

## HORIZONTAL-STABILIZER ANTI-ICING SYSTEM MONITORING TUBES - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures to remove and install the horizontal-stabilizer anti-icing monitoring tubes.
- B. The anti-icing monitoring tubes are installed in the LH and RH leading edges of the horizontal-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
30-12-10-000-801-A	HORIZONTAL-STABILIZER ANTI-ICING MONITORING TUBES - REMOVAL	ALL
30-12-10-400-801-A	HORIZONTAL-STABILIZER ANTI-ICING MONITORING TUBES - INSTALLATION	ALL

TASK 30-12-10-000-801-A

EFFECTIVITY: ALL

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

### A. General

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

### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 30-12-09-000-801-A/400</a>	DAMPING CHAMBER - REMOVAL
<a href="#">AMM TASK 55-15-00-000-801-A/400</a>	HORIZONTAL-STABILIZER LEADING EDGE - REMOVAL
<a href="#">S.B.145-30-0022</a>	-

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
331		LH side of the horizontal stabilizer
332		RH side of the horizontal stabilizer

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the leading edges of the horizontal stabilizer	1

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH leading edges of the horizontal stabilizer

### I. Preparation

**SUBTASK 841-002-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) On the overhead Circuit Breaker Panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
  - (PRE-MOD. [S.B.145-30-0022](#))  
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
  - (POST-MOD. [S.B.145-30-0022](#))  
STAB A/I IND: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/STAB A/I IND).  
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
- (2) Put the ladder in front of the LH or RH leading edges of the horizontal stabilizers.
- (3) Remove the leading edge 331 or 332 of the horizontal stabilizer ( [AMM TASK 55-15-00-000-801-A/400](#)).
- (4) Remove the damping chamber of the Horizontal-Stabilizer Thermal Anti-Icing System ([AMM TASK 30-12-09-000-801-A/400](#)).

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

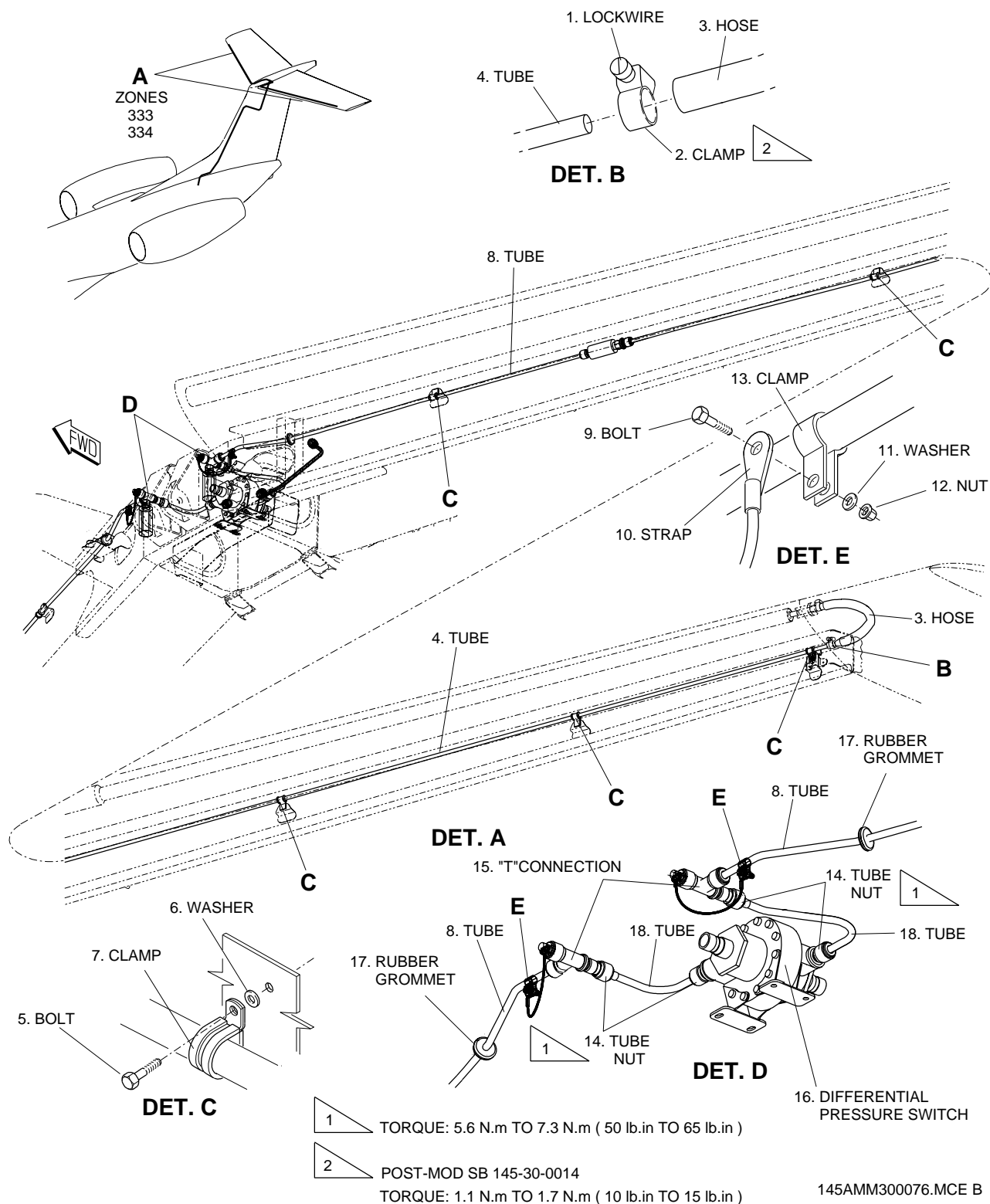
*SUBTASK 020-002-A*

- (1) Remove the lockwire (1) and loosen the clamp (2).
- (2) Remove the hose (3) from the tube (4).
- (3) Remove the bolts (5), washers (6), and clamps (7) that hold the tubes (4) and (8).
- (4) Remove the bolt (9), strap (10), washer (11), nut (12), and clamp (13) from the tube (8).
- (5) Disconnect the tube nuts (14) from the "T" connection (15 ) and from the differential pressure switch (16).
- (6) Remove the tubes (8) and (18).
- (7) Remove the rubber grommet (17) from the tube (8).

EFFECTIVITY: ALL

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

Figure 401



TASK 30-12-10-400-801-A  
EFFECTIVITY: ALL

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

#### A. General

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

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM TASK 30-12-09-400-801-A/400</a>	DAMPING CHAMBER - INSTALLATION
<a href="#">AMM TASK 30-12-10-700-801-A/500</a>	HORIZONTAL-STABILIZER ANTI-ICING SYSTEM MONITORING TUBES - LEAKAGE/TEST
<a href="#">AMM TASK 55-15-00-400-801-A/400</a>	HORIZONTAL-STABILIZER LEADING EDGE - IN- STALLATION
<a href="#">S.B.145-30-0022</a>	-

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
331		LH side of the horizontal-stabilizer
332		RH side of the horizontal-stabilizer

#### D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the attachment nuts	

#### E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the leading edges of the horizontal stabilizer	1

#### F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS 20995C20	Lockwire	AR

#### G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH leading edges of the horizontal stabilizer

I. Installation (Figure 401)

**SUBTASK 420-002-A**

- (1) Connect the tubes (18) and torque the tube nut (14), the "T" connections (15), and the differential pressure switch (16).
- (2) Install the rubber grommet (17) on the tube (8).
- (3) Connect the tubes (8) to the "T" connections (15).
- (4) Install the clamp (13) and the strap (10) on the tube ( 8) with the bolts (9), washers (11), and nuts (12).
- (5) Install the tube (4) and all the clamps (7), with the bolts (5) and washers (6).
- (6) Install the clamp (2) on the hose (3) and install it on the tube (4), torque the clamp (2).
- (7) Install the lockwire (1) to the clamp (2).

J. Follow-on

**SUBTASK 842-002-A**

- (1) Install the damping chamber of the Horizontal-Stabilizer Thermal Anti-Icing System ([AMM TASK 30-12-09-400-801-A/400](#)).
- (2) Do the horizontal-stabilizer anti-icing monitoring tube leakage test ([AMM TASK 30-12-10-700-801-A/500](#)).
- (3) On the overhead Circuit Breaker Panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them.
  - (PRE-MOD. [S.B.145-30-0022](#))  
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
  - (POST-MOD. [S.B.145-30-0022](#))  
STAB A/I IND: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/STAB A/I IND).  
STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
- (4) Install the leading edge 331 or 332 of the horizontal stabilizer ( [AMM TASK 55-15-00-400-801-A/400](#)).
- (5) Remove the ladder from the LH or RH leading edges of the horizontal stabilizers.