



AIRCRAFT MAINTENANCE MANUAL

LANDING GEAR AND MAIN DOOR ACCUMULATOR - SERVICING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to charge the landing gear and main door 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
12-13-06-600-801-A	LANDING GEAR AND MAIN DOOR ACCU- ALL MULATOR - CHARGE	



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 12-13-06-600-801-A

EFFECTIVITY: ALL

2. LANDING GEAR AND MAIN DOOR ACCUMULATOR - CHARGE

A. General

- (1) The charge valve of the landing gear and main door accumulator is installed in the hydraulic compartment, in the fuselage nose section.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Forward fuselage 1 - RH

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 024	Regulator - nitrogen service	To charge the accumulator	

E. Auxiliary Items

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

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
BB-N-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

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward fuselage 1 - RH



I. Preparation

SUBTASK 841-002-A

- (1) Open door 114CR (AMM MPP 06-41-01/100).
- (2) Open the oil-discharge valve (10) to fully release the hydraulic accumulator pressure.

NOTE: Make sure that there is no pressure in the hydraulic system.

J. Charging ([Figure 301](#)) ([Figure 302](#))

SUBTASK 610-002-A

- (1) Remove the protection cap (4) from the charging valve (1).
- (2) Install the hose (5) of the cylinder/regulating valve/pressure gage assembly (6) to the charging valve (1).
- (3) Open the cylinder valve (7) and adjust the pressure in the regulating valve (8) to the specified pressure. Refer to [Figure 301](#).
- (4) Read the indication on the pressure gage (9) of the assembly (6).
- (5) Slowly loosen the flow control nut (2) to pressurize the accumulator.

NOTE: The pressure to charge the accumulator at an ambient temperature of 21.1°C (70°F) is 1500 psi. To do the procedure at other temperatures, refer to Figure 301.

- (6) Tighten the flow control nut (2) to stop the supply of nitrogen. Do this when the pressure gage (3) of the accumulator shows the same pressure as the pressure gage (9) of the assembly (6).
- (7) Close the cylinder valve (7).
- (8) Remove the hose (5) of the assembly (6), from the charging valve (1).
- (9) Use a brush to apply the leak detection fluid to the charging valve and examine it for gas leakage. Refer to [Figure 302](#).
- (10) Install the protection cap (4) to the charging valve (1).

K. Follow-on

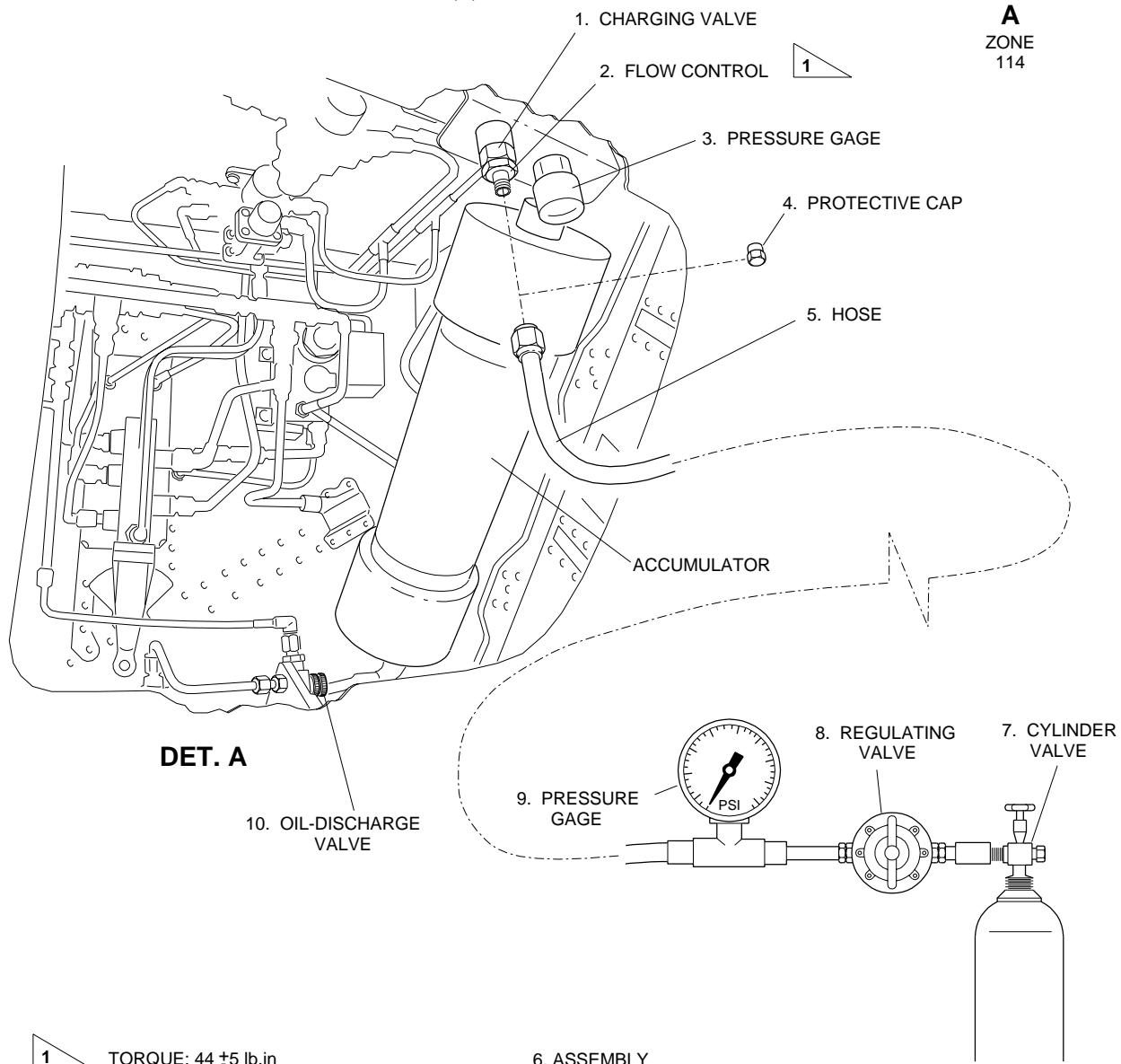
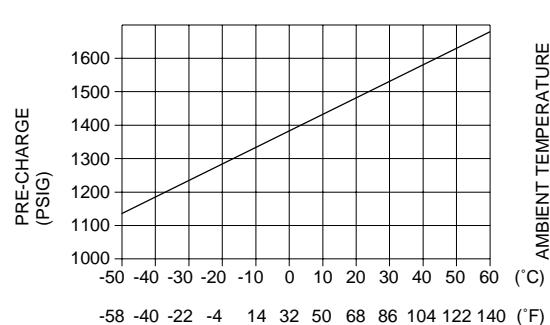
SUBTASK 842-002-A

- (1) Make sure that the oil-discharge valve (10) goes back to the closed position.
- (2) Close door 114CR (AMM MPP 06-41-01/100).

EFFECTIVITY: ALL

Landing-Gear and Passenger-Door Accumulator - Charge

Figure 301

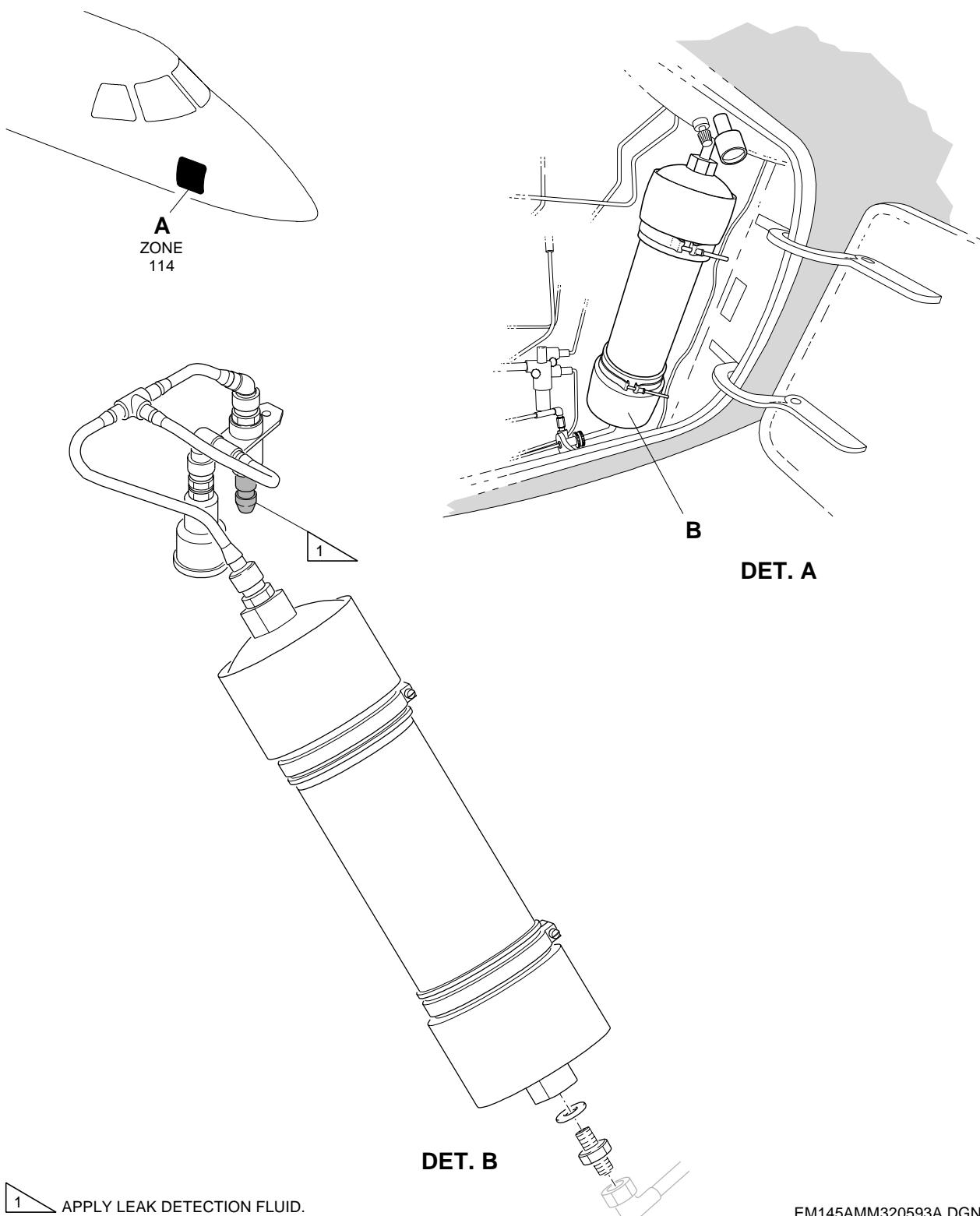

1

TORQUE: 44 ±5 lb.in

EFFECTIVITY: ALL

Landing-Gear and Passenger-Door Accumulator - Test For Leakage

Figure 302



EM145AMM320593A.DGN

