

FUSELAGE DRAIN VALVES - INSPECTION/CHECK

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. The procedures in this section are applicable to the inspection of 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
53-00-01-200-801-A ◆	FUSELAGE DRAIN VALVES - INSPECTION	ACFT MODEL(S) EMB-145

TASK 53-00-01-200-801-A

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2. FUSELAGE DRAIN VALVES - INSPECTION

A. General

- (1) The drain valves are installed in the fuselage pressurized areas along the fuselage lower skin, in the main door, and in the controls rigging door.
- (2) The main door and the controls rigging door are equipped with rubber drain valves.
- (3) Obey these instructions to do the inspection on the fuselage drain valves.

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 018	Tool, drain valve	To remove/install the drain valve	

D. Auxiliary Items

Not Applicable

E. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
ASTM D740	Methyl-ethyl-ketone	AR
MIL-D-16791 Type I	Neutral liquid detergent	AR

F. Expandable Parts

Not Applicable

G. Persons Recommended

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

H. Preparation

SUBTASK 841-010-B

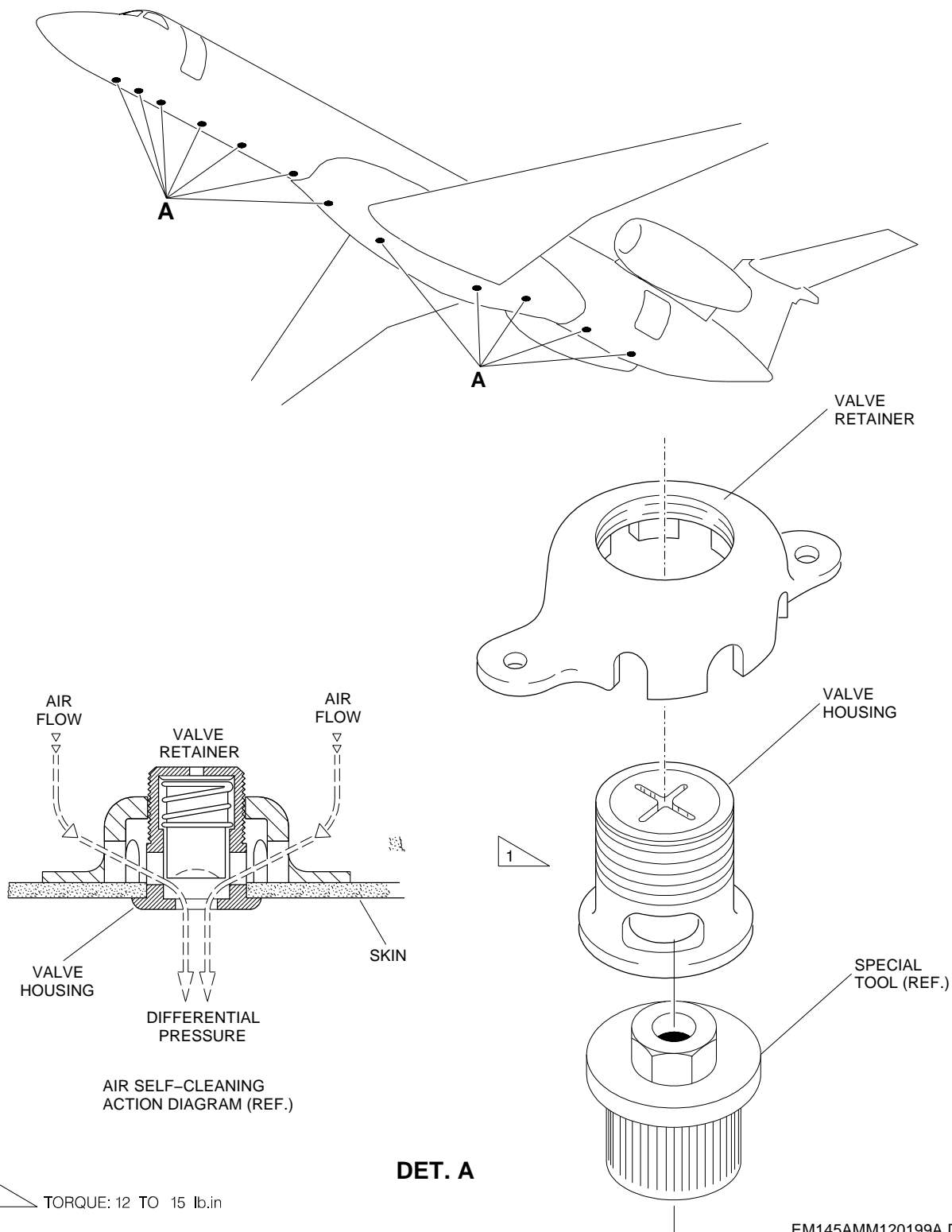
- (1) The valve assemblies, installed along the skin of the fuselage pressurized areas, are made up of an ABS valve retainer that is attached to the inner surface of the fuselage wall and lined up with the hole in the wall. A valve housing is inserted (or removed) through this hole from the airplane exterior.
- (2) To remove fingerprints, dirt, and minor contaminants:
 - (a) Lightly rub the surface of the fuselage drain valves with a soft cloth soaked in neutral detergent.

- (b) Clear the surface with water to remove the detergent from the fuselage drain valves.
- (c) Dry the wet surface with a soft clean cloth or let it air-dry.
- (3) To remove oil, grease, or other heavy contaminants:
 - (a) Lightly rub the surface of the fuselage drain valves with a soft cloth soaked in methyl-ethyl-ketone (MEK).
 - (b) Rub the area with a clean dry cloth before the solvent evaporation.
- I. Fuselage Drain Valves for Obstruction or Damage - Inspect (Detailed Inspection) [\(Figure 601\)](#)
SUBTASK 220-010-B
CAUTION: DO NOT USE FORCE ON THE DRAIN VALVE DURING CLEANING AND INSTALLATION OPERATIONS BECAUSE A DAMAGED VALVE WILL CHANGE THE CABIN PRESSURIZATION.
 - (1) There are no special maintenance requirements for the valve. The airflow effect across the piston seat of the valve housing and piston surface causes self-cleaning action.
 - (2) Examine the fuselage drain valves [\(Figure 601\)](#). If gummed material or other sticky fluids/particles are collected in the valve, remove it with special tool GSE 018 and clean the components with usual cleaning agents and compressed air.
- J. Follow-on
SUBTASK 842-010-B
 - (1) Install the drain valve with special tool GSE 018, as necessary.
 - (2) Apply the torque as shown in [Figure 601](#), as necessary.

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Drain Valves

Figure 601



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