

## 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 AIRSTAIRS DOOR
52-12-00-700-802-A ♦	LANDING-GEAR AND MAIN-DOOR HYDRAULIC ACCUMULATOR - INSPECTION	AIRCRAFT WITH AIRSTAIRS DOOR

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	-
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	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

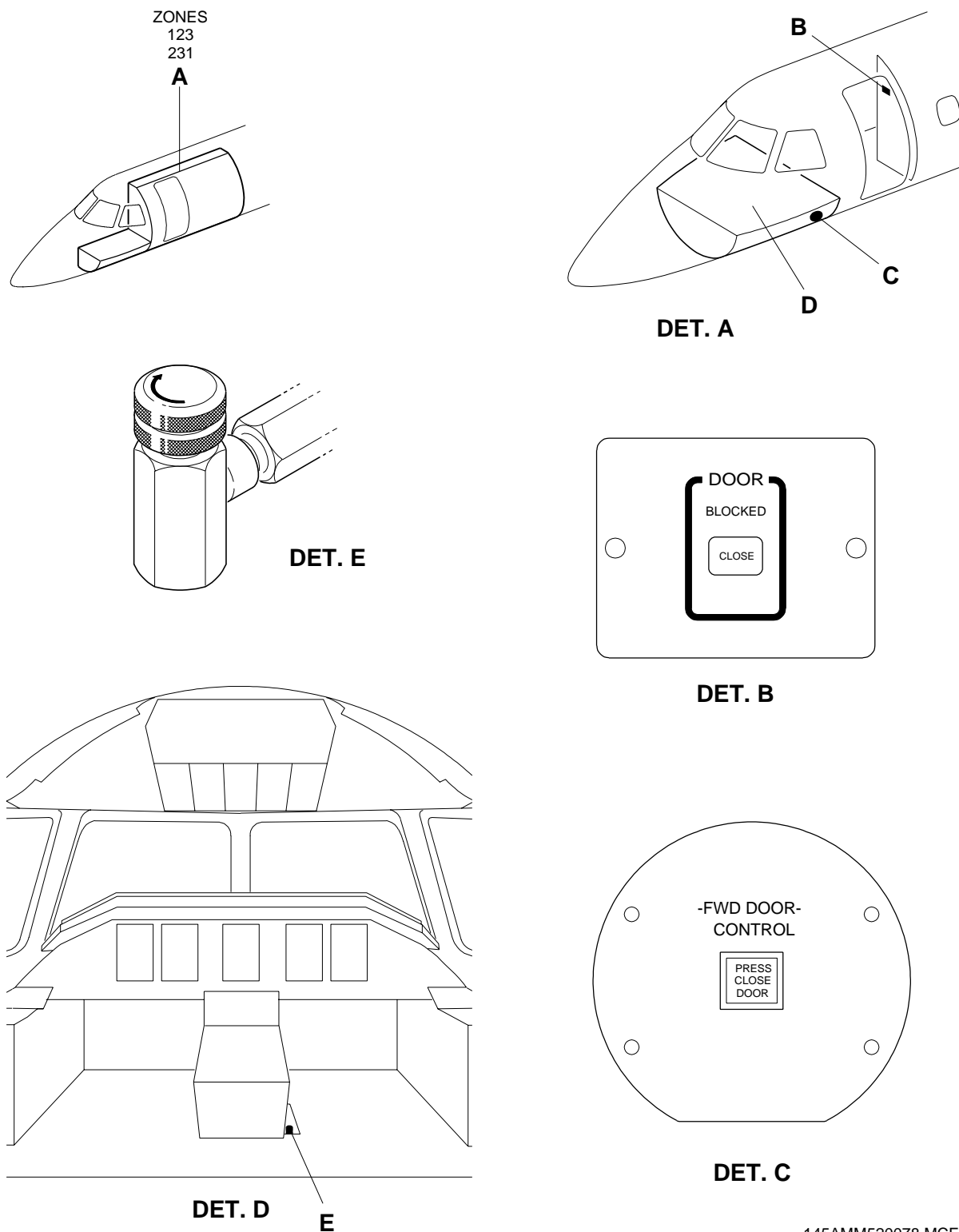
*SUBTASK 842-002-A*

- (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



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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.

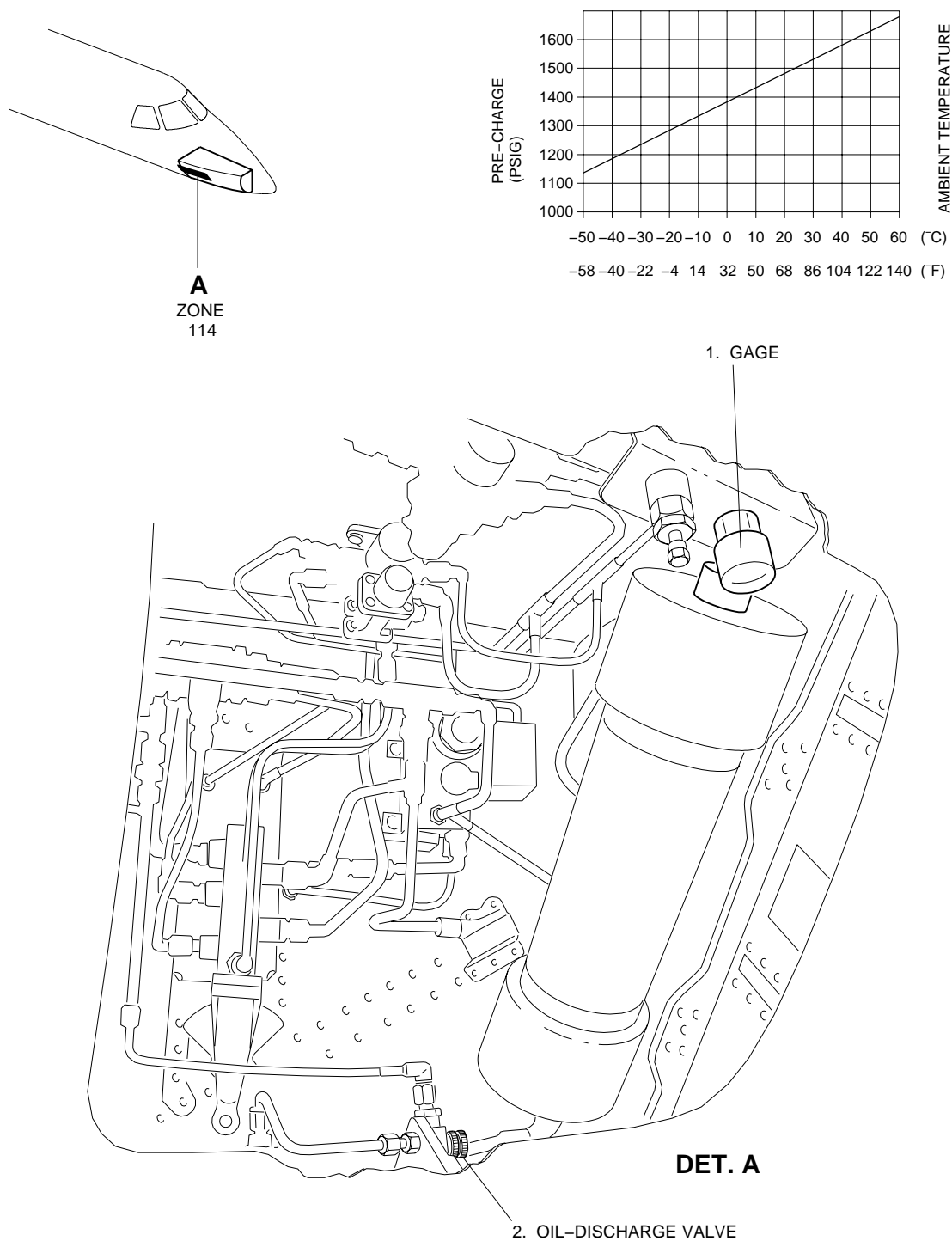
- NOTE:
- The pressure to charge the accumulator at an ambient temperature of 21.1°C (70°F) is 1500 psi. To do the procedure at other temperatures, refer to [Figure 502](#).
  - If necessary, recharge the accumulator ([AMM TASK 12-13-06-600-801-A/300](#)).

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



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