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**TOTAL-AIR-TEMPERATURE (TAT) PROBE - REMOVAL/INSTALLATION***EFFECTIVITY: ALL*1. General

- A. This section gives the procedures to remove and install the total-air-temperature (TAT) sensors.
- B. These procedures are applicable to TAT 1 and 2 sensors.
- C. The TAT sensors are installed on the skin of the forward fuselage as follows:
  - Sensor 1 on the LH side of the cockpit.
  - Sensor 2 on the top of the aircraft nose.
- D. 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
34-15-03-000-801-A	TOTAL-AIR-TEMPERATURE (TAT) SENSOR - REMOVAL	ALL
34-15-03-400-801-A	TOTAL-AIR-TEMPERATURE (TAT) SENSOR - INSTALLATION	ALL

TASK 34-15-03-000-801-A

EFFECTIVITY: ALL

## 2. TOTAL-AIR-TEMPERATURE (TAT) SENSOR - REMOVAL

### A. General

(1) This procedure gives the instructions to remove the total-air-temperature (TAT) sensor.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

### 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	Forward Fuselage Skin, on the LH side of the cockpit or on the top of the aircraft nose

### I. Preparation

#### SUBTASK 841-002-A

- (1) On the LH Power Control/Distribution Box, open the TAT1 SENSOR HTG circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On the RH Power Control/Distribution Box, open the TAT2 SENSOR HTG circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) Open access door 113CZ (AMM MPP 06-41-01/100).

### J. Removal (Figure 401)

#### SUBTASK 020-002-A

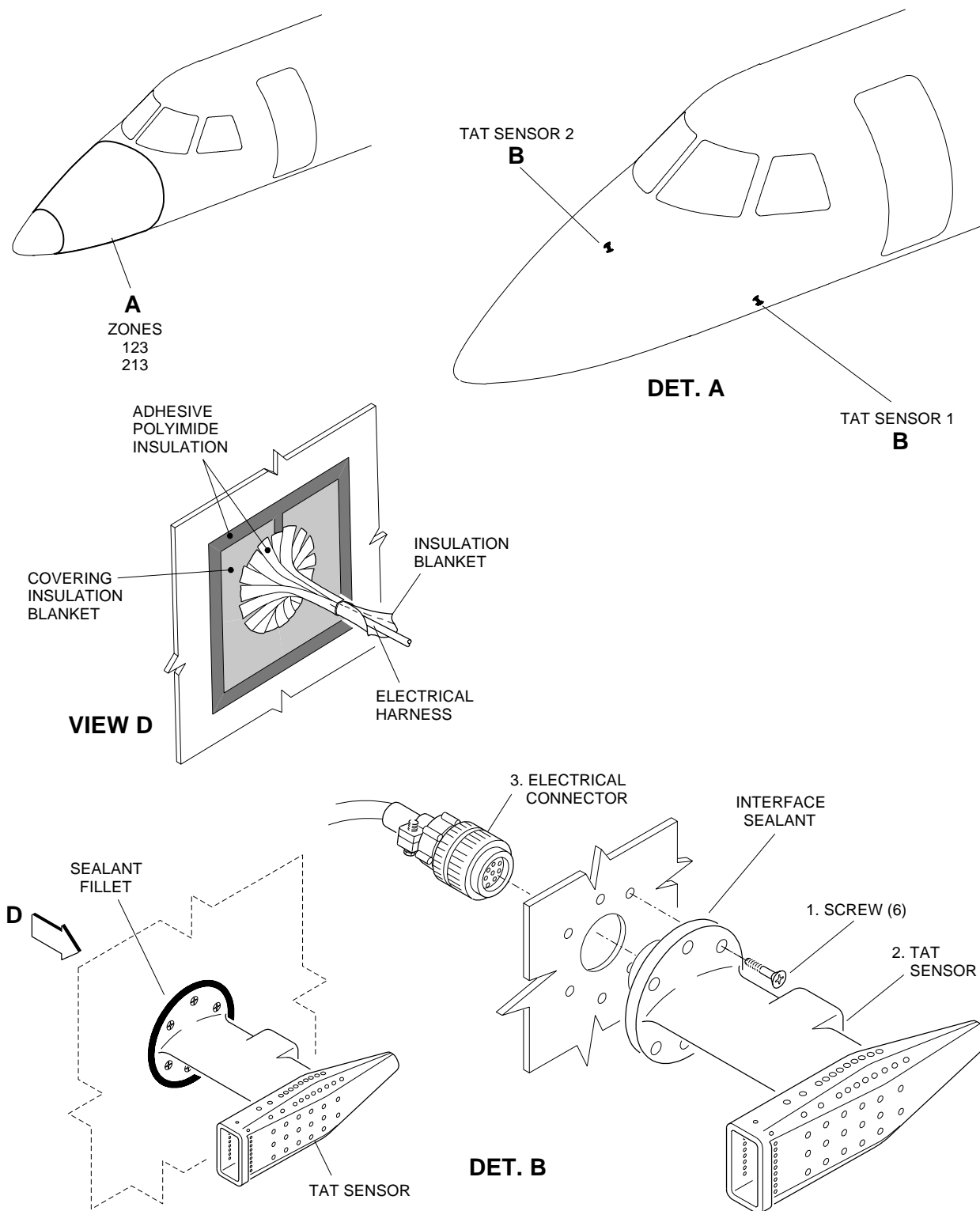
- (1) Remove the adhesive polyimide tape from around the electrical harness end of the TAT sensor (2) to get access to the electrical connector (3).

- (2) Remove the covering blanket from around the electrical harness end of the TAT sensor (2).
- (3) Disconnect the electrical connector (3).
- (4) Remove the sealant from around the TAT sensor (2) base.
- (5) Remove the six screws (1).
- (6) Hold the TAT sensor (2) strut and pull it carefully.
- (7) Remove the TAT sensor (2).

EFFECTIVITY: ALL

Total-Air-Temperature (TAT) Sensor - Installation

Figure 401



EM145AMM340013B.DGN

TASK 34-15-03-400-801-A

EFFECTIVITY: ALL

### 3. TOTAL-AIR-TEMPERATURE (TAT) SENSOR - INSTALLATION

#### A. General

(1) This procedure gives the instructions to install the total-air-temperature (TAT) sensor.

#### B. References

REFERENCE	DESIGNATION
<a href="#">AMM MPP 20-30-03/200</a>	- MAINTENANCE PRACTICES
<a href="#">AMM TASK 30-33-00-700-801-A/500</a>	TAT SENSOR HEATING - OPERATIONAL CHECK
<a href="#">AMM TASK 34-15-00-700-802-A/500</a>	ADC SYSTEM - OPERATIONAL 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
KB46/50	Adhesive polyimide tape	AR

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Forward Fuselage Skin, on the LH side of the cockpit or on the top of the aircraft nose

#### I. Installation (Figure 401)

##### SUBTASK 420-002-A

- (1) Remove all the old sealant from the fuselage skin surface where the TAT sensor is installed. For this, use a plastic spatula.
- (2) Apply interface sealant to the TAT sensor (2) base (for alternative sealant refer to [AMM MPP 20-30-03/200](#)).

- (3) Put the TAT sensor (2) in its installation position on the skin.
- (4) Install the six screws (1).
- (5) Remove the unwanted interface sealant from around the TAT sensor base.
- (6) Apply a fillet of sealant along the contour of the TAT sensor base.
- (7) Connect the electrical connector (3) to the TAT sensor (2).
- (8) Install the covering insulation blanket from around the electrical harness end of the TAT sensor (2).
- (9) Stick adhesive polyimide tape around the covering insulation blanket and around the electrical harness end of the TAT sensor to isolate this area.

J. Follow-on

*SUBTASK 842-002-A*

- (1) On the LH Power Control/Distribution Box, close the TAT1 SENSOR HTG circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) On the RH Power Control/Distribution Box, close the TAT2 SENSOR HTG circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (3) Do an operational check of the total-air-temperature (TAT) heating system ( [AMM TASK 30-33-00-700-801-A/500](#)).
- (4) Do an operational test of the ADC system ([AMM TASK 34-15-00-700-802-A/500](#)).