

## 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

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**

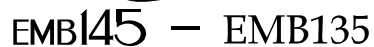
- (1) On the overhead Circuit Breaker Panel, open the WING circuit breaker and attach a DO-NOT-CLOSE tag to it.
  - WING (Location Tip: DC BUS1/ICE AND RAIN PROTECTION/WING).
- (2) Remove access panel 191EL or 191FR (AMM MPP 06-41-01/100).
- (3) Remove the landing light lens.

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).



EMB145 – EMB135

Figure 401



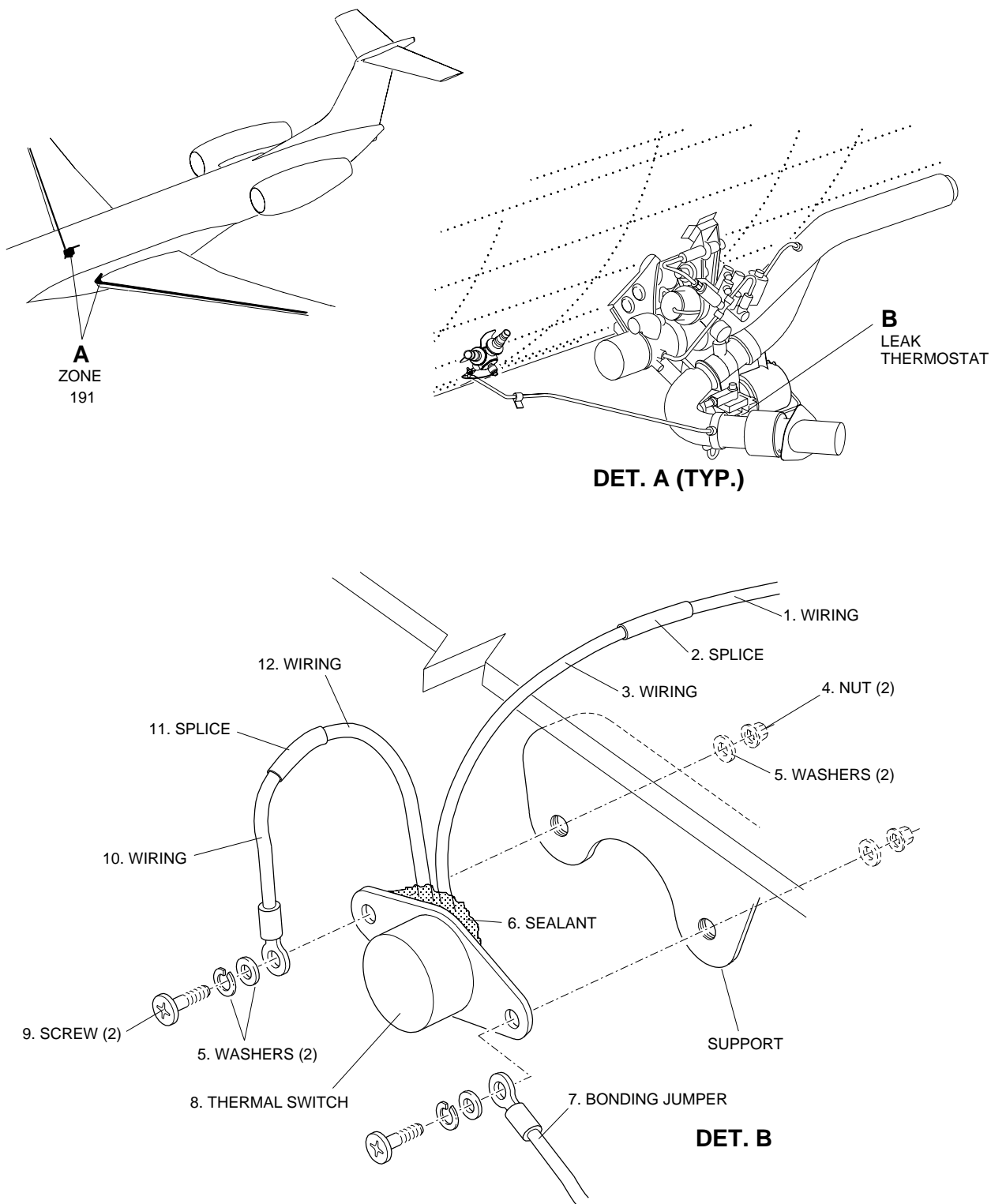
**30-11-05**

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EFFECTIVITY: FOR THERMAL SWITCH P/N 11041-xxxx

Leak Thermostat - Removal/Installation

Figure 402



145AMM300242.MCE

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	-
<a href="#">AMM TASK 30-11-05-700-801-A/500</a>	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.

