



AIRCRAFT  
MAINTENANCE MANUAL

**NOSE LANDING GEAR DOOR SOLENOID VALVE - REMOVAL/INSTALLATION**

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the solenoid valve of the nose-landing-gear doors.
- B. To get access to the solenoid valve of the NLG doors, you must open access door 114CR (AMM MPP 06-41-01/100).
- C. 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
32-33-02-000-801-A	NLG-DOOR SOLENOID-VALVE - REMOV- AL	ALL
32-33-02-400-801-A	NLG-DOOR SOLENOID-VALVE - INSTAL- LATION	ALL



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TASK 32-33-02-000-801-A

EFFECTIVITY: ALL

2. NLG-DOOR SOLENOID-VALVE - REMOVAL

A. General

(1) This task gives the procedures to remove the solenoid valve of the NLG doors.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 32-00-01-910-801-A/200</a>	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114CR	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 pair
Commercially available	Rubber Goggles, Phosphate Ester-Base, Fluid-Resistant	Protection for the eyes	1
Commercially available	Drip Pan	To collect the hydraulic fluid when you disconnect the hydraulic line	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) Make sure that the safety pins of the landing gears are installed ( [AMM TASK 32-00-01-910-801-A/200](#)).

- (2) On the circuit breaker panel, open the ELEC PUMP 1 and CMD circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (3) Control the ailerons up and down, or the rudder to the left and to the right, until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (4) Open the nose hydraulic compartment door 114CR (AMM MPP 06-41-01/100).
- (5) Release the pressure from the pax door/landing gear accumulator, installed in the nose hydraulic compartment. For this, open the discharge valve and monitor the pressure gage until it shows the nitrogen precharge.

J. Removal (Figure 401)

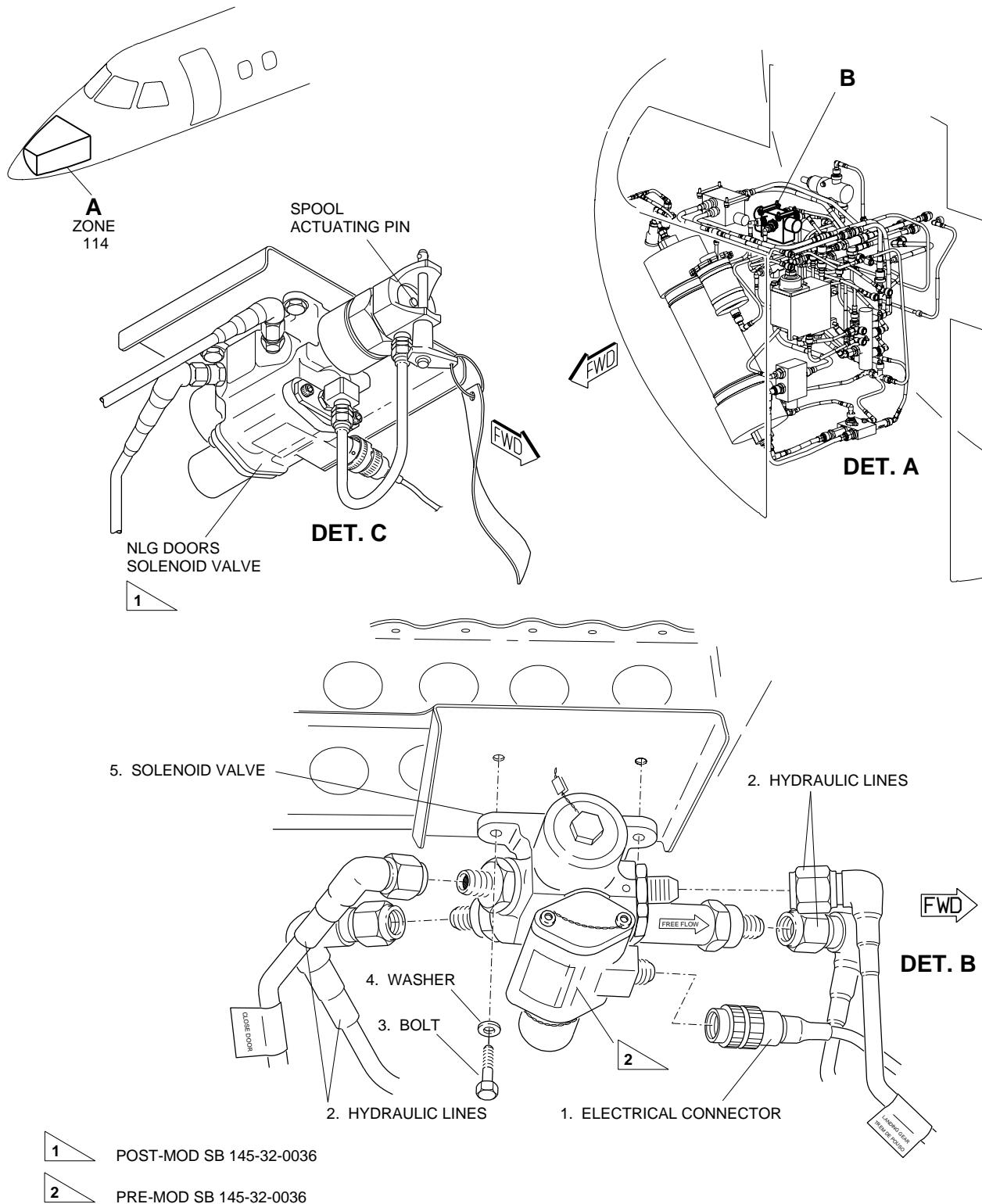
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (1).
- (2) Disconnect the hydraulic lines (2).
- (3) Remove the bolts (3) and washers (4) from the solenoid valve (5) of the NLG doors.
- (4) Remove the solenoid valve (5) of the NLG doors.

**EFFECTIVITY: ALL**

NLG-Doors Solenoid-Valve - Removal/Installation

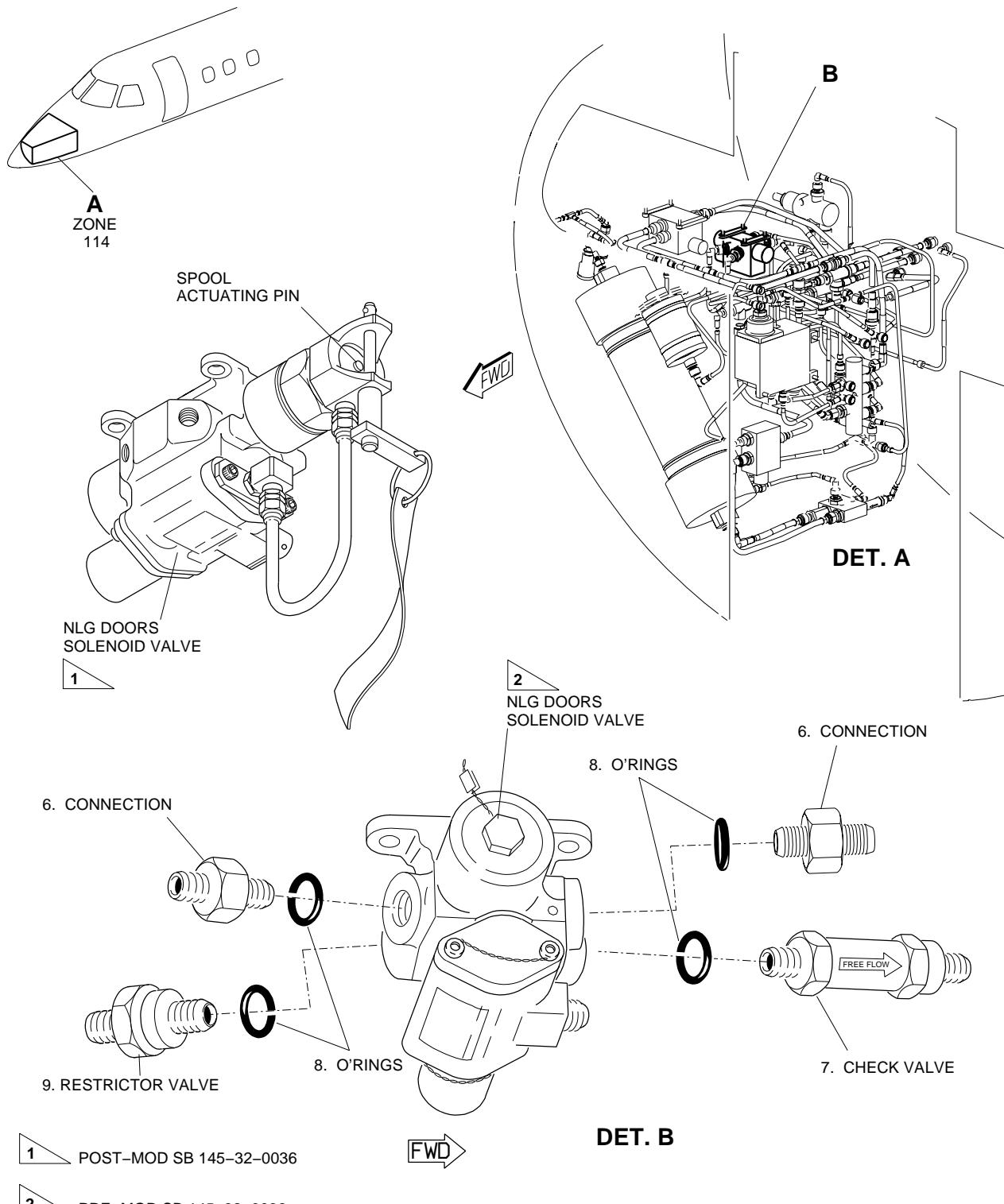
Figure 401



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**EFFECTIVITY: ALL**

Connections and Check Valves of the NLG-Door Solenoid-Valve- Removal/Installation  
Figure 402



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TASK 32-33-02-400-801-A

EFFECTIVITY: ALL

3. NLG-DOOR SOLENOID-VALVE - INSTALLATION

A. General

(1) This task gives the procedures for installation of the solenoid valve of the NLG doors.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR
AMM TASK 32-30-00-700-801-A/500	EXTENSION AND RETRACTION SYSTEM - OPERATIONAL CHECK
IPC 32-33-02	NLG DOORS SOLENOID VALVE

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-rings	IPC 32-33-02	4

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Hydraulic compartment



I. Preparation (Figure 402)

SUBTASK 841-003-A

- (1) Remove the connections (6), check valve (7), and restrictor valve (9) with the related O-rings (8) from the used solenoid valve of the NLG doors.
- (2) Discard the O-rings (8) removed in step (1).
- (3) Install the connections (6), check valve (7), and restrictor valve (9) with the related new O-rings (8) to the solenoid valve of the NLG doors.

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the solenoid valve (5) of the NLG doors on its support.
- (2) Install the washers (4) and bolts (3).
- (3) Connect the hydraulic lines (2).
- (4) Connect the electrical connector (1).

K. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the ELEC PUMP 1 and CMD circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (2) Do the bleed of air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (3) Do the operational check of the landing gear (extension/retraction cycle). Make sure that there are no leaks in the solenoid valve ([AMM TASK 32-30-00-700-801-A/500](#)).
- (4) Close nose-hydraulic-compartment door 114CR (AMM MPP 06-41-01/100).

