



AIRCRAFT MAINTENANCE MANUAL

MAIN-DOOR SOLENOID VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

1. General

- A. This section gives the procedures to remove and install the solenoid valve of the main-door actuation system.
- 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
52-12-01-000-801-A	MAIN-DOOR-ACTUATION SYSTEM SOLENOID VALVE - REMOVAL	AIRCRAFT WITH AIR-STAIRS DOOR
52-12-01-400-801-A	MAIN-DOOR-ACTUATION SYSTEM SOLENOID VALVE - INSTALLATION	AIRCRAFT WITH AIR-STAIRS DOOR



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 52-12-01-000-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

2. MAIN-DOOR-ACTUATION SYSTEM SOLENOID VALVE - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the solenoid valve of the main-door-actuation system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Nose Hydraulic Compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the Hands	1
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the Eyes	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the ELEC PUMP 1 circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) Open access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (3) Depressurize the hydraulic system ([AMM TASK 29-10-00-860-802-A/200](#)).
- (4) Fully release the pressure in the fluid chamber of the hydraulic accumulator of the main-door-actuation system. For this, open the discharge valve and monitor the pressure gage until it shows the nitrogen precharge.

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

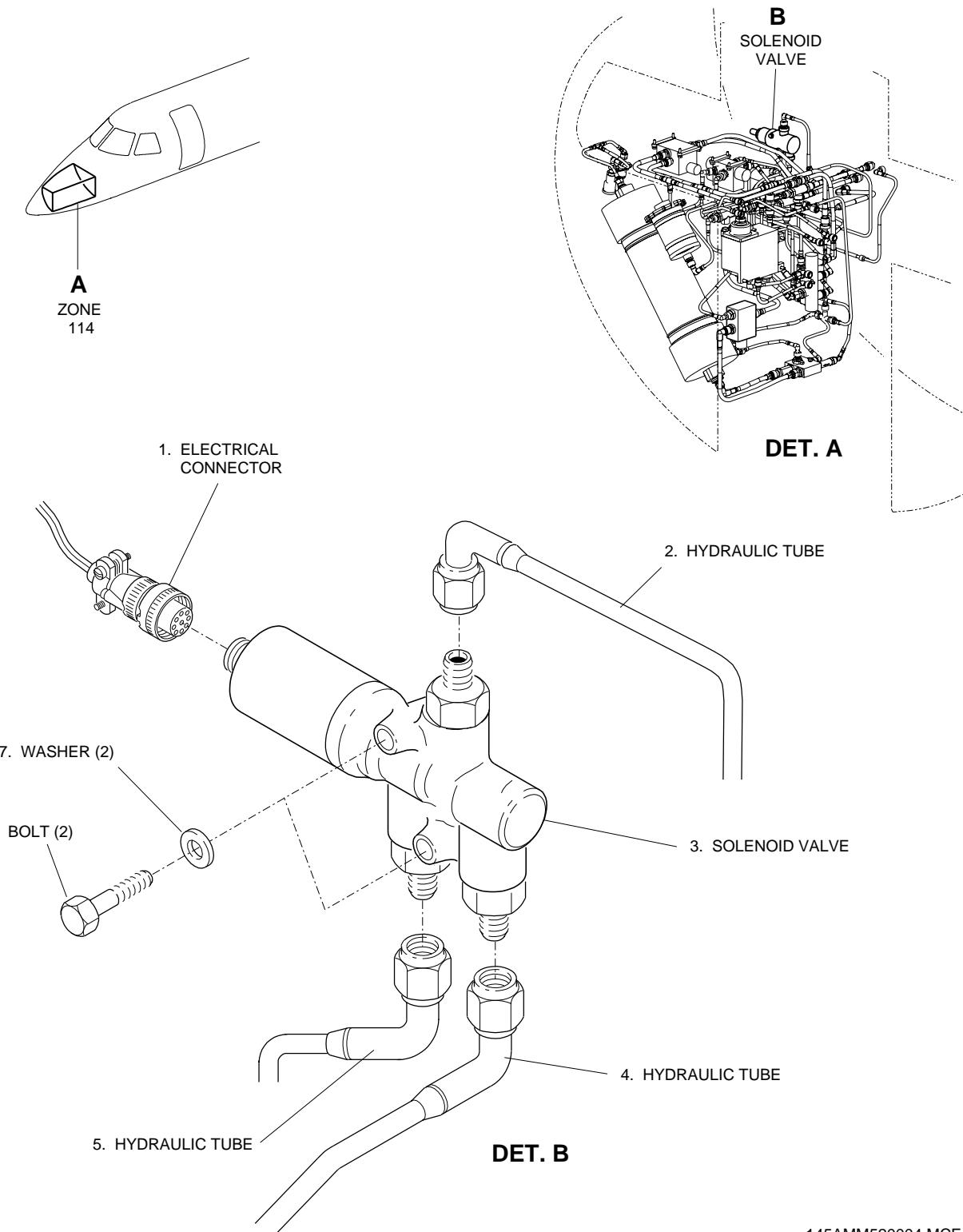
WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.

- (1) Disconnect the electrical connector (1).
- (2) Disconnect the hydraulic tubes (2), (4), and (5).
- (3) Remove the two bolts (6) and washers (7).
- (4) Remove the solenoid valve (3).

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Solenoid Valve of the Main-Door-Actuation System - Removal/Installation

Figure 401

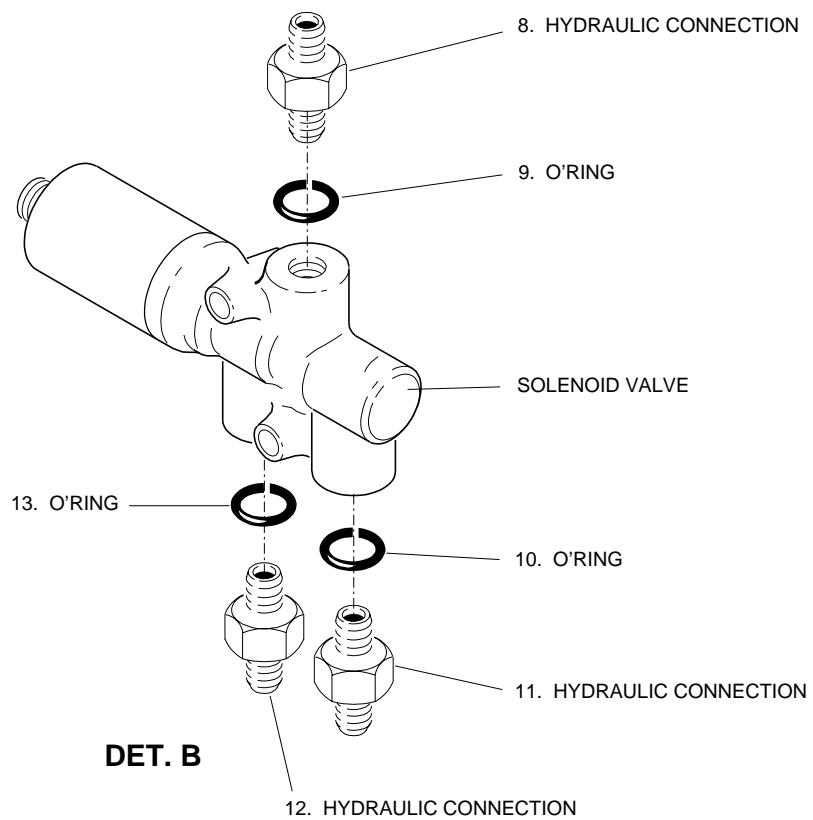
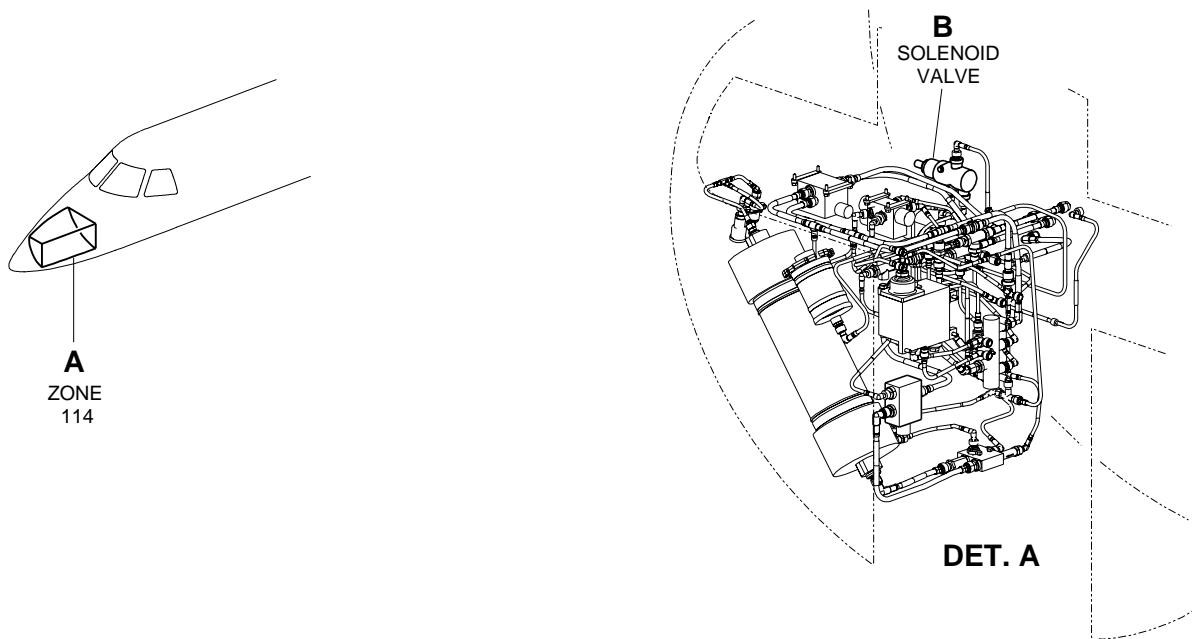


145AMM520004.MCE B

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

Solenoid Valve of the Main-Door-Actuation System - Removal/Installation

Figure 402



145AMM520005.MCE C



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 52-12-01-400-801-A

EFFECTIVITY: AIRCRAFT WITH AIRSTAIRS DOOR

3. MAIN-DOOR-ACTUATION SYSTEM SOLENOID VALVE - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the solenoid valve of the main-door-actuation system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
IPC 52-12-00	MAIN DOOR - LIFTING AND LOWERING SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	Nose hydraulic compartment

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Rubber Gloves, Phosphate Ester-Base, Fluid-Resistant	Protection for the hands	1
Commercially available	Rubber Goggles Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O'ring	IPC 52-12-00	3

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

I. Preparation (Figure 402)

SUBTASK 841-003-A

WARNING: THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL HELP.

- (1) Remove and keep the hydraulic connections (8), (11), and (12).
- (2) Remove and discard the old O'rings (9), (10), and (13).
- (3) Install the new O'rings (9), (10), and (13).
- (4) Install the hydraulic connections (8), (11), and (12).

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the solenoid valve (3) in its installation position.
- (2) Install the two bolts (6) and washers (7).
- (3) Connect the hydraulic tubes (2), (4), and (5).
- (4) Connect the electrical connector (1).

K. Follow-on

SUBTASK 842-002-A

- (1) On the Circuit Breaker Panel, close the ELEC PUMP 1 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Pressurize hydraulic system 1 ([AMM TASK 29-10-00-860-802-A/200](#)).
- (3) Do a check on the hydraulic connections of the solenoid valve for leaks.
- (4) Do an operational check of the main door.
- (5) Close access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).

