

## FUSELAGE DRAIN VALVES - REMOVAL/INSTALLATION

*EFFECTIVITY: ACFT MODEL(S) EMB-135*

### 1. General

- A. This section gives the procedures to remove and install the fuselage drain valves.
- 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
53-00-01-000-801-A	FUSELAGE DRAIN VALVES - REMOVAL	ACFT MODEL(S) EMB-135
53-00-01-400-801-A	DRAIN VALVES - INSTALLATION	ACFT MODEL(S) EMB-135

TASK 53-00-01-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-135

## 2. FUSELAGE DRAIN VALVES - REMOVAL

### A. General

(1) This task gives the procedures to remove the fuselage drain valves.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 53-04-01-000-801-A/400</a>	FORWARD WING-TO-FUSELAGE FAIRING - REMOVAL
<a href="#">S.B.145-34-0031</a>	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
193	193AL	Rear wing-to-fuselage fairing
193	193LL	Rear wing-to-fuselage fairing

### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 018</a>	Tool, drain valve	To remove the drain valve	

### E. Auxiliary Items

Not Applicable

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Outside, under the aircraft

### I. Preparation

SUBTASK 841-014-B

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Remove the forward wing-to-fuselage fairing ( [AMM TASK 53-04-01-000-801-A/400](#)), if applicable.
- (3) Remove access panel 193AL (AMM MPP 06-41-01/100), if applicable.

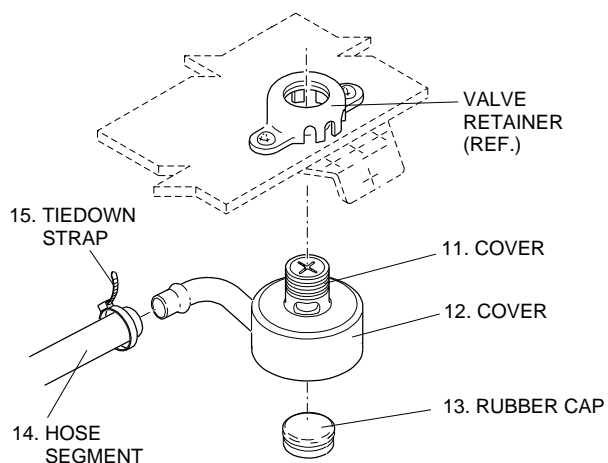
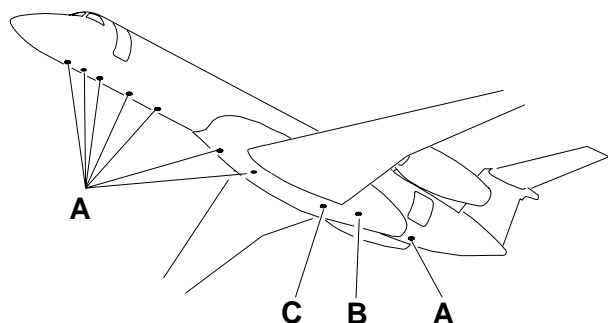
- (4) To remove access panel 193LL, do as follows:
  - (a) Carefully remove access panel 193LL (AMM MPP 06-41-01/100) and loosen the clamps that attach the hoses to access panel 193LL.
  - (b) Disconnect the hoses from access panel 193LL.

J. Drain Valve - Removal ([Figure 401](#))

*SUBTASK 020-014-B*

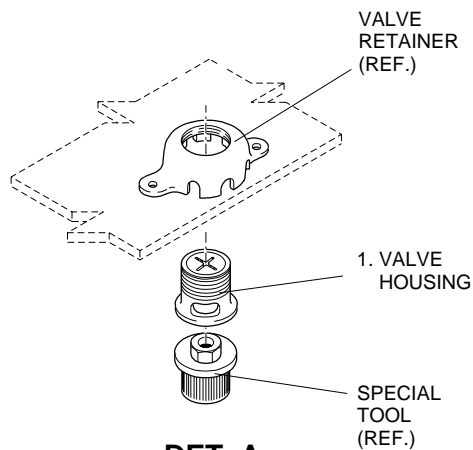
- (1) To remove the type-I drain valve, refer to [Figure 401](#), DET. A, and do as follows:
  - (a) Use GSE 018 to remove the valve housing (1).
- (2) To remove the type-II drain valve from aircraft Post-Mod [S.B.145-34-0031](#), refer to [Figure 401](#), DET. B, and do as follows:
  - (a) Remove and discard the tiedown strap (3) that attaches the valve housing (2) to the hose (4).
  - (b) Disconnect the hose (4) from the valve housing (2).
  - (c) Remove the valve housing (2).
- (3) To remove the type-III drain valve from aircraft Post-Mod [S.B.145-34-0031](#) - part II, refer to [Figure 401](#), DET. C, and do as follows:
  - (a) Remove and discard the tiedown strap (10) that attaches the cover (6) to the hose segment (9).
  - (b) Disconnect the hose segment (9) from the cover (6).
  - (c) Remove the plug (8) from the cover (6) and discard the O-ring (7).
  - (d) Loosen the valve housing (5) and remove the cover (6).
- (4) To remove the type-IV drain valve from aircraft Pre-Mod [S.B.145-34-0031](#) - part II, refer to [Figure 401](#), DET. D, and do as follows:
  - (a) Remove and discard the tiedown strap (15) that attaches the cover (12) to the hose segment (14).
  - (b) Disconnect the hose segment (14) from the cover (12).
  - (c) Remove and retain the rubber cap (13) from the cover (12).
  - (d) Loosen the valve housing (11) and remove the cover (12).

EFFECTIVITY: ACFT MODEL(S) EMB-135  
Fuselage Drain Valves - Removal/Installation  
Figure 401

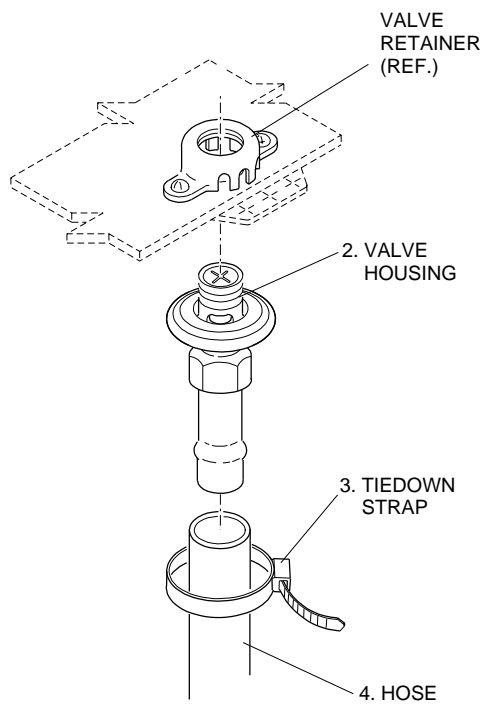


**DET. C**

PRE-MOD  
S.B 145-34-0031(PART II)

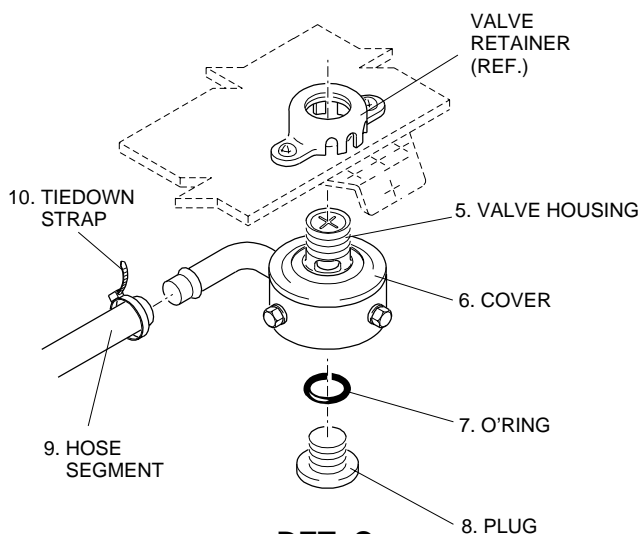


**DET. A**



**DET. B**

POST-MOD  
S.B 145-34-0031



**DET. C**

POST-MOD  
S.B 145-34-0031(PART II)

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**TASK 53-00-01-400-801-A**
**EFFECTIVITY: ACFT MODEL(S) EMB-135**
**3. DRAIN VALVES - INSTALLATION**
**A. General**

(1) This task gives the procedures to install the Drain Valves.

**B. References**

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 53-04-01-400-801-A/400</a>	FWD WING-TO-FUSELAGE FAIRING - INSTALLATION
IPC 53-00-00	FUSELAGE
<a href="#">S.B.145-34-0031</a>	-

**C. Zones and Accesses**

ZONE	PANEL/DOOR	LOCATION
193	193AL	Rear wing-to-fuselage fairing
193	193LL	Rear wing-to-fuselage fairing

**D. Tools and Equipment**

ITEM	DESCRIPTION	PURPOSE	QTY
<a href="#">GSE 018</a>	Tool, drain valve	To install the drain valve	

**E. Auxiliary Items**

Not Applicable

**F. Consumable Materials**

Not Applicable

**G. Expendable Parts**

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Tiedown strap	IPC 53-00-00	3

**H. Persons Recommended**

QTY	FUNCTION	PLACE
1	Does the task	Outside, under the aircraft

**I. Drain Valve - Installation (Figure 401)**
**SUBTASK 420-014-B**

(1) To install the type-I drain valve , refer to (Figure 401), DET. A, and do as follows:

- (a) Use GSE 018 to install the valve housing (1) to the fuselage.
- (2) To install the type-II drain valve on aircraft Post-Mod [S.B.145-34-0031](#), refer to (Figure 401), DET. B, and do as follows:
  - (a) Install the valve housing (2).
  - (b) Connect the hose (4) to the valve housing (2).
  - (c) Install the tiedown strap (3) to attach the valve housing (2) to the hose (4).
- (3) To install the type-III drain valve on aircraft Post-Mod [S.B.145-34-0031](#) - part II, refer to (Figure 401), DET. C, and do as follows:
  - (a) Put the cover (6) in position and tighten the valve housing (5) to the fuselage.
  - (b) Install the plug (8) and the O-ring (7) to the cover (6).
  - (c) Connect the hose segment (9) to the cover (6).
  - (d) Install the tiedown strap (10) to attach the cover (6) to the hose segment (9).
- (4) To install the type-IV drain valve on aircraft Pre-Mod [S.B.145-34-0031](#) - part II, refer to (Figure 401), DET. D, and do as follows:
  - (a) Put the cover (12) in position and tighten the valve housing (11) to the fuselage.
  - (b) Install the rubber cap (13) to the cover (12).
  - (c) Connect the hose segment (14) to the cover (12).
  - (d) Install the tiedown strap (15) to attach the cover (12) to the hose segment (14).

J. Follow-on

*SUBTASK 842-014-B*

- (1) Install the forward wing-to-fuselage fairing ( [AMM TASK 53-04-01-400-801-A/400](#)), if applicable.
- (2) Install access panel 193AL (AMM MPP 06-41-01/100), if applicable.
- (3) To install access panel 193LL, do as follows:
  - (a) Connect the hoses to access panel 193LL.
  - (b) Install the clamps to attach the hoses to access panel 193LL.
  - (c) Install access panel 193LL (AMM MPP 06-41-01/100).