



AIRCRAFT
MAINTENANCE MANUAL

WING ANTI-ICING OVERPRESSURE SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the overpressure switches of the Wing Thermal Anti-Icing System.
- B. These procedures are applicable to the LH and RH overpressure switches.
- C. The LH overpressure switch is installed on the LH side of the forward lower fairing.
- D. The RH overpressure switch is installed on the RH side of the forward lower fairing.
- 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
30-11-03-000-801-A	OVERPRESSURE SWITCH - REMOVAL	ALL
30-11-03-400-801-A	OVERPRESSURE SWITCH - INSTALLATION	ALL

TASK 30-11-03-000-801-A
EFFECTIVITY: ALL
2. OVERPRESSURE SWITCH - REMOVAL
A. General

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

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
S.B.145-30-0022	-

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
191	191EL	LH side of the forward lower fairing
191	191FR	RH side of the forward 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

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	LH or RH side of the forward lower fairing

I. Preparation
SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open this circuit breaker and attach a DO-NOT-CLOSE tag to it.
- WING: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/WING).
- (2) Remove access panel 191EL or 191FR (AMM MPP 06-41-01/100).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

J. Removal (Figure 401) (Figure 402)

SUBTASK 020-002-A

WARNING: DO NOT TOUCH THE DUCTS OR COMPONENTS OF THE ANTI-ICING SYSTEM IMMEDIATELY AFTER THE SYSTEM IS TURNED OFF BECAUSE THE HIGH AIR TEMPERATURE CAN CAUSE INJURY TO YOU.

(1) PRE-MOD. [S.B.145-30-0022](#).

- (a) Disconnect the electrical connector (1).
- (b) (On aircraft 004-371) Remove the overpressure switch (2) from the manifold (3).
- (c) On aircraft 372 and on, do as follows:
 - 1 Disconnect the overpressure switch (2) from the union (5) and the manifold (3).
 - 2 Remove and discard the old O-ring (6).

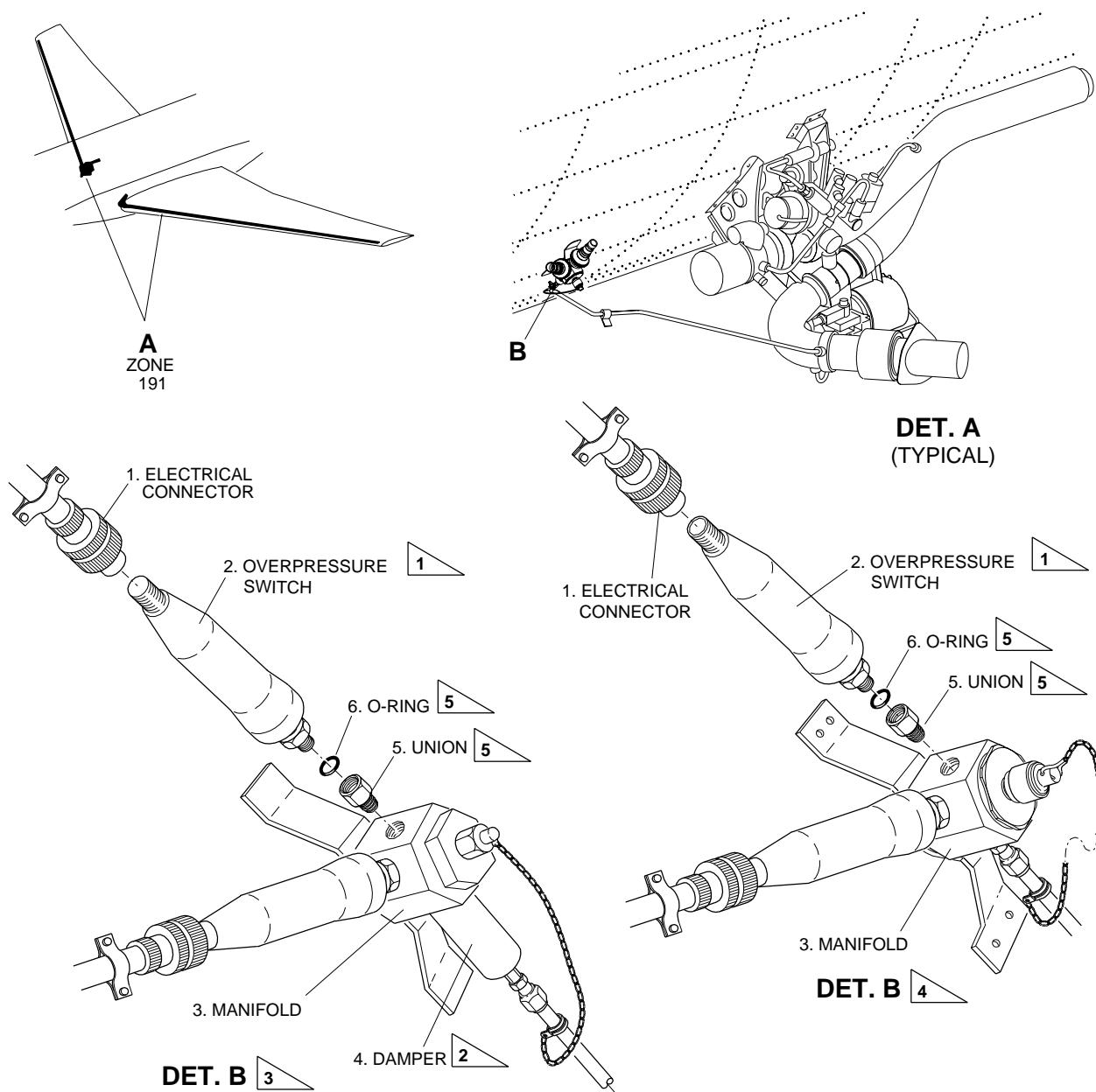
(2) POST-MOD. [S.B.145-30-0022](#).

- (a) Disconnect the electrical connector (1).
- (b) Cut the lockwire (5).
- (c) (On aircraft 003-371) Disconnect the overpressure switch (6) from the union (2) and the union (2) from the manifold (4).
- (d) (On aircraft 372 and on) Disconnect the overpressure switch (6) from the manifold (4).
- (e) Remove and discard the old O-ring (3).

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

Overpressure Switch - Removal/Installation

Figure 401



1 TORQUE: 16.9-33.9 N.m (150-300 lb.in)

2 TORQUE: 10.7-11.9 N.m (95-105 lb.in)

3 POST-MOD S.B. 145-30-0012

4 PRE-MOD S.B. 145-30-0012

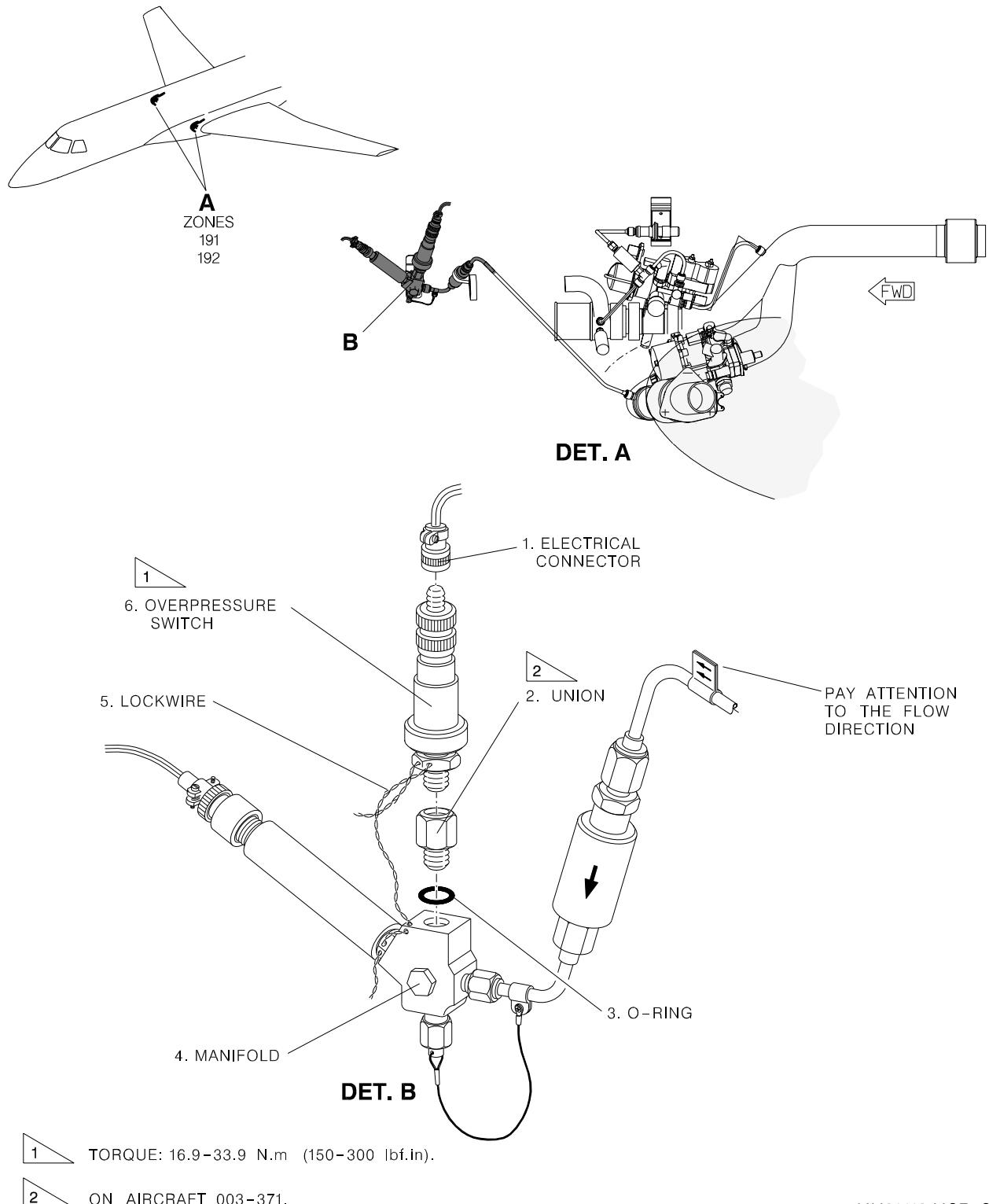
5 ON AIRCRAFT 372 AND ON

145AMM300041.MCE F

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

Overpressure Switch - Removal/Installation

Figure 402



MM30113.MCE C



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 30-11-03-400-801-A

EFFECTIVITY: ALL

3. OVERPRESSURE SWITCH - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
IPC 30-11-00	WING THERMAL ANTI-ICING SYSTEM
S.B.145-30-0022	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	LH side of the forward lower fairing
191	191FR	RH side of the forward lower fairing

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
A-A-58092	Teflon Tape, 1/2 IN	AR
MS20995C20	Lockwire	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 30-11-00	1

H. Persons Recommended

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



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

I. Installation (Figure 401) (Figure 402)

SUBTASK 420-002-A

(1) PRE-MOD. [S.B.145-30-0022](#).

(a) On aircraft 004-371, do as follows:

- 1 Apply one and a half overlapping turns of Teflon tape to the threads of the overpressure switch (2).
- 2 Install the overpressure switch (2) to the manifold (3). Tighten it to the specified torque.
- 3 Connect the electrical connector (1) to the overpressure switch (2).

(b) On aircraft 372 and on, do as follows:

- 1 Apply one and a half overlapping turns of Teflon tape to the threads of the union (5).
- 2 Install the union (5) to the manifold (3).
- 3 Install the overpressure switch (2) to the union (5) with the new O-ring (6). Tighten it to the specified torque.
- 4 Connect the electrical connector (1) to the overpressure switch (2).

(2) POST-MOD. [S.B.145-30-0022](#).

(a) On aircraft 003-371, do as follows:

- 1 Install the union (2) and the new O-ring (3) to the manifold (4).
- 2 Apply one and a half overlapping turns of Teflon tape, to the threads of the overpressure switch (6).
- 3 Install the overpressure switch (6) to the union (2). Tighten it to the specified torque.
- 4 Safety the overpressure switch (6) with the lockwire (5).
- 5 Connect the electrical connector (1) to the overpressure switch (6).

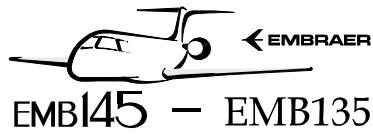
(b) On aircraft 372 and on, do as follows:

- 1 Install the overpressure switch (6) with the new O-ring (3) to the manifold (4). Tighten it to the specified torque.
- 2 Safety the overpressure switch (6) with the lockwire (5).
- 3 Connect the electrical connector (1) to the overpressure switch (6).

J. Follow-on

SUBTASK 842-002-A

(1) Install access panel 191EL or 191FR (AMM MPP 06-41-01/100).



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (2) On the overhead Circuit Breaker Panel, close this circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - WING: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/WING).