WING ANTI-ICING MANIFOLD - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

A. This section gives the procedures to remove and to install the manifold of the Wing 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*
30-11-16-000-801-A	MANIFOLD OF THE WING THERMAL ANTI-ICING SYSTEM - REMOVAL	ALL
30-11-16-400-801-A	MANIFOLD OF THE WING THERMAL ANTI-ICING SYSTEM - INSTALLATION	ALL

TASK 30-11-16-000-801-A
EFFECTIVITY: ALL

2. MANIFOLD OF THE WING THERMAL ANTI-ICING SYSTEM - REMOVAL

A. General

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

B. References

REFERENCE	*DESIGNATION*
AMM MPP 06-41-01/100	-
AMM TASK 30-11-02-000-801-A/400	LOW PRESSURE SWITCH - REMOVAL
AMM TASK 30-11-03-000-801-A/400	OVERPRESSURE SWITCH - REMOVAL
AMM TASK 30-11-11-000-801-A/400	LOW PRESSURE TRANSDUCER - REMOVAL
AMM TASK 30-11-14-000-801-A/400	PRESSURE DAMPER - REMOVAL
SB145-30-0022	-

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
191	191EL	Wing-to-fuselage fairing
191	191FR	Wing-to-fuselage fairing

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 191EL, 191FR, as applicable (AMM MPP 06-41-01/100).

(2) For Pre-Mod. SB145-30-0022 do as follows:

(a) Loose and remove the wing pressure sensors (4), (7) from the manifold (5) (AMM TASK 30-11-02-000-801-A/400), (AMM TASK 30-11-03-000-801-A/400).

(b) Loose and remove the input flow tube (6) from the manifold (5).

(3) For Post-Mod. SB145-30-0022 do as follows:

(a) Remove the wing pressure sensors (5), (9) from the manifold (8) (AMM TASK 30-11-11-000-801-A/400), (AMM TASK 30-11-03-000-801-A/400).

(b) Loose and remove the wing pressure damper (AMM TASK 30-11-14-000-801-A/400).

(c) Loose and remove the input flow tube (7) from the manifold and from the piccolo duct.

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 that attaches it to the installation point (3).

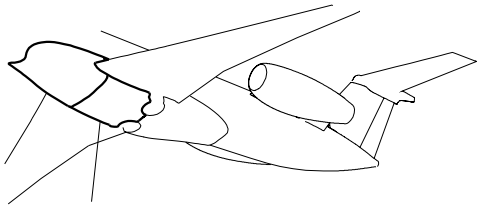
(b) Remove the manifold (5) from the installation point (3).

(2) For Post-Mod. SB145-30-0022 do as follows:

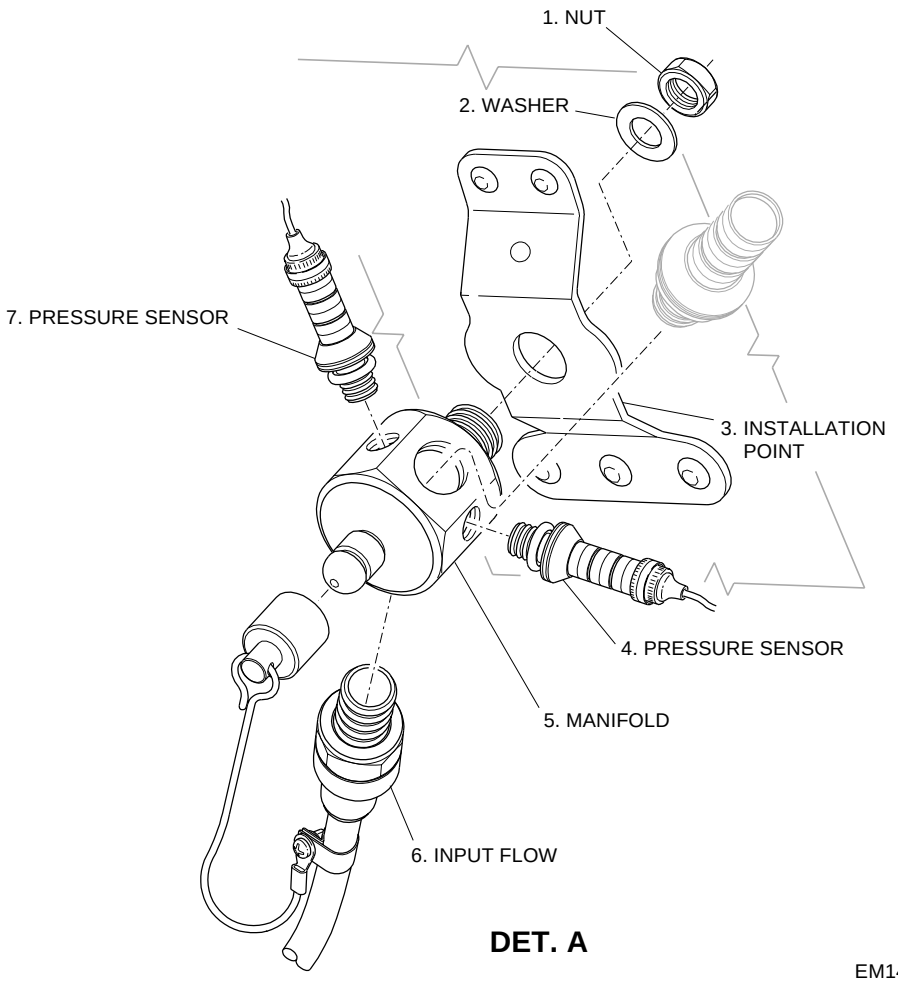
(a) Loose the nut (3) behind the manifold (8) that attaches it to the installation point (1).

(b) Remove the manifold (8) from the installation point (3).

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



A
ZONES
191
192



DET. A

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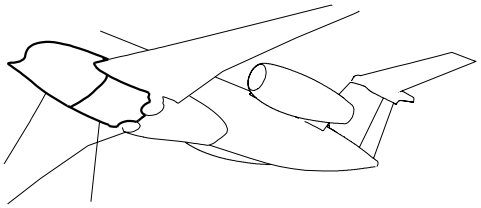
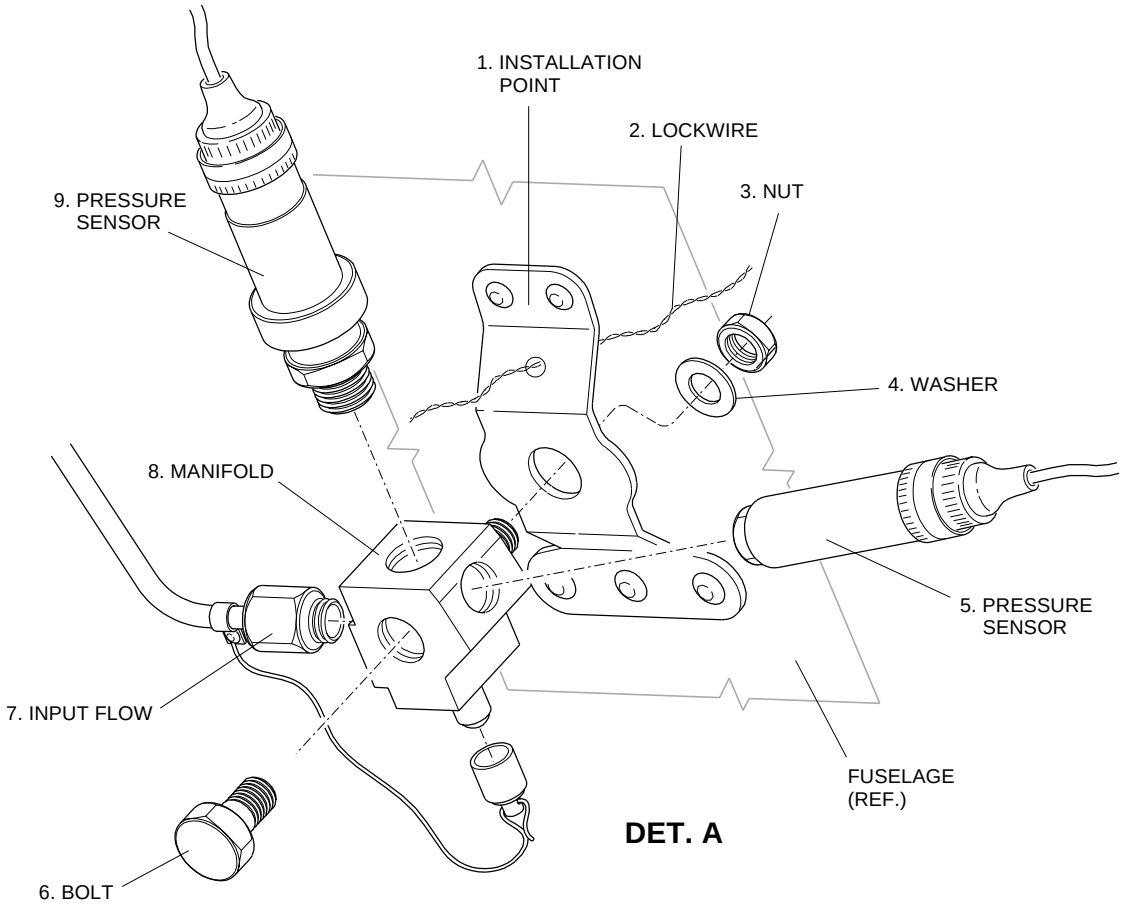
EFFECTIVITY: Post-Mod. SB 145-30-0022
Wing Manifold - Location
Figure 402



A
ZONES
191
192



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TASK 30-11-16-400-801-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 wing anti-ice system.

B. References

REFERENCE	*DESIGNATION*
AMM MPP 06-41-01/100	-
AMM TASK 30-00-00-700-801-A/500	ANTI-ICING SYSTEM MESSAGES - OPERATIONAL CHECK
AMM TASK 30-11-02-400-801-A/400	LOW PRESSURE SWITCH - INSTALLATION
AMM TASK 30-11-03-400-801-A/400	OVERPRESSURE SWITCH - INSTALLATION
AMM TASK 30-11-11-400-801-A/400	LOW PRESSURE TRANSDUCER - INSTALLATION
AMM TASK 30-11-14-400-801-A/400	PRESSURE DAMPER - INSTALLATION
IPC 30-13-00	CENTER FUSLG THERMAL ANTI-ICING SYSTEM
SB145-30-0022	-

C. Zones and Accesses

ZONE	*PANEL/DOOR*	*LOCATION*
191	191EL	Wing-to-fuselage fairing
191	191FR	Wing-to-fuselage fairing

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 30-13-00	AR

H. Persons Recommended

QTY	*FUNCTION*	*PLACE*
1	Does the task	Wing

I. Installation (Figure 401) (Figure 402) (Figure 403)

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 (3).

(b) Install the washer (2) and the nut (1) to attach the manifold (5) to the installation point (3).

(2) For Post-Mod. SB145-30-0022 do as follows:

(a) Install the manifold (8) to the installation point (1).

(b) Install the washer (4) and the nut (3) to attach the manifold (8) to the installation point (1).

(c) Attach the manifold (8) by the lock wire (2) to the installation point (1) (Refer to the (Figure 402).

J. Follow-on

SUBTASK 842-002-A

(1) For Pre-Mod. SB145-30-0022 do as follows:

(a) Install the wing low pressure sensors (4), (7) (AMM TASK 30-11-02-400-801-A/400), (AMM TASK 30-11-02-400-801-A/400).

(b) Install the input flow tube (6) to the manifold (5).

(2) For Post-Mod. SB145-30-0022 do as follows:

(a) Install the wing pressure sensors (5) , (9) (AMM TASK 30-11-11-400-801-A/400), (AMM TASK 30-11-03-400-801-A/400) .

(b) Install the wing pressure damper (AMM TASK 30-11-14-400-801-A/400).

(c) Install the input flow tube (7) to the manifold (8) and to the piccolo duct.

(3) Install access panels 191EL, 191FR, as applicable (AMM MPP 06-41-01/100).

(4) Do the operational test of the wing anti-icing system (AMM TASK 30-00-00-700-801-A/500)