



AIRCRAFT MAINTENANCE MANUAL

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



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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	-
AMM TASK 53-04-01-000-801-A/400	FORWARD WING-TO-FUSELAGE FAIRING - REMOV- AL
S.B.145-34-0031	-

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
GSE 018	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.



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- (4) To remove access panel 193LL, do as follows:

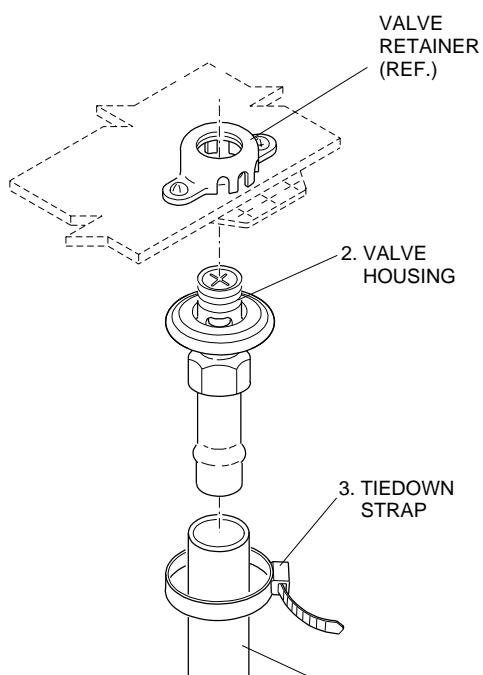
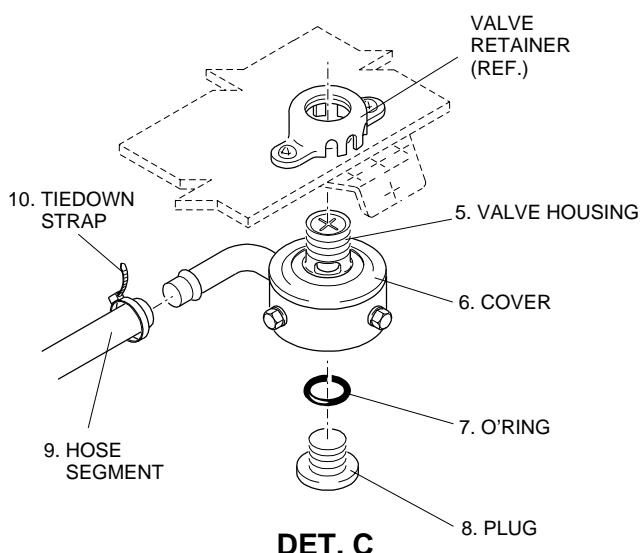
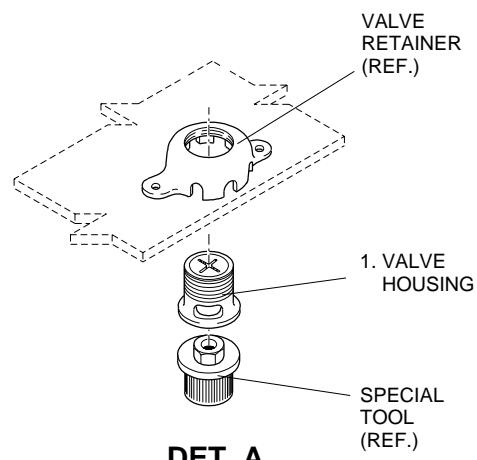
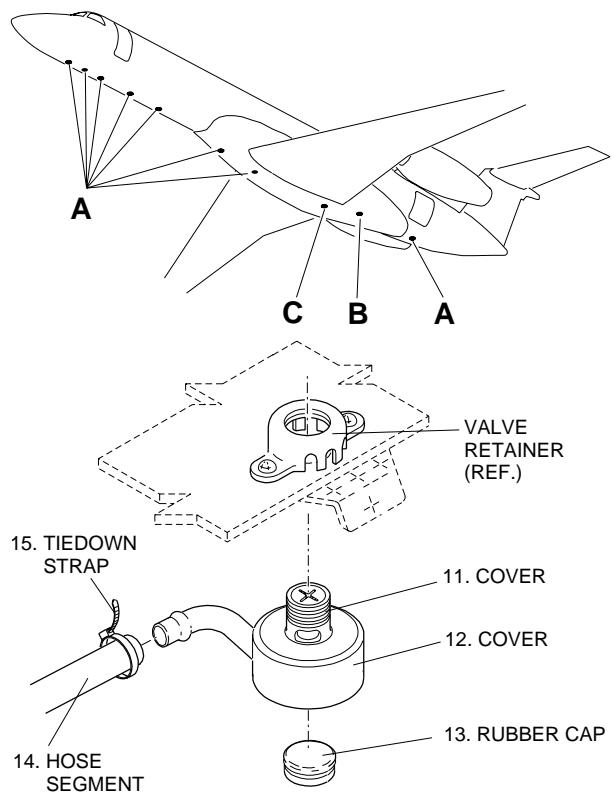
- (a) Carefully remove access panel 193LL (AMM MPP 06-41-01/100) and loosen the clamps that attach the hoses to access panel 193LL.
- (b) Disconnect the hoses from access panel 193LL.

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





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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	-
AMM TASK 53-04-01-400-801-A/400	FWD WING-TO-FUSELAGE FAIRING - INSTALLATION
IPC 53-00-00	FUSELAGE
S.B.145-34-0031	-

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
GSE 018	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:



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- (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](#)).