

## 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 - INSTALLATION	PRE-MOD. S.B. 145-30-0022

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	-
<a href="#">AMM TASK 71-11-01-000-801-A/400</a>	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](#)).

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*

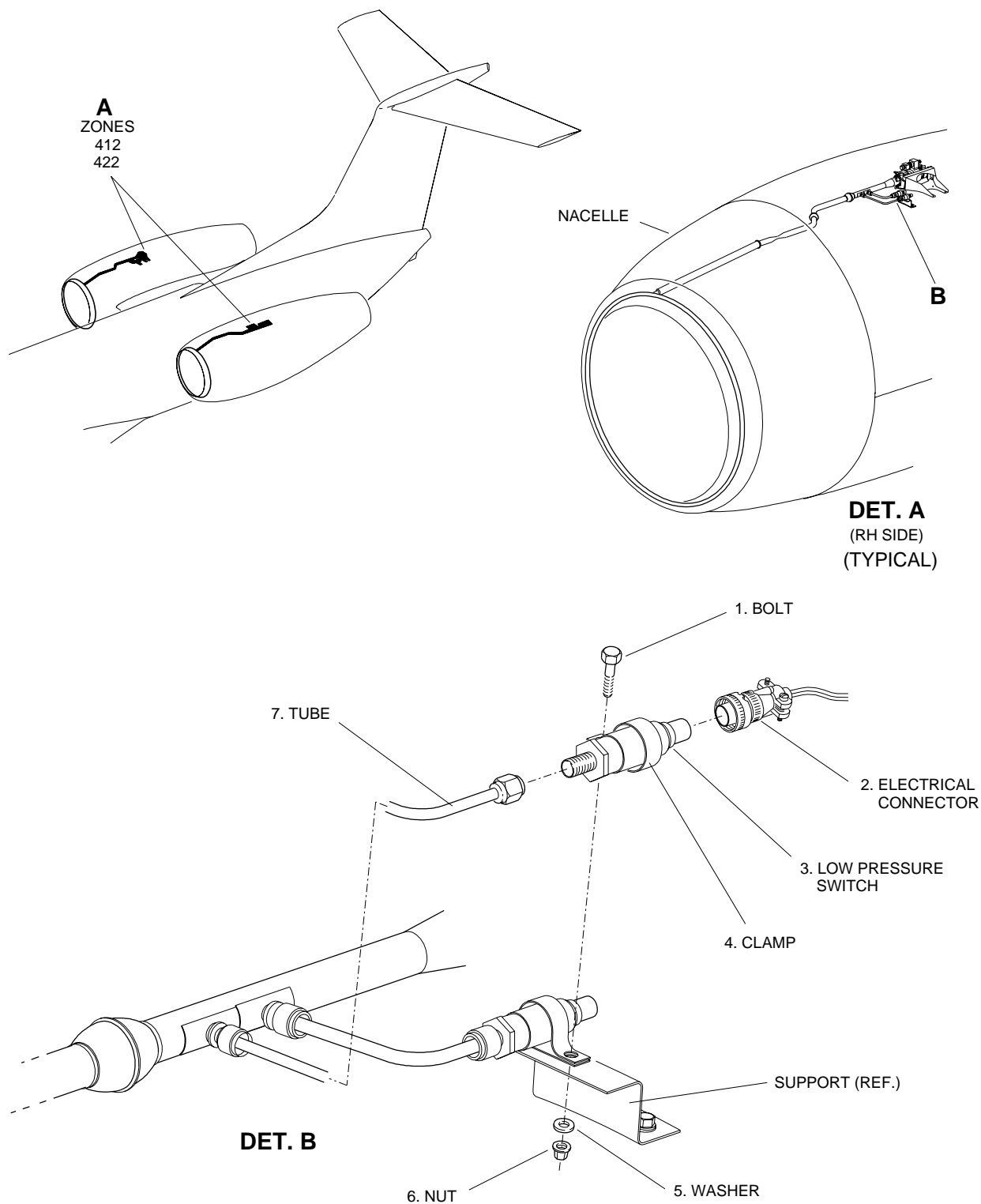
*EFFECTIVITY: POST-MOD. S.B. 145-30-0006*

- (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

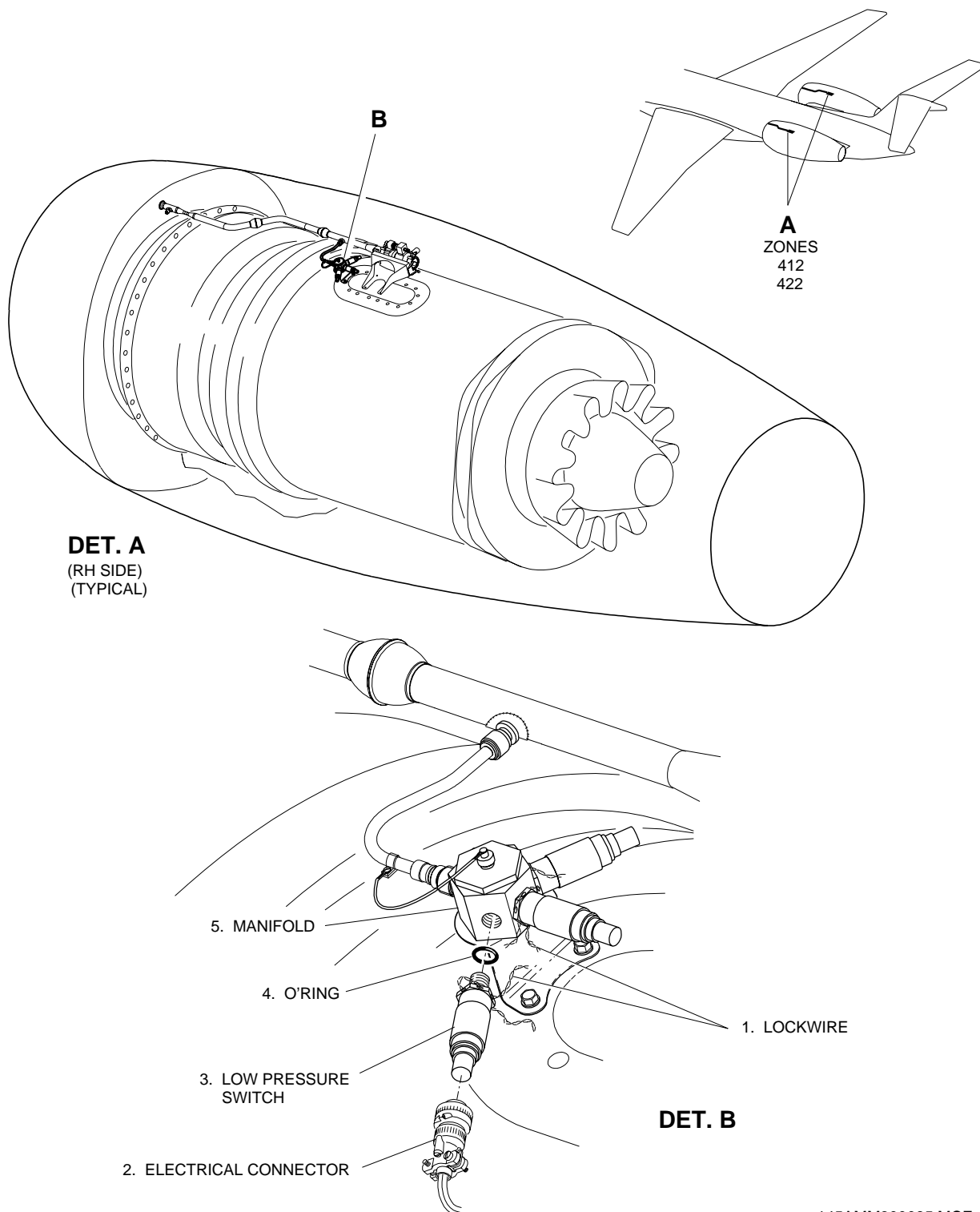


145AMM300051.MCE A

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

Low Pressure Switch - Removal/Installation

Figure 402



145AMM300085.MCE A

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	-
<a href="#">AMM TASK 71-11-01-400-801-A/400</a>	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).

- (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.

