

## VERTICAL-STABILIZER ANTI-ICING MONITORING TUBES - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures to remove and install the monitoring tubes of the vertical-stabilizer thermal anti-icing system.
- B. These anti-icing monitoring tubes are installed in the vertical stabilizer.
- 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
30-12-11-000-801-A	VERTICAL-STABILIZER ANTI-ICING MON-ITORING TUBES - REMOVAL	ALL
30-12-11-400-801-A	VERTICAL-STABILIZER ANTI-ICING MON-ITORING TUBES - INSTALLATION	ALL

TASK 30-12-11-000-801-A

EFFECTIVITY: ALL

## 2. VERTICAL-STABILIZER ANTI-ICING MONITORING TUBES - REMOVAL

### A. General

- (1) This procedure gives the instructions to remove the Vertical-Stabilizer Anti-Icing Monitoring Tubes.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-30-00/100	-
AMM MPP 06-42-00/100	-
<a href="#">AMM TASK 30-12-13-000-801-A/400</a>	PRESSURE DAMPER - REMOVAL
<a href="#">AMM TASK 55-35-00-000-801-A/400</a>	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
<a href="#">S.B.145-30-0015</a>	-
<a href="#">S.B.145-30-0022</a>	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
323		Vertical stabilizer area
324	324EL	LH side of the vertical stabilizer
322	322AL	LH side of the dorsal fin

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the vertical-stabilizer anti-icing monitoring tubes	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Leading edge of the vertical stabilizer

I. Preparation

*SUBTASK 841-002-A*

**WARNING: DO NOT TOUCH THE MONITORING TUBES 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) On the overhead Circuit Breaker Panel, open this circuit breaker and attach a DO-NOT-CLOSE tag to it.
  - STAB: (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
- (2) Put the ladder beside the vertical stabilizer.
- (3) Remove vertical-stabilizer leading edges 323, 324EL, and 322AL (AMM MPP 06-30-00/100) (AMM MPP 06-42-00/100) ( [AMM TASK 55-35-00-000-801-A/400](#)).

J. Removal ([Figure 401](#)) ([Figure 402](#))

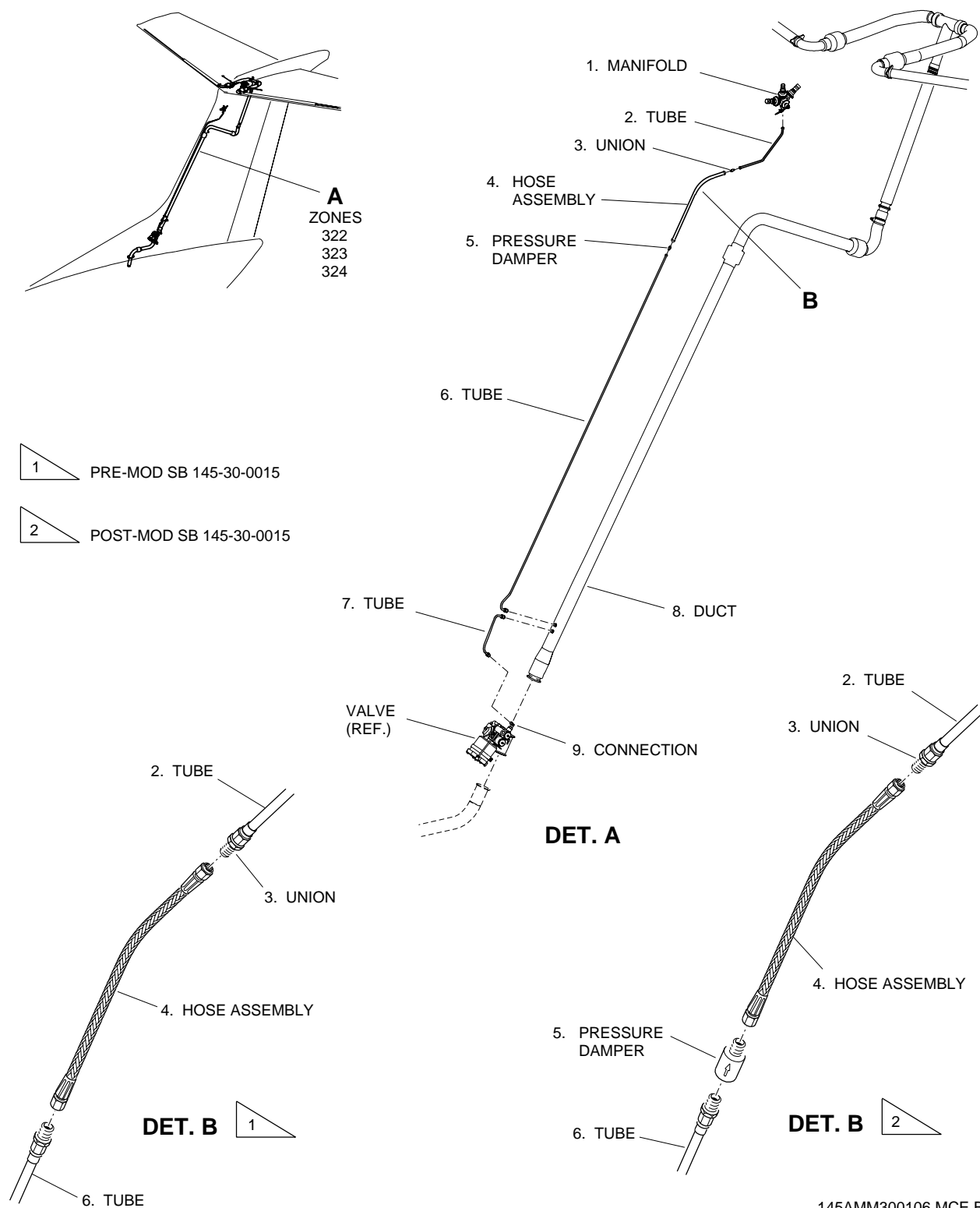
*SUBTASK 020-002-A*

- (1) PRE-MOD. [S.B.145-30-0022](#) ([Figure 401](#)).
  - (a) Disconnect the tube (2) from the manifold (1) and the union (3).
  - (b) Disconnect the union (3) from the hose assembly (4).
  - (c) (PRE-MOD. [S.B.145-30-0015](#)) Disconnect the hose assembly (4) from the tube (6).
  - (d) (POST-MOD. [S.B.145-30-0015](#)) Disconnect the pressure damper (5) from the hose assembly (4) and the tube (6) ( [AMM TASK 30-12-13-000-801-A/400](#)).
  - (e) Disconnect the tube (6) from the duct (8).
  - (f) Disconnect the tube (7) from the duct (8) and from the connection (9).
- (2) POST-MOD. [S.B.145-30-0022](#) ([Figure 402](#)).
  - (a) With the wrench, hold the union (1) and with other wrench, loosen the coupling nut of the tube (4).
  - (b) Disconnect the tube (4) from the union (5).
  - (c) Disconnect the union (5) from the hose assembly (6).
  - (d) Disconnect the hose assembly (6) from the tube (7).
  - (e) Disconnect the tube (7) from the duct (9).
  - (f) Disconnect the tube (8) from the duct (9) and the banjo (10).

EFFECTIVITY: PRE-MOD. S.B. 145-30-0022

Vertical-Stabilizer Anti-Icing Monitoring Tubes - Removal/Installation

Figure 401

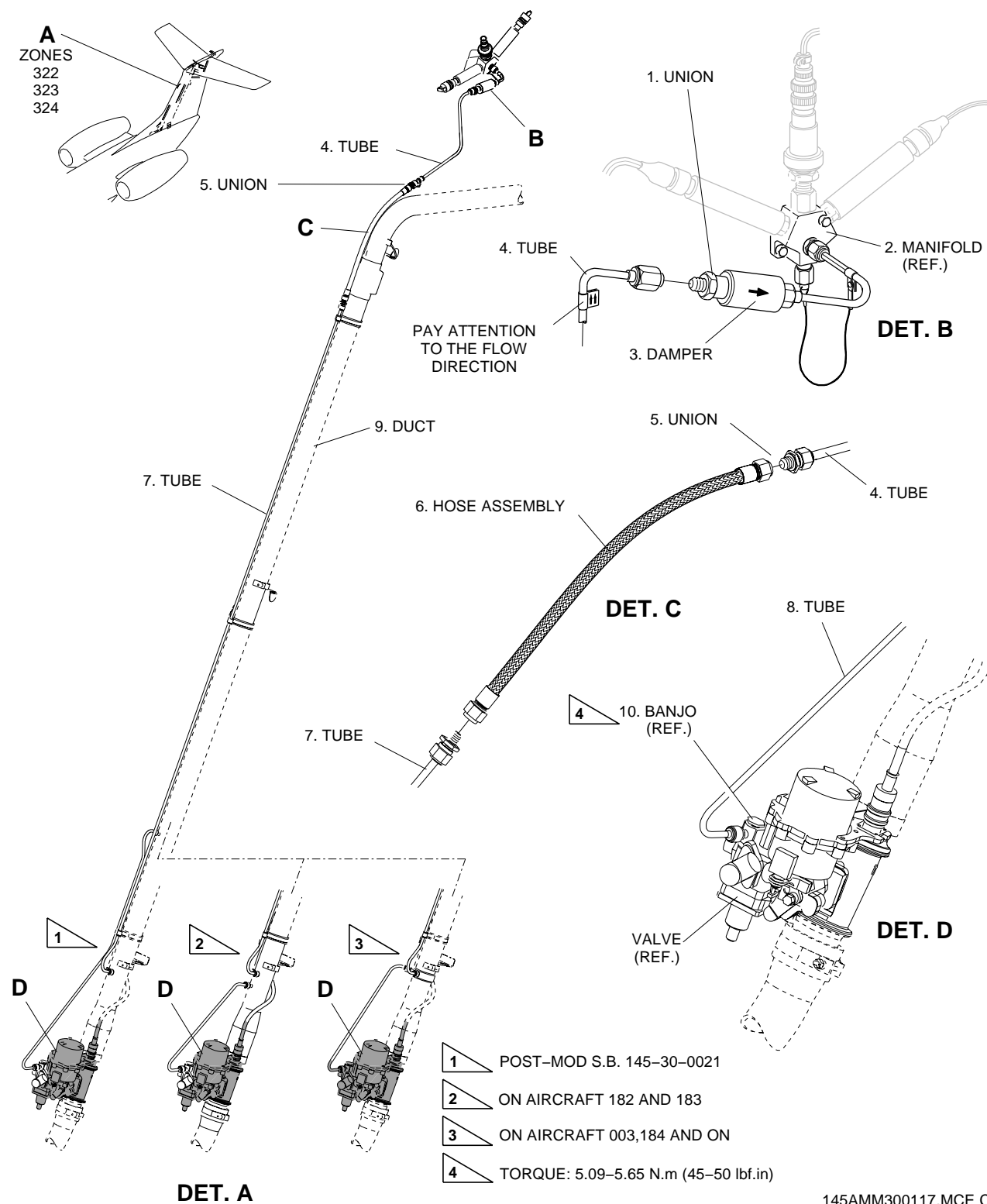


145AMM300106.MCE B

EFFECTIVITY: POST-MOD. S.B. 145-30-0022

Vertical-Stabilizer Anti-Icing Monitoring Tubes - Removal/Installation

Figure 402



145AMM300117.MCE C

TASK 30-12-11-400-801-A

EFFECTIVITY: ALL

### 3. VERTICAL-STABILIZER ANTI-ICING MONITORING TUBES - INSTALLATION

#### A. General

- (1) This procedure gives the instructions to install the vertical-stabilizer anti-icing monitoring tubes.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-30-00/100	-
AMM MPP 06-42-00/100	-
<a href="#">AMM TASK 30-12-00-700-803-A/500</a>	HORIZONTAL-STABILIZER THERMAL ANTI-ICING SYSTEM - FUNCTIONAL TEST
<a href="#">AMM TASK 30-12-13-400-801-A/400</a>	PRESSURE DAMPER - INSTALLATION
<a href="#">AMM TASK 55-35-00-000-801-A/400</a>	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
<a href="#">S.B.145-30-0015</a>	-
<a href="#">S.B.145-30-0022</a>	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
323		Vertical stabilizer area
324	324EL	LH side of the vertical stabilizer
322	322AL	LH side of the dorsal fin

#### D. Tools and Equipment

Not Applicable

#### 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	Leading edge of the vertical stabilizer

#### I. Installation (Figure 401) (Figure 402)

**SUBTASK 420-002-A**

- (1) PRE-MOD. [S.B.145-30-0022](#) (Figure 401).

- (a) Connect the tube (2) to the manifold (1) and the union (3).
  - (b) Connect the union (3) to the hose assembly (4).
  - (c) (PRE-MOD. [S.B.145-30-0015](#)) Connect the hose assembly (4) to the tube (6).
  - (d) (POST-MOD. [S.B.145-30-0015](#)) Connect the pressure damper (5) to the hose assembly (4) and the tube (6) ( [AMM TASK 30-12-13-400-801-A/400](#)).
  - (e) Connect the tube (6) to the duct (8).
  - (f) Connect the tube (7) to the duct (8) and to the connection (9).
- (2) POST-MOD. [S.B.145-30-0022](#) (Figure 402).
- (a) With the wrench, hold the union (1) and with other wrench, connect the coupling nut of the tube (4) to other side of the union (1).
  - (b) Connect the tube (4) to union (5).
  - (c) Connect the union (5) to the hose assembly (6).
  - (d) Connect the hose assembly (6) to the tube (7).
  - (e) Connect the tube (7) to the duct (9).
  - (f) Put the tube (8) on the banjo (10). If necessary, carefully rotate the banjo fitting of the valve to the proper position and apply a torque necessary to the hex fastener.
  - (g) Connect the tube (8) to the duct (9).

J. Follow-on

*SUBTASK 842-002-A*

- (1) On the overhead Circuit Breaker Panel, close this circuit breaker and remove the DO-NOT-CLOSE tag from it.
  - STAB: (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
- (2) Do the functional test ( [AMM TASK 30-12-00-700-803-A/500](#)) as far as item J.(7) and then do item J.(13). If there are problems, do a check of the installed connections.
- (3) Install vertical-stabilizer leading edges 323, 324EL, and 322AL (AMM MPP 06-30-00/100) (AMM MPP 06-42-00/100) ( [AMM TASK 55-35-00-000-801-A/400](#)).

