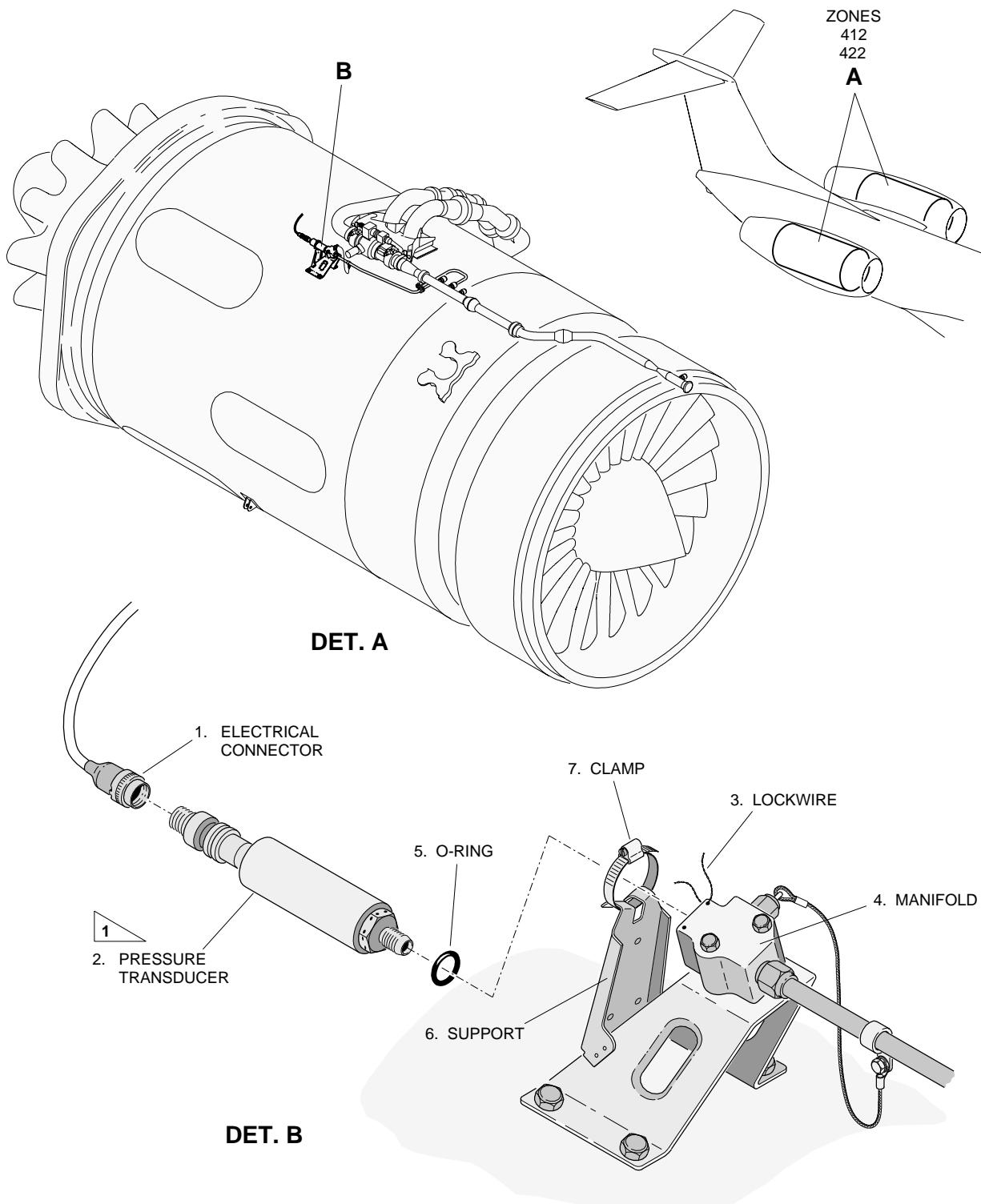
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (1).
- (2) Loosen the clamp (7) to remove the pressure transducer (2).
- (3) Cut the lockwire (3).
- (4) Remove the pressure transducer (2) from the manifold (4).
- (5) Remove and discard the old O-ring (6).

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Pressure Transducer - Removal/Installation

Figure 401



1 TORQUE: 7.32-8.45 N.m (65-75 lbf.in)

145AMM300118.MCE



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TASK 30-21-06-400-801-A

EFFECTIVITY: POST-MOD. S.B. 145-30-0022

3. PRESSURE TRANSDUCER - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the pressure transducer of the Engine Thermal Anti-Icing System.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-30-00/100	-
AMM TASK 71-11-01-400-801-A/400	ENGINE UPPER COWLING - INSTALLATION
IPC 30-20-00	ENGINE THERMAL ANTI-ICING SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412 (LH Upper cowling)	LH Nacelle
422	422 (RH Upper cowling)	RH Nacelle

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C20	Lockwire	AR
Molykote DC-33 Light	Lubricant	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 30-20-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH Nacelle



EMB145 – EMB135

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I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Lightly apply molykote lubricant to the new O-ring (5) and install the pressure transducer (2) in its installation position at the support (6).
- (2) Tighten the clamp (7) to attach the pressure transducer (2).
- (3) Safety the pressure transducer (2) with the lockwire (3).
- (4) Connect the electrical connector (1).

J. Follow-on

SUBTASK 842-002-A

- (1) Install LH or RH engine upper cowling 412 or 422 (AMM MPP 06-30-00/100) ([AMM TASK 71-11-01-400-801-A/400](#)).
- (2) On the overhead Circuit Breaker Panel, close the circuit breakers and remove the DO-NOT-CLOSE tag from them.
 - ENG AIR INLET 1: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/ENG AIR INLET 1).
 - ENG AIR INLET 2: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/ENG AIR INLET 2).
 - ENG 1 A/I IND: (Location Tip: ESSENTIAL DC BUS 1/POWERPLANT/ENG 1 A/I IND).
 - ENG 2 A/I IND: (Location Tip: ESSENTIAL DC BUS 2/POWERPLANT/ENG 2 A/I IND).