



AIRCRAFT MAINTENANCE MANUAL

ENGINE ANTI-ICING LOW PRESSURE SWITCH - REMOVAL/INSTALLATION

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

1. General

- A. This section gives the procedures to remove and install the low pressure switch 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
30-21-02-000-801-A	LOW PRESSURE SWITCH - REMOVAL	PRE-MOD. S.B. 145-30-0022
30-21-02-400-801-A	LOW PRESSURE SWITCH - INSTALLA- TION	PRE-MOD. S.B. 145-30-0022



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TASK 30-21-02-000-801-A

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

2. LOW PRESSURE SWITCH - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the low pressure switch 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 Circuit Breaker Panel, open the ENG AIR INLET 1 and ENG AIR INLET 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (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](#)).



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

SUBTASK 020-002-A

EFFECTIVITY: PRE-MOD. S.B. 145-30-0006

- (1) Disconnect the electrical connector (2).
- (2) Disconnect the tube (7).
- (3) Remove the nut (6), washer (5), and bolt (1) to release the clamp (4).
- (4) Remove the low pressure switch (3).

K. Removal ([Figure 402](#))

SUBTASK 020-003-A

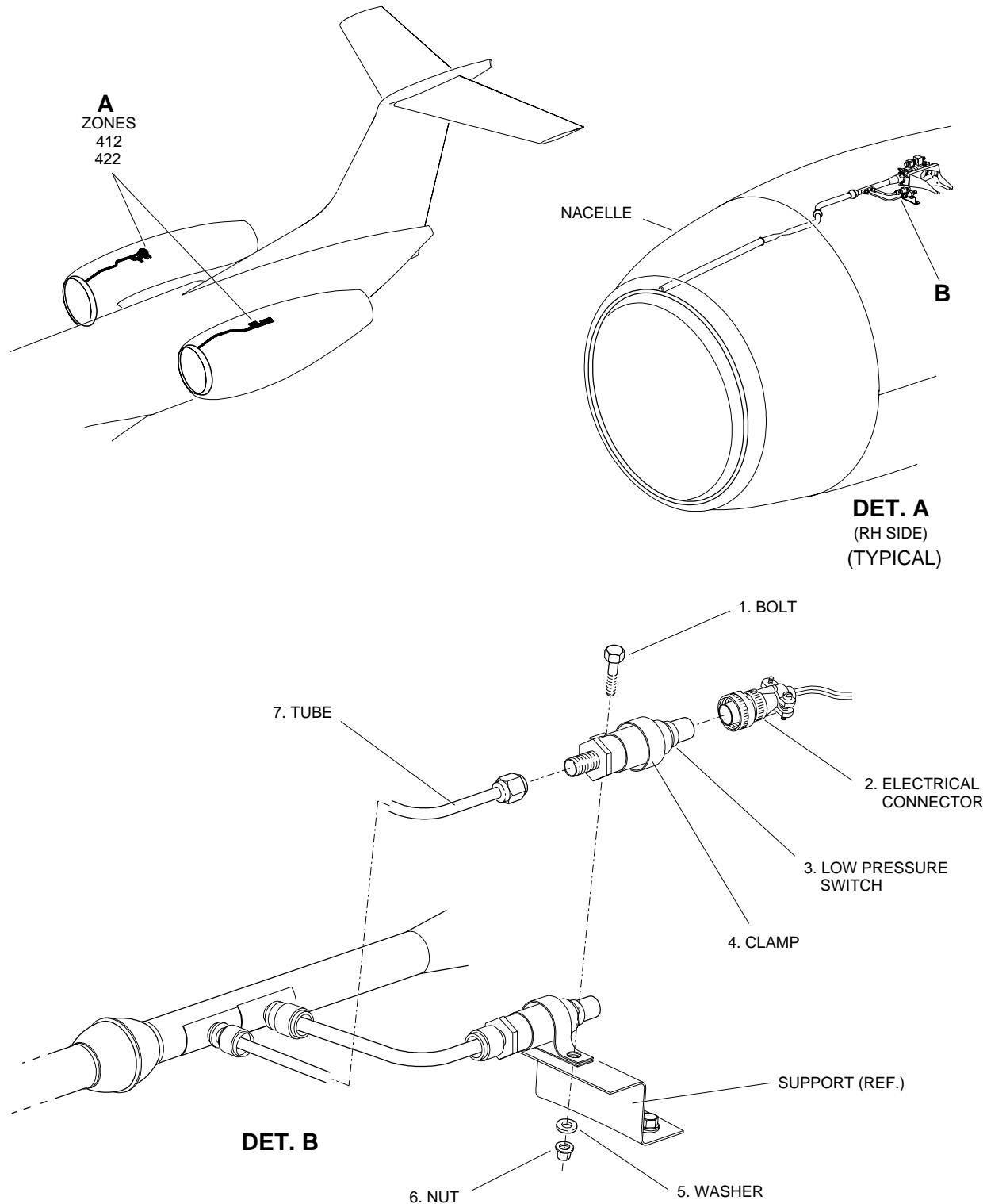
EFFECTIVITY: POST-MOD. S.B. 145-30-0006

- (1) Cut and remove the lockwire (1).
- (2) Disconnect the electrical connector (2).
- (3) Remove the low pressure switch (3) from the manifold (5).
- (4) Remove and discard the O-ring (4).

EFFECTIVITY: PRE-MOD. S.B. 145-30-0006

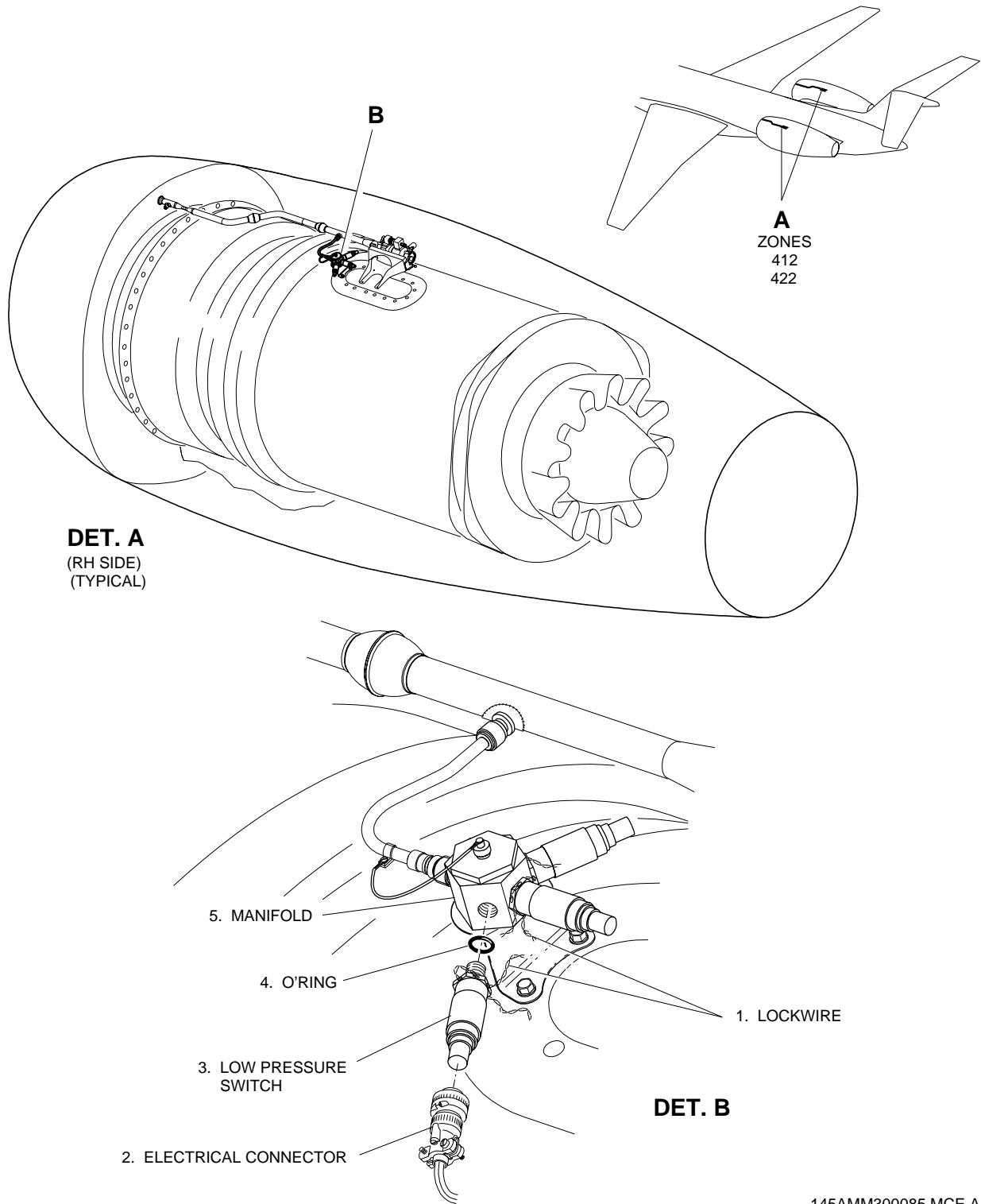
Low Pressure Switch - Removal/Installation

Figure 401



145AMM300051.MCE A

EFFECTIVITY: POST-MOD. S.B. 145-30-0006
Low Pressure Switch - Removal/Installation
Figure 402



145AMM300085.MCE A



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TASK 30-21-02-400-801-A

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

3. LOW PRESSURE SWITCH - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the low pressure switch 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

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
MS3393-4	O-ring	1

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH Nacelle

I. Installation (Figure 401)

SUBTASK 420-002-A

EFFECTIVITY: PRE-MOD. S.B. 145-30-0006

- (1) Put the low pressure switch (3) in the clamp (4).



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- (2) Put the low pressure switch (3) and the clamp (4) on the support at the fuselage.
- (3) Install the bolt (1), washer (5), and nut (6) to attach the clamp (4) and the low pressure switch (3) to the support at the fuselage.
- (4) Connect the tube (7).
- (5) Connect the electrical connector (2).

J. Installation (Figure 402)

SUBTASK 420-003-A

EFFECTIVITY: POST-MOD. S.B. 145-30-0006

- (1) Lightly apply molykote lubricant to the new O-ring (4) and install it on the low pressure switch (3).
- (2) Install the low pressure switch (3), on the manifold (5).
- (3) Connect the electrical connector (2).
- (4) Safety the switches with lockwire (1).

K. 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 Circuit Breaker Panel, close the ENG AIR INLET 1 and ENG AIR INLET 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.

