

## AIRFRAME DRAINAGE - SERVICING

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

### 1. General

- A. The aircraft has drains along all its skin. This permits the removal of all water collected from condensed humidity and other liquids.
- B. There are four types of drains: the free drain, the drain valve, a nose hydraulic compartment drain, and internal drains (water/liquid passages in the skin support sections, splice angles, cargo door, service door, and escape hatch frames).
- 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
12-23-00-600-801-A	AIRFRAME DRAIN - MAINTENANCE	ACFT MODEL(S) EMB-145

TASK 12-23-00-600-801-A

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

## 2. AIRFRAME DRAIN - MAINTENANCE

### A. General

- (1) The airframe drain maintenance includes a periodical inspection and removal of blockage, as necessary.

### B. Zones and Accesses

Not Applicable

### C. Tools and Equipment

Not Applicable

### D. Auxiliary Items

Not Applicable

### E. Consumable Materials

Not Applicable

### F. Expandable Parts

Not Applicable

### G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the aircraft, and outside, under the aircraft

### H. Periodical Inspection and Removal of Blockage

#### *SUBTASK 610-007-B*

#### (1) Free Drains ([Figure 301](#))

- (a) Examine the free drains for materials collected which can prevent the outflow of water/liquid drainage.
- (b) Remove drain blockage, as necessary.

#### (2) Drain Valves ([Figure 302](#))

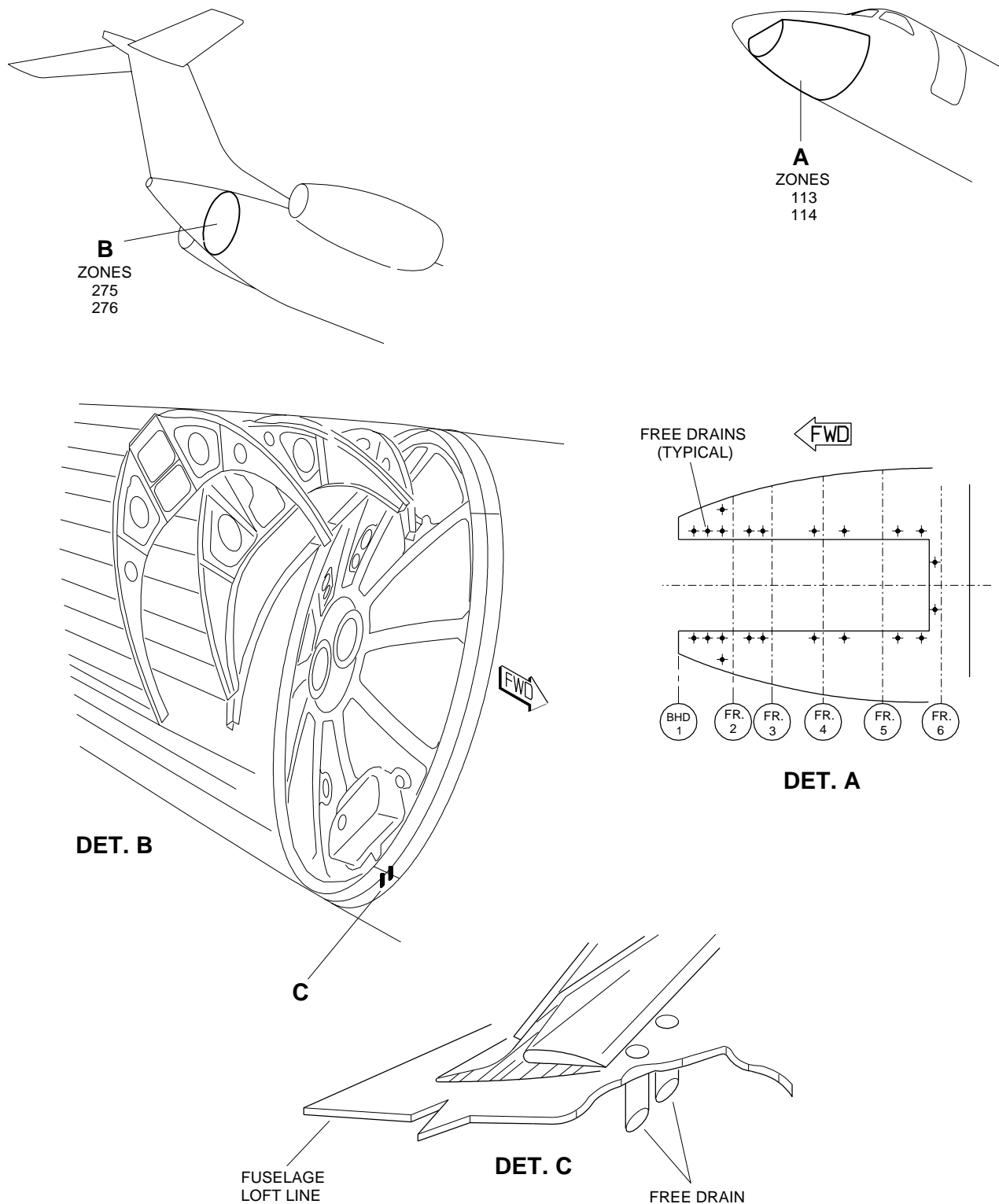
**CAUTION:** DO NOT USE FORCE ON THE DRAIN VALVE DURING CLEANING, BECAUSE A DAMAGED VALVE WILL CHANGE THE CABIN PRESSURIZATION.

- (a) There are no special maintenance requirements for the valve. The air flow effect across the piston seat of the valve housing and piston surface causes self-cleaning action. If gummed material or other sticky fluids/particles are collected in the valve, you must remove it (TASK 53-00-01-000-801-A), and clean the components with usual cleaning agents and air pressure.

#### (3) Nose Hydraulic Compartment Drains ([Figure 303](#))

- (a) Examine the drain for blockage and correct operation of its valve.
- (b) Clean or replace the drain valve, as necessary.
- (4) Internal Drains ([Figure 304](#)) ([Figure 305](#)) ([Figure 306](#))
  - (a) Examine the internal drains for material collected which can prevent outflow of water/liquid drainage.
  - (b) If necessary, remove the drain blockages with a spatula which will not cause damage to the angle protection and clean the drains with usual cleaning agents and compressed air.

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Free Drains - Forward and Aft Fuselage Sections  
Figure 301

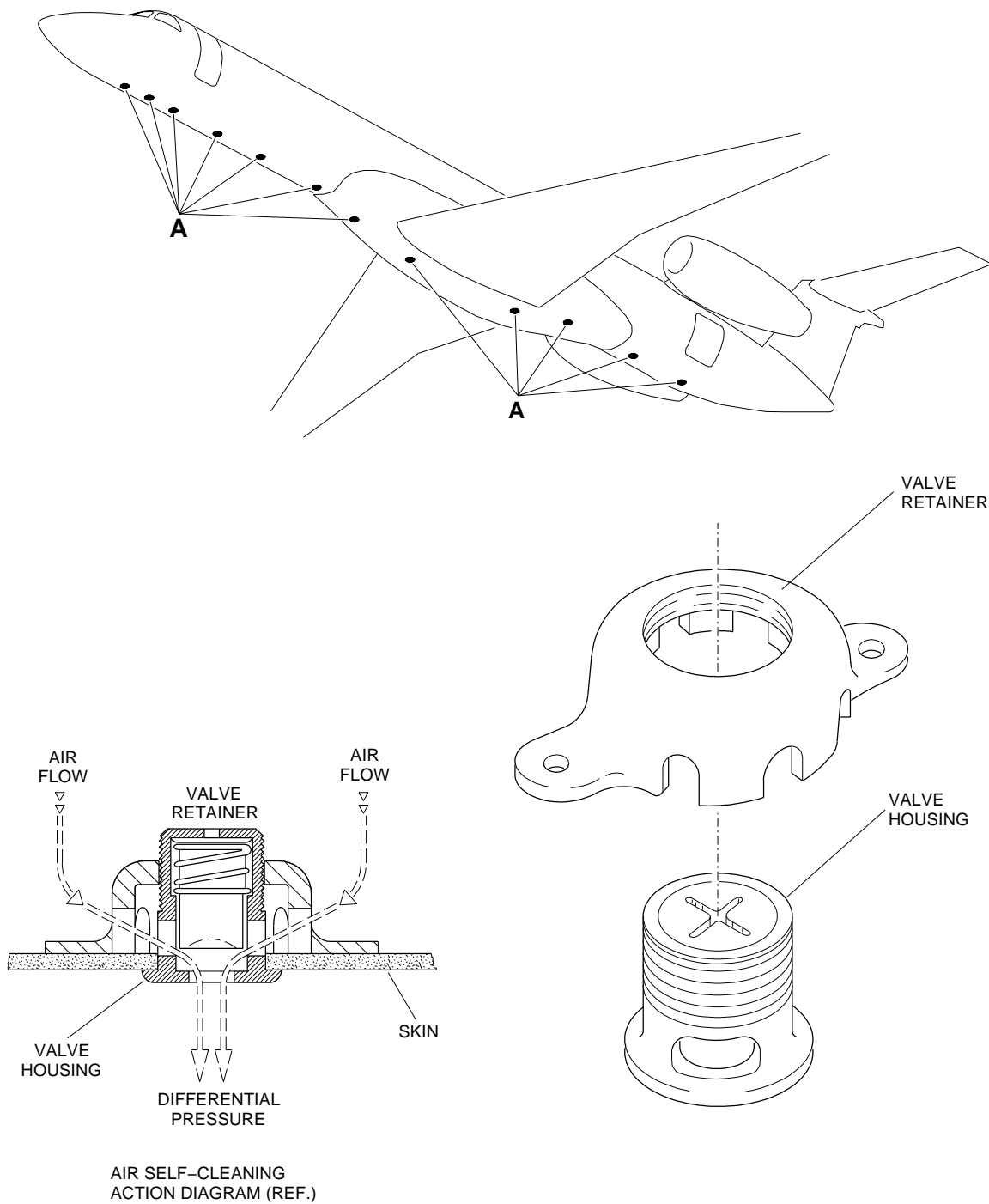


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Drain Valves

Figure 302



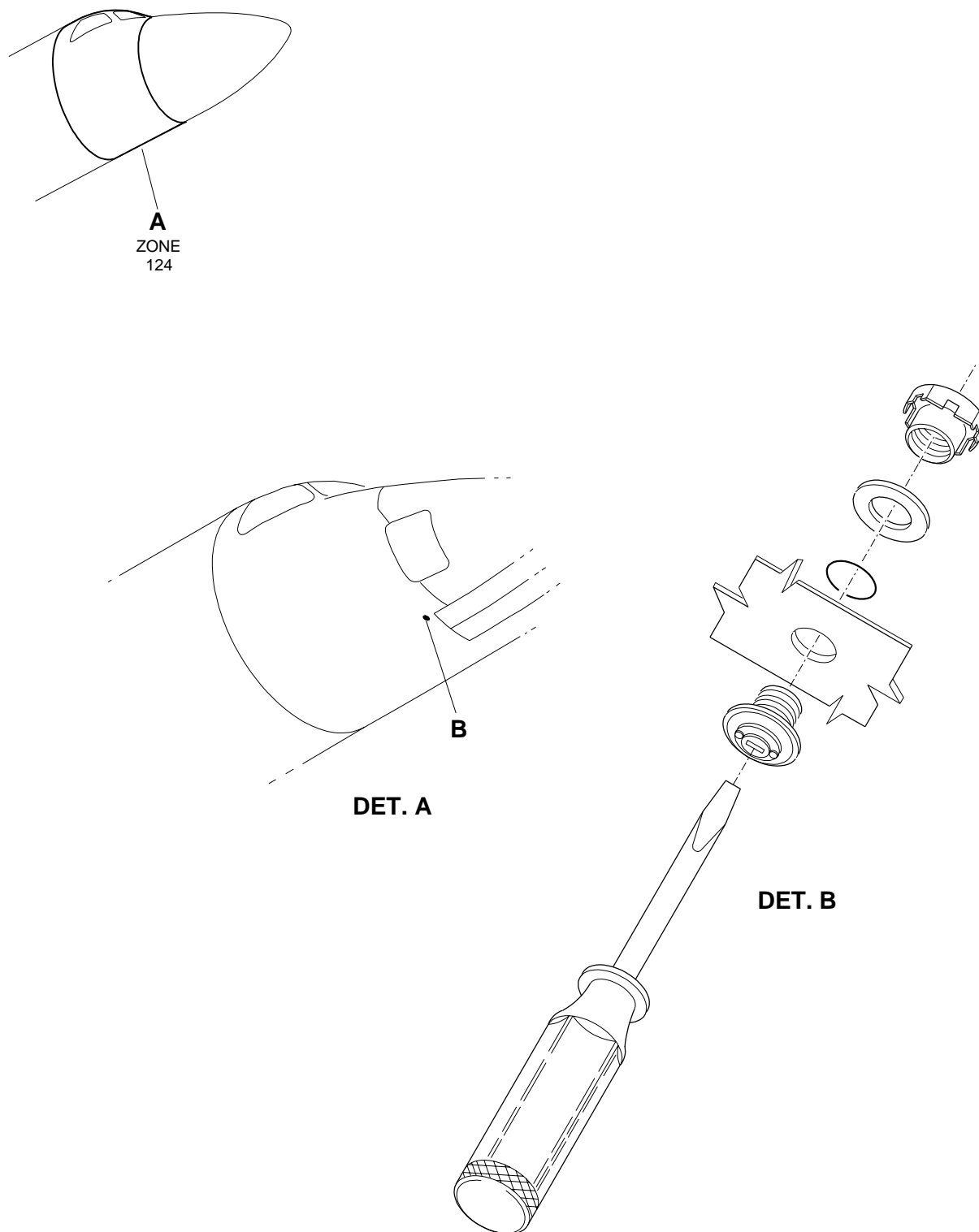
**DET. A**  
(TYPICAL)

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Nose Hydraulic Compartment Drains

Figure 303

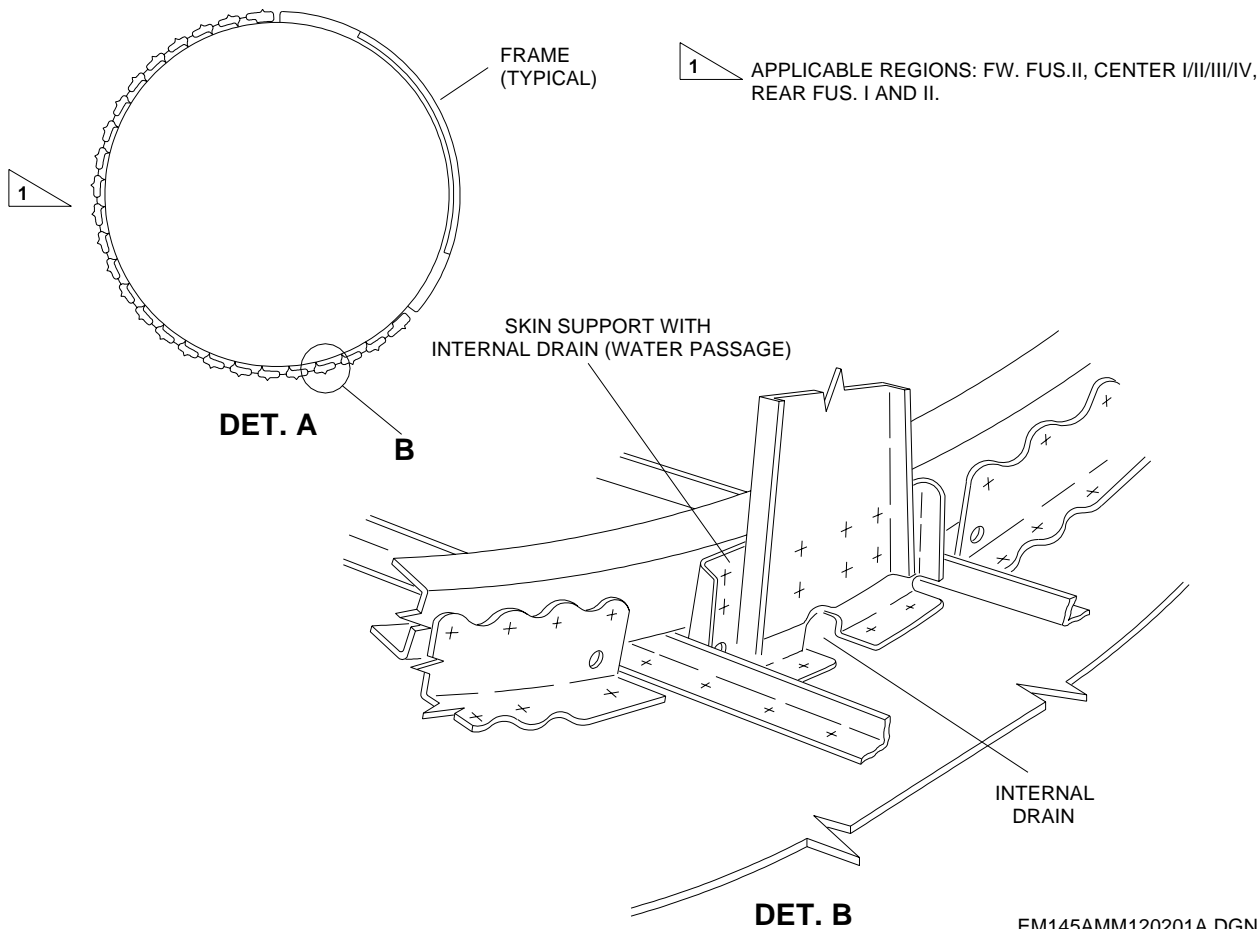
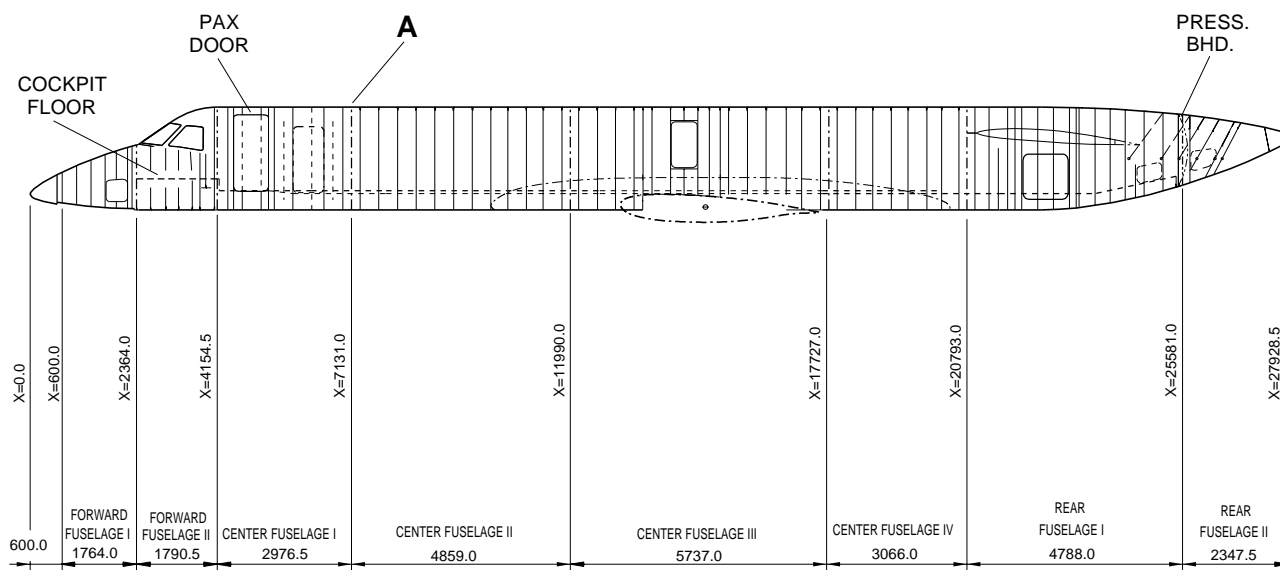


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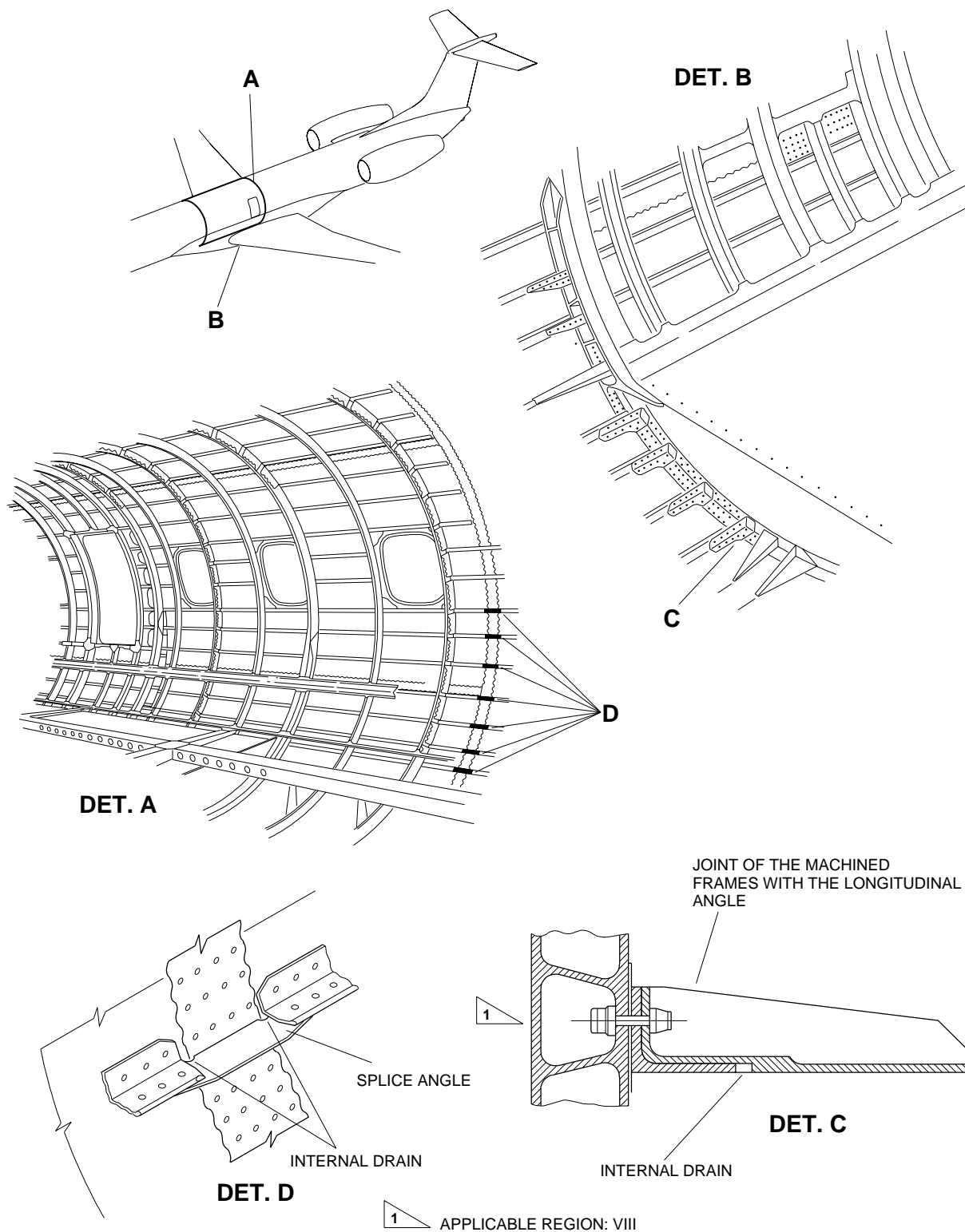
Internal-Drain Inspection Areas on Frames and Bulkheads

Figure 304



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Internal-Drain Inspection Areas at Splice Angles  
Figure 305



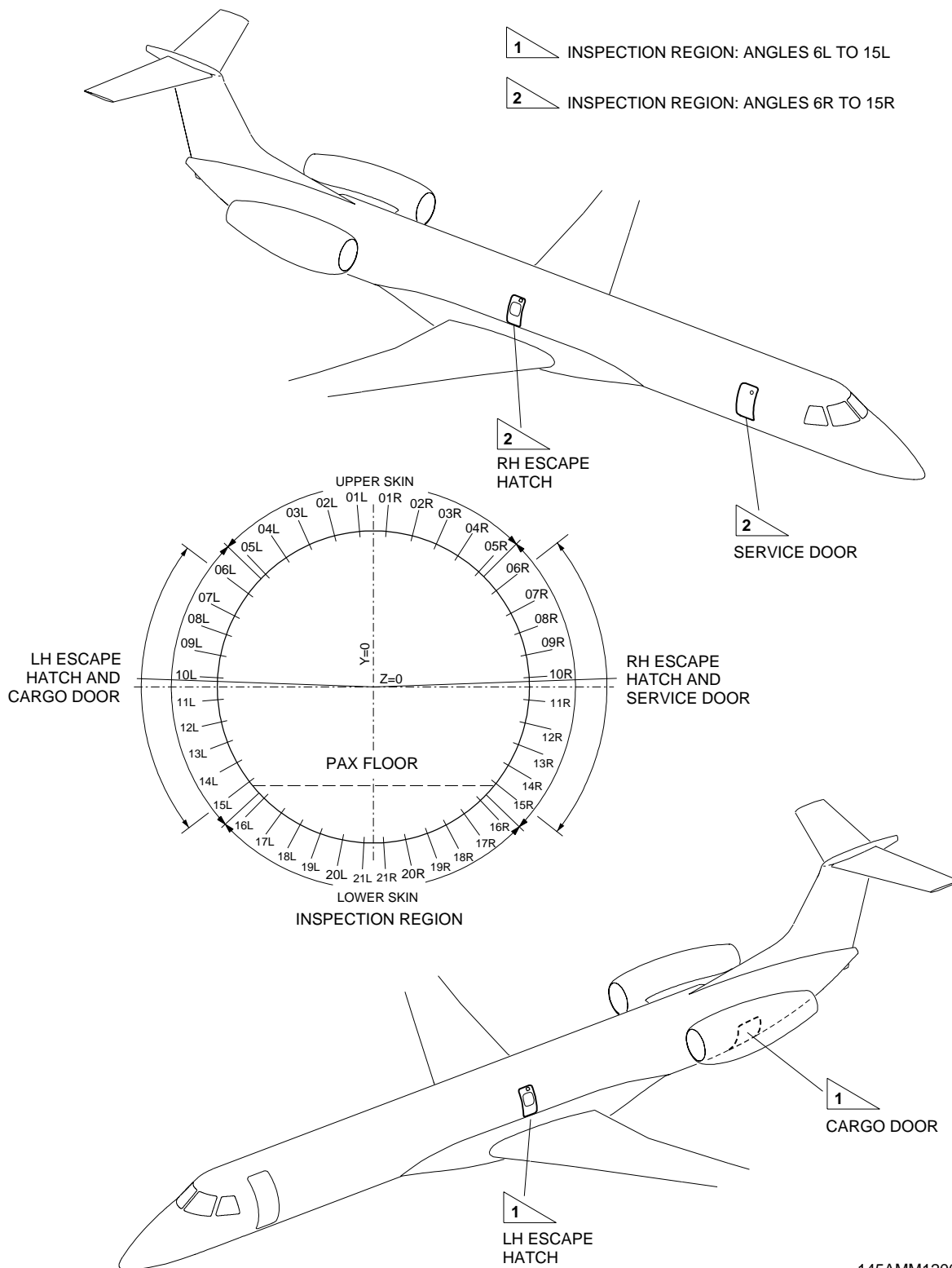
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Internal-Drain Inspection Areas on Cargo Door, Service Door, and Escape Hatch Frames

Figure 306



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