



AIRCRAFT
MAINTENANCE MANUAL

HORIZONTAL-STABILIZER ANTI-ICING LEAK THERMOSTAT - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the leak thermostats of the Horizontal-Stabilizer Thermal Anti-Icing System.
- B. These procedures are applicable to the seven leak thermostats of the Horizontal-Stabilizer Thermal Anti-Icing System.
- C. The leak thermostats are installed on the vertical and horizontal stabilizers as follows:
 - (1) Vertical stabilizer: three leak thermostats.
 - (2) Horizontal stabilizer: four leak thermostats.
- D. 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
30-12-05-000-801-A	LEAK THERMOSTAT - REMOVAL	ALL
30-12-05-400-801-A	LEAK THERMOSTAT - INSTALLATION	ALL



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TASK 30-12-05-000-801-A

EFFECTIVITY: ALL

2. LEAK THERMOSTAT - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the leak thermostat of the Horizontal-Stabilizer Thermal Anti-Icing System.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-30-00/100	-
AMM MPP 06-42-00/100	-
AMM TASK 55-13-00-000-801-A/400	HORIZONTAL-STABILIZER LEADING-EDGE ROOT FAIRINGS - REMOVAL
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
AMM TASK 55-36-00-000-801-A/400	TAIL BOOM - REMOVAL
S.B.145-30-0022	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
323		Vertical stabilizer leading edge
325	325EL	Vertical stabilizer center section
333	333DL	Horizontal stabilizer leading edge
334	334DR	Horizontal stabilizer leading edge
337	337BZ	Horizontal stabilizer center section

D. Tools and Equipment

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

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the leak thermostats	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Horizontal and vertical stabilizers
1	Helps the other technician	Horizontal and vertical stabilizers

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
 - (PRE-MOD. [S.B.145-30-0022](#))
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
 - (POST-MOD. [S.B.145-30-0022](#))
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
STAB A/I IND: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/STAB A/I IND).
- (2) Remove the horizontal-stabilizer leading-edge root fairings (access panels 333DL, 334DR) ([AMM TASK 55-13-00-000-801-A/400](#)) (AMM MPP 06-42-00/100).
- (3) Remove the front movable fairings ([AMM TASK 55-36-00-000-801-A/400](#)).
- (4) (For aircraft with access panel 337BZ) Remove access panel 337BZ (AMM MPP 06-42-00/100).
- (5) Remove access panel 325EL (AMM MPP 06-42-00/100).
- (6) Remove leading edge 323 of the vertical stabilizer ([AMM TASK 55-35-00-000-801-A/400](#)) (AMM MPP 06-30-00/100).

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

SUBTASK 020-002-A

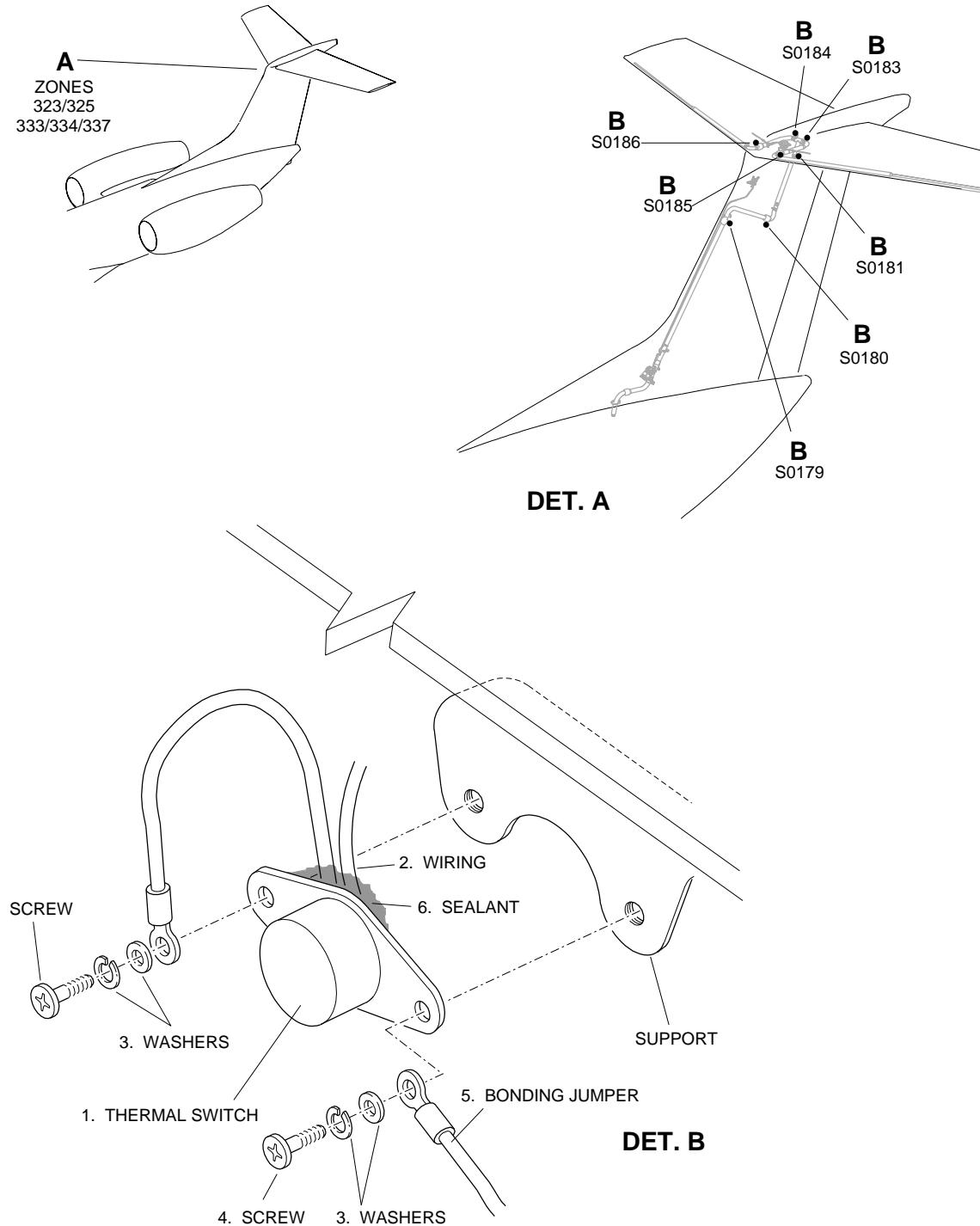
- (1) For thermal switch P/N M1-195-xxxxxx, do as follows ([Figure 401](#)):
 - (a) Release the screws (4) and washers (3).
 - (b) Remove the sealant (6).
 - (c) If applicable, release the bonding jumper (5).
 - (d) Disconnect the electric wire (2) with a soldering iron.
 - (e) Remove the thermal switch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



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- (c) Cut the electric wire (1) near the splice (2) to disconnect it from the electric wire (3).
- (d) Cut the electric wire (9) near the splice (10) to disconnect it from the electric wire (11).
- (e) Remove the thermal switch (8).

EFFECTIVITY: FOR THERMAL SWITCH P/N M1-195-xxxxxx
Leak Thermostat - Removal/Installation
Figure 401

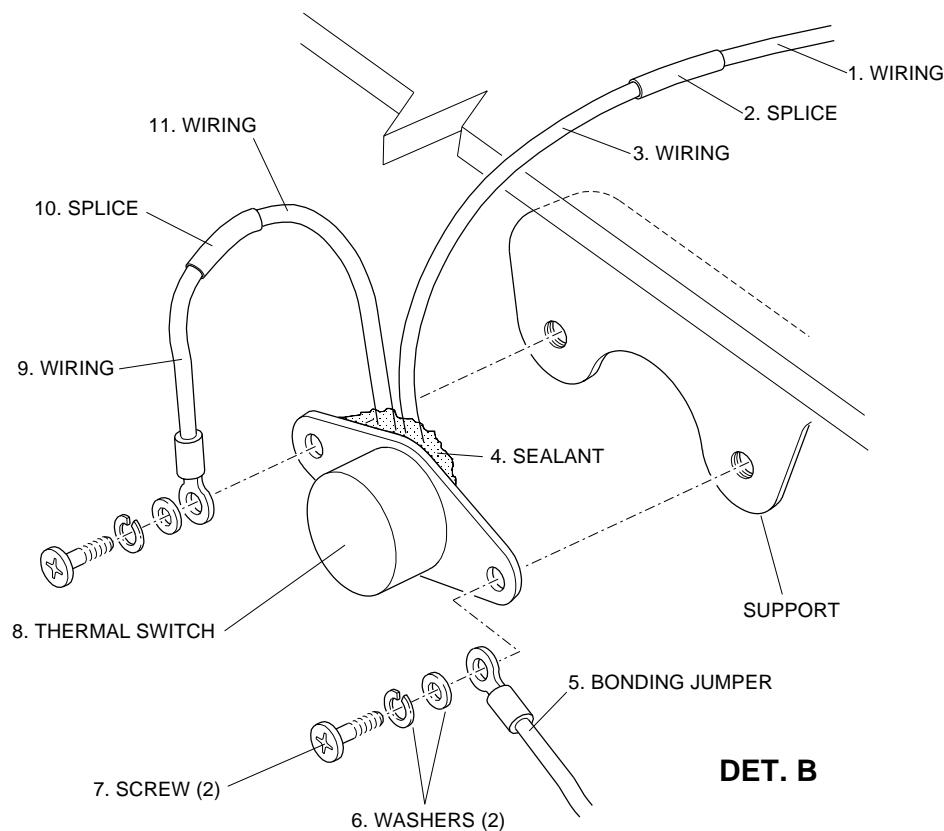
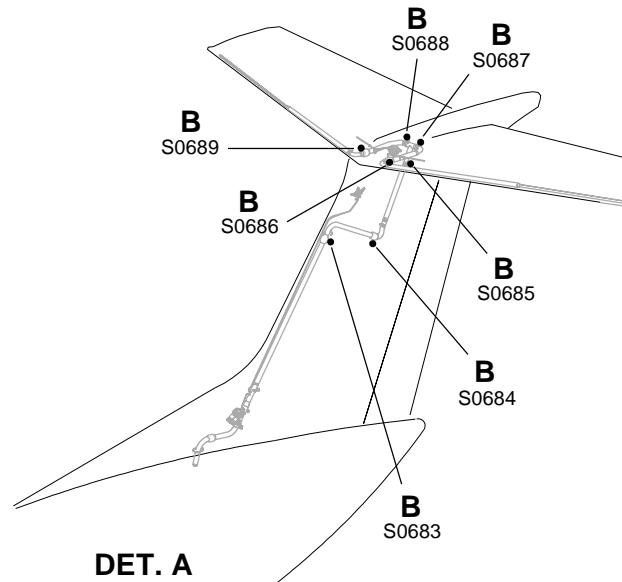
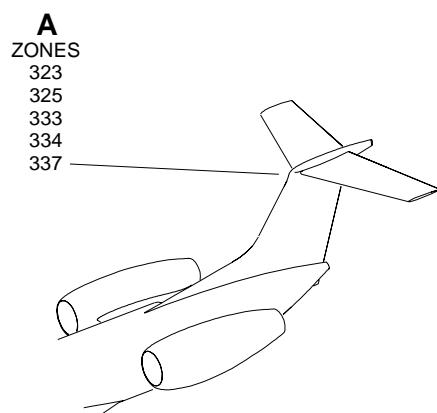


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EFFECTIVITY: FOR THERMAL SWITCH P/N 11041-xxxx

Leak Thermostat - Removal/Installation

Figure 402



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TASK 30-12-05-400-801-A
EFFECTIVITY: ALL
3. LEAK THERMOSTAT - INSTALLATION
A. General

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

B. References

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-30-00/100	-
AMM MPP 06-42-00/100	-
AMM TASK 30-12-05-700-801-A/500	HORIZONTAL-STABILIZER LEAK THERMOSTAT - OPERATIONAL CHECK
AMM TASK 55-13-00-400-801-A/400	HORIZONTAL-STABILIZER LEADING-EDGE ROOT FAIRINGS - INSTALLATION
AMM TASK 55-35-00-400-801-A/400	VERTICAL-STABILIZER LEADING EDGE - INSTALLATION
AMM TASK 55-36-00-400-801-A/400	TAIL BOOM - INSTALLATION
S.B.145-30-0022	-
WM 20-21-00/2	-

C. Zones and Accesses

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
323		Vertical stabilizer leading edge
325	325EL	Vertical stabilizer center section
333	333DL	Horizontal stabilizer leading edge
334	334DR	Horizontal stabilizer leading edge
337	337BZ	Horizontal stabilizer center section

D. Tools and Equipment

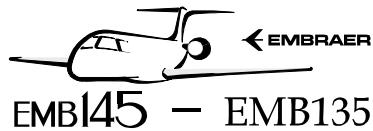
<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Soldering Iron - 30 W	To disconnect electrical terminals	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
TT-S-00230	Sealant RTV 780	AR



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(Continued)

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-81824	Splice	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Horizontal and vertical stabilizers
1	Helps the other technician	Horizontal and vertical stabilizers

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 (9) to the electric wire (11) with a splice (10) (WM 20-21-00/2).
NOTE: Cut the electric wire (11) to the correct length.
 - (c) Apply sealant (4) to the electric terminals.
 - (d) If applicable, attach the bonding jumper (5).
 - (e) Install the thermal switch (8) and tighten the screws (7) and washers (6).

J. Follow-on

SUBTASK 842-002-A

- (1) On the overhead Circuit Breaker Panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them.
 - (PRE-MOD. [S.B.145-30-0022](#))
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
 - (POST-MOD. [S.B.145-30-0022](#))



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STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).

STAB A/I IND: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/STAB A/I IND).

- (2) Do an operational check of the Horizontal-Stabilizer Leak Thermostat ([AMM TASK 30-12-05-700-801-A/500](#)).
- (3) Install leading edge 323 of the vertical stabilizer ([AMM TASK 55-35-00-400-801-A/400](#)) (AMM MPP 06-30-00/100).
- (4) Install the horizontal-stabilizer leading-edge root fairings (access panels 333DL, 334DR) ([AMM TASK 55-13-00-400-801-A/400](#)) (AMM MPP 06-42-00/100).
- (5) (For aircraft with access panel 337BZ) Install access panel 337BZ (AMM MPP 06-42-00/100).
- (6) Install the front movable fairings ([AMM TASK 55-36-00-400-801-A/400](#)).
- (7) Install access panel 325EL (AMM MPP 06-42-00/100).

