



# AIRCRAFT MAINTENANCE MANUAL

## HYDRAULIC ACCUMULATOR - ADJUSTMENT/TEST

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedure to do the check of the nitrogen precharge on the emergency/parking-brake accumulator.
- 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
32-44-02-700-801-A ♦	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHECK	ALL
32-44-02-700-802-A	EMERGENCY/PARKING BRAKE ACCUMULATOR - LEAKAGE TEST	ALL

**TASK 32-44-02-700-801-A**
**EFFECTIVITY: ALL**
**2. EMERGENCY/PARKING BRAKE ACCUMULATOR - CHECK**
**A. General**

- (1) The emergency/parking brake accumulator is installed in the hydraulic system-2 compartment.

**B. References**

<i>REFERENCE</i>	<i>DESIGNATION</i>
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 10-10-01-500-801-A/200</a>	AIRCRAFT NORMAL PARKING
<a href="#">AMM TASK 29-10-00-860-801-A/200</a>	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
<a href="#">AMM TASK 32-44-02-600-801-A/300</a>	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
<a href="#">AMM TASK 32-44-02-910-801-A/200</a>	HYDRAULIC ACCUMULATOR EMERGENCY/PARKING BRAKE - RELEASE
FIM TASK 32-44-00-810-801-A	-

**C. Zones and Accesses**

<i>ZONE</i>	<i>PANEL/DOOR</i>	<i>LOCATION</i>
193	193JR	Hydraulic system-2 compartment

**D. Tools and Equipment**

Not Applicable

**E. Auxiliary Items**

Not Applicable

**F. Consumable Materials**

Not Applicable

**G. Expandable Parts**

Not Applicable

**H. Persons Recommended**

<i>QTY</i>	<i>FUNCTION</i>	<i>PLACE</i>
1	Does the task	Cockpit and hydraulic system-2 compartment

**I. Preparation**
**SUBTASK 841-002-A**

- (1) Put chocks at the landing gear wheels ([AMM TASK 10-10-01-500-801-A/200](#)).
- (2) Open access door 193JR (AMM MPP 06-41-01/100).



## AIRCRAFT MAINTENANCE MANUAL

### J. Functional Check of Hydraulic Accumulator for Nitrogen Precharge ([Figure 501](#))

#### SUBTASK 720-002-A

- (1) Fully release the pressure from the fluid chamber of the hydraulic accumulator of the emergency/parking brake system ([AMM TASK 32-44-02-910-801-A/200](#)).
- (2) Look to see that the EMERG BRK LO PRESS message is activated on the EICAS.
- (3) After a minimum of 3 (three) minutes, read the nitrogen pre-charge shown on the gage (1).

**NOTE:**

- The pressure to charge the accumulator at 21.1°C (70°F) is 2000 psi. To do the procedure at other ambient temperatures, refer to [Figure 501](#). Pressure variation of  $\pm$  50 PSI of reference pressure is permitted.
- If abnormal pressure drop occurs or you think that there is nitrogen leakage, refer to FIM TASK 32-44-00-810-801-A.
- If necessary, recharge the accumulator ([AMM TASK 32-44-02-600-801-A/300](#)).

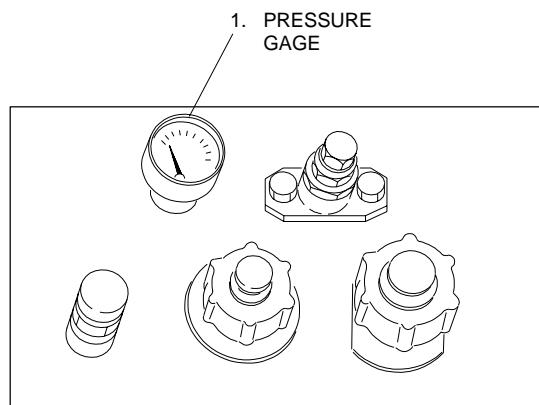
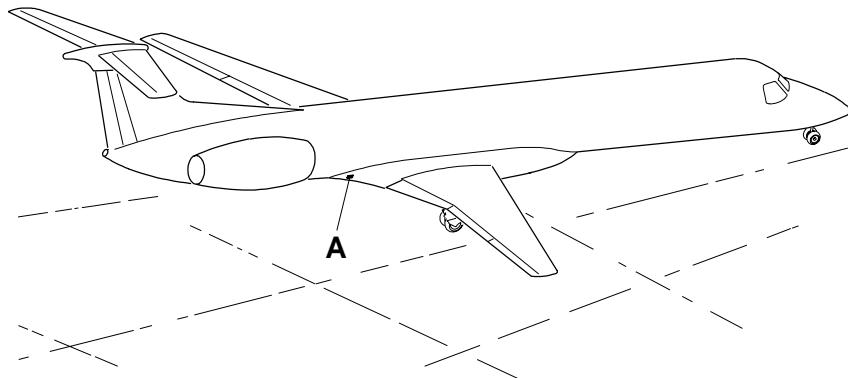
### K. Follow-on

#### SUBTASK 842-002-A

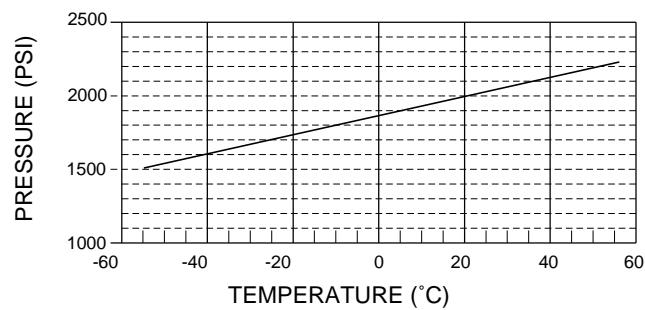
- (1) Pressurize hydraulic system 2 ([AMM TASK 29-10-00-860-801-A/200](#)) and make sure that the pressure on the pressure gage (1) is correct (2900  $\pm$  200 PSI).
- (2) Close access door 193JR (AMM MPP 06-41-01/100).

**EFFECTIVITY: ALL**

Emergency/Parking Brake Accumulator - Check  
Figure 501



**DET. A**



145AMM320019.MCE C



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 32-44-02-700-802-A

EFFECTIVITY: ALL

3. EMERGENCY/PARKING BRAKE ACCUMULATOR - LEAKAGE TEST

A. General

- (1) The emergency/parking brake accumulator is installed in the hydraulic system-2 compartment.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 10-10-01-500-801-A/200</a>	AIRCRAFT NORMAL PARKING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193JR	Hydraulic system-2 compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Brush	To apply the leak detector fluid	1

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-L-25567 or equivalent	LEAK TEC 160X leakage detector	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit and hydraulic system-2 compartment

I. Preparation

SUBTASK 841-003-A

- (1) Put chocks at the landing gear wheels ([AMM TASK 10-10-01-500-801-A/200](#)).
- (2) Open access door 193JR (AMM MPP 06-41-01/100).



## AIRCRAFT MAINTENANCE MANUAL

### J. Gas Leakage Test of Hydraulic Accumulator ([Figure 502](#))

#### SUBTASK 720-003-A

- (1) Use a brush to apply the leak detection fluid to the hydraulic accumulator and its connections and examine them for gas leakage. Refer to [Figure 502](#).

### K. Follow-on

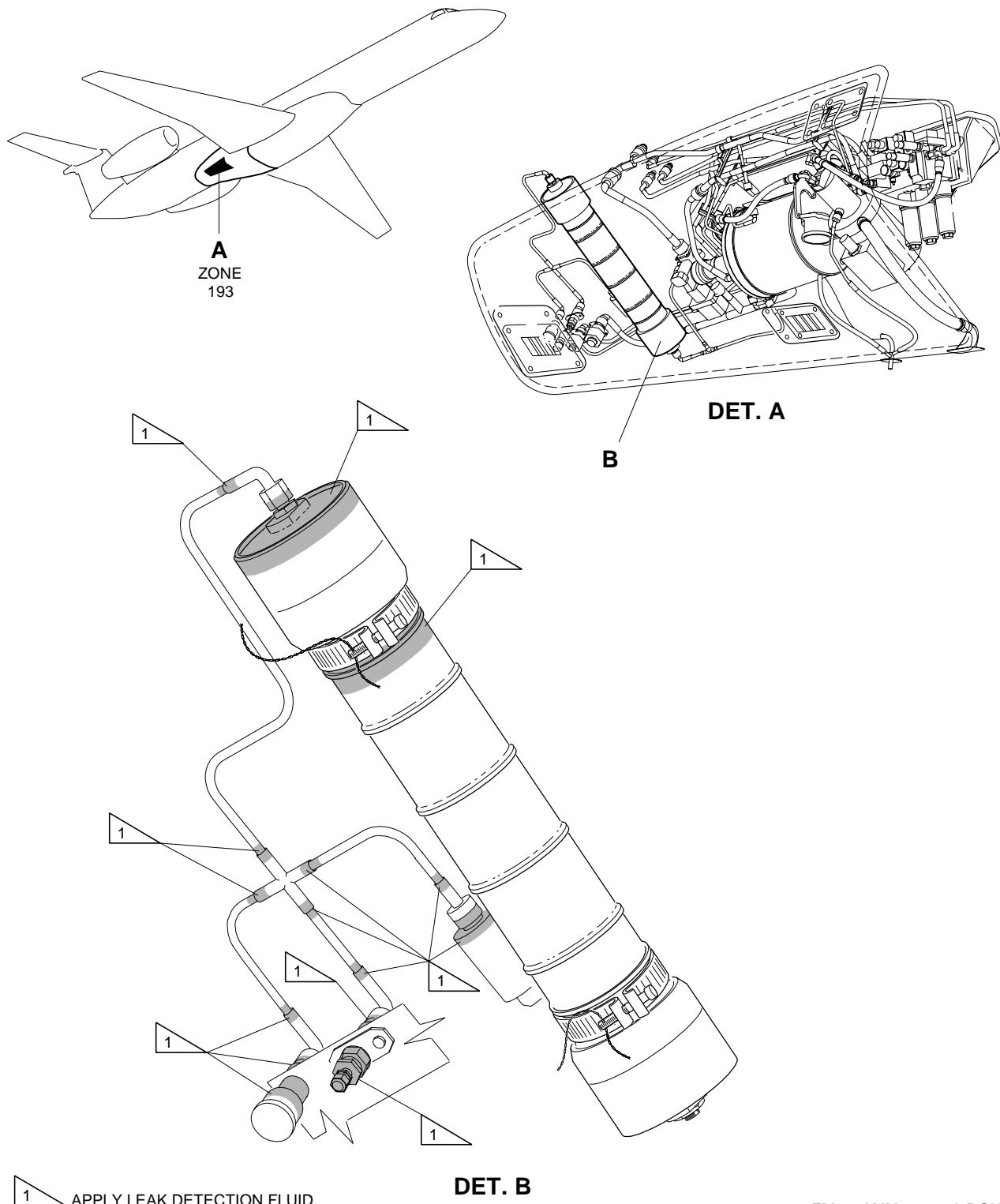
#### SUBTASK 842-003-A

- (1) Close access door 193JR (AMM MPP 06-41-01/100).

**EFFECTIVITY: ALL**

Emergency/Parking Brake Accumulator - Test for Leakage

Figure 502



EM145AMM320590A.DGN

