



PRIORITY VALVE - ADJUSTMENT/TEST

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do a check of the priority 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).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
29-10-13-700-801-A ♦	PRIORITY VALVE - FUNCTIONAL CHECK	ALL

**TASK 29-10-13-700-801-A**
**EFFECTIVITY: ALL**
**2. PRIORITY VALVE - FUNCTIONAL CHECK**
**A. General**

- (1) The priority valve is installed only in hydraulic system 1.
- (2) If the pressure decreases below 2400 psi, replace the priority valve ( [AMM TASK 29-10-13-000-801-A/400](#)).

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
<a href="#">AMM SDS 34-22-00/1</a>	
AMM TASK 07-10-00-500-801-A/200	-
AMM TASK 07-10-00-500-802-A/200	-
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
<a href="#">AMM TASK 29-10-00-860-801-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
<a href="#">AMM TASK 29-10-00-860-802-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
<a href="#">AMM TASK 29-10-13-000-801-A/400</a>	PRIORITY VALVE - REMOVAL
<a href="#">AMM TASK 32-00-01-910-801-A/200</a>	LG SAFETY PIN - INSTALLATION AND REMOVAL

**C. Zones and Accesses**

Not Applicable

**D. Tools and Equipment**

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Stopwatch	To measure the time for LG retraction	
Commercially available	Fences (LH MLG, RH MLG, and NLG)	To isolate the LG retraction area	

**E. Auxiliary Items**

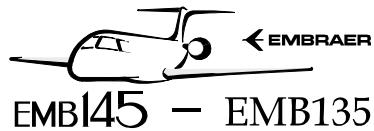
Not Applicable

**F. Consumable Materials**

Not Applicable

**G. Expandable Parts**

Not Applicable



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit

I. Preparation

SUBTASK 841-002-A

- (1) Lift the aircraft on jacks (AMM TASK 07-10-00-500-801-A/200).
- (2) Isolate the area of operation of the landing gears (LH MLG, RH MLG and NLG) with fences.
- (3) Make sure that the LG safety pins were removed ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (4) Energize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (5) Set MFD 1 (2) to the HYD page ([AMM SDS 34-22-00/1](#)).
- (6) Pressurize hydraulic system 1 with the EMDP ( [AMM TASK 29-10-00-860-801-A/200](#)).

J. Functionally Check Priority Valve ([Figure 501](#))

SUBTASK 720-002-A

- (1) Do the priority valve check as follows:
  - (a) Set the landing gear control lever to the UP position.  
Result:
    - 1 The pressure of hydraulic system 1 must not decrease below 2400 psi.
    - 2 The time for retraction of the landing gears is 13 seconds maximum.
- (2) If the priority valve does not reach the values above, replace it according to the [AMM TASK 29-10-13-000-801-A/400](#).

K. Follow-on

SUBTASK 842-002-A

- (1) Set the landing gear control lever to the DOWN position.
- (2) Depressurize hydraulic system 1 ( [AMM TASK 29-10-00-860-802-A/200](#)).
- (3) Deenergize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (4) Install the LG safety pins ( [AMM TASK 32-00-01-910-801-A/200](#)).
- (5) Remove the fences.
- (6) Lower the aircraft (AMM TASK 07-10-00-500-802-A/200).

**EFFECTIVITY: ALL**

Priority Valve - Functional Check

Figure 501

