

EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

WING ANTI-ICING LEAK THERMOSTAT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the leak thermostat of the Wing Thermal Anti-Icing System.
- B. These procedures are applicable to the LH and RH leak thermostats.
- C. The LH leak thermostat is installed on the LH side of the forward lower fairing.
- D. The RH leak thermostat 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
30-11-05-000-801-A	LEAK THERMOSTAT - REMOVAL	ALL
30-11-05-400-801-A	LEAK THERMOSTAT - INSTALLATION	ALL



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 30-11-05-000-801-A

EFFECTIVITY: ALL

2. LEAK THERMOSTAT - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the leak thermostat 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
191	191EL	LH side of the forward lower fairing
191	191FR	RH side of the forward lower fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering Iron - 30 W	To disconnect electrical terminals	

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 forward lower fairing

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open the WING circuit breaker and attach a DO-NOT-CLOSE tag to it.
 - WING (Location Tip: DC BUS1/ICE AND RAIN PROTECTION/WING).
- (2) Remove access panel 191EL or 191FR (AMM MPP 06-41-01/100).
- (3) Remove the landing light lens.



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

J. Removal

SUBTASK 020-002-A

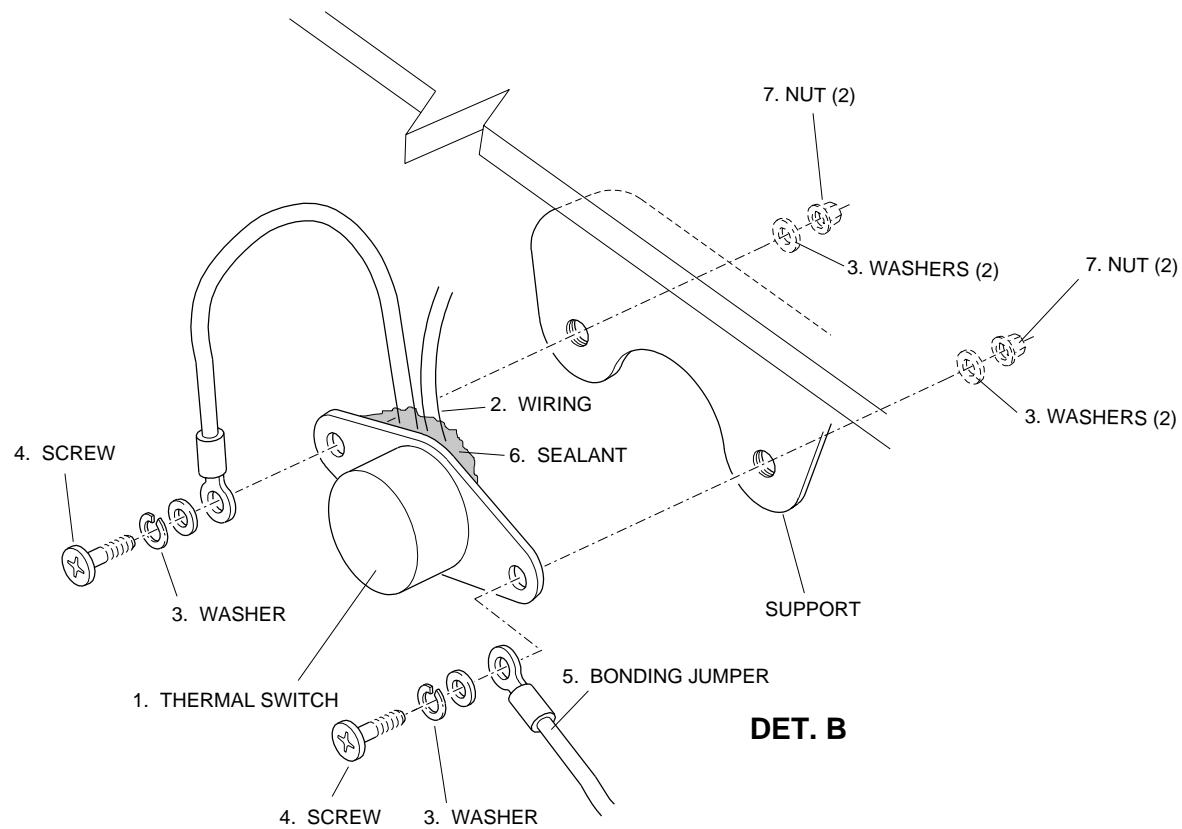
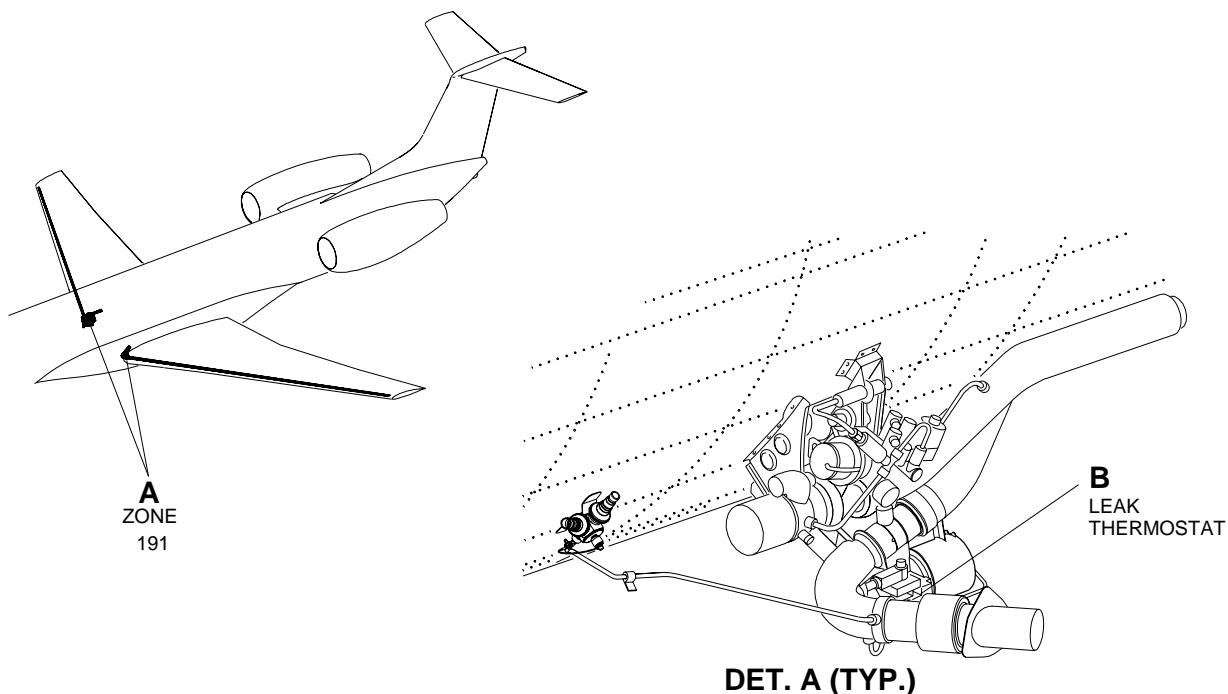
WARNING: DO NOT TOUCH THE AIR CYCLE MACHINE OR COMPONENTS IMMEDIATELY AFTER THE OPERATION STOPS BECAUSE OF THE HIGH TEMPERATURE.

- (1) For thermal switch P/N M1-195-xxxxxx, do as follows ([Figure 401](#)):
 - (a) Release the screws (4) and washers (3).
 - (b) Remove the sealant (6).
 - (c) If applicable, release the bonding jumper (5).
 - (d) Disconnect the electric wire (2) with a soldering iron.
 - (e) Remove the thermal switch (1).
- (2) For thermal switch P/N 11041-xxxx, do as follows ([Figure 402](#)):
 - (a) Release the screws (9) and washers (5).
 - (b) If applicable, release the bonding jumper (7).
 - (c) Cut the electric wire (1) near the splice (2) to disconnect it from the electric wire (3).
 - (d) Cut the electric wire (10) near the splice (11) to disconnect it from the electric wire (12).
 - (e) Remove the thermal switch (8).

EFFECTIVITY: FOR THERMAL SWITCH P/N M1-195-xxxxxx

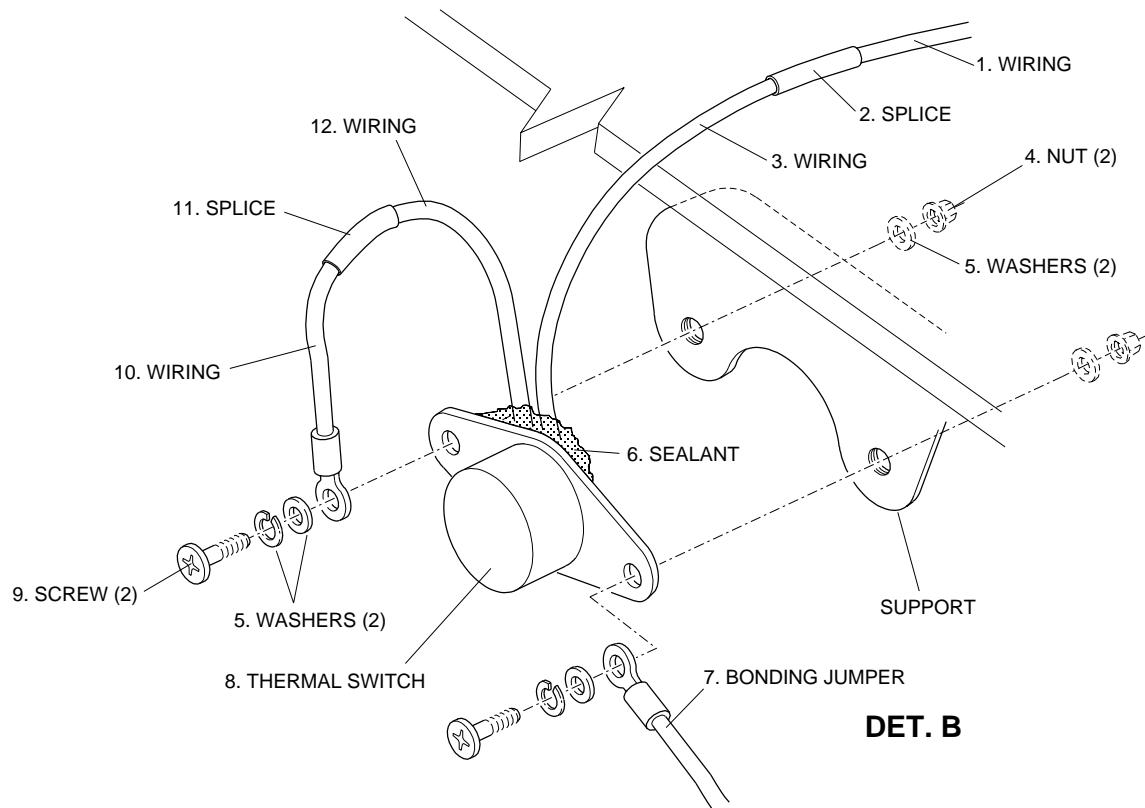
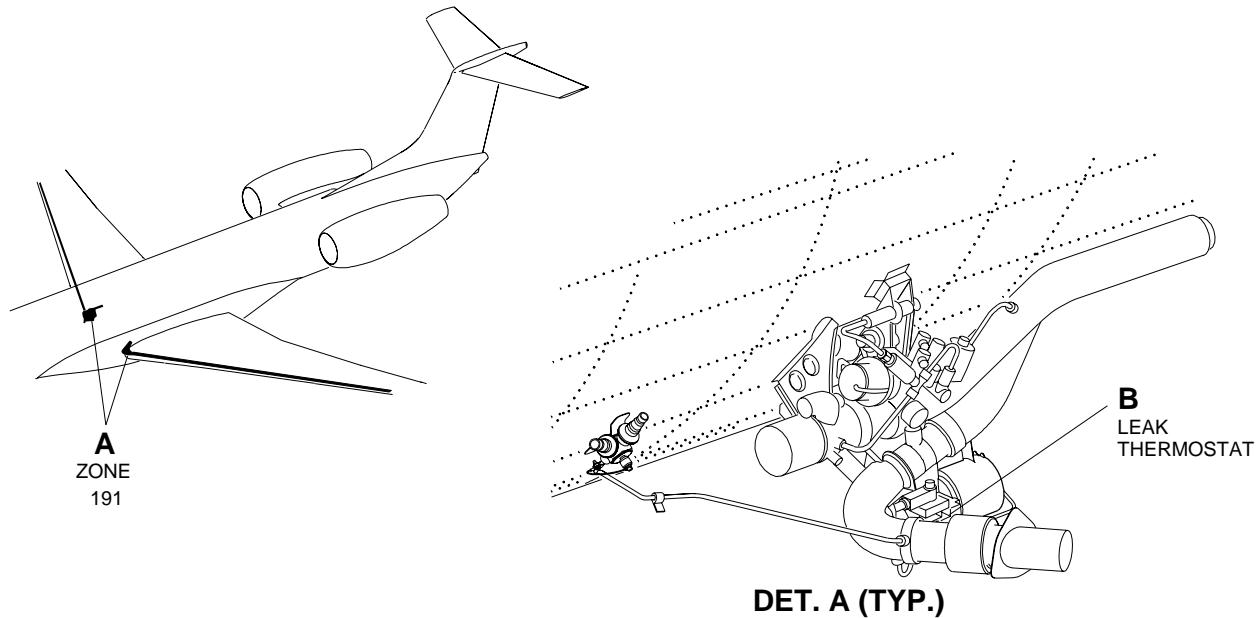
Leak Thermostat - Removal/Installation

Figure 401



145AMM300042.MCE B

EFFECTIVITY: FOR THERMAL SWITCH P/N 11041-xxxx
Leak Thermostat - Removal/Installation
Figure 402



145AMM300242.MCE



AIRCRAFT MAINTENANCE MANUAL

TASK 30-11-05-400-801-A

EFFECTIVITY: ALL

3. LEAK THERMOSTAT - INSTALLATION

A. General

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

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 30-11-05-700-801-A/500	WING LEAK THERMOSTAT - OPERATIONAL CHECK
WM 20-21-00/2	-

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

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Soldering Iron - 30 W	To disconnect electrical terminals	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
TT-S-00230	Sealant RTV 780	AR
MIL-S-81824	Splice	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

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



I. Installation

SUBTASK 420-002-A

- (1) For thermal switch P/N M1-195-xxxxxx, do as follows (Figure 401):
 - (a) Connect the electric wire (2) with a soldering iron.
 - (b) Apply sealant (6) to the electric terminals.
 - (c) If applicable, attach the bonding jumper (5).
 - (d) Install the thermal switch (1) and tighten the screws (4) and washers (3).
- (2) For thermal switch P/N 11041-xxxx, do as follows (Figure 402):
 - (a) Connect the electric wire (1) to the electric wire (3) with a splice (2) (WM 20-21-00/2).
NOTE: Cut the electric wire (3) to the correct length.
 - (b) Connect the electric wire (10) to the electric wire (12) with a splice (11) (WM 20-21-00/2).
NOTE: Cut the electric wire (12) to the correct length.
 - (c) Apply sealant (6) to the electric terminals.
 - (d) If applicable, attach the bonding jumper (7).
 - (e) Install the thermal switch (8) and tighten the screws (9) and washers (5).

J. Follow-on

SUBTASK 842-002-A

- (1) On the overhead Circuit Breaker Panel, close the WING circuit breaker and remove the DO-NOT-CLOSE tag from it.
 - WING (Location Tip: DC BUS1/ICE AND RAIN PROTECTION/WING)
- (2) Do an operational check of the Wing Leak Thermostat ([AMM TASK 30-11-05-700-801-A/500](#)).
- (3) Install access panel 191EL or 191FR (AMM MPP 06-41-01/100).
- (4) Install the landing light lens.

