



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

PITOT/STATIC 3 SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install pitot/static sensor 3.
- 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
34-13-02-000-801-A	PITOT/STATIC SENSOR 3 - REMOVAL	ALL
34-13-02-400-801-A	PITOT/STATIC SENSOR 3 - INSTALLATION	ALL



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TASK 34-13-02-000-801-A

EFFECTIVITY: ALL

2. PITOT/STATIC SENSOR 3 - REMOVAL

A. General

- (1) This procedure gives the instructions to remove pitot/static sensor 3.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-10-03-000-801-A/400	TUBING - REMOVAL

C. Zones and Accesses

Not Applicable

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	RH side of the cockpit

I. Preparation

SUBTASK 841-002-A

- (1) On the RH electrical-power control/distribution box, open the PITOT HTG 3 circuit breaker and attach a DO-NOT-OPEN tag to it.

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

SUBTASK 020-002-A

WARNING: DO NOT TOUCH THE PITOT/STATIC SENSOR IMMEDIATELY AFTER ITS HEATER WAS TURNED OFF TO PREVENT INJURY TO PERSONS.

- (1) Remove the sealant from around the pitot/static sensor (1) base.
- (2) Remove the four screws (2).
- (3) Hold the pitot/static sensor (1) strut and pull it carefully to get access to the hoses (3) and electrical connector (4).
- (4) Disconnect the electrical connector (4).



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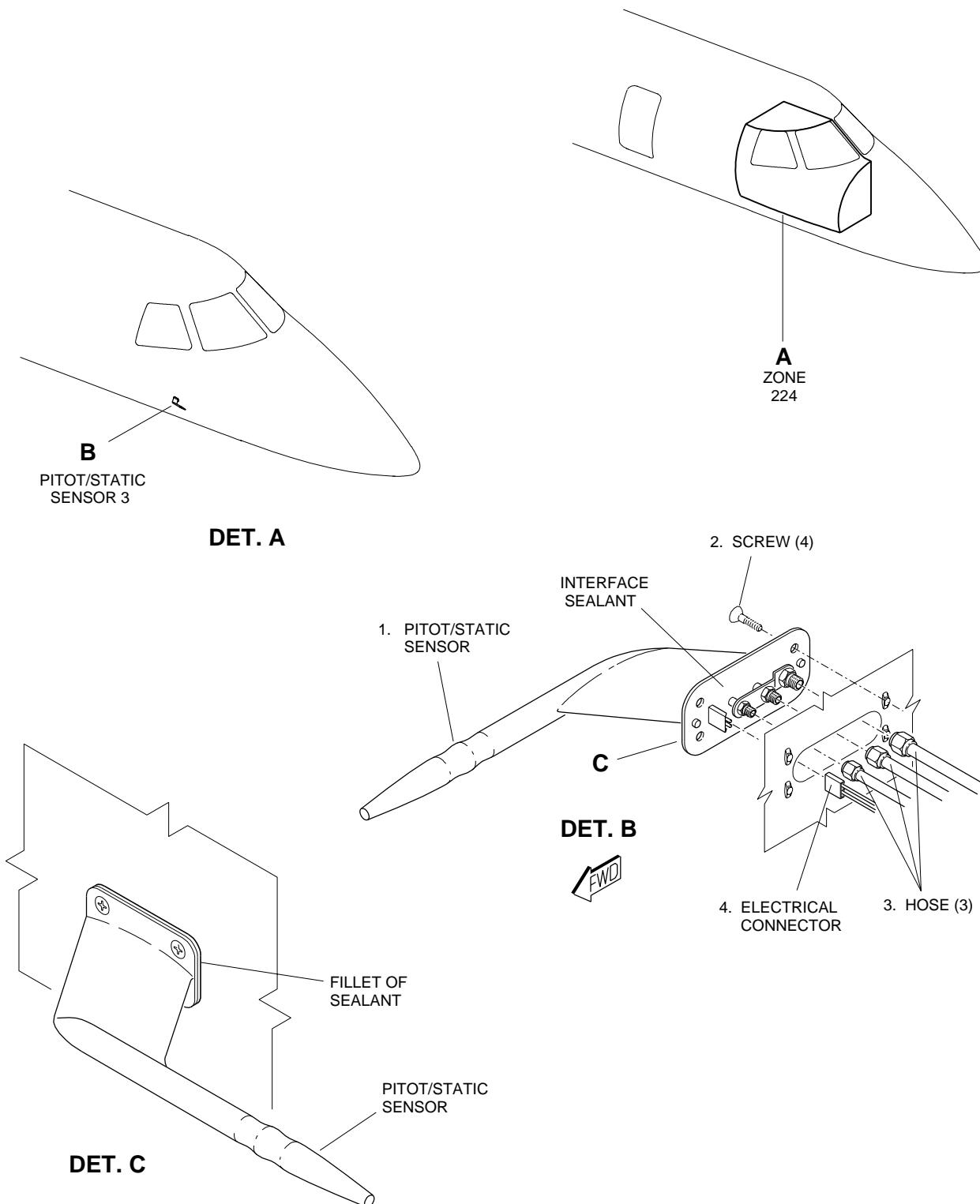
CAUTION: USE WRENCHES ON EACH SIDE OF THE FITTING TO PREVENT DAMAGE TO THE TUBING OR FITTING.

- (5) Disconnect the hoses (3) (3 positions) ([AMM TASK 20-10-03-000-801-A/400](#)).
- (6) Remove the pitot/static sensor (1).
- (7) Hold the hose (3) ends and electrical cable to make sure that they do not fall in the fuselage.
- (8) Install a cap/plug to the hose (3) ends.

EFFECTIVITY: ALL

Pitot/Static Sensor 3 - Removal/Installation

Figure 401



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TASK 34-13-02-400-801-A

EFFECTIVITY: ALL

3. PITOT/STATIC SENSOR 3 - INSTALLATION

A. General

- (1) This procedure gives the instructions to install pitot/static sensor 3.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-10-03-400-801-A/400	TUBING - INSTALLATION
AMM TASK 30-31-00-700-803-A/500	PITOT AND ANEMOMETRIC STATIC PORT HEATING - OPERATIONAL TEST
AMM TASK 34-13-00-790-804-A/500	STANDBY SYSTEM - LEAKAGE TEST

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-S-81733, Type IV-12	Interface sealant	AR
MIL-S-8802, Type II, Class B2	Sealant	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	RH side of the cockpit

I. Installation (Figure 401)

SUBTASK 420-002-A

CAUTION: BEFORE THE INSTALLATION, MAKE SURE THAT THERE IS NO UNWANTED MATERIAL IN THE PITOT/STATIC SENSOR TO PREVENT THE CONTAMINATION OF THE SYSTEM.

- (1) Remove all the old sealant from the fuselage skin surface where the pitot/static sensor is installed. For this, use a plastic spatula.
- (2) Remove the cap/plug from the hose (3) ends.

- CAUTION:**
- USE WRENCHES ON EACH SIDE OF THE FITTING TO PREVENT DAMAGE TO THE TUBING OR FITTING.
 - MAKE SURE THAT THE FLEXIBLE TUBE IS NOT TWISTED BEFORE AND AFTER TORQUE APPLICATION.

- (3) Connect the hoses (3) to the pitot/static sensor (1) ([AMM TASK 20-10-03-400-801-A/400](#)).
- (4) Connect the electrical connector (4) to the pitot/static sensor (1).
- (5) Apply interface sealant to the pitot/static sensor (1) base.
- (6) Hold the pitot/static sensor (1) and carefully insert the hoses and electrical cable in the fuselage.
- (7) Put the pitot/static sensor (1) in its installation position on the skin.
- (8) Make sure that the guide pins of the pitot/static sensor (1) are correctly installed in the holes at the skin.
- (9) Install the four screws (2).
- (10) Remove the unwanted interface sealant from around the pitot/static sensor base.
- (11) Apply a fillet of sealant along the contour of the pitot/static sensor base.

J. Follow-on

SUBTASK 842-002-A

- (1) On the RH electrical-power control/distribution box, close the PITOT HTG 3 circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the Standby System Leakage test ([AMM TASK 34-13-00-790-804-A/500](#)).
- (3) Do an operational check on the pitot and anemometric static port heating system ([AMM TASK 30-31-00-700-803-A/500](#)).