WING ANTI-ICING LEAK THERMOSTAT - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

   A. This section gives the procedures to do an operational check of the wing 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*
30-11-05-700-801-A ♦	WING LEAK THERMOSTAT - OPERATIONAL CHECK	ALL

TASK 30-11-05-700-801-A
EFFECTIVITY: ALL

2. WING LEAK THERMOSTAT - OPERATIONAL CHECK

A. General

(1) The leak thermostat is installed near the wing anti-icing valve.

B. References

REFERENCE	*DESIGNATION*
AMM MPP 06-41-01/100	-
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 45-45-00-970-802-A/200	CMC DOWNLOADING WITH THE PERSONAL COMPUTER
S.B.145-45-0001	-

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing
223	223LZ	Cockpit, LH side - Maintenance Panel

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
Commercially available	Heat Gun	To apply hot air	
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	Near the wing

I. Preparation

SUBTASK 841-002-A

(1) Energize the aircraft (AMM TASK 20-40-01-860-801-A/200).

(2) Remove the access panels that follow (AMM MPP 06-41-01/100), as applicable.

– 191EL (leak thermostat of the LH half wing).

– 191FR (leak thermostat of the RH half wing).

(3) 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.

(4) Make sure that these switches, on the Maintenance panel, are at the middle 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 the Wing 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) Turn the CMC RESET/ENABLE switch, on the Maintenance panel, to the ENABLE position.

(b) Slowly and continuously increase the temperature of the leak thermostat on the LH and RH half wing with a heat gun until it is higher than 93.3 °C (200 °F).

NOTE: The leak thermostat temperature cannot be higher than 250 °C (482 °F).

(c) Do a CMC downloading (AMM TASK 45-45-00-970-802-A/200) and make sure that these messages come into view:

Result:

1 WING 1 A/ICE LEAK and WING 2 A/ICE LEAK.

K. Follow-on

SUBTASK 842-002-A

(1) (POST-MOD. S.B.145-45-0001) Turn the CMC RESET/ENABLE switch, on the Maintenance panel, to the middle position.

(2) De-energize the aircraft (AMM TASK 20-40-01-860-801-A/200).

(3) Install the access panels that follow (AMM MPP 06-41-01/100), as applicable:

– 191EL (leak thermostat of the LH half wing).

– 191FR (leak thermostat of the RH half wing).

(4) Close maintenance panel door 223LZ (AMM MPP 06-41-03/100).

EFFECTIVITY: ALL

Leak Thermostat - Check

Figure 501