



AIRCRAFT MAINTENANCE MANUAL

HYDRAULIC ACCUMULATOR - SERVICING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to charge the emergency/parking brake accumulator with nitrogen.
- 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
32-44-02-600-801-A ♦	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE	ALL

TASK 32-44-02-600-801-A
EFFECTIVITY: ALL
2. EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
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	-
AMM TASK 10-10-01-500-801-A/200	AIRCRAFT NORMAL PARKING
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
AMM TASK 32-44-02-910-801-A/200	HYDRAULIC ACCUMULATOR EMERGENCY/PARKING BRAKE - RELEASE

C. Zones and Accesses

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

D. Tools and Equipment

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
GSE 024	Regulator - nitrogen service	To charge the accumulator	

E. Auxiliary Items

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>PURPOSE</i>	<i>QTY</i>
Commercially available	Nitrogen cylinder (3000 psi)	To store nitrogen	1
Commercially available	Brush	To apply the leak detector fluid	1

F. Consumable Materials

<i>SPECIFICATION (BRAND)</i>	<i>DESCRIPTION</i>	<i>QTY</i>
Spec BB-411, Type I, Class I, Grade B	Nitrogen	AR
MIL-L-25567 or equivalent	LEAK TEC 160X leakage detector	AR

G. Expandable Parts

Not Applicable



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	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).

J. Parking/Emerg. Brake Nitrogen Accumulator Pressure Charge ([Figure 301](#)) ([Figure 302](#))

SUBTASK 610-002-A

- (1) Fully release the pressure from the fluid chamber of the emergency/parking brake system hydraulic accumulator ([AMM TASK 32-44-02-910-801-A/200](#)).
- (2) Remove the cap (2) from the charging valve (3).
- (3) Connect the hose (4) of the nitrogen cylinder to the charging valve (3).
- (4) Open the cylinder valve (5) and adjust the pressure in the regulating valve (6) to the specified pressure. Refer to [Figure 301](#).
- (5) Open the charging valve (3).
- (6) Stop the nitrogen supply when the pressure gage (7) of the accumulator shows 2000 PSI.

NOTE: This pressure (2000 PSI) is for an ambient temperature of 21.1°C (70°F). For other ambient temperature refer to the graph.

- (7) Close the charging valve (3).
- (8) Close the cylinder valve (5).
- (9) Disconnect the hose (4) of the nitrogen cylinder.
- (10) Use a brush to apply the leak detection fluid to the charging valve and examine it for gas leakage. Refer to [Figure 302](#).
- (11) Install the cap (2) to charging valve (3).

K. Follow-on

SUBTASK 842-002-A

- (1) Pressurize the hydraulic system 2 ([AMM TASK 29-10-00-860-801-A/200](#)) and make sure that the pressure on the pressure gage (7) is correct (2900 ± 200 PSI).
- (2) Close the access door 193JR (AMM MPP 06-41-01/100).
- (3) Set the parking brake handle to the parking position.



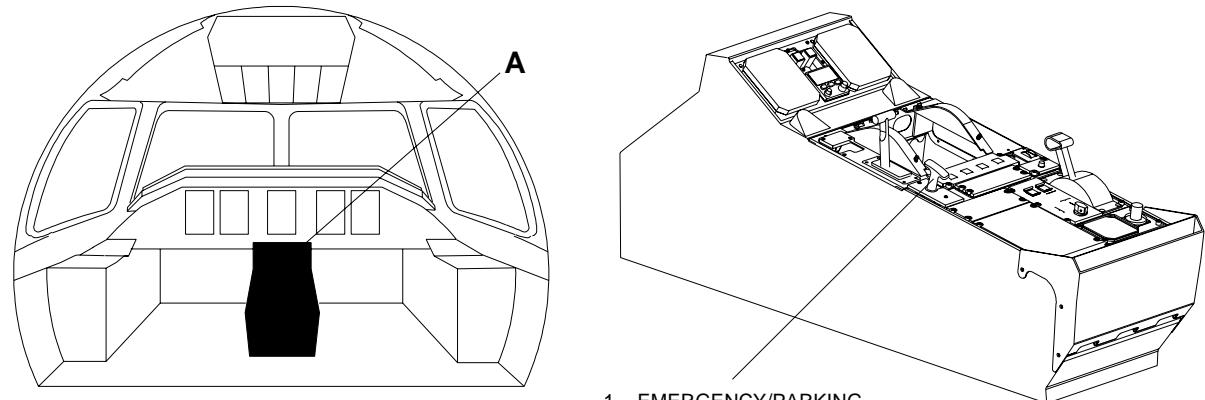
EMB145 - EMB135

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NOTE: To prevent hydraulic fluid transference from system 1 to system 2 or vice versa, first apply brakes with the pedals and then pull or release the emergency/parking brake handle.

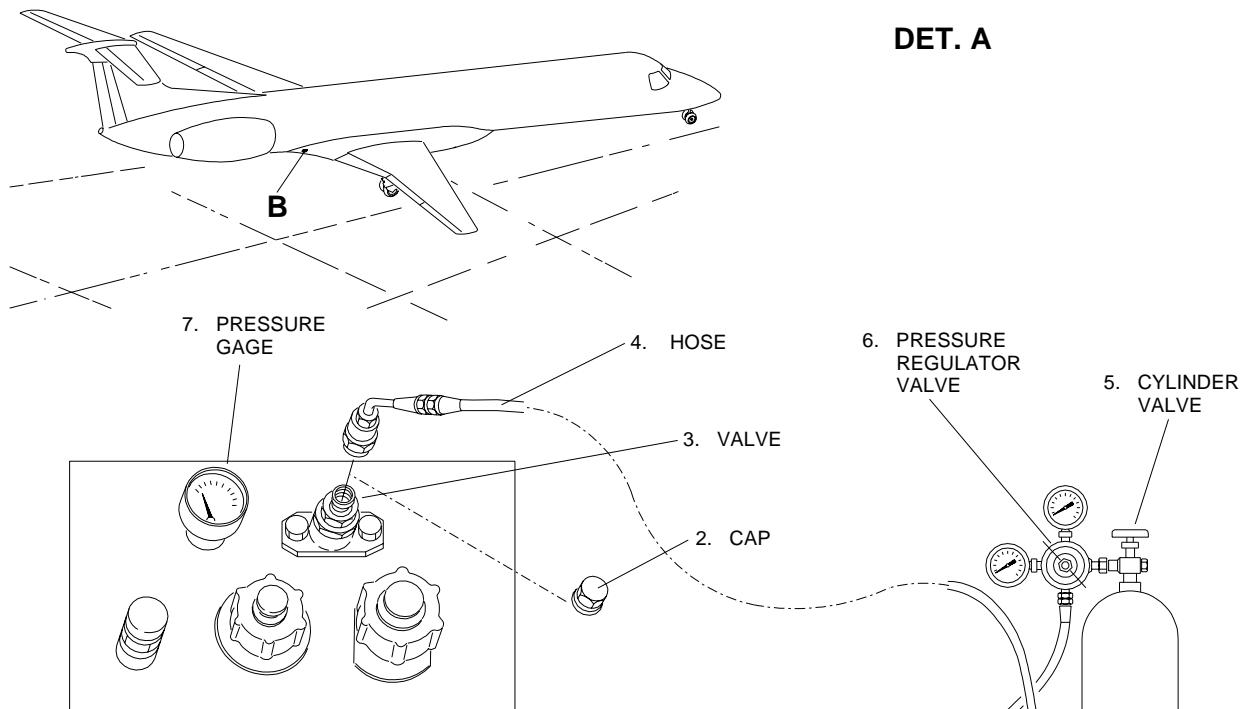
EFFECTIVITY: ALL

Emergency/Parking Brake Accumulator - Charge
Figure 301

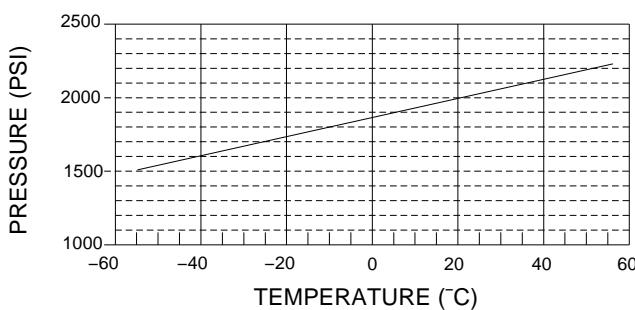


1. EMERGENCY/PARKING
BRAKE HANDLE

DET. A



DET. B



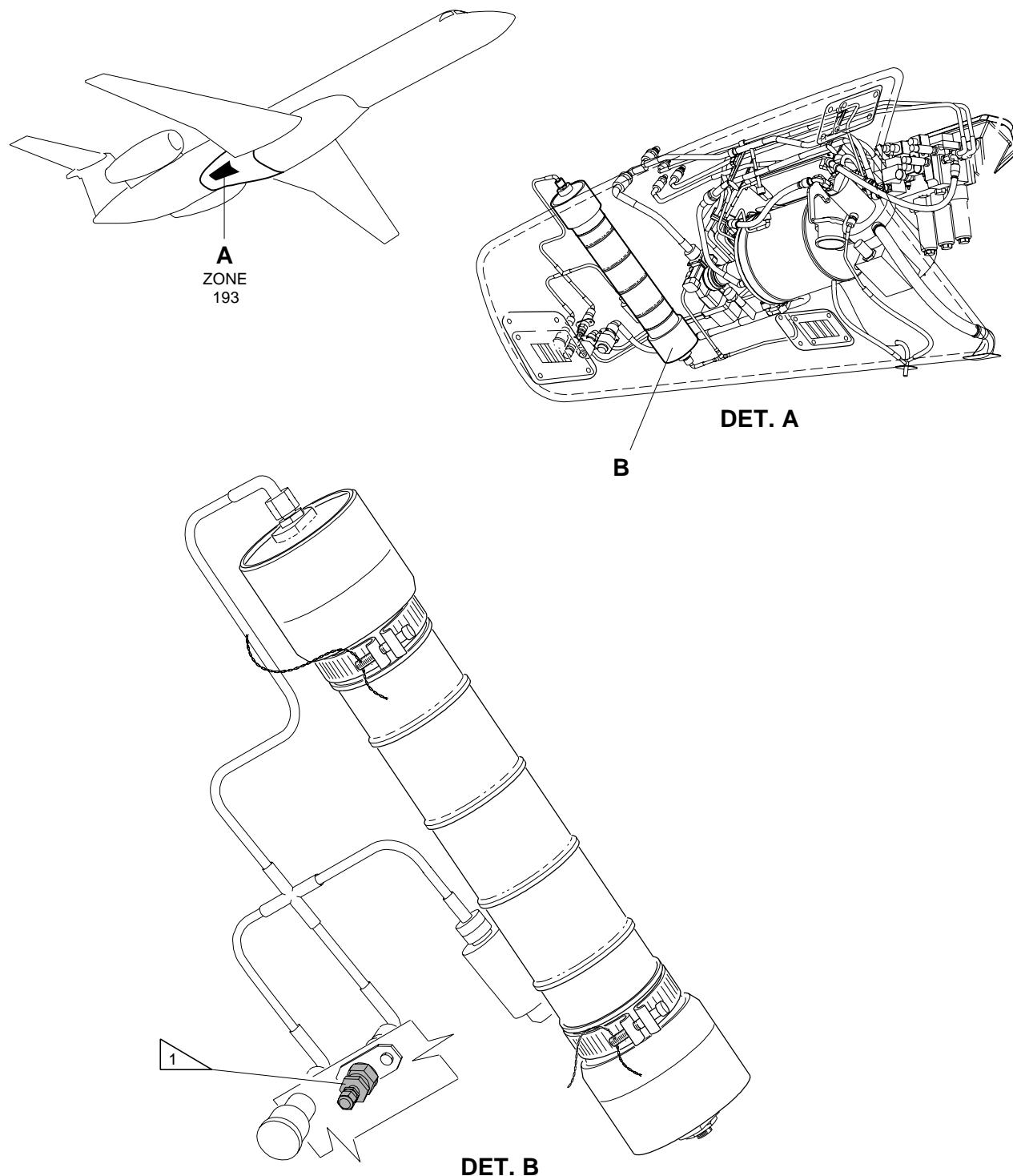
NITROGEN
CYLINDER

EM145AMM320686A.DGN

EFFECTIVITY: ALL

Emergency/Parking Brake Accumulator - Test for Leakage

Figure 302



 **1** APPLY LEAK DETECTION FLUID.

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