



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

BRAKE SHUTOFF VALVE - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the brake shutoff valve.
- 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
32-41-05-000-801-A	BRAKE SHUTOFF VALVE - REMOVAL	ALL
32-41-05-400-801-A	BRAKE SHUTOFF VALVE - INSTALLA- TION	ALL



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TASK 32-41-05-000-801-A

EFFECTIVITY: ALL

2. BRAKE SHUTOFF VALVE - REMOVAL

A. General

- (1) This task gives the procedure to remove the brake shutoff valve.
- (2) This procedure is applicable to the brake shutoff valve of hydraulic system 1 and to the brake shutoff valve of hydraulic system 2.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 32-44-02-910-801-A/200	HYDRAULIC ACCUMULATOR EMERGENCY/PARKING BRAKE - RELEASE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing - LH
192	192BR	Center lower fairing - RH

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	In the wing stubs



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I. Preparation

SUBTASK 841-002-A

- (1) On the Circuit Breaker Panel, open the ELEC PUMP 1 and ELEC PUMP 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (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) Fully release the pressure from the fluid chamber of the emergency/parking brake system hydraulic accumulator ([AMM TASK 32-44-02-910-801-A/200](#)).
- (4) Open access panel 192AL (hydraulic system 1) and access panel 192BR (hydraulic system 2) (AMM MPP 06-41-01/100).
- (5) Slowly open the charging valve of the nitrogen chamber of the hydraulic accumulator to let all pressure in it go out.

J. Removal ([Figure 401](#)) ([Figure 403](#))

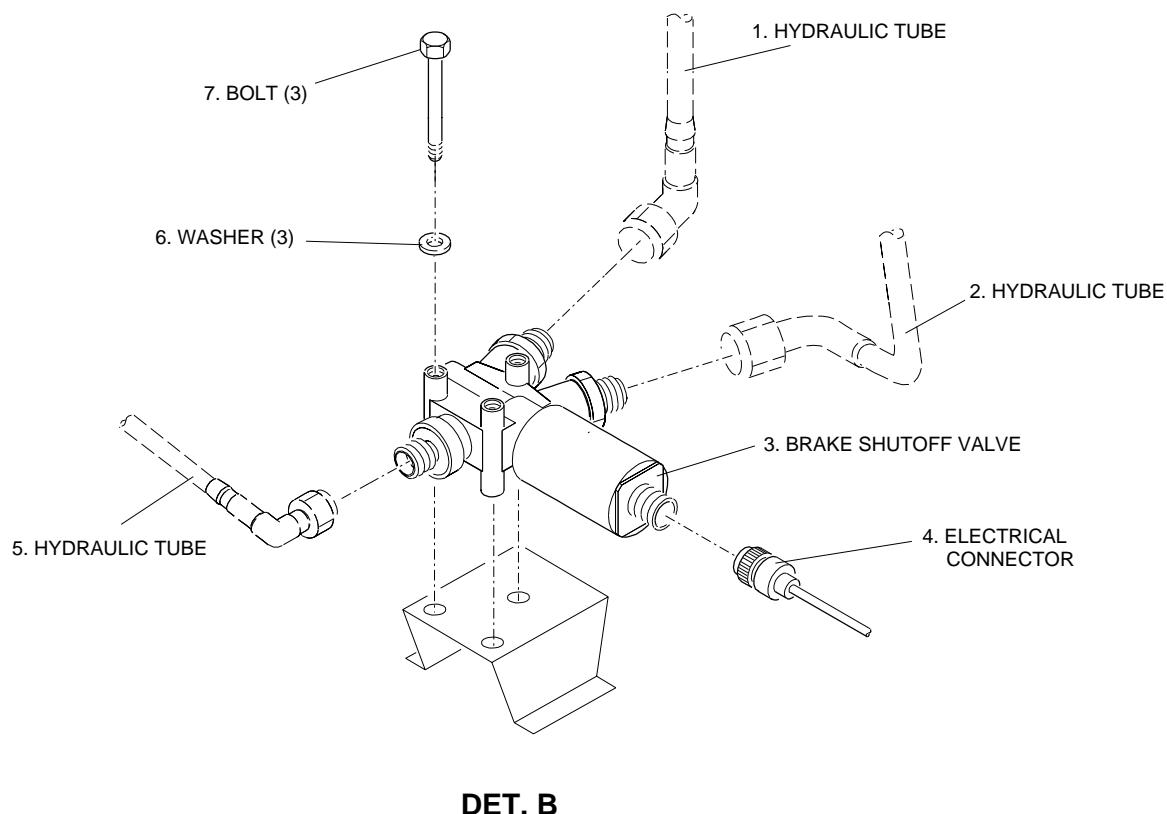
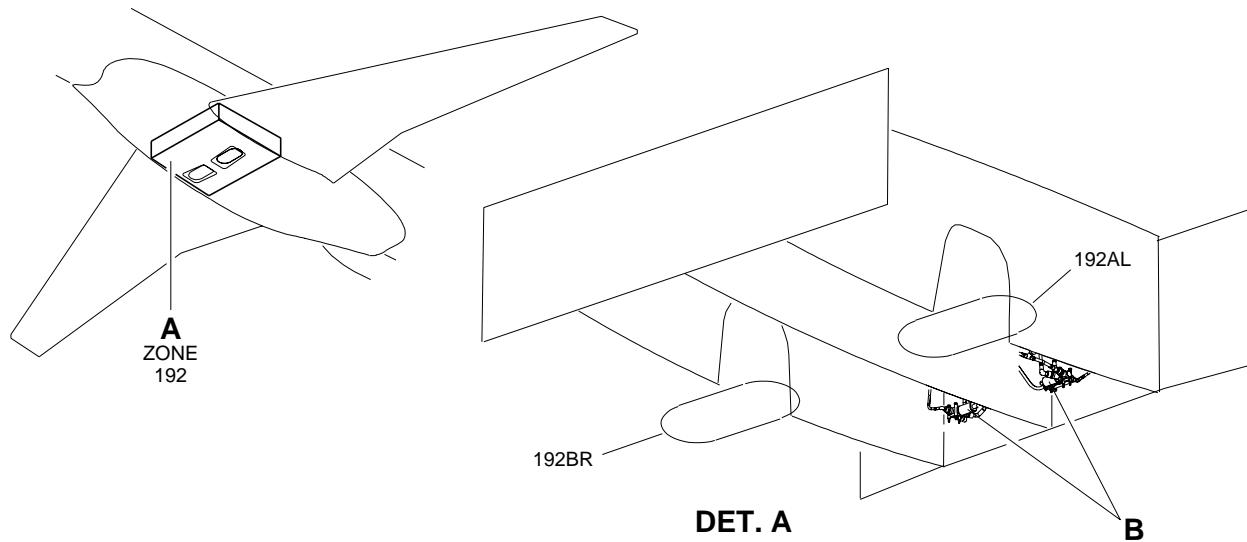
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (4).
- (2) Disconnect the hydraulic tube (1).
- (3) Disconnect the hydraulic tube (2).
- (4) Disconnect the hydraulic tube (5).
- (5) Remove the bolts (7).
- (6) Remove the washers (6).
- (7) Remove the brake shutoff valve (3).

**EFFECTIVITY: EMB-145ER/EP/EU/MP AND EMB-135ER MODELS**

Brake Shutoff Valve - Removal/Installation

Figure 401

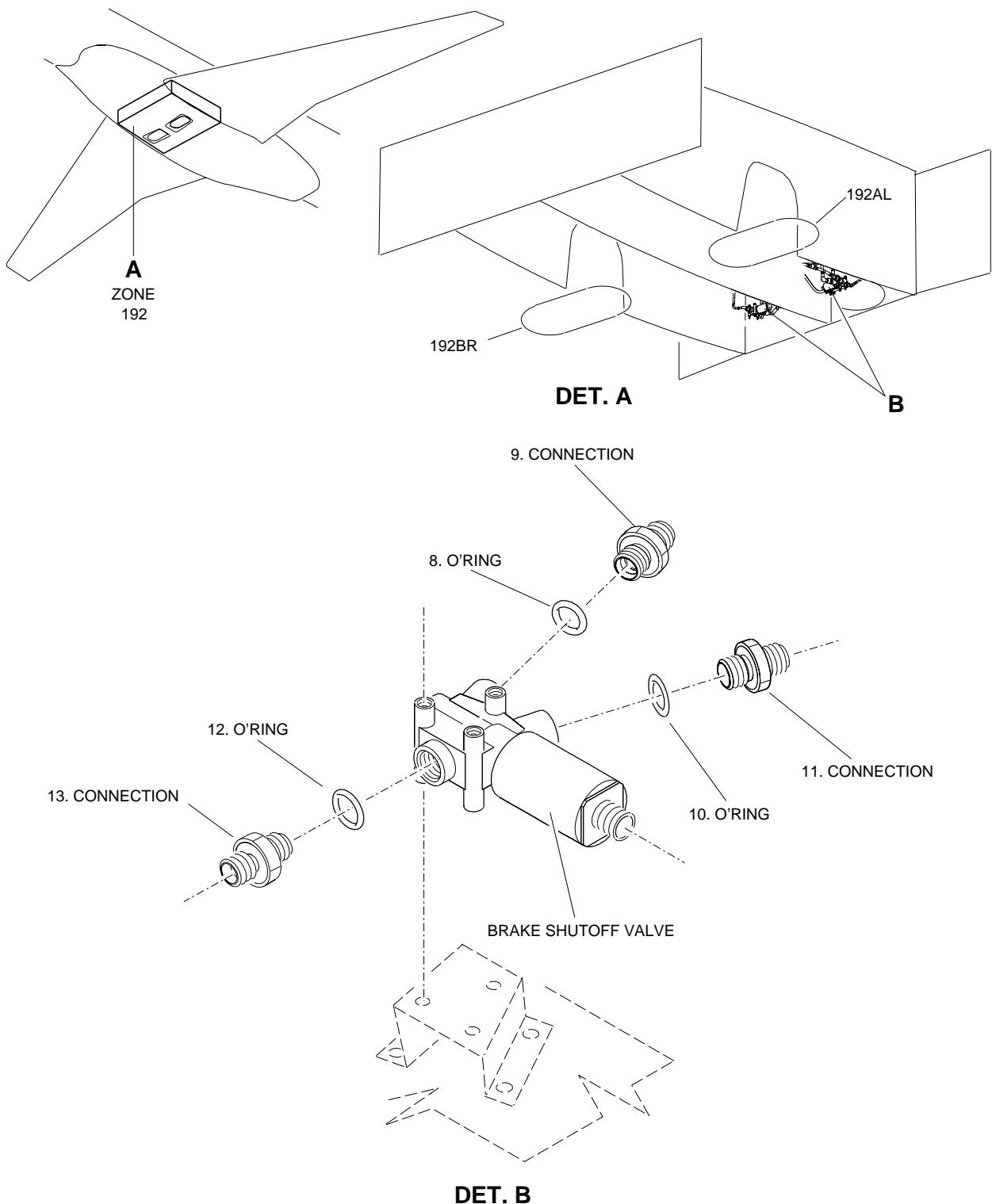


145AMM320099.MCE B

**EFFECTIVITY: EMB-145ER/EP/EU/MP AND EMB-135ER MODELS**

Connections of the Brake Shutoff Valve - Removal/Installation

Figure 402

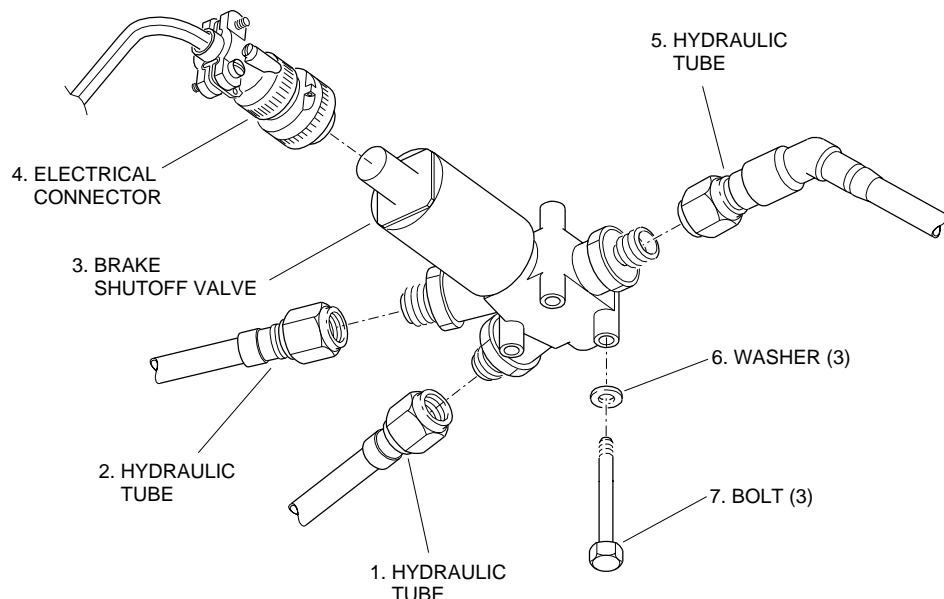
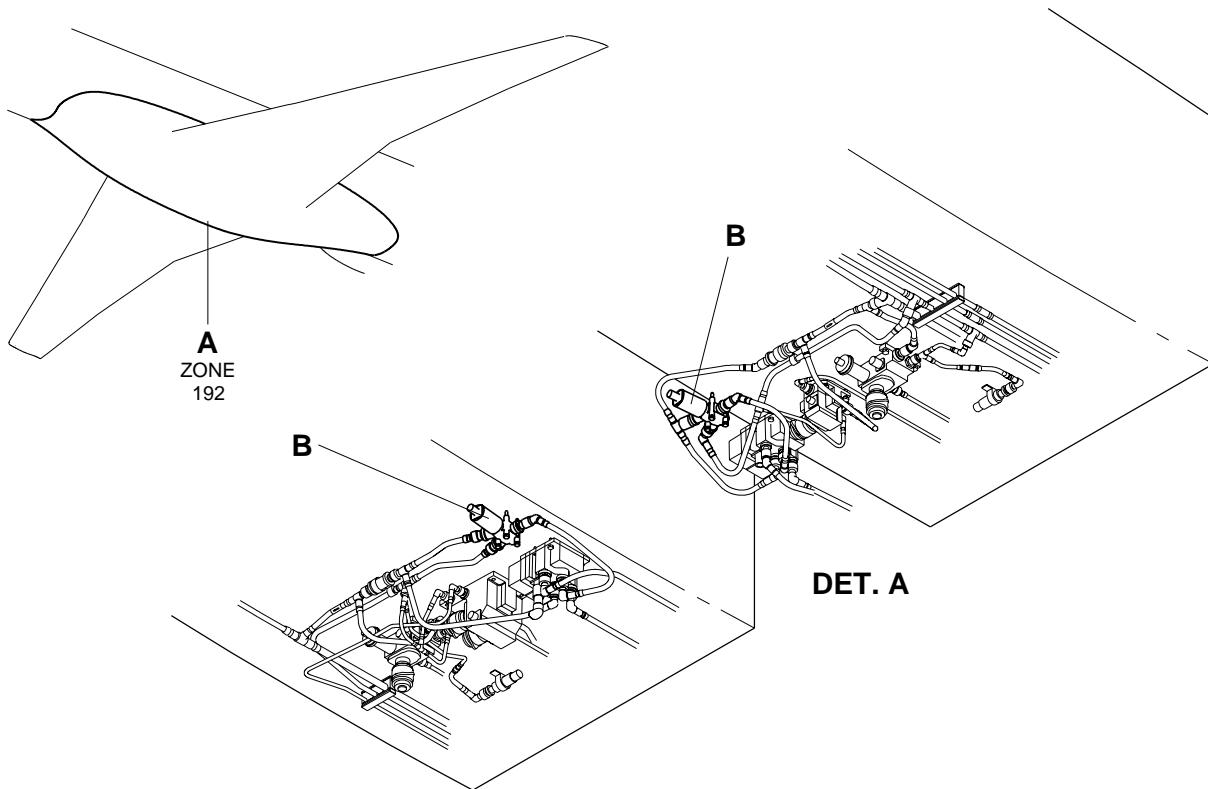


145AMM320100.MCE B

**EFFECTIVITY: EMB-145LR/LU AND EMB-135LR MODELS**

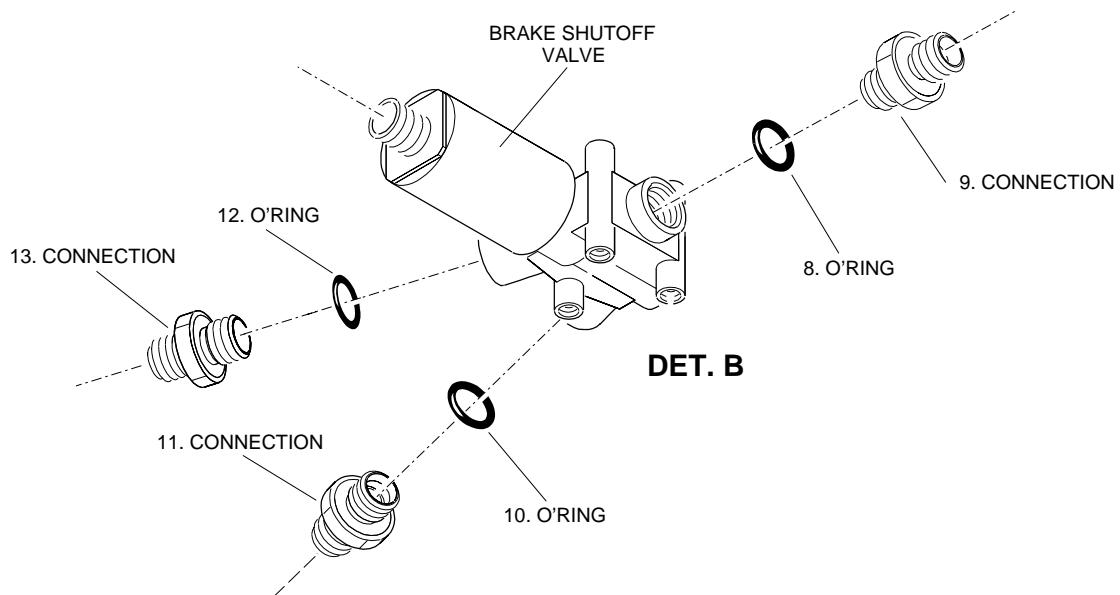
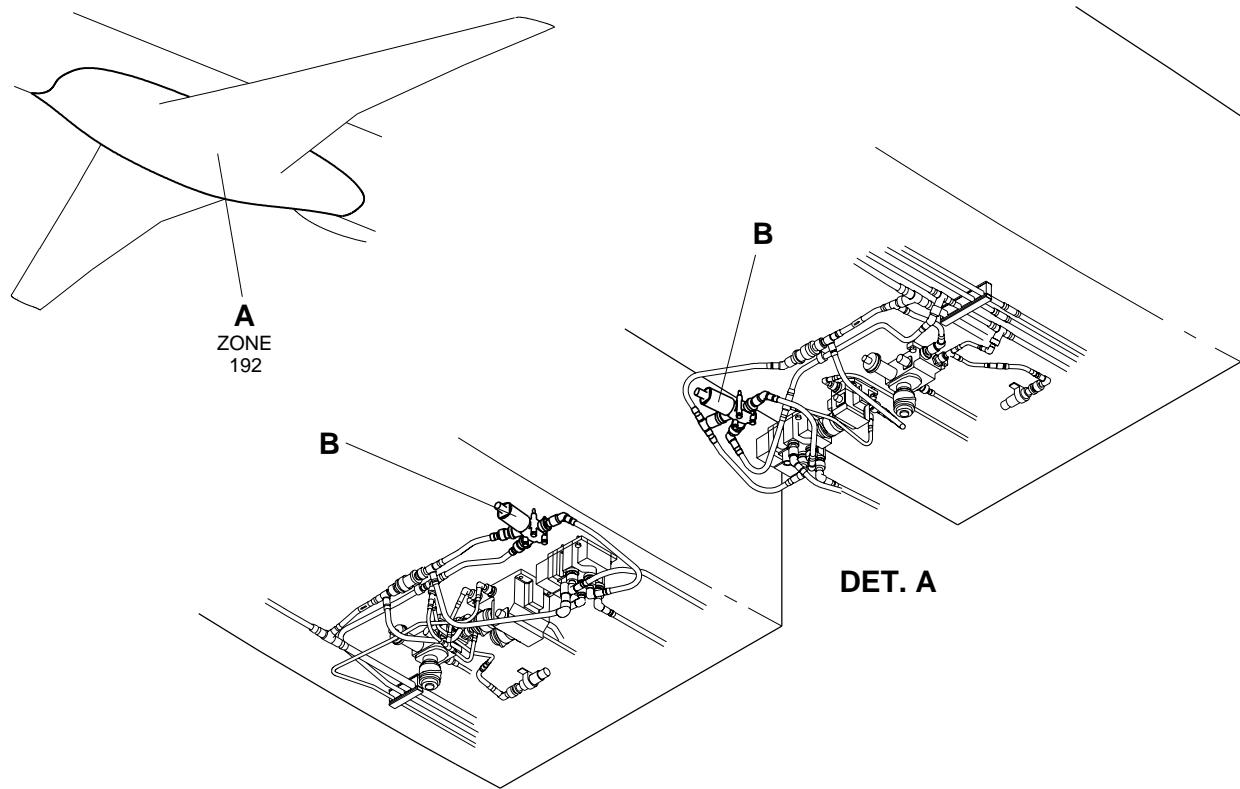
Brake Shutoff Valve - Removal/Installation

Figure 403


**DET. B**

145AMM320299.MCE A

**EFFECTIVITY: EMB-145LR/LU AND EMB-135LR MODELS**  
 Connections of the Brake Shutoff Valve - Removal/Installation  
 Figure 404



145AMM320303.MCE A



# AIRCRAFT MAINTENANCE MANUAL

TASK 32-41-05-400-801-A

EFFECTIVITY: ALL

## 3. BRAKE SHUTOFF VALVE - INSTALLATION

### A. General

- (1) This task gives the procedure to install the brake shutoff valve.
- (2) This procedure is applicable to the brake shutoff valves of hydraulic system 1 and hydraulic system 2.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 28-41-00-200-801-A/600	-
<a href="#">AMM TASK 29-10-00-860-803-A/200</a>	HYDRAULIC SYSTEM - BLEED OF AIR
<a href="#">AMM TASK 32-40-00-800-801-A/200</a>	NORMAL BRAKE AND EMERGENCY PARKING BRAKE SYSTEMS - BLEEDING
<a href="#">AMM TASK 32-41-00-700-801-A/500</a>	MAIN BRAKE SYSTEM - FUNCTIONAL CHECK
<a href="#">AMM TASK 32-44-02-600-801-A/300</a>	EMERGENCY/PARKING BRAKE ACCUMULATOR - CHARGE
IPC 32-41-05	BRAKE SHUTOFF VALVE

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
192	192AL	Center lower fairing - LH
192	192BR	Center lower fairing - RH

### 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 32-41-05	3



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H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH/RH wing stubs

I. Preparation (Figure 402) (Figure 404)

SUBTASK 841-003-A

- (1) Remove and keep the connections (9), (11), and (13).
- (2) Remove and discard the old O-rings (8), (10), and (12).
- (3) Install the new O-rings (8), (10), and (12).
- (4) Install the connections (9), (11), and (13).

J. Installation (Figure 401) (Figure 403)

SUBTASK 420-002-A

- (1) Install the brake shutoff valve (3).
- (2) Install the washers (6).
- (3) Install the bolts (7).
- (4) Connect the hydraulic tube (5).
- (5) Connect the hydraulic tube (2).
- (6) Connect the hydraulic tube (1).

**WARNING:** DO NOT GET LUBRICANT AND ANTICORROSION FILM PN LEKTRO-TECH SUPER CORR-A IN YOUR MOUTH OR EYES, OR ON YOUR SKIN. PUT ON A PROTECTIVE SPLASH GOGGLE AND GLOVES WHEN YOU USE LUBRICANT AND ANTICORROSION FILM PN LEKTRO-TECH SUPER CORR-A. KEEP LUBRICANT AND ANTICORROSION FILM PN LEKTROTECH SUPER CORR-A AWAY FROM SPARKS, FLAME, AND HEAT. LUBRICANT AND ANTICORROSION FILM PN LEKTRO-TECH SUPER CORR-A IS A POISONOUS AND FLAMMABLE SUBSTANCE.

- (7) Connect the electrical connector (4).

**NOTE:** Before you connect the connector, apply Lektro-Tech Super Corr-A into the plug connector to prevent corrosion and clean the contacts.

K. Follow-on

SUBTASK 842-002-A

- (1) Pressurize the Emergency/Parking brake accumulator ( AMM TASK 32-44-02-600-801-A/300).
- (2) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).



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**NOTE:** The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations (Section 6) of the Maintenance Review Board Report (MRB).

- (3) Close access panel 192AL (hydraulic system 1) and access panel 192BR (hydraulic system 2) (AMM MPP 06-41-01/100).
- (4) On the Circuit Breaker Panel, close the ELEC PUMP 1 and ELEC PUMP 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (5) Do the check of the Normal Brake and Emergency Parking Brake systems ( [AMM TASK 32-40-00-800-801-A/200](#)).
- (6) Bleed the hydraulic line ( [AMM TASK 29-10-00-860-803-A/200](#)).
- (7) Do the functional check of the Main Brake system ( [AMM TASK 32-41-00-700-801-A/500](#)).