



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

THERMAL RELIEF VALVE - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do the functional check of the thermal relief valve.
- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
32-44-06-700-801-A ♦	THERMAL RELIEF VALVE - FUNCTIONAL CHECK	ALL



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TASK 32-44-06-700-801-A

EFFECTIVITY: ALL

2. THERMAL RELIEF VALVE - FUNCTIONAL CHECK

A. General

- (1) You must do this check at the test bench.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-44-06-000-801-A/400	THERMAL RELIEF VALVE OF THE EMERGENCY/PARKING BRAKE SYSTEM- REMOVAL
AMM TASK 32-44-06-400-801-A/400	THERMAL RELIEF VALVE OF THE EMERGENCY/PARKING BRAKE SYSTEM- INSTALLATION

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Hydraulic test bench (pressure of 4500 psi plus or minus 200 psi - for use with Skydrol)		

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	To do the test	Hydraulic test bench

I. Preparation

SUBTASK 841-002-A

- (1) Remove the thermal relief valve ([AMM TASK 32-44-06-000-801-A/400](#)).
- (2) Install the thermal relief valve on the hydraulic test bench.
- (3) Make sure that the hydraulic test bench has Skydrol fluid filtered to class 5 of NAS 1638 or better.



J. Functional Check of the Thermal Relief Valve ([Figure 501](#))

SUBTASK 720-002-A

- (1) With the valve port B open, close the pressure control valve and smoothly supply 31 MPa \pm 1.38 MPa (4500 psi \pm 200 psi) to the accumulator.
- (2) Slowly open the pressure control valve until the thermal relief valve opens.
 - The cracking pressure must be 26.54 MPa \pm 0.52 MPa (3850 psi \pm 75 psi).
- (3) Decrease the pressure smoothly and check that the thermal relief valve closes with a minimum pressure of 22.65 MPa (3285 psi).
- (4) Release the pressure.

K. Follow-on

SUBTASK 842-002-A

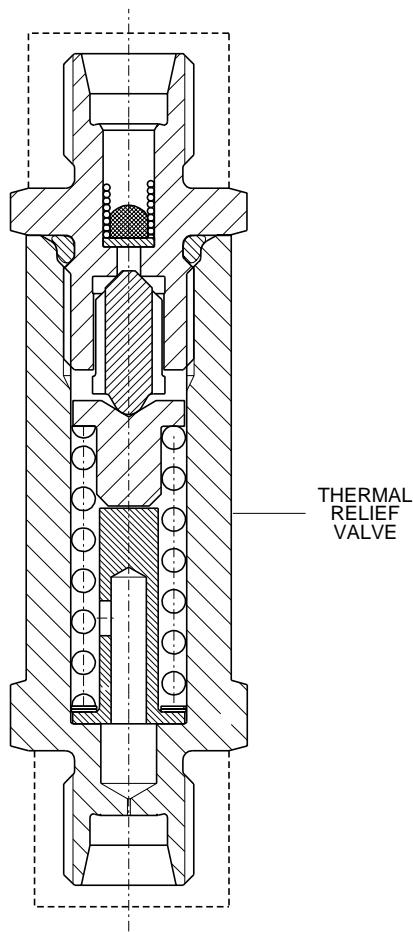
- (1) Remove the thermal relief valve from the hydraulic test bench.
- (2) Install the thermal relief valve ([AMM TASK 32-44-06-400-801-A/400](#)).

EFFECTIVITY: ALL

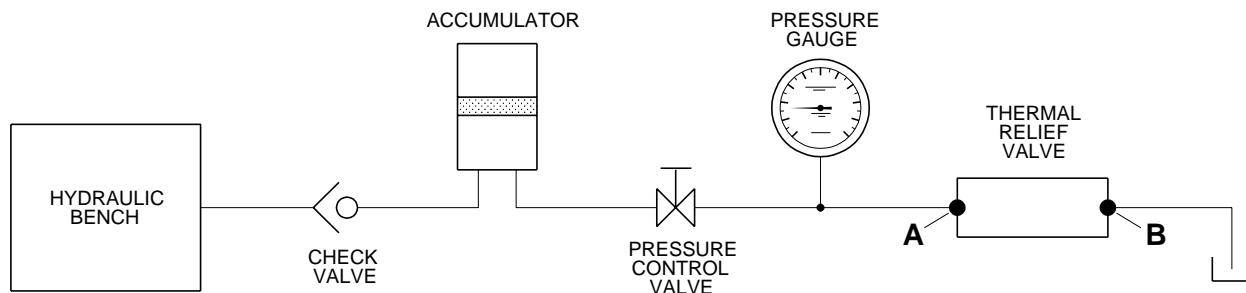
Test Set Up

Figure 501

PORT A



PORT B



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