THERMAL SWITCH - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

   A. This section gives the procedures to do a check on the hydraulic fluid thermal switch.

   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*
29-30-05-700-801-A ♦	THERMAL SWITCH - OPERATIONAL CHECK	ALL

TASK 29-30-05-700-801-A
EFFECTIVITY: ALL

2. THERMAL SWITCH - OPERATIONAL CHECK

A. General

(1) This procedure is applicable to the thermal switch of hydraulic systems 1 and 2.

(2) The contact of the thermal switch closes at 90°C (194°F) and opens at 80°C (176°F).

B. References

REFERENCE	*DESIGNATION*
AMM MPP 06-41-00/100	-
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 29-30-05-000-801-A/400	THERMAL SWITCH - REMOVAL
AMM TASK 29-30-05-400-801-A/400	THERMAL SWITCH - INSTALLATION

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
193	193BL	Hydraulic compartment of system 1
193	193CR	Hydraulic compartment of system 2

D. Tools and Equipment

ITEM	*DESCRIPTION*	*PURPOSE*	*QTY*
Commercially available	Heat Gun -150°C (302°F)	To increase the temperature of the thermal switch	
Commercially available	Thermometer - 150°C (302°F)	To measure the temperature	
GSE 044	Headset - Ramp	To permit communication between the technicians	

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	Hydraulic system compartments 1 and 2
1	Helps the other technician	Cockpit

I. Preparation

SUBTASK 841-002-A

(1) Remove access panels 193BL (SYS 1) and 193CR (SYS 2) (AMM MPP 06-41-00/100).

(2) Remove the thermal switches (AMM TASK 29-30-05-000-801-A/400).

(3) With thermal switches removed from the reservoirs, connect the connectors to them.

(4) Put the thermometer near the thermal switch to monitor the temperature.

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

J. Operationally Check HYD SYS OVHT Message (Figure 501)

SUBTASK 710-002-A

(1) Do the check below to make sure that the EICAS display shows the HYD SYS 1 OVHT caution message:

CAUTION:
- POINT THE HOT AIR JET TO THE TIP OF THE THERMAL SWITCH TO PREVENT DAMAGE TO THE WIRING.
- IF THE EICAS DISPLAY DOES NOT SHOW THE HYD SYS 1 OVHT MESSAGE AT 110°C (230°F), STOP THE PROCEDURE AND FIND THE FAILURE.

(a) Increase the temperature of the thermal switch with the heat gun until approximately 90°C (194°F).

Result:

1 The EICAS display shows the HYD SYS 1 OVHT caution message.

(b) Turn off the heat gun and permit the thermal switch to cool until approximately 80°C (176°F).

Result:

1 The HYD SYS 1 OVHT caution message goes out of view.

(2) Do step (1) for the HYD SYS 2 OVHT message.

K. Follow-on

SUBTASK 842-002-A

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

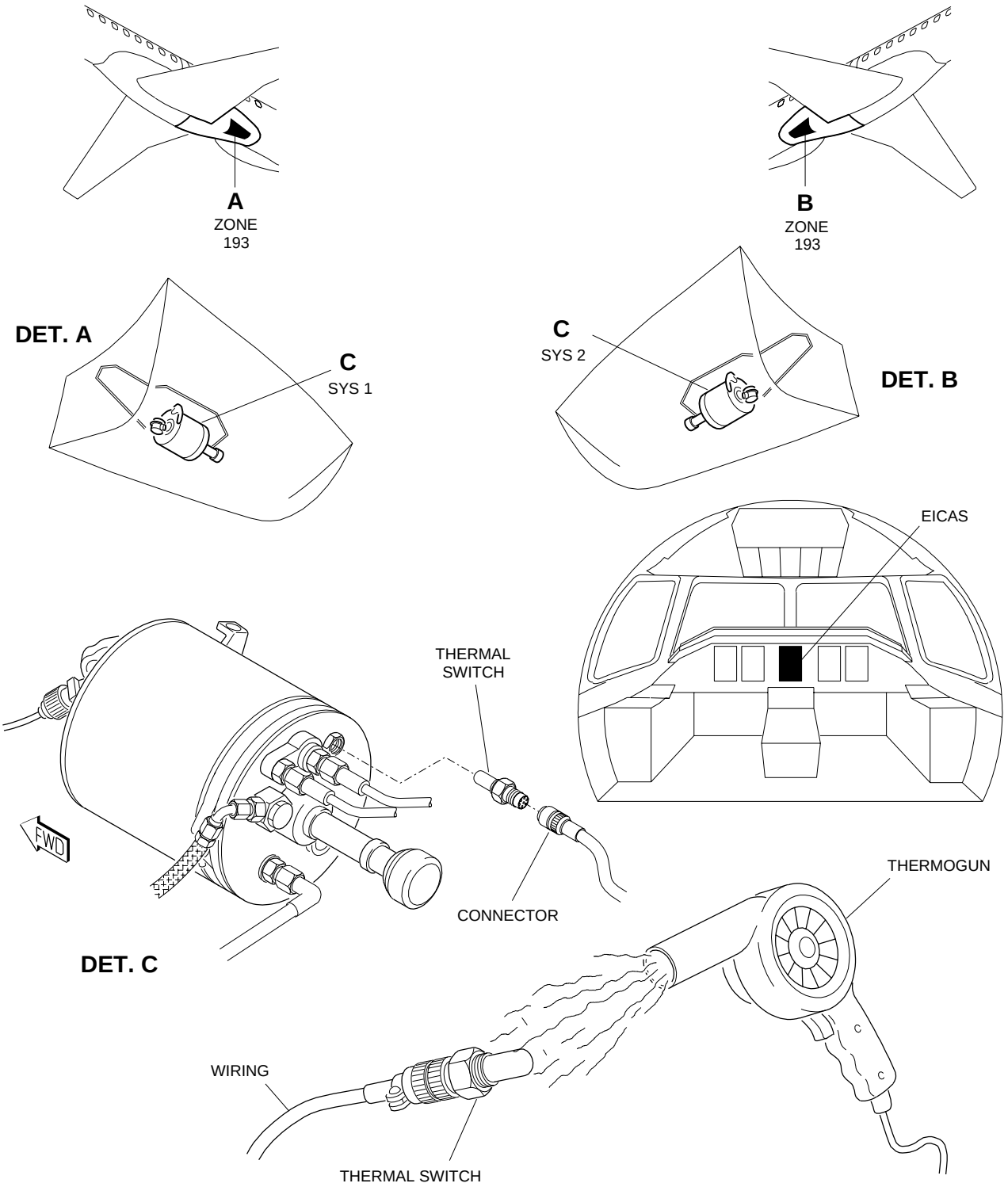
(2) Remove the thermometer.

(3) Install the thermal switches (AMM TASK 29-30-05-400-801-A/400).

(4) Install access panels 193BL (SYS 1) and 193CR (SYS 2) (AMM MPP 06-41-00/100).

EFFECTIVITY: ALL

Thermal Switch - Operational Check
Figure 501



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