



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

DUCT TEMPERATURE SENSOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. The duct temperature sensor is installed in each cooling-pack outlet duct.
- 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).

<i>TASK NUMBER</i>	<i>DESCRIPTION</i>	<i>EFFECTIVITY</i>
21-60-03-000-801-A	DUCT TEMPERATURE SENSOR - RE- MOVAL	ALL
21-60-03-400-801-A	DUCT TEMPERATURE SENSOR - IN- STALLATION	ALL



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TASK 21-60-03-000-801-A

EFFECTIVITY: ALL

2. DUCT TEMPERATURE SENSOR - REMOVAL

A. General

- (1) This task gives the procedures to remove the duct temperature sensor.

B. References

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

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To loosen the switch	

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 cooling pack

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the following circuit breakers, and attach a DO-NOT-CLOSE tag to them:
 - PACK 1 (Duct temperature sensor of the LH cooling pack).
 - PACK 2 (Duct temperature sensor of the RH cooling pack).
- (2) Remove the access panel (AMM MPP 06-41-01/100), as applicable:
 - 191EL (Duct temperature sensor of the LH cooling pack).



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- 191FR (Duct temperature sensor of the RH cooling pack).

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

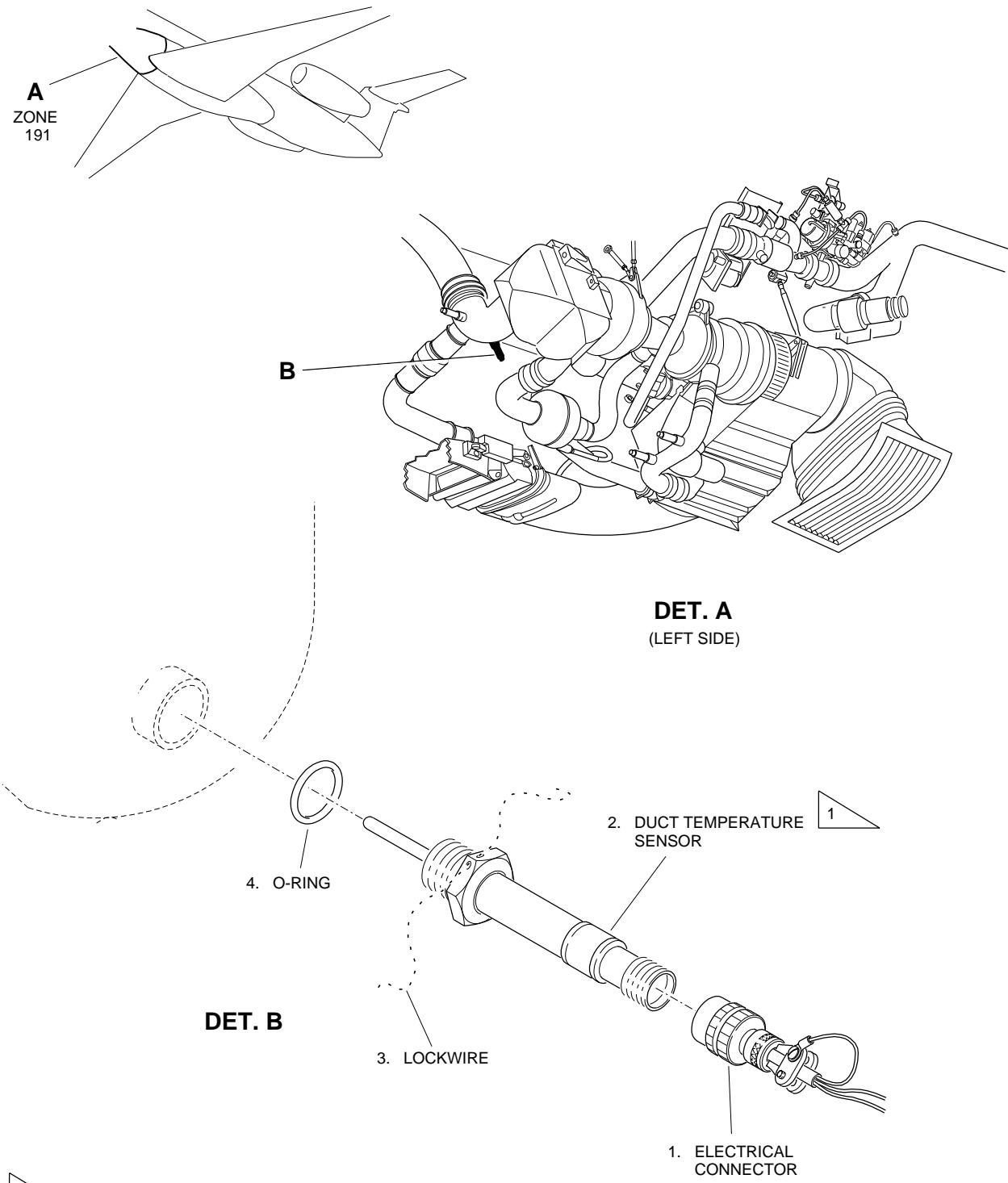
SUBTASK 020-002-A

- (1) Disconnect the electrical connector (1).
- (2) Cut the lockwire (3).
- (3) Remove the sensor (2).
- (4) Discard the O-ring (4).
- (5) Use a cap on the opening in the duct, to prevent the entrance of unwanted material.

EFFECTIVITY: ALL

Duct Temperature Sensor - Removal/Installation

Figure 401



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TASK 21-60-03-400-801-A

EFFECTIVITY: ALL

3. DUCT TEMPERATURE SENSOR - INSTALLATION

A. General

(1) This task gives the procedures to install the duct temperature sensor.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
IPC 21-51-00	COOLING PACK SYSTEM

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
191	191EL	Left side of the wing-to-fuselage fairing
191	191FR	Right side of the wing-to-fuselage fairing

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the switch	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MS20995C20	Lockwire	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	IPC 21-51-00	1/LRU

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH or RH cooling pack



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I. Installation (Figure 401)

SUBTASK 020-003-A

- (1) Remove the cap from the duct opening.
- (2) Make sure that the duct is clean.
- (3) Put the sensor (2) together with the new O-ring (4) in the installation position.
- (4) Install the sensor (2).
- (5) Tighten and safety the sensor nut.
- (6) Connect the electrical connector (1).

J. Follow-on

SUBTASK 842-002-A

- (1) Install the access panel (AMM MPP 06-41-01/100), as applicable:
 - 191EL (Duct temperature sensor of the LH cooling pack).
 - 191FR (Duct temperature sensor of the RH cooling pack).
- (2) On the circuit breaker panel, close the following circuit breakers, and remove the DO-NOT-CLOSE tag from them:
 - PACK 1 (Duct temperature sensor of the LH cooling pack).
 - PACK 2 (Duct temperature sensor of the RH cooling pack).