



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

HORIZONTAL-STABILIZER ANTI-ICING LEAK THERMOSTAT - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do an operational check on the horizontal-stabilizer leak thermostats.
- 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
30-12-05-700-801-A ♦	HORIZONTAL-STABILIZER LEAK THERMOSTAT - OPERATIONAL CHECK	ALL



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TASK 30-12-05-700-801-A

EFFECTIVITY: ALL

2. HORIZONTAL-STABILIZER LEAK THERMOSTAT - OPERATIONAL CHECK

A. General

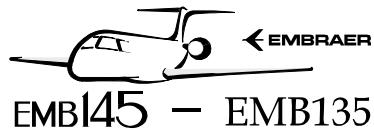
- (1) There are three leak thermostats installed in the vertical fin and four leak thermostats installed in the horizontal stabilizer.
- (2) The check will be done for each leak thermostat at a time.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-30-00/100	-
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM MPP 06-42-00/100	-
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 30-12-05-400-801-A/400	LEAK THERMOSTAT - INSTALLATION
AMM TASK 45-45-00-970-802-A/200	CMC DOWNLOADING WITH THE PERSONAL COMPUTER
AMM TASK 55-13-00-000-801-A/400	HORIZONTAL-STABILIZER LEADING-EDGE ROOT FAIRINGS - REMOVAL
AMM TASK 55-13-00-400-801-A/400	HORIZONTAL-STABILIZER LEADING-EDGE ROOT FAIRINGS - INSTALLATION
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
AMM TASK 55-35-00-400-801-A/400	VERTICAL-STABILIZER LEADING EDGE - INSTALLATION
AMM TASK 55-36-00-000-801-A/400	TAIL BOOM - REMOVAL
AMM TASK 55-36-00-400-801-A/400	TAIL BOOM - INSTALLATION
S.B.145-45-0001	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223LZ	Cockpit, LH side - Maintenance Panel
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	Heat gun	To make the leak thermostat hot	
Commercially available	Digital Thermometer - range up to 93.3°C (200°F)	To measure the temperature	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	A - Does the task	Cockpit
1	B - Helps technician A	Horizontal stabilizer

I. Preparation

SUBTASK 841-002-A

- (1) Energize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Remove the horizontal-stabilizer leading-edge root fairings (access panels 333DL and 334DR; [AMM TASK 55-13-00-000-801-A/400](#) and AMM MPP 06-42-00/100) to get access to the leak thermostats.
- (3) Remove the front movable fairings ([AMM TASK 55-36-00-000-801-A/400](#)) to get access to the leak thermostats.
- (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) to get access to the leak thermostat.
- (6) To get access to the leak thermostat REF. C (see [Figure 501](#)), do as follows:
 - Remove leading edge 323 of the vertical stabilizer ([AMM TASK 55-35-00-000-801-A/400](#) and AMM MPP 06-30-00/100); or
 - Remove access panel 324DL (AMM MPP 06-42-00/100).
- (7) Open maintenance panel door 223LZ ([AMM MPP 06-41-03/100](#)) to get access to:
 - (PRE-MOD. [S.B.145-45-0001](#)) The CMC RESET/INHIBIT switch.
 - (POST-MOD. [S.B.145-45-0001](#)) The CMC RESET/ENABLE switch.

- (8) Make sure that these switches, on the Maintenance panel, are at the center position:
- (PRE-MOD. [S.B.145-45-0001](#)) CMC RESET/INHIBIT switch.
 - (POST-MOD. [S.B.145-45-0001](#)) CMC RESET/ENABLE switch.

J. Operational Check of Horizontal-Stabilizer Leak Thermostat ([Figure 501](#))

SUBTASK 710-002-A

WARNING: BECAUSE OF THE HIGH TEMPERATURES, BE CAREFUL NOT TO BURN YOURSELF WHEN YOU HEAT THE LEAK THERMOSTAT.

- (1) Do the check as follows:
- (a) (POST-MOD. [S.B.145-45-0001](#)) Set the CMC RESET/ENABLE switch, on the Maintenance panel, to the ENABLE position.

WARNING: DO NOT HOLD THE LEAK THERMOSTAT WITH YOUR HAND WHILE YOU DO THE HEAT TEST.

- (b) To heat leak thermostat REF. C (see [Figure 501](#)) with leading edge 323 of the vertical stabilizer not removed, do as follows:
 1. Release the screws (3) and washers (2) through access panel 324DL to remove the leak thermostat. Refer to [Figure 502](#).
 2. Put the leak thermostat out of the aircraft through access panel 324DL.

NOTE: Be careful when you remove the leak thermostat not to cause damage to the harness.

- (c) Slowly and continuously heat each leak thermostat with a heat gun until you have a temperature higher than 93.3°C (200°F) ([Figure 501](#) or [Figure 502](#)).

NOTE: The leak thermostat temperature can not be higher than 250°C (483°F).

- (d) Download the CMC data ([AMM TASK 45-45-00-970-802-A/200](#)) and make sure that this message comes into view:

Result:

1 STAB A/I LEAK.

- (e) If applicable, install the leak thermostat (1) and tighten the screws (3) and washers (2). Refer to [AMM TASK 30-12-05-400-801-A/400](#).

- (2) Do this procedure for each leak switch at a time.

K. Follow-on

SUBTASK 842-002-A

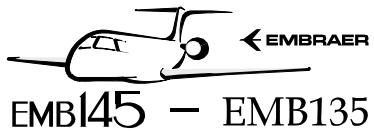
- (1) (POST-MOD. [S.B.145-45-0001](#)) Set the CMC RESET/ENABLE switch, on the Maintenance panel, to the center position.
- (2) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (3) Install leading edge 323 of the vertical stabilizer ([AMM TASK 55-35-00-400-801-A/400](#)) ([AMM MPP 06-30-00/100](#)).



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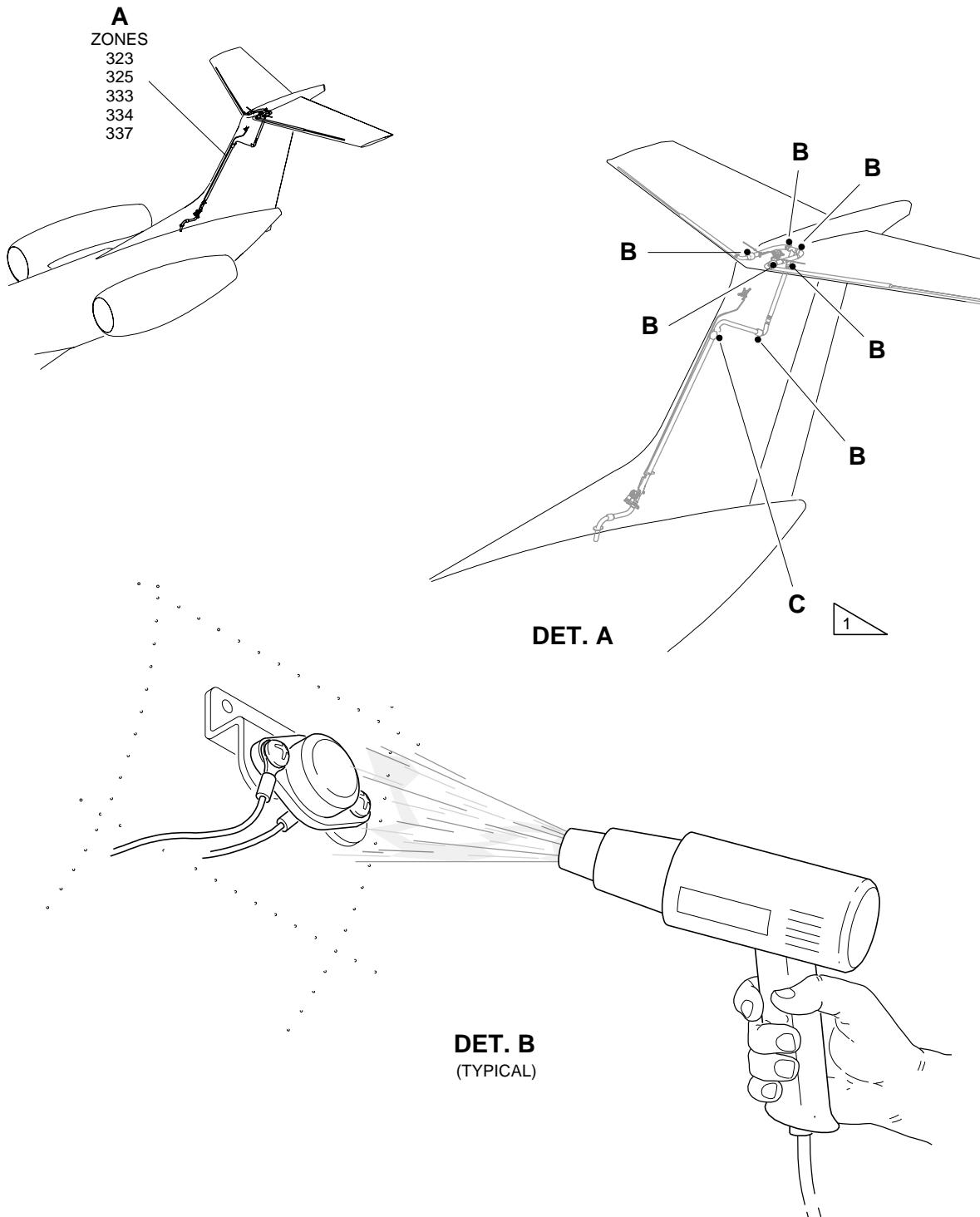
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- (4) Install the horizontal-stabilizer leading-edge root fairings (access panels 333DL and 334DR; [AMM TASK 55-13-00-400-801-A/400](#) and AMM MPP 06-42-00/100), if applicable.
- (5) Install access panel 324DL (AMM MPP 06-42-00/100), if applicable.
- (6) (For aircraft with access panel 337BZ) Install access panel 337BZ (AMM MPP 06-42-00/100).
- (7) Install the front movable fairings ([AMM TASK 55-36-00-400-801-A/400](#)).
- (8) Install access panel 325EL (AMM MPP 06-42-00/100).
- (9) Close maintenance panel door 223LZ ([AMM MPP 06-41-03/100](#)).



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EFFECTIVITY: ALL
Leak Thermostat - Check
Figure 501



 1 WITH THE LEADING EDGE REMOVED, HEAT LEAK THERMOSTAT REF.C DIRECTLY (REFER DET.F).

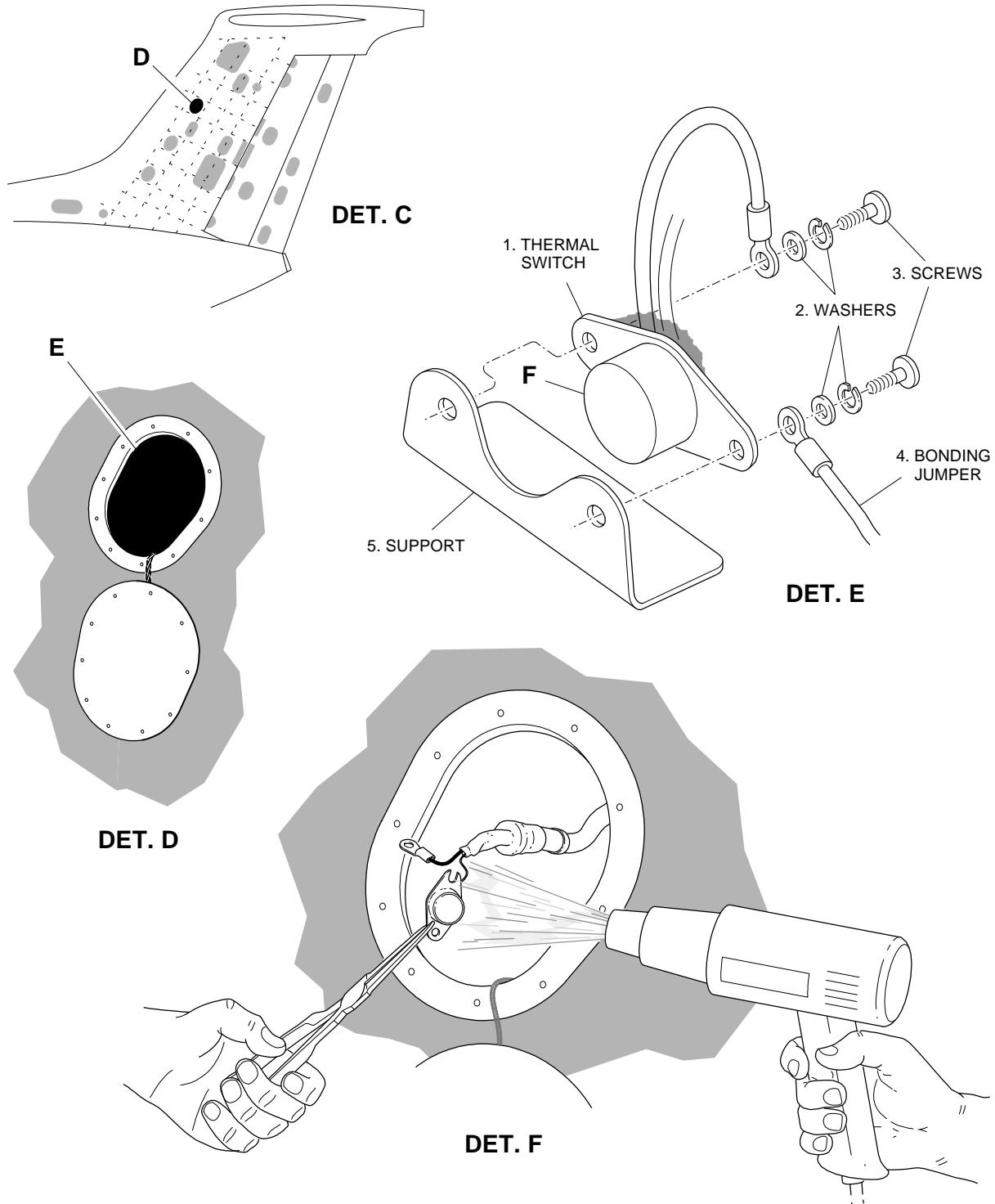
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EFFECTIVITY: ALL
 Leak Thermostat - Check
 Figure 502



EM145AMM300337A.DGN

