



EMB145 – EMB135

AIRCRAFT  
MAINTENANCE MANUAL

TAT CURRENT SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the total-air-temperature (TAT) CURRENT SENSOR.
- B. These procedures are applicable to the TAT-1 CURRENT SENSOR and TAT-2 CURRENT SENSOR.
- C. The TAT-1 CURRENT SENSOR is installed on the LH relay support and the TAT-2 CURRENT SENSOR is installed on the RH relay support.
- 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
30-33-01-000-801-A	TAT CURRENT SENSOR - REMOVAL	ALL
30-33-01-400-801-A	TAT CURRENT SENSOR - INSTALLATION	ALL



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TASK 30-33-01-000-801-A

EFFECTIVITY: ALL

2. TAT CURRENT SENSOR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the TAT current sensor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM SDS 23-51-00/1	
AMM SDS 24-60-00/1	

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223ELW	LH sidewall lining
224	224ERW	RH sidewall lining

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	LH or RH sidewall lining

I. Preparation

SUBTASK 841-002-A

- (1) Open the HEATING/TAT 1 circuit breaker and attach a DO-NOT-CLOSE tag to it (LH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#))).
- (2) Open the HEATING/TAT 2 circuit breaker and attach a DO-NOT-CLOSE tag to it (RH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#))).
- (3) Remove access panel 223ELW or 224ERW, as applicable ([AMM MPP 06-41-03/100](#)).
- (4) Carefully remove access panel 223ELW or 224ERW, as applicable ([AMM MPP 06-41-03/100](#)).



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- (5) To remove the Pilot/Copilot Audio Jack panel ([AMM SDS 23-51-00/1](#)), do as follows:
  - (a) Unlock the two Dzus fasteners that attach the pilot/copilot Audio Jack panel, as applicable.
  - (b) Carefully pull the Pilot/Copilot Audio Jack panel and pass it through the hole in the access panel.

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

SUBTASK 020-002-A

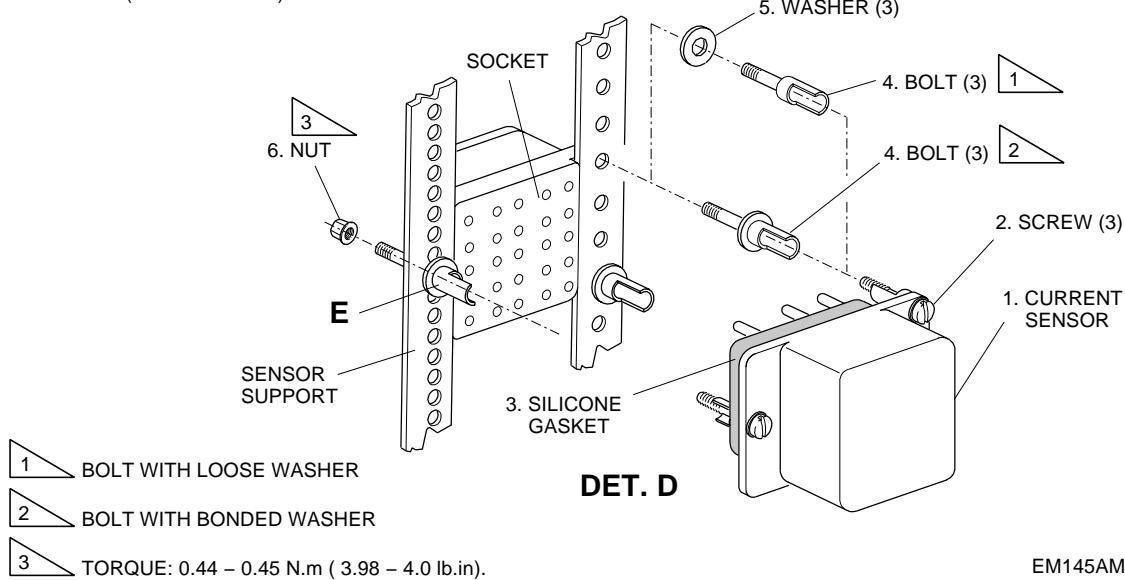
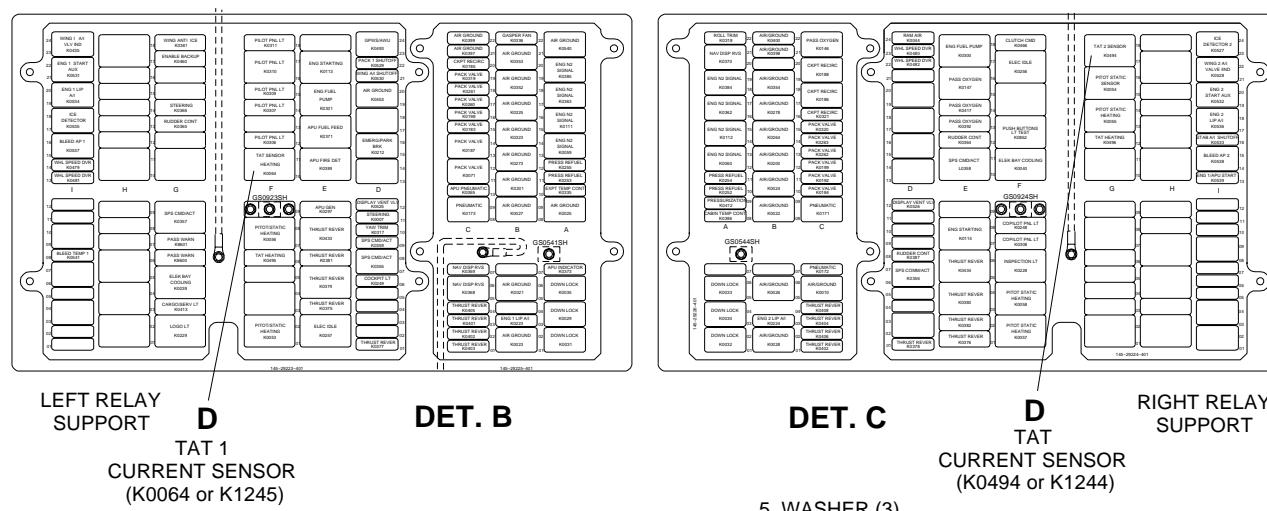
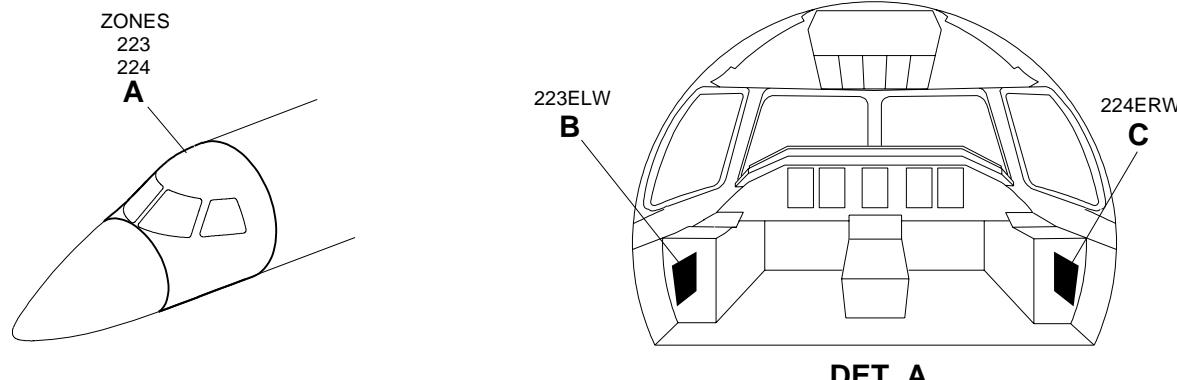
**CAUTION:** WHEN YOU REMOVE THESE COMPONENTS, BE CAREFUL NOT TO LET THEM FALL INTO THE AIRFRAME INTERIOR AND CAUSE DAMAGE.

- (1) For current sensor removal, do as follows:
  - (a) Loosen the three screws (2) ([Figure 401](#)).
  - (b) Remove the current sensor (1) ([Figure 401](#)).
- (2) For the socket removal, do as follows:
  - (a) Remove the LH relay support or the RH relay support, as applicable ([AMM SDS 24-60-00/1](#)).
  - (b) Remove the three nuts (6) ([Figure 401](#)).
  - (c) Remove the socket from the support ([Figure 401](#)).

**EFFECTIVITY: ALL**

TAT Current Sensor - Removal/Installation

Figure 401



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TASK 30-33-01-400-801-A

EFFECTIVITY: ALL

3. TAT CURRENT SENSOR - INSTALLATION

## A. General

(1) This procedure gives the instructions to install the TAT current sensor.

## B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-03/100	- COMPONENT LOCATION
AMM SDS 23-51-00/1	
AMM SDS 24-60-00/1	
AMM TASK 23-51-00-700-801-A/500	AUDIO SYSTEM EMERGENCY MODE - OPERATIONAL CHECK
AMM TASK 23-51-00-700-802-A/500	AUDIO SYSTEM - OPERATIONAL TEST
AMM TASK 30-31-00-700-801-A/500	PITOT AND ANEMOMETRIC STATIC PORT HEATING - OPERATIONAL CHECK
AMM TASK 30-33-00-700-801-A/500	TAT SENSOR HEATING - OPERATIONAL CHECK

## C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
223	223ELW	LH sidewall lining
224	224ERW	RH sidewall lining

## 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	LH or RH sidewall lining

## I. Installation (Figure 401)

SUBTASK 420-002-A

CAUTION: MAKE SURE THAT YOU INSTALL WASHERS ONLY TO THE BOLTS THAT DO NOT HAVE WASHER INSTALLED TO THEM.

- (1) For the socket installation, do as follows:
  - (a) Install the socket in the sensor support (Figure 401).
  - (b) Install the bolt as applicable:
    - 1 (Bolt with loose washer) Install the washers (5), bolts (4), and nuts (6) (Figure 401).
    - 2 (Bolt with bonded washer) Install the bolts (4) and nuts (6) (Figure 401).
    - 3 Install the LH relay support or the RH relay support back, as applicable ([AMM SDS 24-60-00/1](#)).
- (2) For the current sensor installation, do as follows:
  - (a) Install the current sensor (1) to its socket (Figure 401).
  - (b) Tighten the three screws (2) to attach the current sensor (1) (Figure 401).

NOTE: Make sure that there is no gap between the current sensor and its silicone gasket (3).

**J. Follow-on**

**SUBTASK 842-002-A**

- (1) Carefully pass the Pilot/Copilot Audio Jack panel through the hole in the access panel, as applicable ([AMM SDS 23-51-00/1](#)).
- (2) Install the Pilot/Copilot Audio Jack panel in position ([AMM SDS 23-51-00/1](#)).
- (3) Attach the two Dzus fasteners to install the Pilot/Copilot Audio Jack panel ([AMM SDS 23-51-00/1](#)).
- (4) Close the 223ELW or 224ERW access panel, as applicable ([AMM MPP 06-41-03/100](#)).
- (5) Close the HEATING/TAT 1 circuit breaker and remove the DO-NOT-CLOSE tag from it (on the LH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#))).
- (6) Close the HEATING/TAT 2 circuit breaker and remove the DO-NOT-CLOSE tag from it (on the RH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#))).
- (7) Do the Operational Check of the Pitot & Anemometric Static Port Heating ([AMM TASK 30-31-00-700-801-A/500](#)).
- (8) Do the operational check of the total-air-temperature(TAT) sensor heating ([AMM TASK 30-33-00-700-801-A/500](#)).
- (9) Do the Operational Check of AIRBORNE AUDIO SYSTEM ([AMM TASK 23-51-00-700-801-A/500](#) and [AMM TASK 23-51-00-700-802-A/500](#)).