

## 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

**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 [\(Figure 401\)](#)

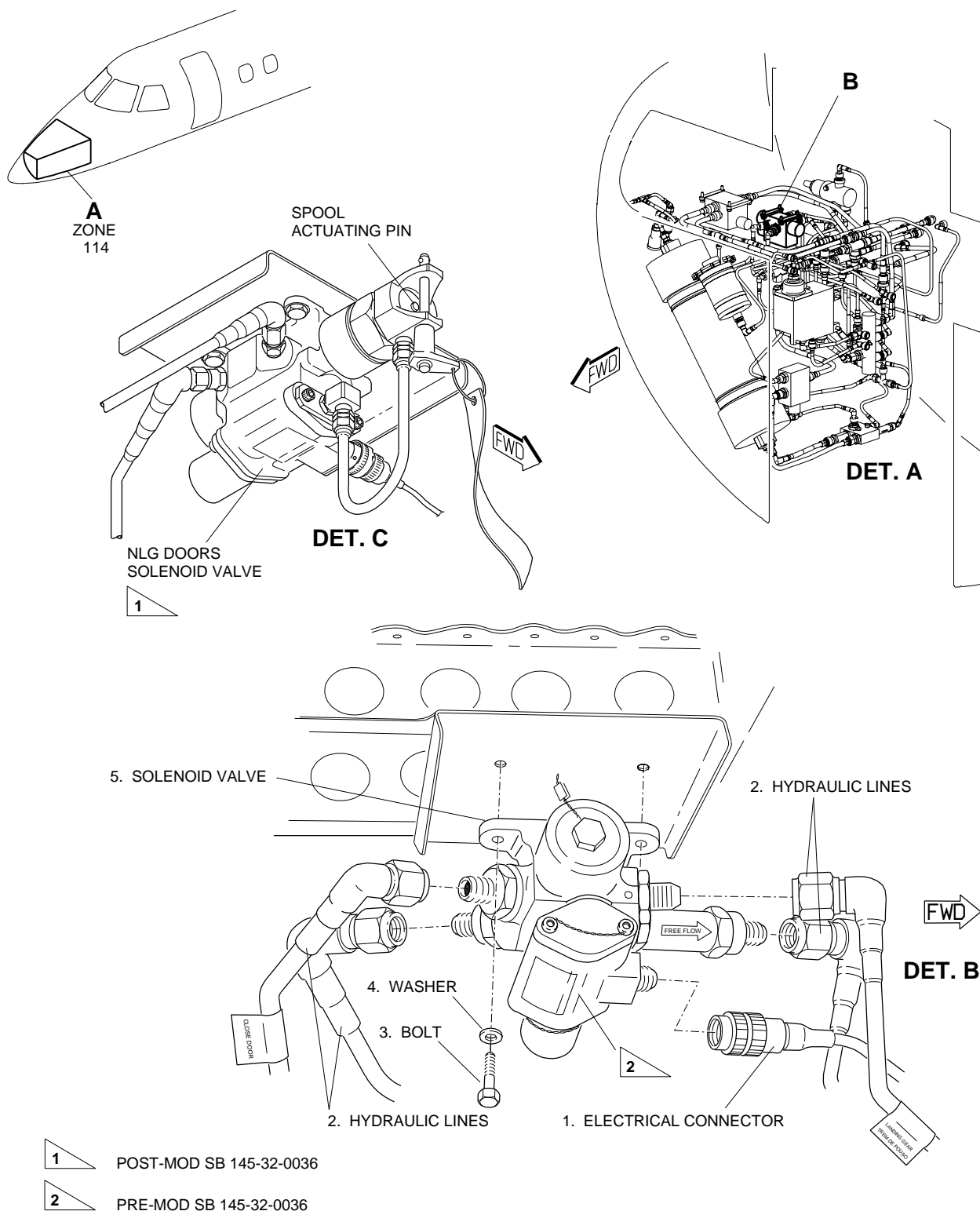
*SUBTASK 020-002-A*

- (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

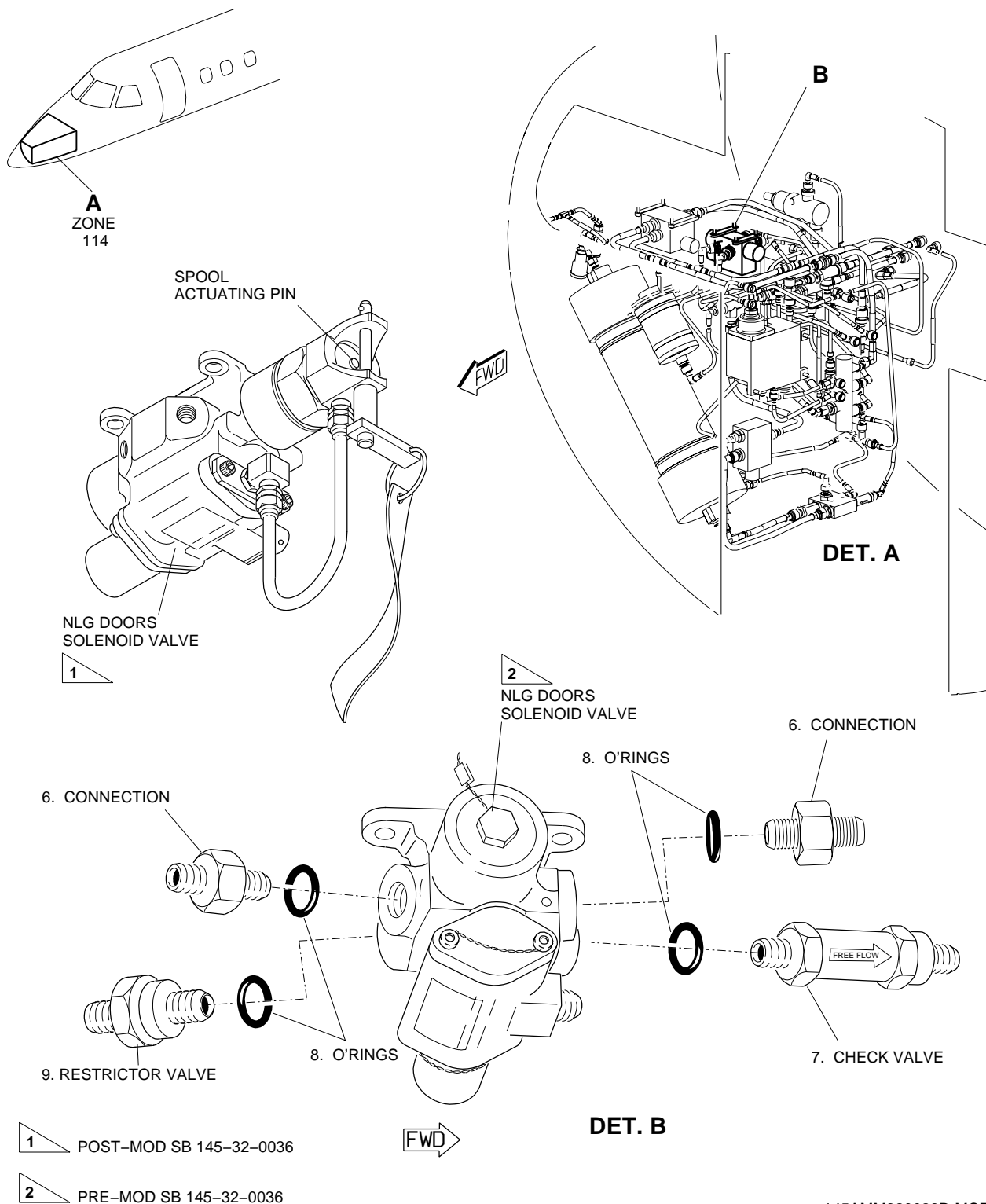


145AMM320026.MCE B

EFFECTIVITY: ALL

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

Figure 402



145AMM320028D.MCE

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	-
<a href="#">AMM TASK 29-10-00-860-803-A/200</a>	HYDRAULIC SYSTEM - BLEED OF AIR
<a href="#">AMM TASK 32-30-00-700-801-A/500</a>	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).

