



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

AMBIENT TEMPERATURE SENSOR - CLEANING/PAINTING

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to clean the ambient temperature sensor.
- B. 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.
- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
21-60-02-100-801-A ♦	AMBIENT TEMPERATURE SENSORS - CLEANING	ALL



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TASK 21-60-02-100-801-A

EFFECTIVITY: ALL

2. AMBIENT TEMPERATURE SENSORS - CLEANING

A. General

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

B. References

REFERENCE	DESIGNATION
AMM TASK 21-60-02-000-801-A/400	AMBIENT TEMPERATURE SENSORS - REMOVAL
AMM TASK 21-60-02-400-801-A/400	AMBIENT TEMPERATURE SENSORS - INSTALLATION

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Dry Compressed Air	To clean the sensor	
Commercially available	Wiper cloth, lint-free	To clean the sensor	
Commercially available	Soft Bristle Brush	To clean the sensor	
Commercially available	Vacuum Cleaner	To clean the sensor box	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
TT-I-735	Isopropyl Alcohol	AR

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) Do the procedure to make the aircraft safe for maintenance.
- (2) Remove the cockpit or passenger cabin temperature sensor. Refer to [AMM TASK 21-60-02-000-801-A/400](#).

J. Ambient Temperature Sensors - Cleaning ([Figure 701](#)) ([Figure 702](#))

SUBTASK 140-002-A

WARNING: **WARNING: DO NOT BREATHE ISOPROPYL ALCOHOL VAPORS. ALWAYS PUT ON GOGGLES, GLOVES AND A RESPIRATOR WHEN YOU USE ISOPROPYL ALCOHOL. DO THE WORK IN AN AREA THAT HAS A GOOD AIRFLOW, FAR FROM SPARKS, FLAMES, AND HOT SURFACES. ISOPROPYL ALCOHOL IS TOXIC AND FLAMMABLE AND CAN CAUSE EYE, SKIN OR RESPIRATORY PROBLEMS. IF IT GETS ON YOUR SKIN, FLUSH IT WITH SOAP AND WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL AID IMMEDIATELY.**

- (1) Clean the passenger cabin temperature sensor box as follows:

NOTE: For this you have to open and release the sensor box assembly from fuselage structure. Refer to [AMM TASK 21-60-02-000-801-A/400](#).

- (a) Use a vacuum cleaner and/or clean and dry cloth to remove the particles from the floor beam.
- (b) Use the vacuum cleaner to remove the dust, lint, and other unwanted material from the sensor box.
- (c) Blow dry compressed air to the sensor box and to the hose that comes to the box.
- (d) Clean the sensor box with a lint-free wiper cloth moist with alcohol TT-I-735. Do this operation as many times as necessary to remove all signs of dirt.

NOTE: You can use water with weak soap or weak detergent as an alternative to alcohol TT-I-735.

- (e) Remove all the remaining alcohol, soap, or detergent with a lint-free wiper cloth moist with clean water.
- (f) Dry the sensor box with a clean lint-free wiper cloth.

WARNING: **WARNING: DO NOT BREATHE ISOPROPYL ALCOHOL VAPORS. ALWAYS PUT ON GOGGLES, GLOVES AND A RESPIRATOR WHEN YOU USE ISOPROPYL ALCOHOL. DO THE WORK IN AN AREA THAT HAS A GOOD AIRFLOW, FAR FROM SPARKS, FLAMES, AND HOT SURFACES. ISOPROPYL ALCOHOL IS TOXIC AND FLAMMABLE AND CAN CAUSE EYE, SKIN OR RESPIRATORY PROBLEMS. IF IT GETS ON YOUR SKIN, FLUSH IT WITH SOAP AND WATER. IF IT GETS IN YOUR EYES, FLUSH THEM WITH WATER AND GET MEDICAL AID IMMEDIATELY.**

- (2) Clean the external surfaces of the sensor as follows:



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- (a) Remove unwanted materials from the external surfaces with a lint-free wiper cloth moist with alcohol TT-I-735.
- (b) Clean the contacts and surfaces of the connector with a soft bristle brush and alcohol TT-I-735.

WARNING: WHEN YOU USE COMPRESSED AIR TO CLEAN OR DRY PARTS OR COMPONENTS, ADJUST THE PRESSURE TO 20 PSIG MAXIMUM OR LESS. USE GOGGLES OR A FACE SHIELD TO PROTECT YOUR EYES.

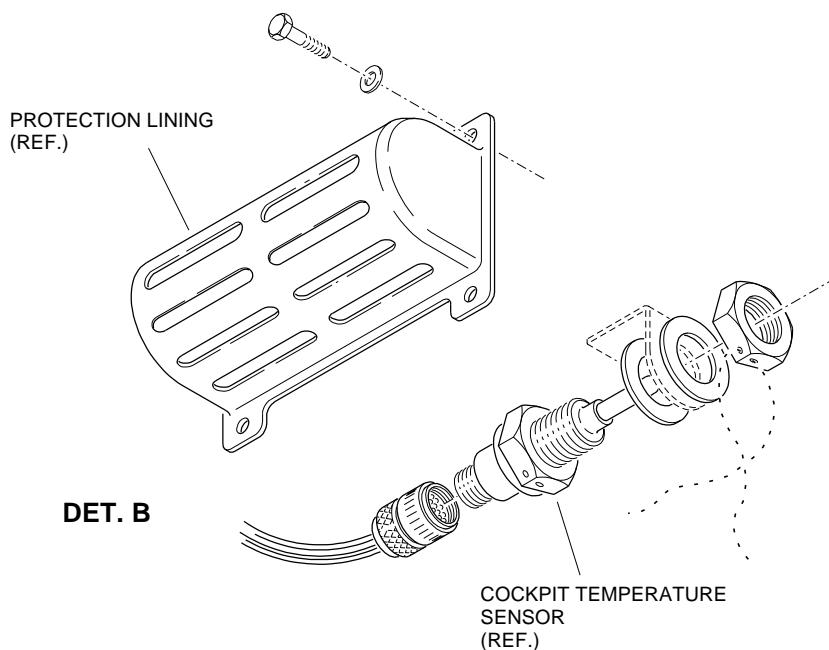
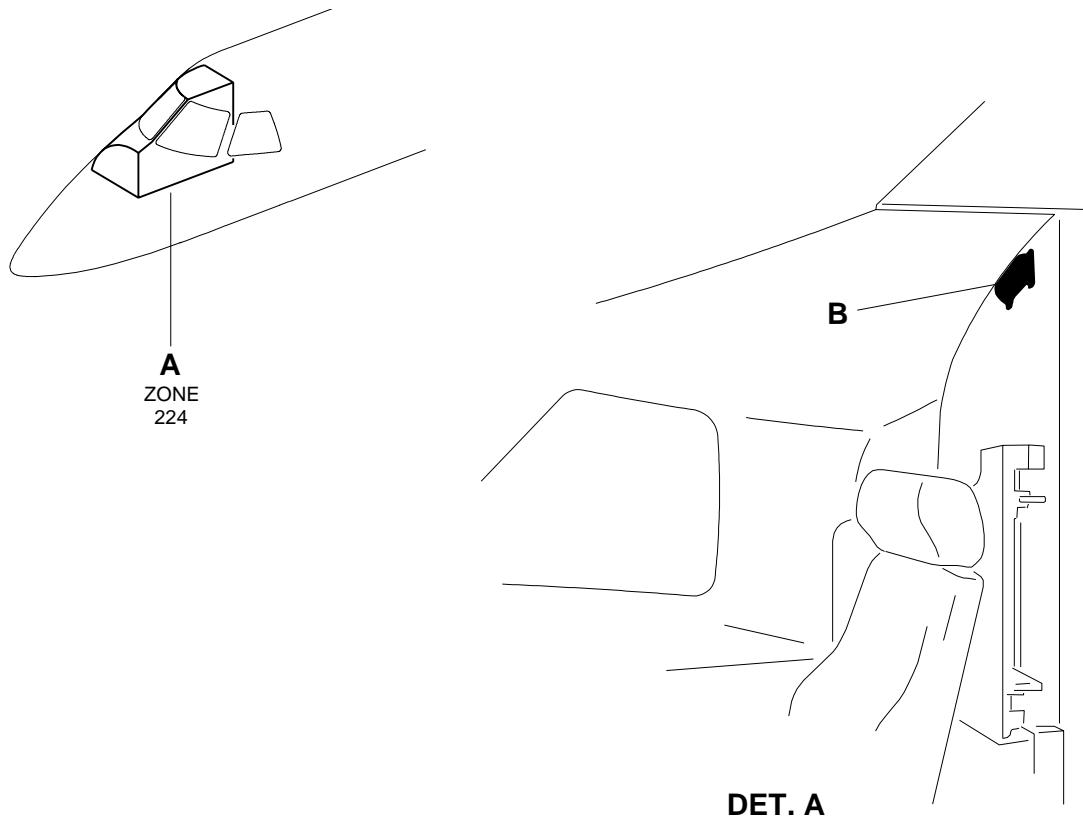
- (c) Blow the surfaces with low pressure dry compressed air (20 psig maximum).

K. Follow-on

SUBTASK 842-002-A

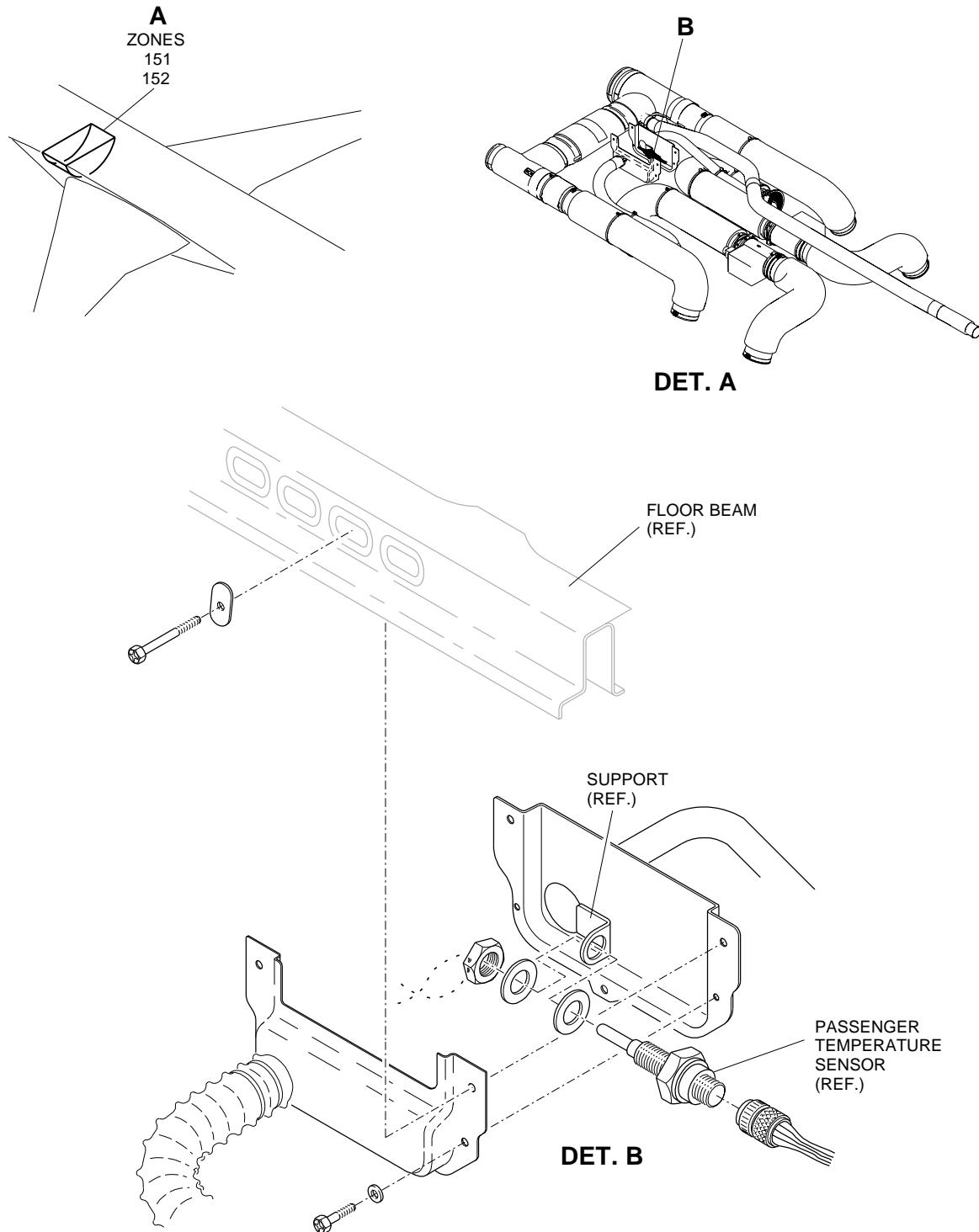
- (1) Install cockpit and ambient temperature sensor. Refer to [AMM TASK 21-60-02-400-801-A/400](#).

EFFECTIVITY: ALL

 Cockpit Temperature Sensor - Cleaning
 Figure 701


EM145AMM211007A.DGN

EFFECTIVITY: ALL

 Passenger Cabin Temperature Sensor - Cleaning
 Figure 702


EM145AMM211008B.DGN