



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

AMBIENT TEMPERATURE SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. There are two ambient temperature sensors installed on the aircraft: one in the cockpit and the other in the passenger cabin. The cockpit temperature sensor is installed on the cockpit/passenger cabin partition. The passenger-cabin temperature sensor is installed below the passenger cabin floor.
- 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
21-60-02-000-801-A	AMBIENT TEMPERATURE SENSORS - ALL REMOVAL	
21-60-02-400-801-A	AMBIENT TEMPERATURE SENSORS - IN- ALL STALLATION	



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TASK 21-60-02-000-801-A

EFFECTIVITY: ALL

2. AMBIENT TEMPERATURE SENSORS - REMOVAL

A. General

- (1) This task gives the procedures to remove the cockpit temperature sensor and the passenger cabin temperature sensor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 53-01-02-000-802-A/400	-
S.B.145-21-0011	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
241	241DF (as applicable)	Passenger cabin floor
251	251BF (as applicable)	Passenger cabin floor

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	Cockpit and passenger cabin

I. Preparation

SUBTASK 841-002-A

- (1) On the overhead circuit breaker panel, open PACK 1 and PACK 2 circuit breakers and attach DO-NOT-CLOSE tags to them.
- (2) Remove access panel 251BF or 241DF, as applicable (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-000-802-A/400), to get access to the passenger cabin temperature sensor.



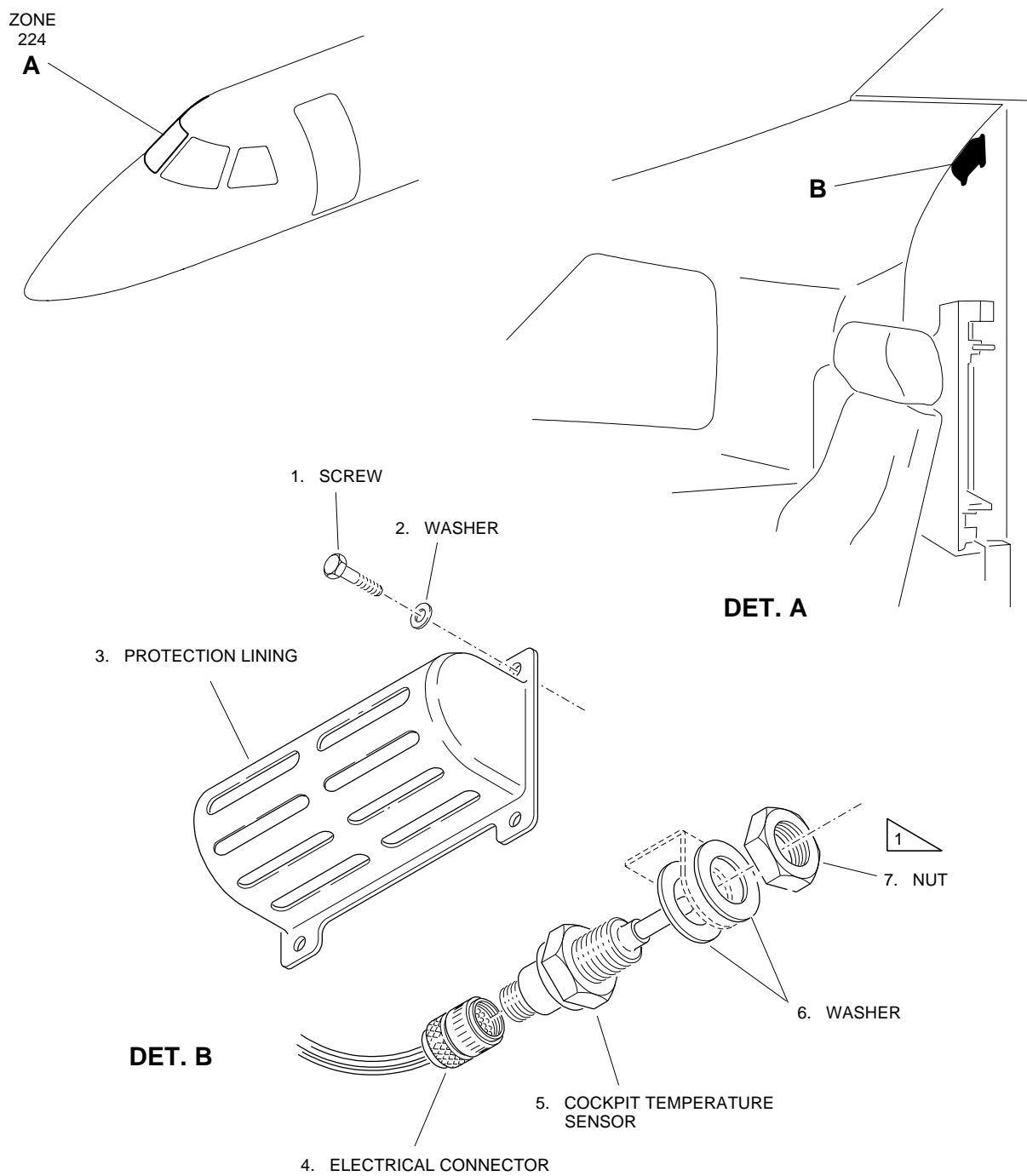
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J. Removal of the Ambient Temperature Sensors ([Figure 401](#)) ([Figure 402](#))

SUBTASK 020-002-A

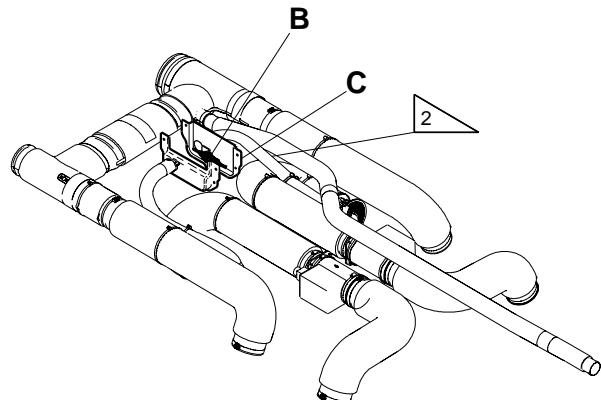
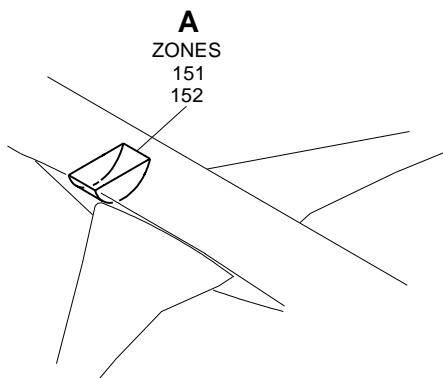
- (1) Remove the cockpit temperature sensor ([Figure 401](#)) as follows:
 - (a) Remove four screws (1) and washers (2) from sensor protective lining (3).
 - (b) Disconnect electrical connector (4).
 - (c) Remove nut (7).
 - (d) Remove washers (6) and cockpit temperature sensor (5).
- (2) Remove the passenger cabin temperature sensor ([Figure 402](#)) as follows:
 - (a) Remove screws (7) and plates (6) (2 positions) to release the sensor box assembly from the fuselage structure.
 - (b) (POST-MOD. [S.B.145-21-0011](#)) For Velcro-attached insulation, loosen the Velcro fasteners from the insulating blanket and remove insulating blanket (11). For adhesive tape-attached insulation, remove the tape from the insulating blanket and remove insulating blanket (11).
 - (c) Remove screws (5) and washers (4) (3 positions) to release split box II (8) from split box I (1).
 - (d) Disconnect electrical connector (3).
 - (e) Remove nut (9) and two washers (10).
 - (f) Remove passenger temperature sensor (2).

EFFECTIVITY: ALL
Cockpit Temperature Sensor - Removal/Installation
Figure 401

TORQUE 6.8 N.m (60 Lb. in)
145AMM210885.MCE

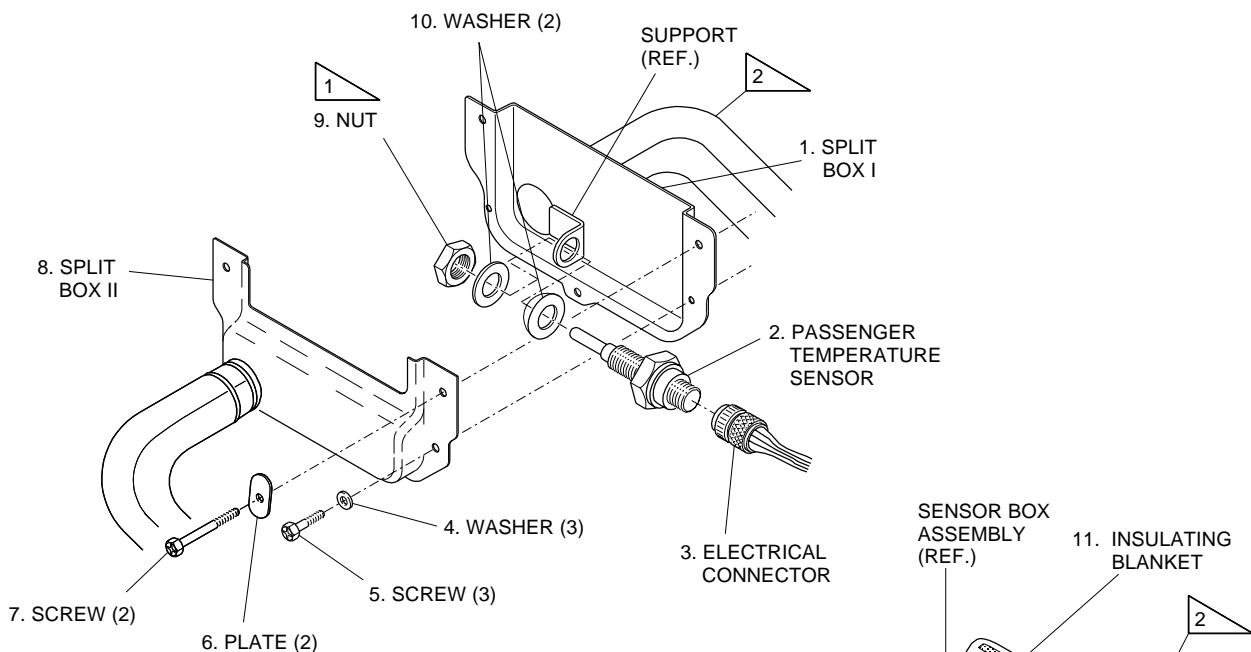
EFFECTIVITY: ALL

Passenger Cabin Temperature Sensor - Removal/Installation

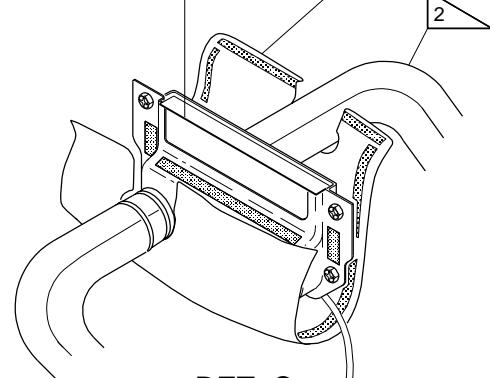
Figure 402



DET. A



DET. B



DET. C

EM145AMM210884A.DGN



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TASK 21-60-02-400-801-A

EFFECTIVITY: ALL

3. AMBIENT TEMPERATURE SENSORS - INSTALLATION

A. General

- (1) This task gives the procedures to install the cockpit temperature sensor and the passenger cabin temperature sensor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-02/100	-
AMM TASK 53-01-02-400-802-A/400	-
S.B.145-21-0011	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
241	241DF (as applicable)	Passenger cabin floor
251	251BF (as applicable)	Passenger cabin floor

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
KB42/75	Adhesive Tape	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Cockpit and passenger cabin

I. Installation of the Ambient Temperature Sensors (Figure 401) (Figure 402)

SUBTASK 420-002-A

- (1) Install the cockpit temperature sensor (Figure 401) as follows:

- (a) Put sensor (5) together with washers (6) in the installation position.
- (b) Install nut (7) and attach sensor (5).

- (c) Tighten nut (7).
- (d) Connect electrical connector (4).
- (e) Install protective lining (3), washers (2) and screws (1).
- (2) Install the passenger cabin temperature sensor (Figure 402) as follows:
 - (a) Put sensor (2) together with two washers (10) on the support in split box I (1).
 - (b) Install nut (9) to attach sensor (2).
 - (c) Tighten nut (9).
 - (d) Connect electrical connector (3).
 - (e) Put split box II (8) on split box I (1) and attach them with the screws (5) and washers (4) (3 positions).
 - (f) (POST-MOD. [S.B.145-21-0011](#)) For Velcro-attachable insulation, attach the Velcro fasteners of the insulating blanket (11) to cover the sensor box assembly. For adhesive tape-attachable insulation, put the insulating blanket (11) in position and apply several pieces of the KB42/75 tape to hold the ends of the blanket together.

NOTE: Before you apply the adhesive tape, remove possible remaining pieces of Velcro fastener from the sensor box.
 - (g) Put the sensor box assembly in its installation position at the fuselage structure.
 - (h) Attach the sensor box assembly to the fuselage structure with the screws (7) and plates (6) (2 positions).

J. Follow-on

SUBTASK 842-002-A

- (1) Install access panel 251BF or 241DF, as applicable (AMM MPP 06-41-02/100 and AMM TASK 53-01-02-400-802-A/400).
- (2) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tags from the PACK 1 and PACK 2 circuit breakers and close them.

