



AIRCRAFT
MAINTENANCE MANUAL

LANDING GEAR SOLENOID VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the landing-gear solenoid-valve.
- B. To get access to the landing-gear solenoid-valve, 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
32-33-04-000-801-A	LANDING-GEAR SOLENOID-VALVE - RE- MOVAL	ALL
32-33-04-400-801-A	LANDING-GEAR SOLENOID-VALVE - IN- STALLATION	ALL



AIRCRAFT MAINTENANCE MANUAL

TASK 32-33-04-000-801-A

EFFECTIVITY: ALL

2. LANDING-GEAR SOLENOID-VALVE - REMOVAL

A. General

- (1) This section gives the procedures to remove the landing-gear solenoid-valve.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-801-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH HTS
AMM TASK 32-00-01-910-801-A/200	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
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	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](#)).



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

- (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) Make sure that the pressure of hydraulic system 1 is fully released ([AMM TASK 29-10-00-860-801-A/200](#)).
- (4) 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.
- (5) Open access door 114CR of the nose hydraulic compartment (AMM MPP 06-41-01/100).
- (6) 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](#))

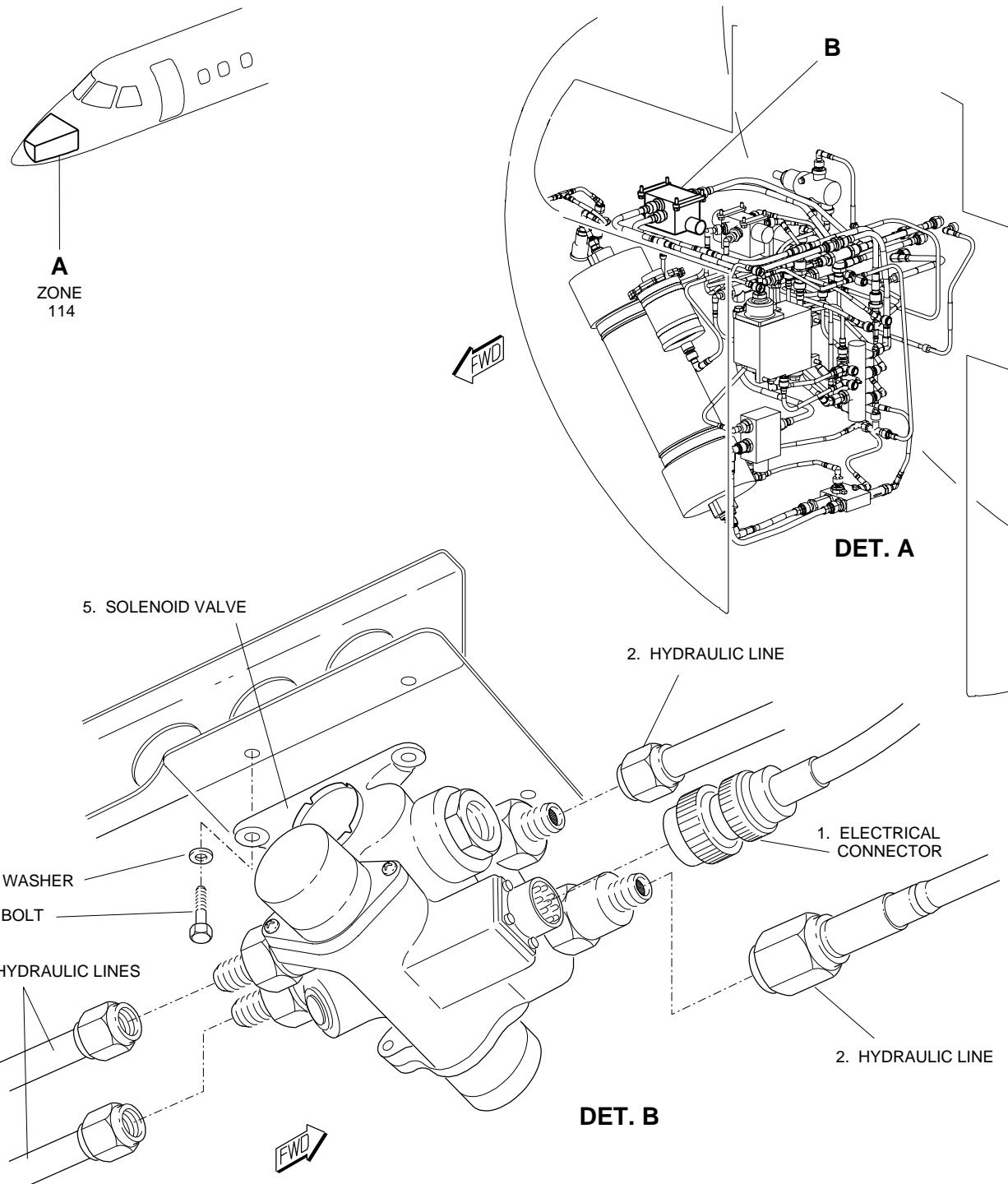
SUBTASK 020-002-A

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

EFFECTIVITY: ALL

Landing-Gear Solenoid-Valve - Removal/Installation

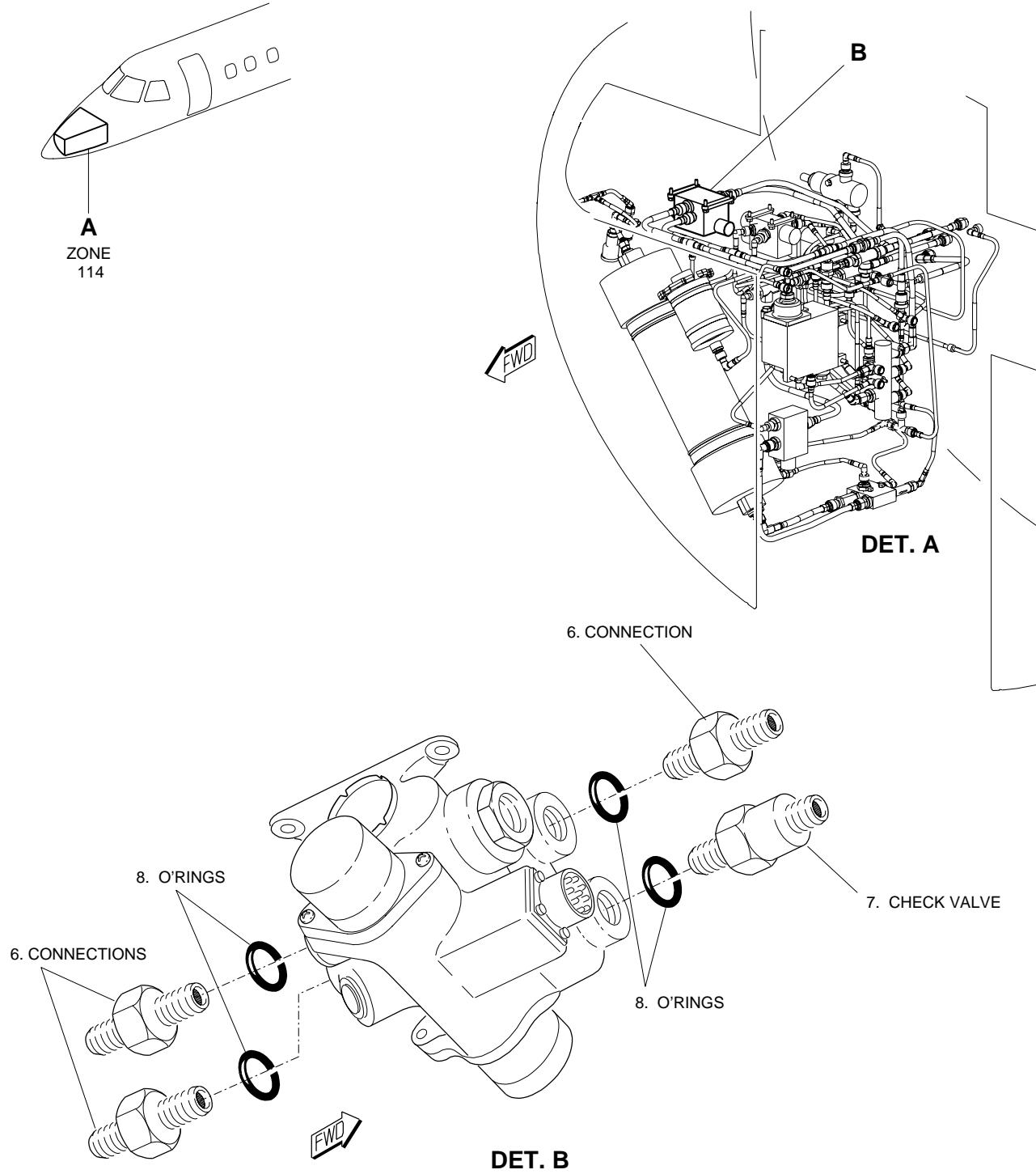
Figure 401



145AMM320024.MCE A

EFFECTIVITY: ALL

Connections and Check Valve of the Landing-Gear Solenoid-Valve - Removal/Installation
Figure 402



145AMM320025.MCE A



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 32-33-04-400-801-A

EFFECTIVITY: ALL

3. LANDING-GEAR SOLENOID-VALVE - INSTALLATION

A. General

(1) This section gives the procedures for installation of the landing-gear solenoid-valve.

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 32-33-04	LG SOLENOID VALVE

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
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 32-33-04	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) and the check valve (7) with the related O-rings (8) from the used landing gear solenoid valve.
- (2) Discard the O-rings (8) removed in step (1).
- (3) Install the connections (6) and the check valve (7) with the related new O-ring (8) to the landing gear solenoid valve.

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the landing-gear solenoid-valve (5) 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 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 the nose hydraulic compartment door 114CR (AMM MPP 06-41-01/100).

