



AIRCRAFT
MAINTENANCE MANUAL

EMERGENCY/PARKING BRAKE VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the emergency/parking brake valve.
- B. The access to the emergency/parking brake valve is got through the NLG compartment.
- 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
32-44-01-000-801-A	EMERGENCY/PARKING BRAKE VALVE - ALL REMOVAL	
32-44-01-400-801-A	EMERGENCY/PARKING BRAKE VALVE - ALL INSTALLATION	



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TASK 32-44-01-000-801-A

EFFECTIVITY: ALL

2. EMERGENCY/PARKING BRAKE VALVE - REMOVAL

A. General

- (1) This task gives the procedures to remove the emergency/parking brake valve.

B. References

REFERENCE	DESIGNATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL
AMM TASK 32-44-02-910-801-A/200	HYDRAULIC ACCUMULATOR EMERGENCY/PARKING BRAKE - RELEASE

C. Zones and Accesses

Not Applicable

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	NLG compartment

I. Preparation

SUBTASK 841-002-A

- (1) Release all the pressure from the emergency/parking brake accumulator ([AMM TASK 32-44-02-910-801-A/200](#)).
- (2) Control the rudder to the left and to the right until the pressure of the hydraulic system shows zero PSI on the EICAS.
- (3) Slowly open the charging valve of the nitrogen chamber of the hydraulic accumulator to let all pressure in it go out.



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- (4) Make sure that the landing gear safety pins are installed ([AMM TASK 32-00-01-910-801-A/200](#)).
- (5) On the circuit breaker panel, open the ELEC PUMP 2 circuit breaker and attach a DO-NOT-CLOSE tag to it.

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

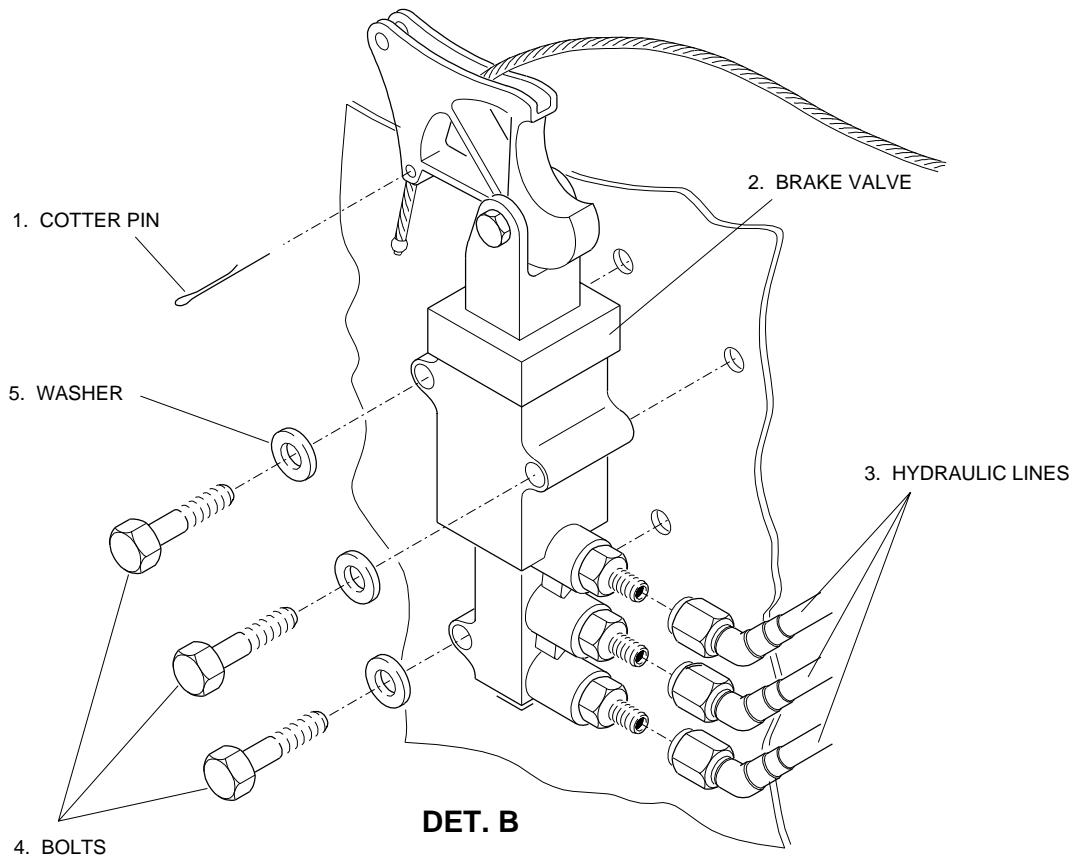
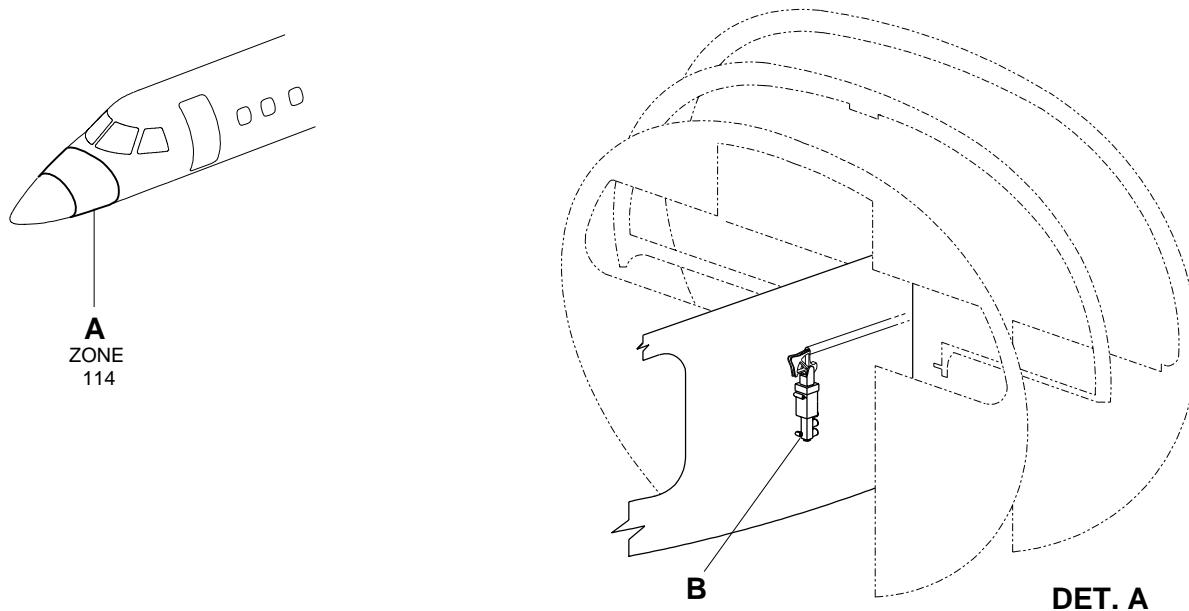
SUBTASK 020-002-A

- (1) Remove the cotter pin (1).
- (2) Disconnect the cable from the emergency/parking brake valve (2).
- (3) Disconnect the hydraulic lines (3).
- (4) Remove the bolts (4) and washers (5).
- (5) Remove the emergency/parking brake valve (2).

EFFECTIVITY: ALL

Emergency/Parking Brake Valve - Removal/Installation

Figure 401

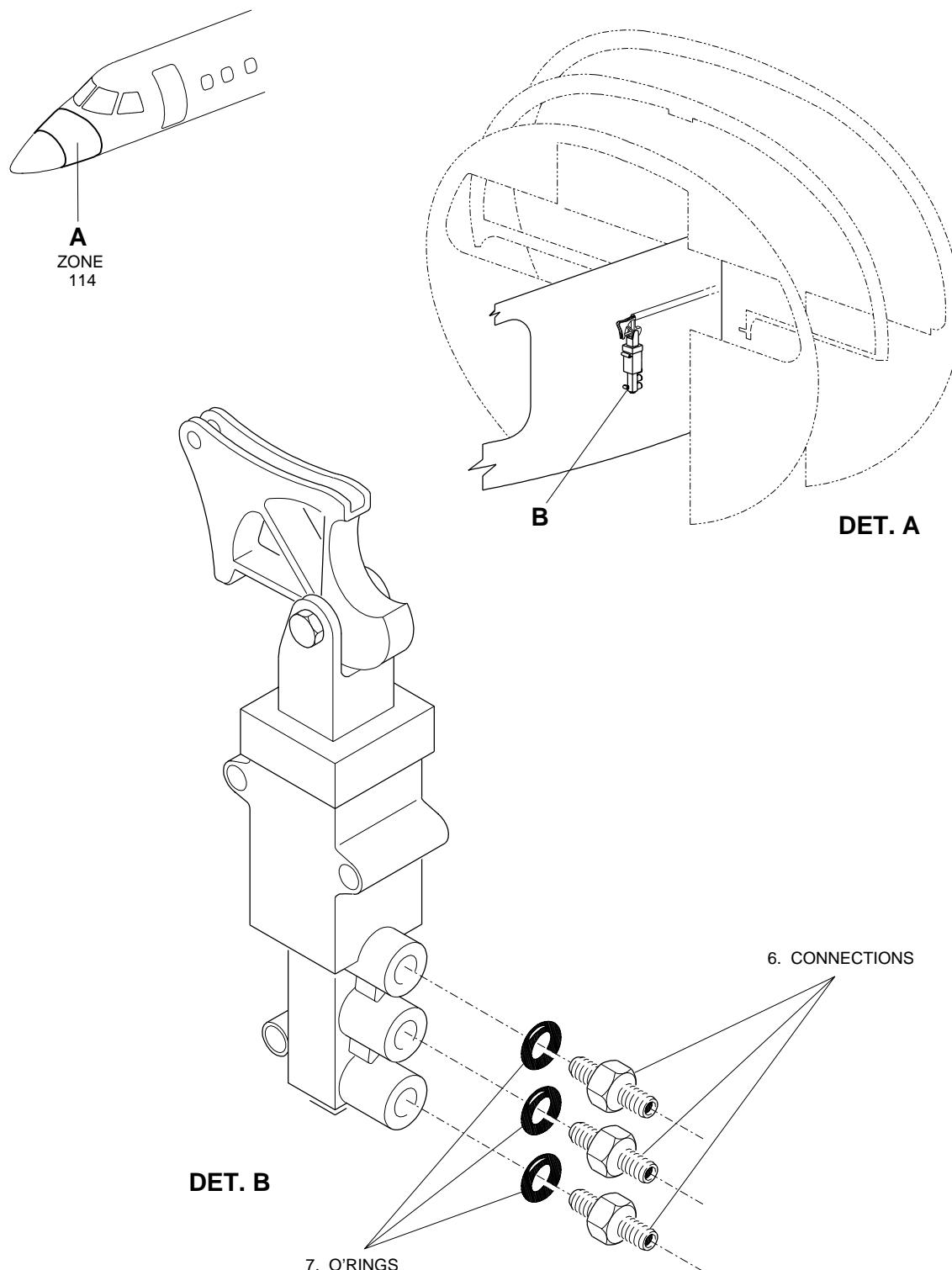


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EFFECTIVITY: ALL

Connections of the Emergency/Parking Brake Valve - Removal/Installation

Figure 402



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TASK 32-44-01-400-801-A

EFFECTIVITY: ALL

3. EMERGENCY/PARKING BRAKE VALVE - INSTALLATION

A. General

(1) This task gives the procedures for installation of the emergency/parking brake valve.

B. References

REFERENCE	DESIGNATION
AMM TASK 29-10-00-860-803-A/200	HYDRAULIC SYSTEM - BLEED OF AIR
AMM TASK 32-44-00-700-801-A/500	EMERGENCY/PARKING BRAKE SYSTEM - FUNCTIONAL CHECK
AMM TASK 32-44-02-600-801-A/300	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
AMM TASK 32-44-11-700-801-A/500	EMERGENCY/PARKING BRAKE - ADJUSTMENT
IPC 32-44-00	EMERGENCY PARKING BRAKE SYSTEM
IPC 32-44-01	EMERGENCY PARKING BRAKE VALVE

C. Zones and Accesses

Not Applicable

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 32-44-01	3
Cotter pin	IPC 32-44-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	NLG compartment



I. Preparation (Figure 402)

SUBTASK 841-003-A

- (1) Remove the connections (6) with the related O-rings (7) from the used emergency/parking brake valve.
- (2) Discard the O-rings removed in step (1).
- (3) Install the connections (6) with the related new O-rings (7) to the emergency/parking brake valve.

J. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the emergency/parking brake valve (2) on its support.
- (2) Install the washers (5) and bolts (4).
- (3) Connect the hydraulic lines (3).
- (4) Connect the cable to the emergency/parking brake valve (2) and install the cotter pin (1).
- (5) Adjust the control cable. Refer to [AMM TASK 32-44-11-700-801-A/500](#).

K. Follow-on

SUBTASK 842-002-A

- (1) Pressurize the Emergency/Parking brake accumulator ([AMM TASK 32-44-02-600-801-A/300](#)).
- (2) On the circuit breaker panel, close the ELEC PUMP 2 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) Do the bleed of air from the hydraulic system lines ([AMM TASK 29-10-00-860-803-A/200](#)).
- (4) Do the emergency/parking brake system functional test ([AMM TASK 32-44-00-700-801-A/500](#)).

