



## AIRCRAFT MAINTENANCE MANUAL

### MAIN-DOOR HYDRAULIC ACTUATION SYSTEM - ADJUSTMENT/TEST

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

#### 1. General

- A. This section gives the procedures to check the main-door alternative opening system and to do a check on the landing gear and main door 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
52-12-00-700-801-A ♦	MAIN-DOOR ALTERNATIVE OPENING SYSTEM - OPERATIONAL CHECK	AIRCRAFT WITH AIR-STAIRS DOOR
52-12-00-700-802-A ♦	LANDING-GEAR AND MAIN-DOOR HYDRAULIC ACCUMULATOR - INSPECTION	AIRCRAFT WITH AIR-STAIRS DOOR



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 52-12-00-700-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

2. MAIN-DOOR ALTERNATIVE OPENING SYSTEM - OPERATIONAL CHECK

A. General

- (1) This task gives the procedure to check the main-door alternative opening system.
- (2) When the light of the main-door internal control panel is on, the pressure at the hydraulic system 1 line is more than 2150 psi and it shows that there is a malfunction in the solenoid valve. The alternative discharge valve then discharges the pressure of the actuator hydraulic lines into the return line to permit the door to be opened.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
222	222GF	Cockpit
231	231CF	Center Fuselage I - LH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit
1	Helps the other technician	Door region

I. Preparation

SUBTASK 841-002-A

- (1) Make sure that the aircraft is deenergized ( [AMM TASK 20-40-01-860-801-A/200](#)).

J. Operationally Check Alternate Opening System ([Figure 501](#))

**SUBTASK 710-002-A**

- (1) Open the door.
- (2) Remove floor access panel 231CF (AMM MPP 06-41-02/100).
- (3) Energize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (4) On the HYD panel, set the SYS 1 ELECT PUMP switch to the ON position.
- (5) On the forward hydraulic compartment, make sure that the SYS 1 hydraulic accumulator is loaded.
- (6) On the HYD panel, set the SYS 1 ELECT PUMP switch to the OFF position.
- (7) Push the CLOSE button of the main-door internal control panel and keep it pushed to close the main door.
- (8) Open access door 222GF.
- (9) Turn the alternative opening valve fully clockwise to operate it, and keep it in this position for at least two minutes.
  - (a) Make sure that the main door opens.
- (10) Release the alternative opening valve.
- (11) Close access door 222GF.
- (12) Close floor access panel 231CF.

K. Follow-on

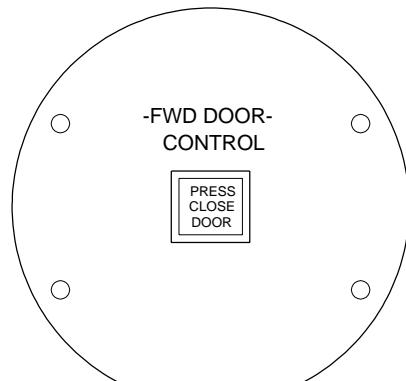
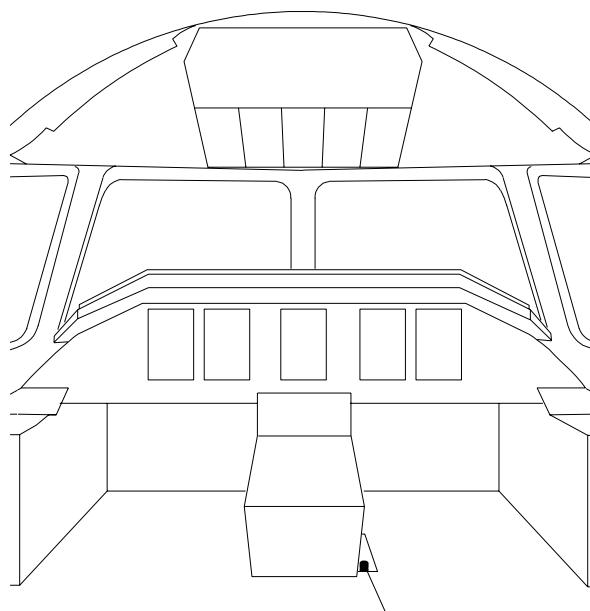
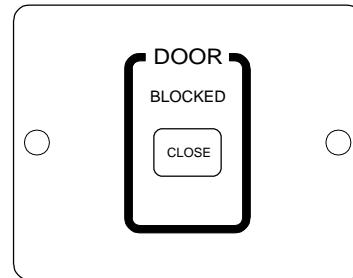
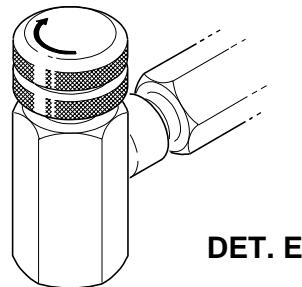
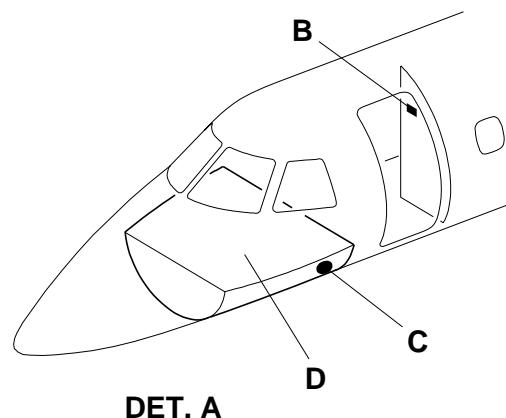
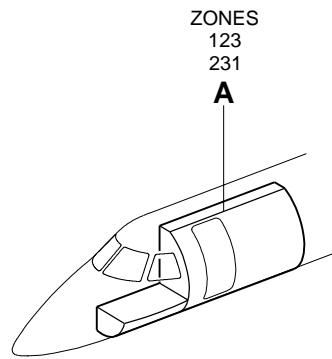
**SUBTASK 842-002-A**

- (1) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

**EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR**

Operationally Check Alternate Opening System

Figure 501



145AMM520078.MCE C



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TASK 52-12-00-700-802-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

3. LANDING-GEAR AND MAIN-DOOR HYDRAULIC ACCUMULATOR - INSPECTION

A. General

- (1) The pressure gage 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	-
<a href="#">AMM TASK 12-13-06-600-801-A/300</a>	LANDING GEAR AND MAIN DOOR ACCUMULATOR - CHARGE

C. Zones and Accesses

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

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

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

I. Preparation

SUBTASK 841-003-A

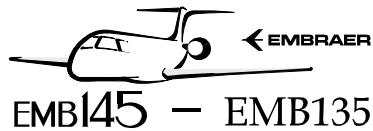
- (1) Open door 114CR (AMM MPP 06-41-01/100).

J. Functionally Check Main Door Hydraulic Accumulator Nitrogen Charge ([Figure 502](#))

SUBTASK 720-002-A

- (1) Operate the accumulator oil-discharge valve.

- (2) After two minutes, read the nitrogen precharge shown on the page.



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

- 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 502](#).
  - If necessary, recharge the accumulator ([AMM TASK 12-13-06-600-801-A/300](#)).

K. Follow-on

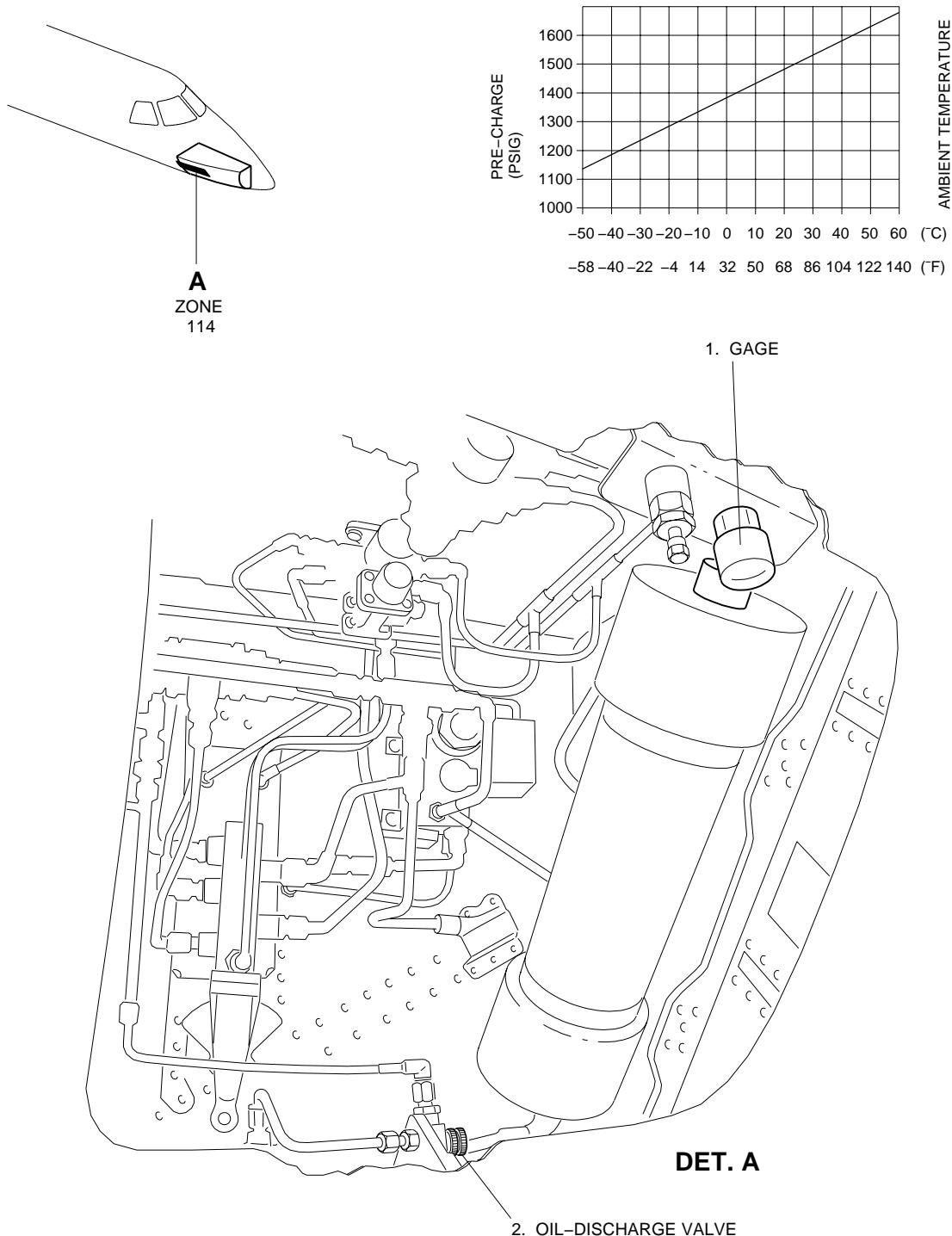
SUBTASK 842-003-A

- (1) Close door 114CR (AMM MPP 06-41-01/100).

**EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR**

Landing-Gear and Main-Door Hydraulic Accumulator - Inspection

Figure 502



EM145AMM120196A.DGN

