



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

HORIZONTAL-STABILIZER ANTI-ICING DRAINS - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH THE AFFECTED DRAINS

1. General

- A. This section gives the procedures to remove and install the drains of the Horizontal-Stabilizer Thermal Anti-Icing System.
- B. These procedures are applicable to the three drains of the Horizontal-Stabilizer Thermal Anti-Icing System.
- C. The drains are installed on the ducts of the Horizontal-Stabilizer Thermal Anti-Icing System, as follows:
 - Two drains in the duct at the dorsal fin;
 - One drain in the duct at the vertical stabilizer.
- D. 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 |
|--------------------|----------------------|--------------------------------------|
| 30-12-08-000-801-A | DRAIN - REMOVAL | AIRCRAFT WITH THE AFFECTED DRAINS |
| 30-12-08-400-801-A | DRAIN - INSTALLATION | AIRCRAFT WITH THE AFFECTED DRAINS |



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TASK 30-12-08-000-801-A

EFFECTIVITY: AIRCRAFT WITH THE AFFECTED DRAINS

2. DRAIN - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the drain of the Horizontal-Stabilizer Thermal Anti-Icing System.

B. References

| REFERENCE | DESIGNATION |
|----------------------|-------------|
| AMM MPP 06-42-00/100 | - |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|------------------------------------|
| 322 | 322AL | LH side of the dorsal fin |
| 325 | 325EL | LH side of the vertical stabilizer |

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

| ITEM | DESCRIPTION | PURPOSE | QTY |
|------------------------|-------------|----------------------------|-----|
| Commercially available | Ladder | To get access to the drain | 1 |

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

| QTY | FUNCTION | PLACE |
|-----|---------------|-----------------------------------|
| 1 | Does the task | Dorsal fin or vertical stabilizer |

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead Circuit Breaker Panel, open the circuit breaker below and attach a DO-NOT-CLOSE tag to it.
- STAB (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
- (2) Remove access panel 322AL or 325EL (AMM MPP 06-42-00/100).



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

SUBTASK 020-002-A

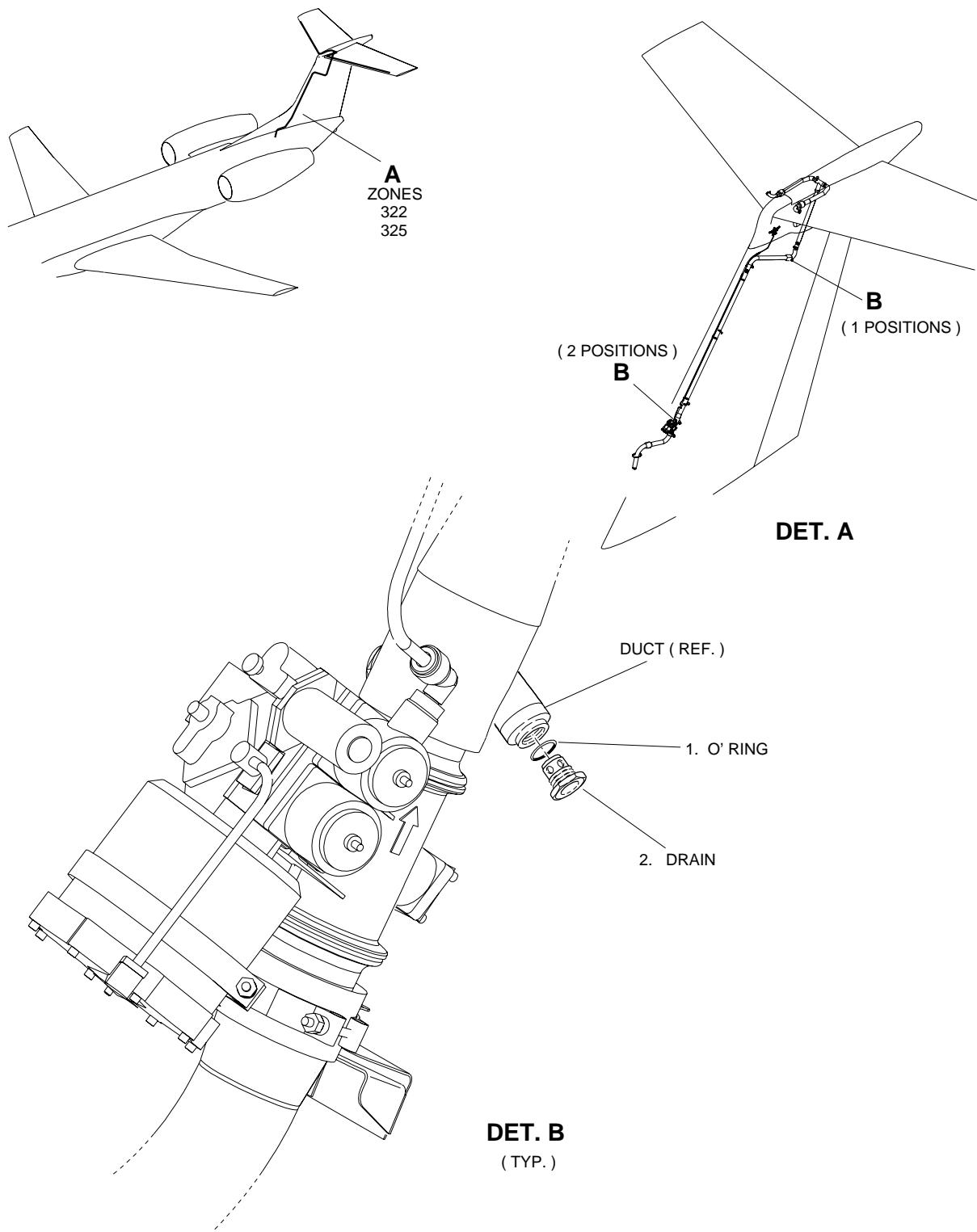
WARNING: DO NOT TOUCH THE DUCTS OR COMPONENTS OF THE ANTI-ICING SYSTEM IMMEDIATELY AFTER THE SYSTEM IS TURNED OFF, BECAUSE THE HIGH AIR TEMPERATURE CAN CAUSE INJURY TO YOU.

- (1) Remove the drain (2) and O-ring (1) from the duct.
- (2) Discard the old O-ring (1).

EFFECTIVITY: AIRCRAFT WITH THE AFFECTED DRAINS

Drain - Removal/Installation

Figure 401



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TASK 30-12-08-400-801-A

EFFECTIVITY: AIRCRAFT WITH THE AFFECTED DRAINS

3. DRAIN - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the drain of the Horizontal-Stabilizer Thermal Anti-Icing System.

B. References

| REFERENCE | DESIGNATION |
|----------------------|---|
| AMM MPP 06-42-00/100 | - |
| IPC 30-12-00 | HORIZONTAL-STABILIZER THERMAL ANTI-ICING SYSTEM |

C. Zones and Accesses

| ZONE | PANEL/DOOR | LOCATION |
|------|------------|------------------------------------|
| 322 | 322AL | LH side of the dorsal fin |
| 325 | 325EL | LH side of the vertical stabilizer |

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

| SPECIFICATION (BRAND) | DESCRIPTION | QTY |
|--------------------------|-------------|-----|
| M83248/1-908 | O-ring | AR |

G. Expendable Parts

| ITEM | IPC REFERENCE (VENDOR REFERENCE) | QTY |
|--------|-------------------------------------|-----|
| O-ring | IPC 30-12-00 | 1 |

H. Persons Recommended

| QTY | FUNCTION | PLACE |
|-----|---------------|-----------------------------------|
| 1 | Does the task | Dorsal fin or vertical stabilizer |

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the drain (2) and a new O-ring (1) to the duct.



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J. Follow-on

SUBTASK 842-002-A

- (1) On the overhead Circuit Breaker Panel, close the circuit breaker below and remove the DO-NOT-CLOSE tag from it.
 - STAB (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
- (2) Examine the drain connection for leaks.
- (3) Install access panels 322AL or 325EL (AMM MPP 06-42-00/100).