



AIRCRAFT
MAINTENANCE MANUAL

HORIZONTAL-STABILIZER ANTI-ICING MANIFOLD - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and to install the manifold of the Horizontal Stabilizer Thermal Anti-Icing system.
- B. 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
30-12-14-000-801-A	MANIFOLD OF THE HORIZONTAL STABILIZER THERMAL ANTI-ICING SYSTEM- REMOVAL	ALL
30-12-14-400-801-A	MANIFOLD OF THE WING THERMAL ANTI-ICING SYSTEM - INSTALLATION	ALL



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 30-12-14-000-801-A

EFFECTIVITY: ALL

2. MANIFOLD OF THE HORIZONTAL STABILIZER THERMAL ANTI-ICING SYSTEM- REMOVAL

A. General

- (1) This section gives the procedures to remove the manifold of the Horizontal Stabilizer Anti-Icing system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 30-12-02-000-801-A/400	LOW PRESSURE SWITCH - REMOVAL
AMM TASK 30-12-03-000-801-A/400	OVERPRESSURE SWITCH - REMOVAL
AMM TASK 30-12-12-000-801-A/400	LOW PRESSURE TRANSDUCER - REMOVAL
AMM TASK 30-12-13-000-801-A/400	PRESSURE DAMPER - REMOVAL
SB145-30-0022	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324	324EL	LH side of the vertical stabilizer

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	On the aircraft

I. Preparation

SUBTASK 841-002-A

WARNING: DO NOT TOUCH THE ANTI-ICING SYSTEM COMPONENTS IMMEDIATELY AFTER OPERATION DUE TO THEIR HIGH TEMPERATURE, THEY CAN CAUSE INJURY.

- (1) Remove access panels 234EL (AMM MPP 06-41-01/100).



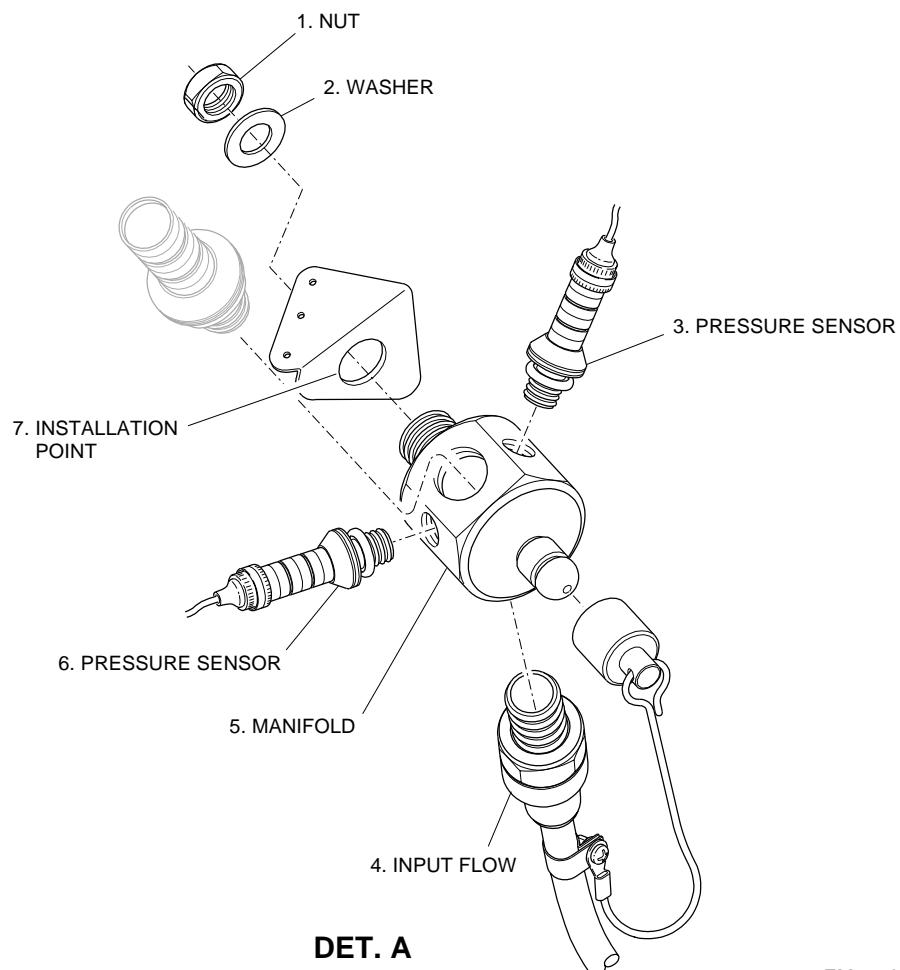
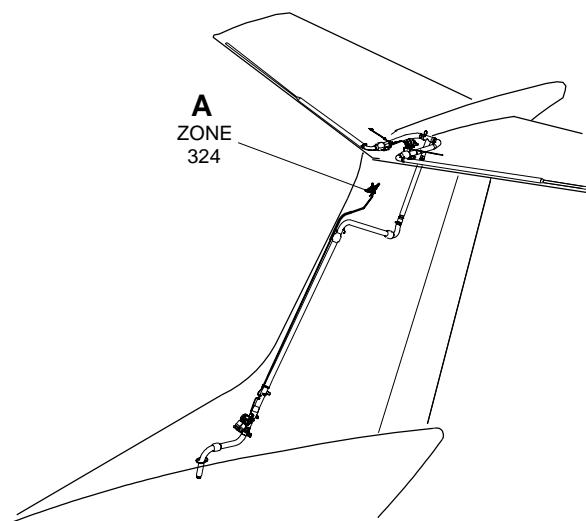
AIRCRAFT
MAINTENANCE MANUAL

- (2) For Pre-Mod. [SB145-30-0022](#) do as follows:
 - (a) Loose and remove the Horizontal Stabilizer pressure sensors (3), (6) ([AMM TASK 30-12-02-000-801-A/400](#)), ([AMM TASK 30-12-03-000-801-A/400](#)).
 - (b) Loose and remove the tube of input flow from the manifold (5).
- (3) For Post-Mod. [SB145-30-0022](#) do as follows:
 - (a) Loose and remove the Horizontal Stabilizer pressure sensors (2), (9), (12) ([AMM TASK 30-12-12-000-801-A/400](#)), ([AMM TASK 30-12-03-000-801-A/400](#)).
 - (b) Loose and remove the Horizontal Stabilizer pressure damper (7) ([AMM TASK 30-12-13-000-801-A/400](#)).
 - (c) Loose and remove the tube of input air flow (6) from the manifold (8).

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

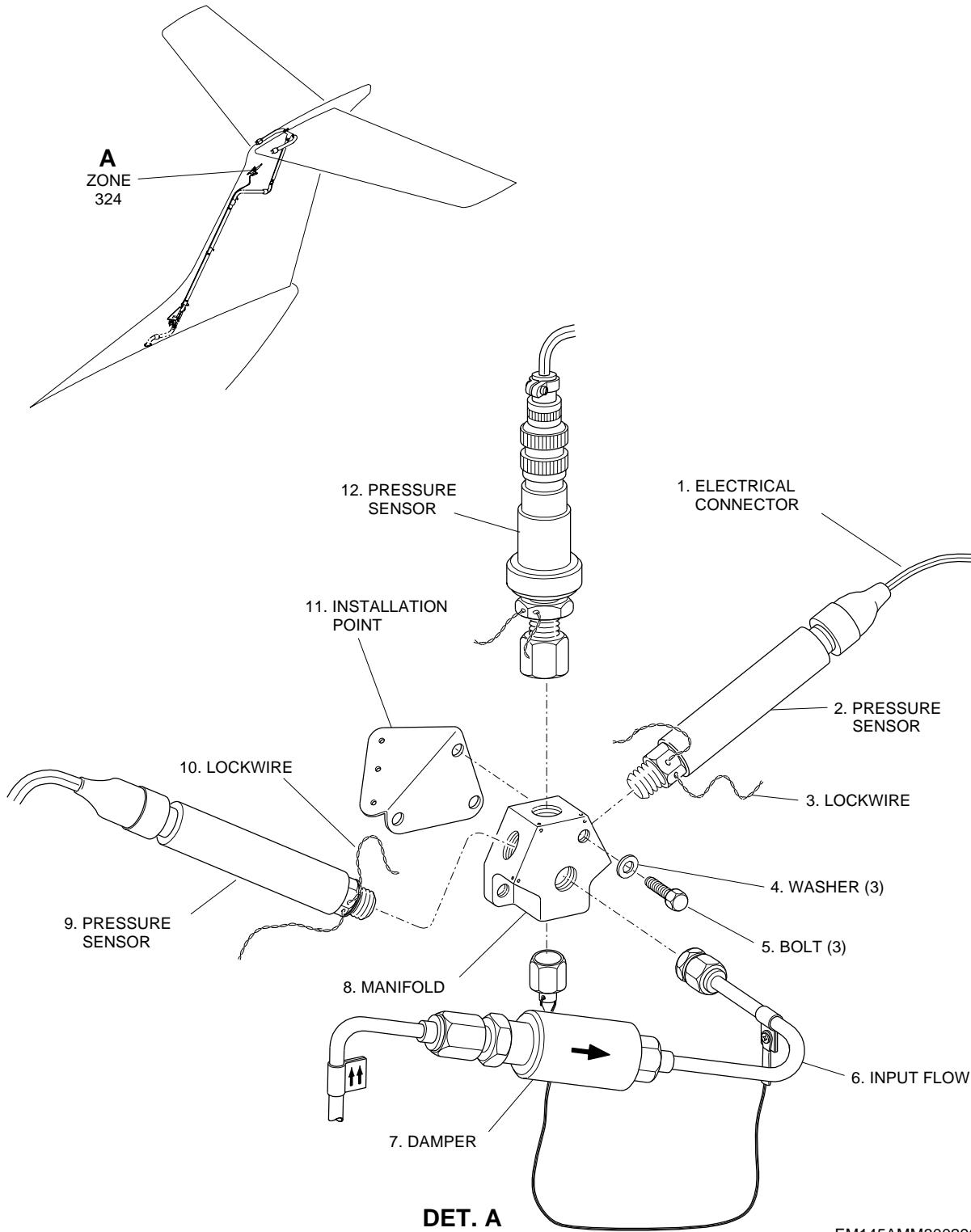
SUBTASK 000-002-A

- (1) For Pre-Mod. [SB145-30-0022](#) do as follows:
 - (a) Loose the nut (1) behind the manifold (5) in order to remove it from the installation point (7).
 - (b) Remove the manifold (5) from the installation point (7).
- (2) For Post-Mod. [SB145-30-0022](#) do as follows:
 - (a) Loose and remove the 3 bolts (5) that attach the manifold (8) to the installation point (11) on the structure.
 - (b) Remove the manifold (8) from the installation point (11).

EFFECTIVITY: Pre-Mod. SB145-30-0022
Horizontal Stabilizer Manifold - Location
Figure 401


EM145AMM300261A.DGN

EFFECTIVITY: Post-Mod. SB145-30-0022
 Horizontal Stabilizer Manifold - Location
 Figure 402



EM145AMM300290A.DGN



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 30-12-14-400-801-A

EFFECTIVITY: ALL

3. MANIFOLD OF THE WING THERMAL ANTI-ICING SYSTEM - INSTALLATION

A. General

- (1) This section gives the procedures to install the manifold of the horizontal stabilizer anti-ice system.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 30-12-00-700-801-A/500	ELECTRICAL HARDWARE - OPERATIONAL CHECK
AMM TASK 30-12-02-400-801-A/400	LOW PRESSURE SWITCH - INSTALLATION
AMM TASK 30-12-03-400-801-A/400	OVERPRESSURE SWITCH - INSTALLATION
AMM TASK 30-12-12-400-801-A/400	LOW PRESSURE TRANSDUCER - INSTALLATION
AMM TASK 30-12-13-400-801-A/400	PRESSURE DAMPER - INSTALLATION
IPC 30-12-00	HORIZONTAL-STABILIZER THERMAL ANTI-ICING SYSTEM
SB145-30-0022	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
324	324EL	Horizontal Stabilizer

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
Lock Wire	IPC 30-12-00	AR

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	On the aircraft



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

I. Installation (Figure 401) (Figure 402)

SUBTASK 400-002-A

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

- (1) For Pre-Mod. [SB145-30-0022](#) do as follows:
 - (a) Install the manifold (5) to the installation point (7).
 - (b) Install the washer (2) and nut (1) and attach it.
 - (c) Attach the nut (1).
- (2) For Post-Mod. [SB145-30-0022](#) do as follows:
 - (a) Install the manifold (8) to the installation point (11).
 - (b) Install the washer (4) and bolt (5) to attach the manifold (8) to the installation point (11).
 - (c) Fasten the 3 bolts (5) to attach the manifold (8) to the installation point (11).

J. Follow-on

SUBTASK 842-002-A

- (1) For Pre-Mod. [SB145-30-0022](#) do as follows:
 - (a) Install the horizontal stabilizer pressure sensors (3), (6) to the manifold (5) ([AMM TASK 30-12-02-400-801-A/400](#)), ([AMM TASK 30-12-02-400-801-A/400](#)).
 - (b) Install the input flow tube (4) to the manifold (5).
- (2) For Post-Mod. [SB145-30-0022](#) do as follows:
 - (a) Install the horizontal stabilizer pressure sensors (3), (9) to the manifold (8) ([AMM TASK 30-12-12-400-801-A/400](#)), ([AMM TASK 30-12-03-400-801-A/400](#)), ([AMM TASK 30-12-13-400-801-A/400](#)).
 - (b) Install the tube input flow (6) to the manifold (8) and to the piccolo duct.
- (3) Install access panels 234EL (AMM MPP 06-41-01/100).
- (4) Do the operational test of the horizontal stabilizer anti-icing system ([AMM TASK 30-12-00-700-801-A/500](#)).

