

THERMAL SWITCH - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the thermal switch.
- B. The thermal switch is installed in each reservoir.
- C. You can get access to the thermal switch of system 1 through access panel 193BL (AMM MPP 06-41-01/100).
- D. You can get access to the thermal switch of system 2 through access panel 193CR (AMM MPP 06-41-01/100).
- 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 |
|--------------------|-------------------------------|-------------|
| 29-30-05-000-801-A | THERMAL SWITCH - REMOVAL | ALL |
| 29-30-05-400-801-A | THERMAL SWITCH - INSTALLATION | ALL |



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 29-30-05-000-801-A

EFFECTIVITY: ALL

2. THERMAL SWITCH - REMOVAL

A. General

(1) This task gives the procedures to remove the thermal switch.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|---|
| AMM MPP 06-41-01/100 | - |
| AMM TASK 29-10-00-860-802-A/200 | HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP |

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

Not Applicable

E. Auxiliary Items

| ITEM | DESCRIPTION | PURPOSE | QTY |
|------------------------|---|---|-----|
| Commercially available | Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant | Protection for the hands | 1 |
| Commercially available | Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant | Protection for the eyes | 1 |
| Commercially available | Drip Pan | To collect the hydraulic fluid when you disconnect the hydraulic line | 1 |

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

| QTY | FUNCTION | PLACE |
|-----|---------------|--|
| 1 | Does the task | Hydraulic compartment of system 1 and system 2 |



I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the ELEC PUMP 1 and (or) ELEC PUMP 2 circuit breaker(s) and attach a DO-NOT-CLOSE tag to it (them).
- (2) Depressurize the related hydraulic system ([AMM TASK 29-10-00-860-802-A/200](#)).
- (3) Remove access panel 193BL and (or) 193CR (AMM MPP 06-41-01/100).

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

SUBTASK 020-002-A

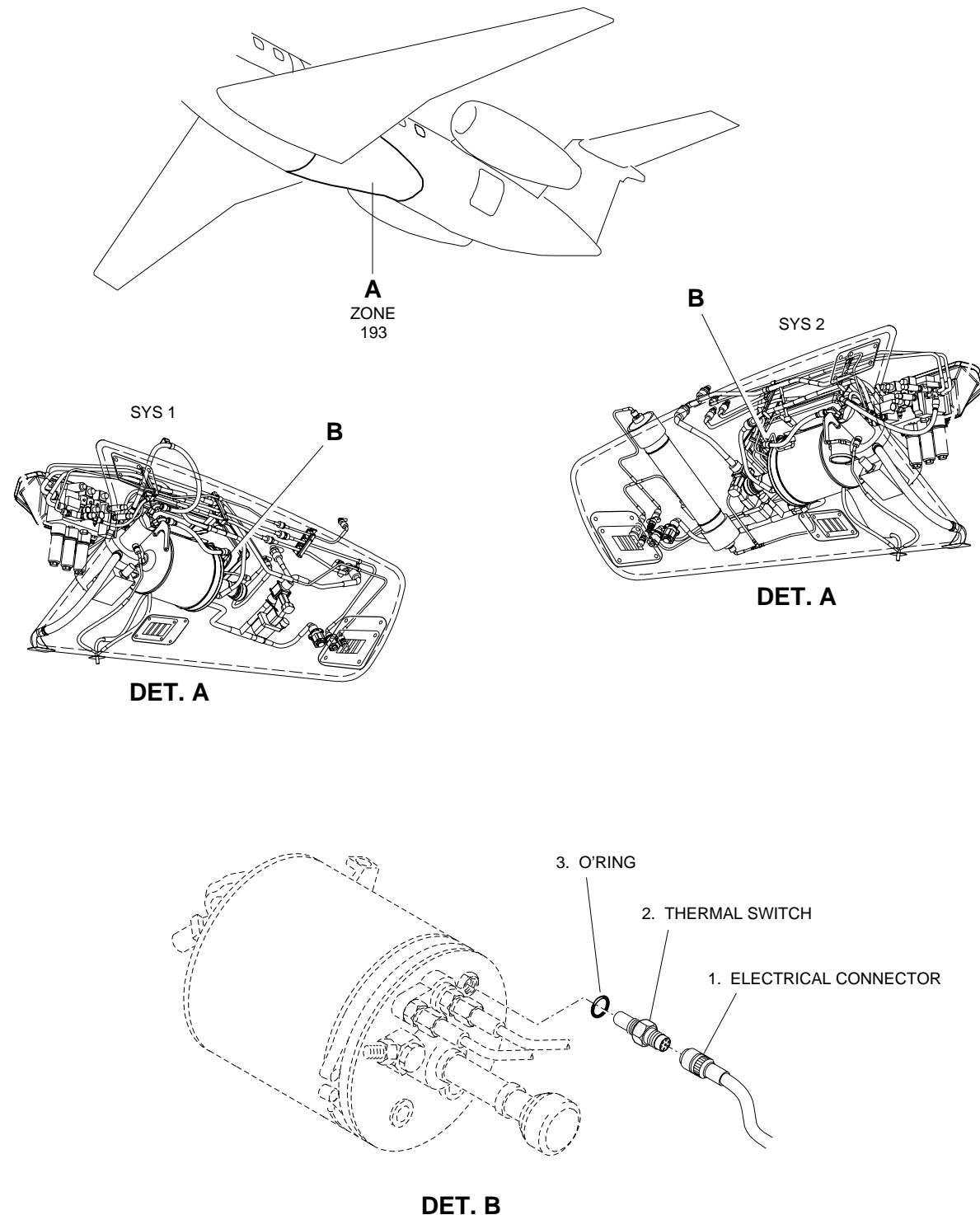
WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE GOGGLES AND RUBBER GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.

- (1) Disconnect the electrical connector (1).
- (2) Remove the thermal switch (2) with the related O-ring (3).
- (3) Discard the O-ring (3) removed in step (2).

EFFECTIVITY: ALL

Thermal Switch - Removal/Installation

Figure 401



TASK 29-30-05-400-801-A
EFFECTIVITY: ALL
3. THERMAL SWITCH - INSTALLATION
A. General

(1) This task gives the procedures to install the thermal switch.

B. References

| <i>REFERENCE</i> | <i>DESIGNATION</i> |
|---|--|
| AMM MPP 06-41-01/100 | - |
| AMM TASK 29-10-00-860-801-A/200 | HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS |
| AMM TASK 29-10-00-860-803-A/200 | HYDRAULIC SYSTEM - BLEED OF AIR |
| IPC 29-30-05 | THERMAL SWITCH |

C. Zones and Accesses

| <i>ZONE</i> | <i>PANEL/DOOR</i> | <i>LOCATION</i> |
|-------------|-------------------|-----------------------------------|
| 193 | 193BL | Hydraulic compartment of system 1 |
| 193 | 193CR | Hydraulic compartment of system 2 |

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

| <i>ITEM</i> | <i>DESCRIPTION</i> | <i>PURPOSE</i> | <i>QTY</i> |
|------------------------|---|--------------------------|------------|
| Commercially available | Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant | Protection for the hands | 1 |
| Commercially available | Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant | Protection for the eyes | 1 |

F. Consumable Materials

Not Applicable

G. Expendable Parts

| <i>ITEM</i> | <i>IPC REFERENCE (VENDOR REFERENCE)</i> | <i>QTY</i> |
|-------------|---|------------|
| O-ring | IPC 29-30-05 | 1/LRU |

H. Persons Recommended

| <i>QTY</i> | <i>FUNCTION</i> | <i>PLACE</i> |
|------------|-----------------|--|
| 1 | Does the task | Hydraulic compartment of system 1 and system 2 |



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the thermal switch (2) with the related new O-ring (3).
- (2) Connect the electrical connector (1).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the ELEC PUMP 1 and (or) ELEC PUMP 2 circuit breaker(s) and remove the DO-NOT-CLOSE tag from it (them).
- (2) Pressurize the related hydraulic system ([AMM TASK 29-10-00-860-801-A/200](#)) and make sure that there are no leaks in the thermal switch.
- (3) Do the bleed of air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (4) Install access panel 193BL and (or) 193CR (AMM MPP 06-41-01/100).