



AIRCRAFT
MAINTENANCE MANUAL

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 MONITORING TUBES - REMOVAL	ALL
30-12-11-400-801-A	VERTICAL-STABILIZER ANTI-ICING MONITORING TUBES - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

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	-
AMM TASK 30-12-13-000-801-A/400	PRESSURE DAMPER - REMOVAL
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
S.B.145-30-0015	-
S.B.145-30-0022	-

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](#))

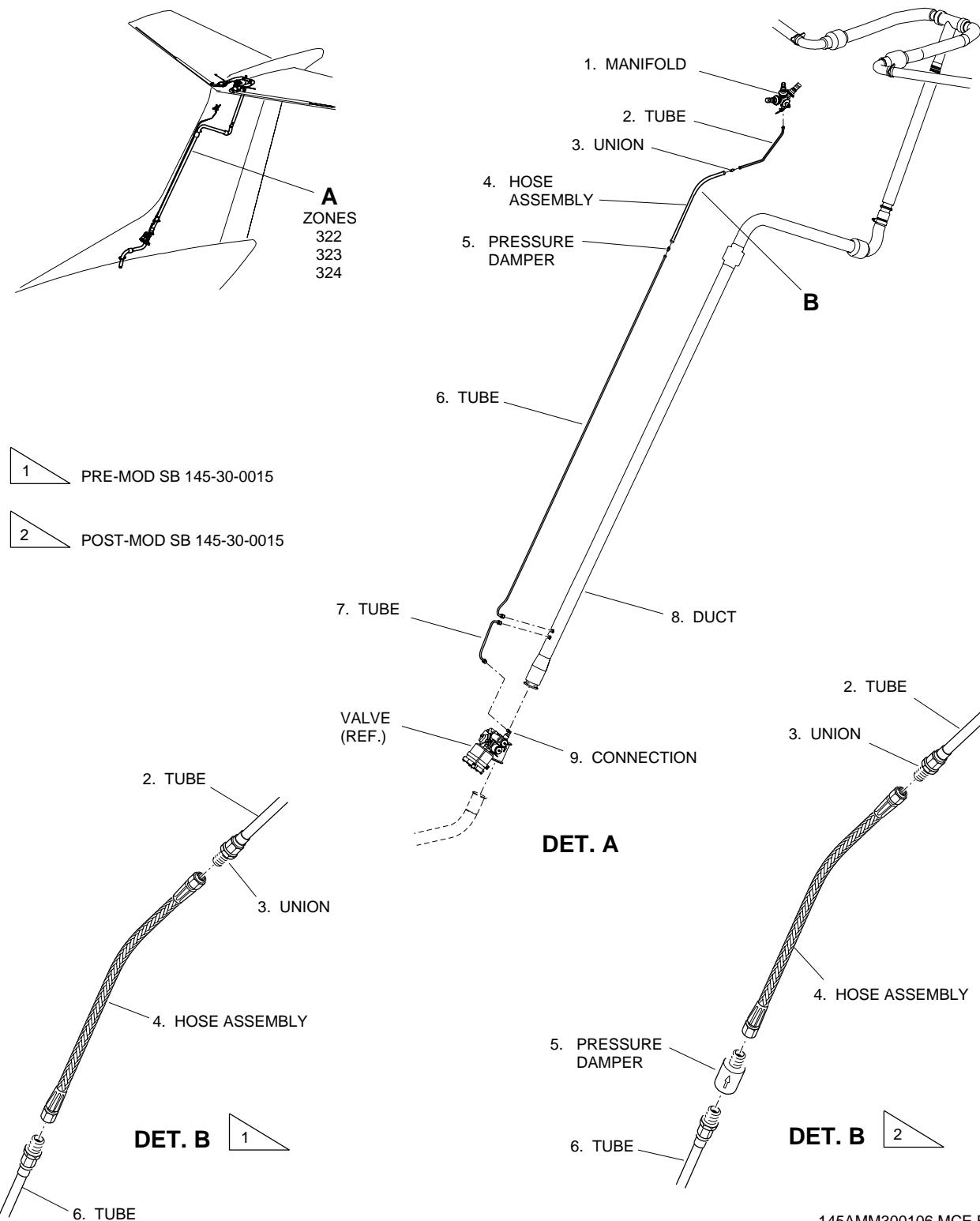
SUBTASK 020-002-A

- (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

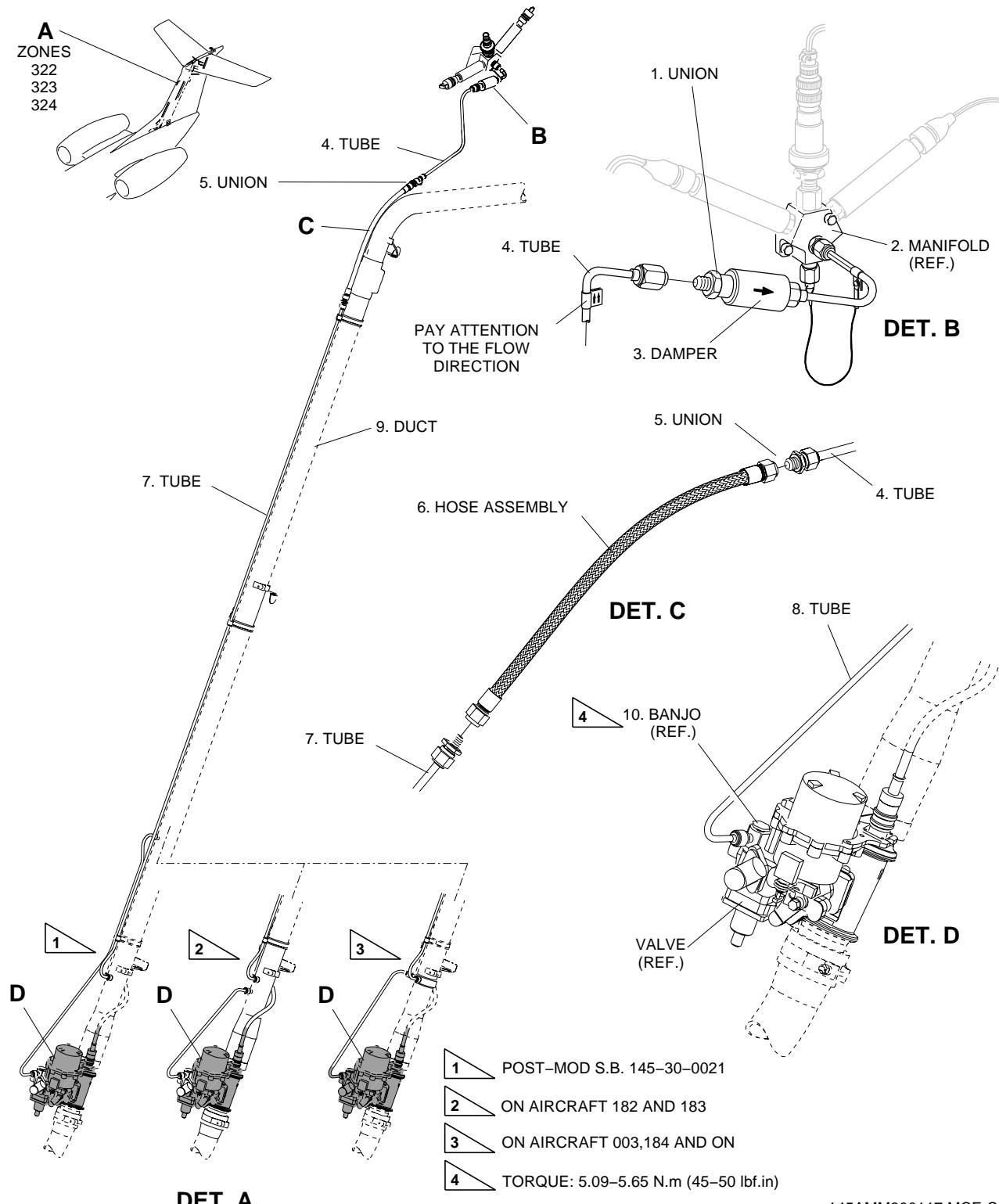


145AMM300106.MCE B

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

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

Figure 402



145AMM300117.MCE C



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

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	-
AMM TASK 30-12-00-700-803-A/500	HORIZONTAL-STABILIZER THERMAL ANTI-ICING SYSTEM - FUNCTIONAL TEST
AMM TASK 30-12-13-400-801-A/400	PRESSURE DAMPER - INSTALLATION
AMM TASK 55-35-00-000-801-A/400	VERTICAL-STABILIZER LEADING EDGE - REMOVAL
S.B.145-30-0015	-
S.B.145-30-0022	-

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](#)).

