



EMB145 - EMB135

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MAINTENANCE MANUAL

**HORIZONTAL-STABILIZER ANTI-ICING LOW PRESSURE TRANSDUCERS - REMOVAL/  
INSTALLATION**

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

1. General

- A. This section gives the procedures to remove and install the low pressure transducers of the Horizontal-Stabilizer Thermal Anti-Icing System.
- B. These procedures are applicable to the LH and RH low pressure transducers.
- 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
30-12-12-000-801-A	LOW PRESSURE TRANSDUCER - RE- MOVAL	POST-MOD. S.B. 145-30-0022
30-12-12-400-801-A	LOW PRESSURE TRANSDUCER - IN- STALLATION	POST-MOD. S.B. 145-30-0022



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

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

2. LOW PRESSURE TRANSDUCER - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the low pressure transducers of the Horizontal-Stabilizer Thermal Anti-Icing System.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-

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

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Ladder	To get access to the low pressure transducer	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH and RH sides of the vertical 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 Circuit Breaker Panel, open the circuit breakers below and attach a DO-NOT-CLOSE tag to them.
- STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).



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- STAB A/I IND: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/STAB A/I IND).

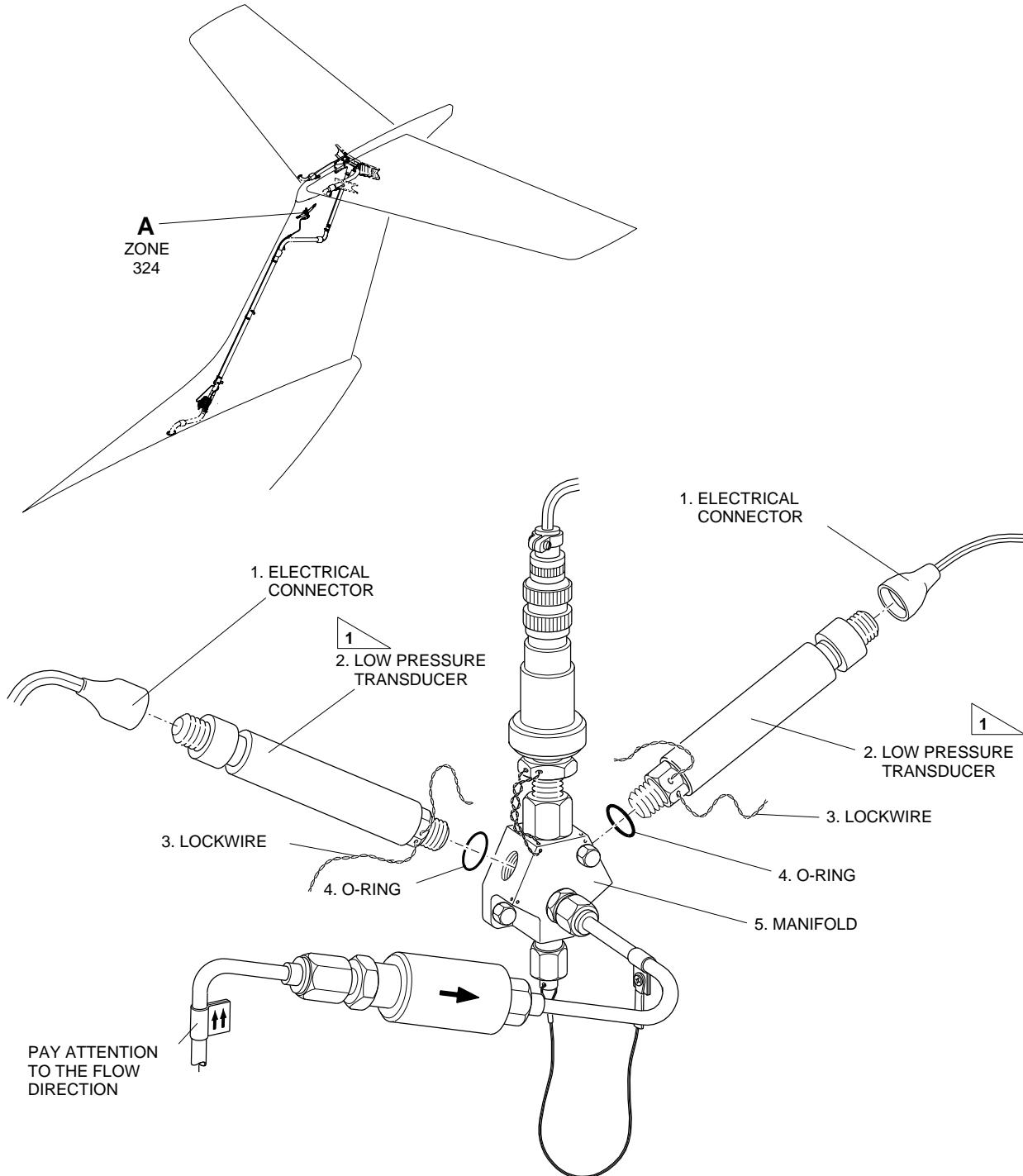
- (2) Remove access panel 324EL (AMM MPP 06-42-00/100).

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

SUBTASK 020-002-A

- (1) Cut the lockwire (3).
- (2) Disconnect the electrical connector (1).
- (3) Remove the low pressure transducer (2) from the manifold (5), as applicable.
- (4) Remove and discard the O-ring (4).

**EFFECTIVITY: POST-MOD. S.B. 145-30-0022**  
**Low Pressure Transducer - Removal/Installation**  
**Figure 401**



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

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

3. LOW PRESSURE TRANSDUCER - INSTALLATION

## A. General

- (1) This procedure gives the instructions to install the low pressure transducers of the Horizontal-Stabilizer Thermal Anti-Icing System.

## B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
IPC 30-12-00	HORIZONTAL-STABILIZER THERMAL ANTI-ICING SYSTEM

## 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

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C32	Lockwire	AR

## G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 30-12-00	2

## H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH and RH sides of the vertical stabilizer

## I. Installation (Figure 401)

## SUBTASK 420-002-A

- (1) Install the low pressure transducer (2) and the new O-ring (4) to the manifold (5), as applicable. Tighten to the specified torque and do not cause damage to the threads of the low pressure transducer (2) or of the manifold (5).



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- (2) Safety the low pressure transducer (2) and the new O-ring (4) to the manifold (5).
- (3) Safety the low pressure transducer (2) with the lockwire (3).
- (4) Connect the electrical connector (1).

J. Follow-on

*SUBTASK 842-002-A*

- (1) Install access panel 324EL (AMM MPP 06-42-00/100).
- (2) On the Circuit Breaker Panel, close the circuit breakers below and remove the DO-NOT-CLOSE tag from them.
  - STAB: (Location Tip: DC BUS 2/ICE AND RAIN PROTECTION/STAB).
  - STAB A/I IND: (Location Tip: DC BUS 1/ICE AND RAIN PROTECTION/STAB A/I IND).