



AIRCRAFT MAINTENANCE MANUAL

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



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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
AMM TASK 30-12-09-000-801-A/400	DAMPING CHAMBER - REMOVAL
AMM TASK 55-15-00-000-801-A/400	HORIZONTAL-STABILIZER LEADING EDGE - REMOVAL
S.B.145-30-0022	-

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](#))

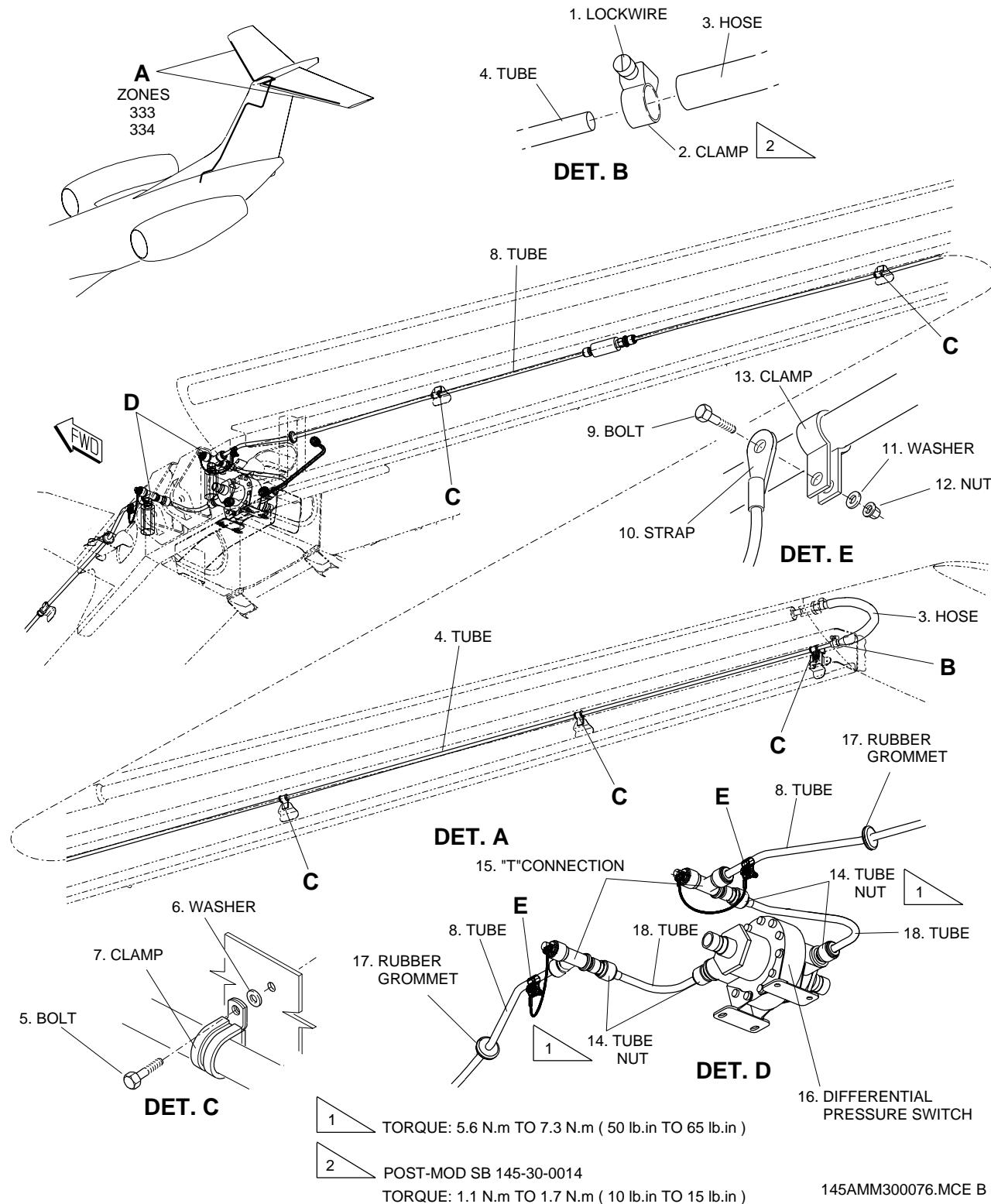
SUBTASK 020-002-A

- (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





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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
AMM TASK 30-12-09-400-801-A/400	DAMPING CHAMBER - INSTALLATION
AMM TASK 30-12-10-700-801-A/500	HORIZONTAL-STABILIZER ANTI-ICING SYSTEM MONITORING TUBES - LEAKAGE/TEST
AMM TASK 55-15-00-400-801-A/400	HORIZONTAL-STABILIZER LEADING EDGE - INSTALLATION
S.B.145-30-0022	-

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



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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.