



AIRCRAFT MAINTENANCE MANUAL

DIFFERENTIAL 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 differential pressure switch of the Wing 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
30-11-06-000-801-A	DIFFERENTIAL PRESSURE SWITCH - REMOVAL	PRE-MOD. S.B. 145-30-0022
30-11-06-400-801-A	DIFFERENTIAL PRESSURE SWITCH - INSTALLATION	PRE-MOD. S.B. 145-30-0022



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 30-11-06-000-801-A

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

2. DIFFERENTIAL PRESSURE SWITCH - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the differential pressure switch of the Wing Thermal Anti-Icing System.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	LH side of the center lower fairing
192	192BR	RH side of the center lower fairing

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 side of the center lower fairing

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open the circuit breaker below and attach a DO-NOT-CLOSE tag to it.
- WING (Location tip: DC BUS 1/ICE AND RAIN PROTECTION/WING).

- (2) Remove access panel 192AL or 192BR (AMM MPP 06-41-01/100).

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

SUBTASK 020-002-A

- (1) Disconnect the electrical connectors (1) and (4).

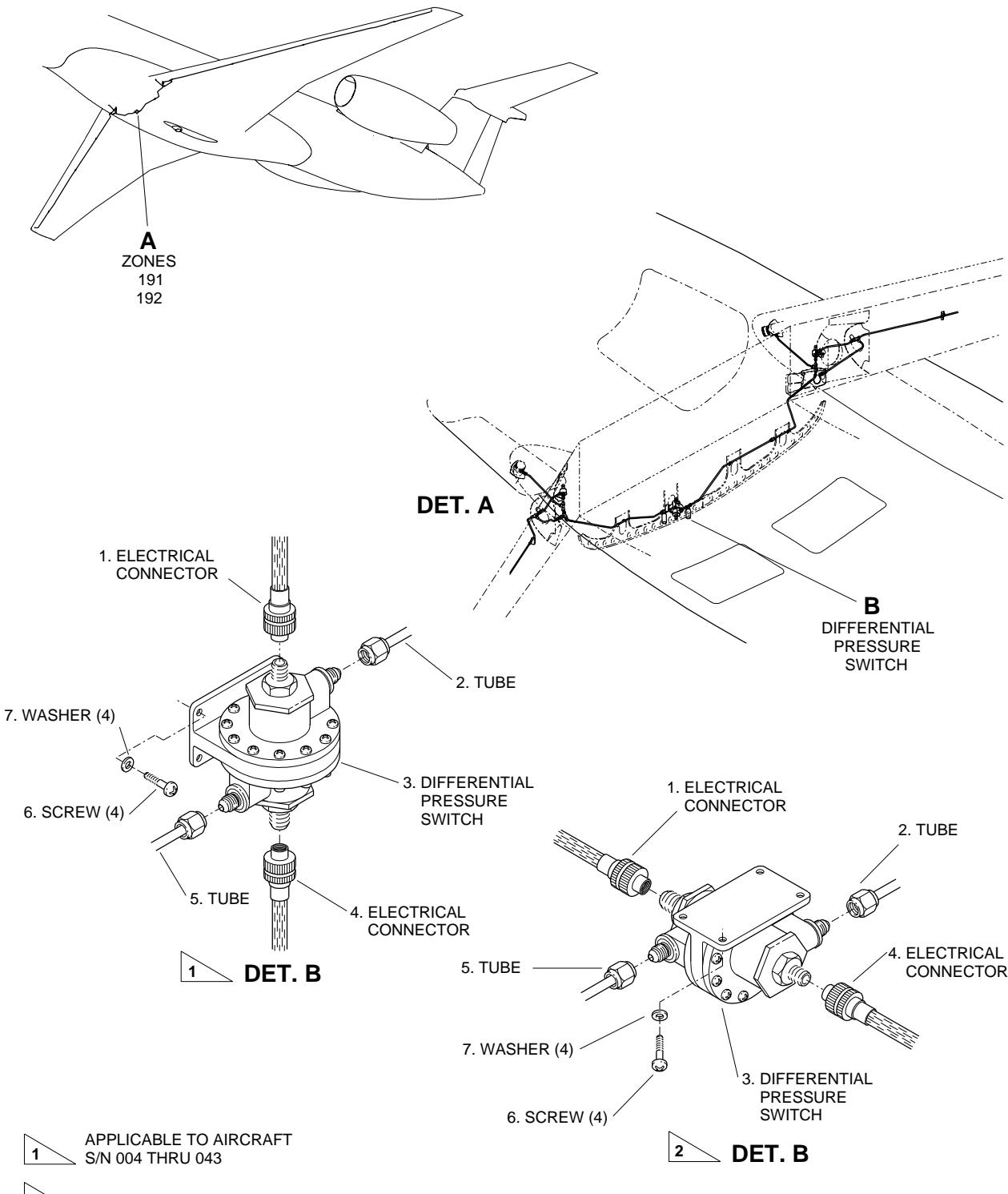


EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

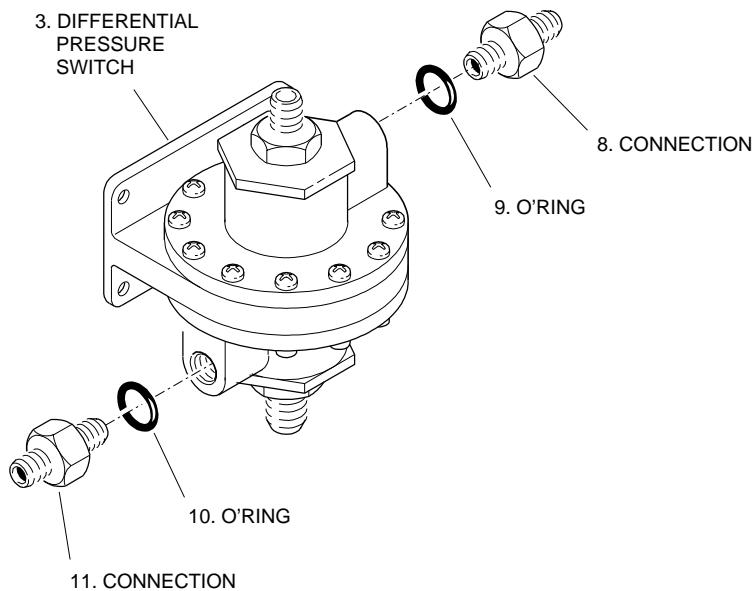
- (2) Disconnect the tubes (2) and (5).
- (3) Remove the four screws (6) and washers (7).
- (4) Remove the differential pressure switch (3).

EFFECTIVITY: PRE-MOD. S.B. 145-30-0022
Differential Pressure Switch - Removal/Installation
Figure 401



145AMM300044.MCE C

EFFECTIVITY: PRE-MOD. S.B. 145-30-0022
Differential Pressure Switch - Removal/Installation
Figure 402



145AMM300045.MCE B



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 30-11-06-400-801-A

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

3. DIFFERENTIAL PRESSURE SWITCH - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the differential pressure switch of the Wing Thermal Anti-Icing System.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 28-41-00-200-801-A/600	-
IPC 30-11-00	WING THERMAL ANTI-ICING SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	LH side of the center lower fairing
192	192BR	RH side of the center lower fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 30-11-00	2

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH side of the center lower fairing

I. Preparation (Figure 402)

SUBTASK 841-003-A

- (1) Remove and keep the connections (8) and (11).
- (2) Remove and discard the old O-rings (9) and (10).
- (3) Install the new O-rings (9) and (10).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (4) Install the connections (8) and (11).

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the differential pressure switch (3) in its installation position.
- (2) Install the four screws (6) and washers (7) to attach the differential pressure switch (3).
- (3) Connect the tubes (2) and (5).
- (4) Connect the electrical connectors (1) and (4).

K. Follow-on

SUBTASK 842-002-A

- (1) On the overhead Circuit Breaker Panel, close the circuit breaker below and remove the DO-NOT-CLOSE tag from it.
 - WING (Location tip: DC BUS 1/ICE AND RAIN PROTECTION/WING).
- (2) Examine the tube connections for leaks.
- (3) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).

- (4) Install access panel 192AL or 192BR (AMM MPP 06-41-01/100).

