



## AIRCRAFT MAINTENANCE MANUAL

### MAIN-DOOR ACTUATION-SYSTEM RESTRICTOR VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT LR MODEL WITH AIRSTAIRS DOOR

#### 1. General

- A. This section gives the procedures to remove and install the restrictor 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
52-12-15-000-801-A	MAIN-DOOR ACTUATION-SYSTEM RESTRICTOR VALVE - REMOVAL	AIRCRAFT LR MODEL WITH AIRSTAIRS DOOR
52-12-15-400-801-A	MAIN-DOOR ACTUATION-SYSTEM RESTRICTOR VALVE - INSTALLATION	AIRCRAFT LR MODEL WITH AIRSTAIRS DOOR



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TASK 52-12-15-000-801-A

EFFECTIVITY: AIRCRAFT LR MODEL WITH AIRSTAIRS DOOR

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

A. General

- (1) This procedure gives the instructions to remove the restrictor 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 841-003-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).



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(3) Totally release the pressure from the hydraulic system ([AMM TASK 29-10-00-860-802-A/200](#)).

(4) Totally release the pressure from 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 020-003-A

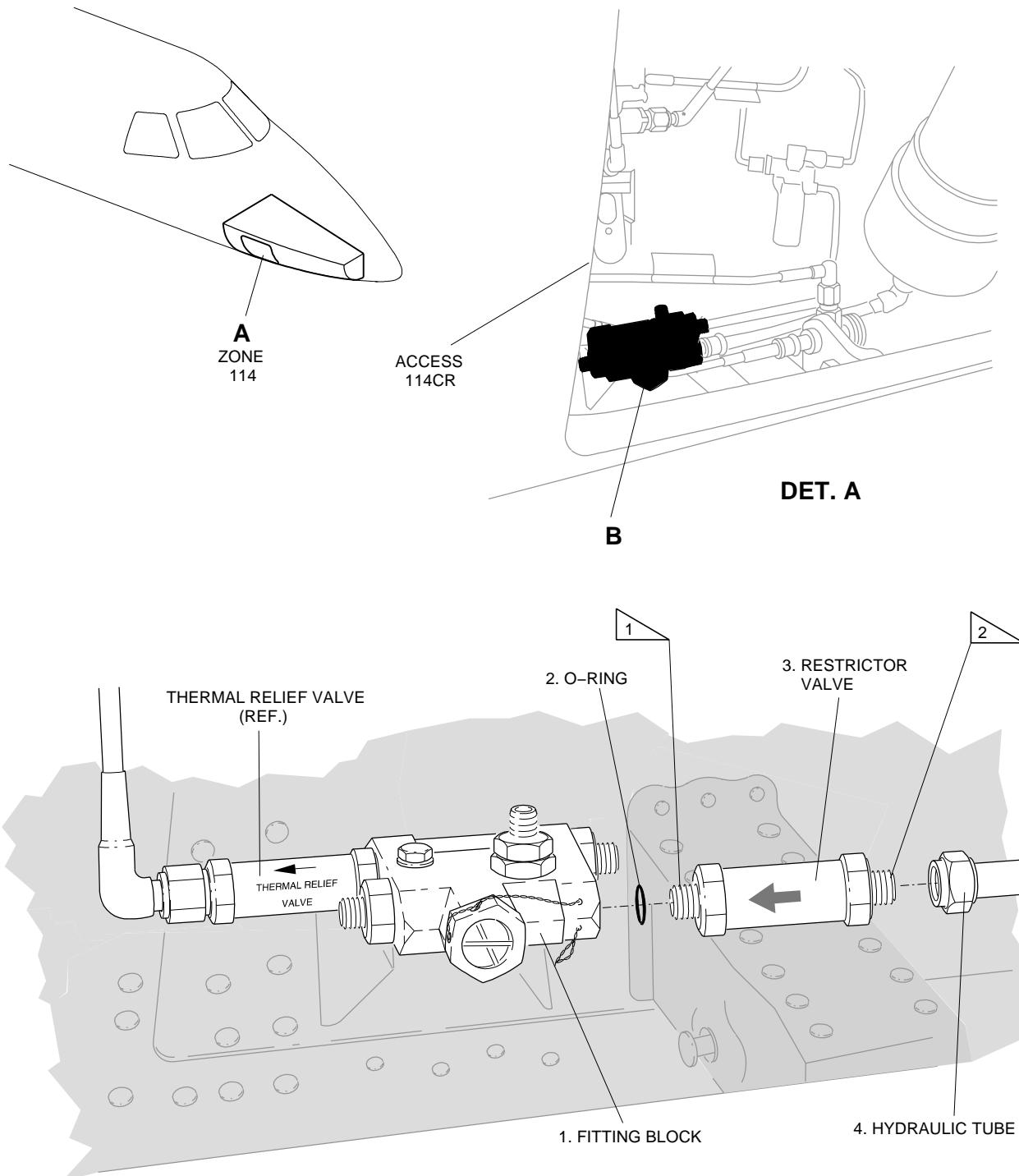
**WARNING:** THE HYDRAULIC SYSTEM CONTAINS PHOSPHATE-ESTER HYDRAULIC FLUID. THE FLUID CAN CAUSE IRRITATION IN YOUR SKIN OR INJURY TO YOUR EYES. USE THE APPLICABLE RUBBER GOGGLES AND GLOVES. IF THE FLUID TOUCHES YOU, FLUSH YOUR SKIN WITH WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL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

- (1) Disconnect the hydraulic tube (4).
- (2) Remove the restrictor valve (3) from the fitting block (1).
- (3) Remove and discard the old O-ring (2).

**EFFECTIVITY: AIRCRAFT LR MODEL WITH AIRSTAIRS DOOR**

Restrictor Valve - Removal/Installation

Figure 401



1 TORQUE: 17.51 – 18.64 N.m (155 – 165 lb.in)

2 TORQUE: 29.4 – 31.6 N.m (260 – 280 lb.in)

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TASK 52-12-15-400-801-A

EFFECTIVITY: AIRCRAFT LR MODEL WITH AIRSTAIRS DOOR

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

A. General

- (1) This procedure gives the instructions to install the restrictor 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	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Nose hydraulic compartment



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I. Installation (Figure 401)

SUBTASK 420-003-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) Put the new O-ring (2) in the restrictor valve (3).
- (2) Install the restrictor valve (3) to the fitting block (1).

**NOTE:** Make sure that the arrow marked in the valve body stays in a position where you can see it and that it is pointed to the solenoid valve.

- (3) Connect the hydraulic tube (4).

J. Follow-on

SUBTASK 842-003-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 restrictor valve for leaks.
- (4) Close access panel 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).