

TEMPERATURE SENSORS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the temperature sensors.
- B. These procedures are applicable to the four temperature sensors (one for each wheel).
- 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).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
32-47-01-000-801-A	TEMPERATURE SENSORS - REMOVAL	ALL
32-47-01-400-801-A	TEMPERATURE SENSORS - INSTALLATION	ALL

TASK 32-47-01-000-801-A

EFFECTIVITY: ALL

2. TEMPERATURE SENSORS - REMOVAL

A. General

(1) This task gives the procedures to remove the temperature sensors.

(2) There are four temperature sensors (one for each wheel).

B. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
731	731	LH MLG
721	721	RH MLG

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH and RH MLG

H. Preparation

SUBTASK 841-002-A

(1) Make sure that the landing-gear safety pins are installed on the main landing gears.

I. Removal [\(Figure 401\)](#)

SUBTASK 020-002-A

(1) Disconnect the electrical connector (1) from the temperature sensor (2).

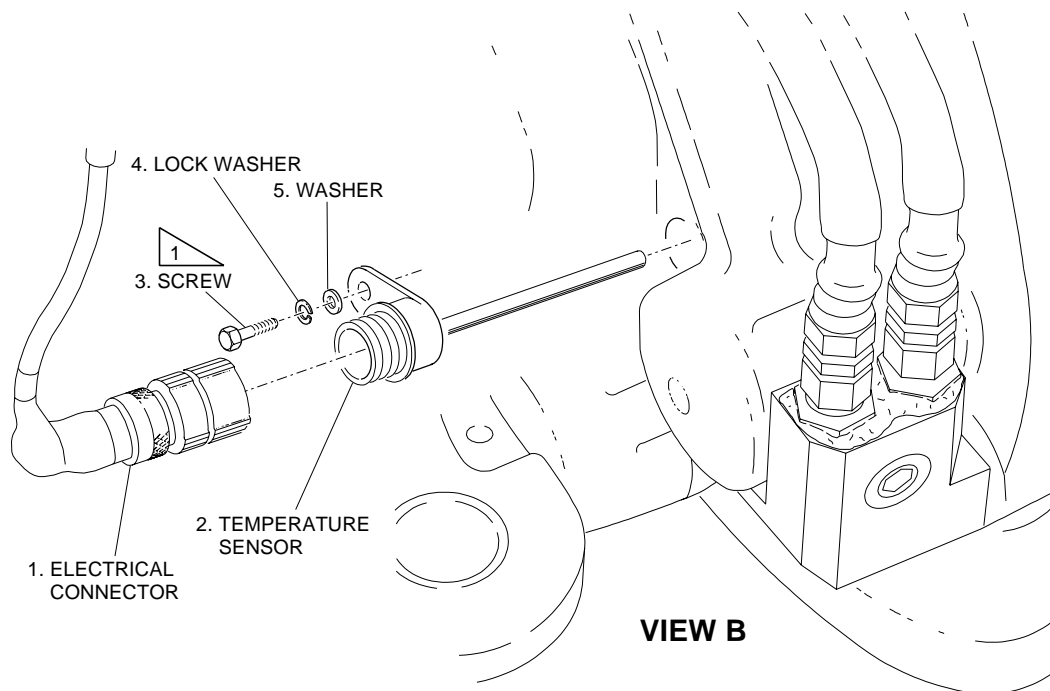
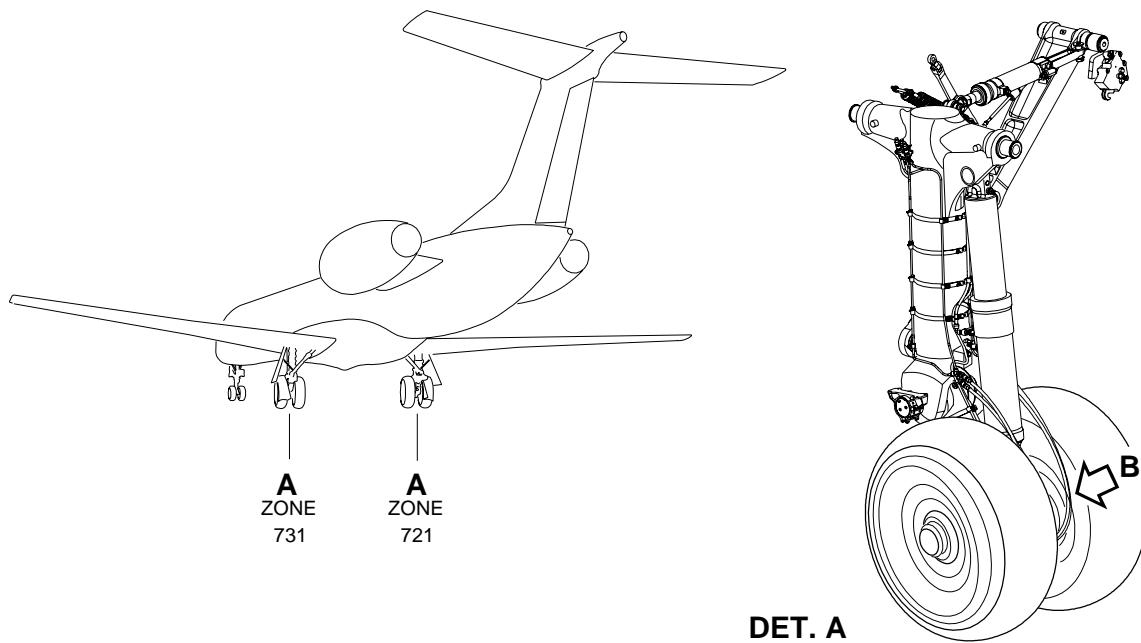
(2) Remove the screw (3), lock washer (4) and washer (5) from the temperature sensor (2).

(3) Remove the temperature sensor (2).

EFFECTIVITY: ALL

Temperature Sensors - Removal/Installation

Figure 401



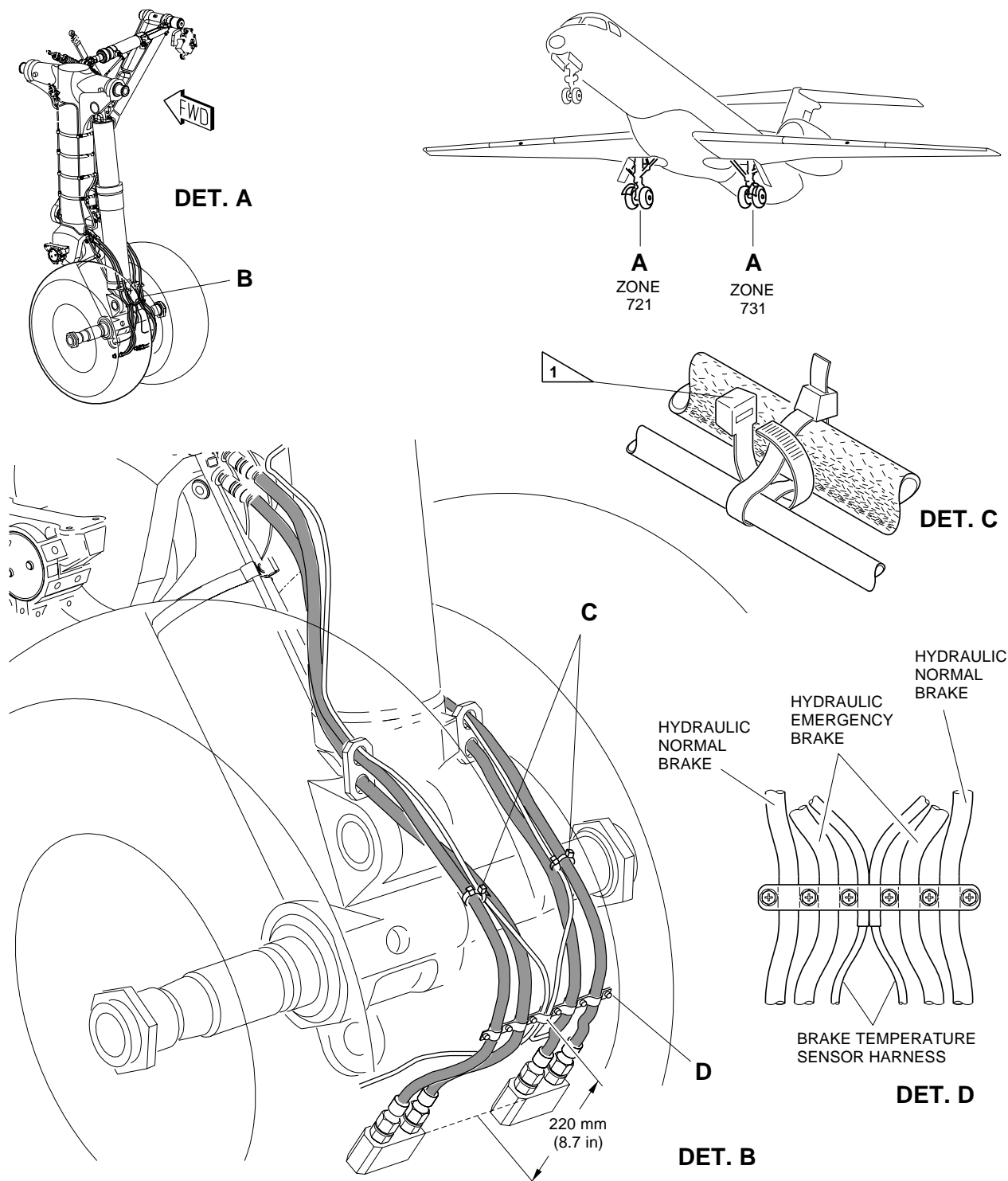
1 TORQUE: 2.3 TO 2.8 N.m (20 TO 25 lb.in)

EM145AMM320251C.DGN

EFFECTIVITY: ALL

Temperature Sensors - Removal/Installation

Figure 402



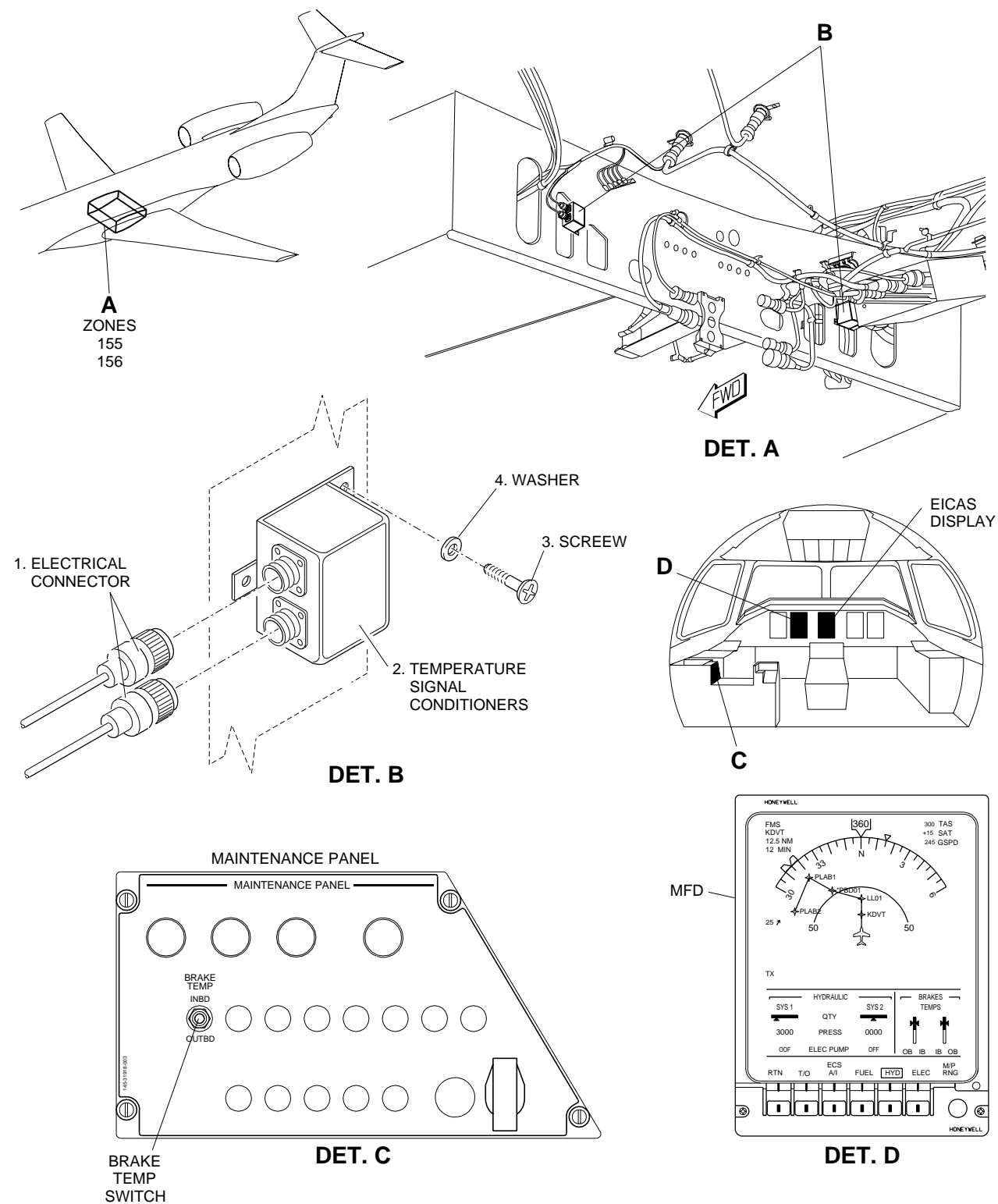
1 EMBRAER SUGGESTS THE USE OF A SECOND TIE-DOWN STRAP AS A SPACER BETWEEN THE HYDRAULIC HOSE AND THE TEMPERATURE SENSOR HARNESS.

EM145AMM320680A.DGN

EFFECTIVITY: ALL

Temperature Signal Conditioners and Temperature Sensor - Removal/Installation

Figure 403



145AMM320250.MCE A

TASK 32-47-01-400-801-A

EFFECTIVITY: ALL

3. TEMPERATURE SENSORS - INSTALLATION

A. General

- (1) This task gives the procedures to install the temperature sensors.
- (2) There are four temperature sensors (one for each wheel).

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
731	731	LH MLG
721	721	RH MLG

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-L-87177	Lektro-Tech Super Corr-A	As necessary
T50R-6TZ	Tie-down-strap	As necessary

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	LH and RH MLG

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the temperature sensor (2) to the wheel.
- (2) Install the screw (3), lock washer (4) and washer (5).

- (3) Apply a torque to the nut (3) of 2.3 to 2.8 N.m (20 to 25 lb.in).
- (4) Connect the electrical connector (1) to the temperature sensors (2).
 - (a) Before the installation of the connector, apply the Lektro-Tech Super Corr-A into the plug connector to prevent corrosion and to clean the contacts.

NOTE:

- For temperature sensors harness attachment details, refer to Figure 402.
- One tie-down strap is the minimum for installation of the hydraulic hoses and temperature sensor harness. Refer to Figure 402.
- Embraer suggests the use of a second tie-down strap as a spacer between the hydraulic hose and the temperature sensor harness, to avoid friction between the hose and the harness. Refer to Figure 402.

- (5) Do the test of the brake temperature indications as follows:
 - (a) Energize aircraft [AMM TASK 20-40-01-860-801-A/200](#).
 - (b) Select the hydraulic page in MFD display.
 - (c) On the maintenance panel, actuate and hold the BRAKE TEMP switch to INBD position. Refer to Figure 403, Det C and D.

- 1 The bugs of the brake temperature indications (IB) on MFD display comes to the top position.

NOTE: Make sure that you can see all four bugs.

- 2 The message BRAKE OVERHEAT comes to view on EICAS display.

- (d) Loosen the BRAKE TEMP switch.

- 1 The bugs of the brake temperature indications (IB) on MFD display goes to the bottom position.

- 2 The message BRAKE OVERHEAT goes out of view on EICAS display.

- (e) Do the procedures above to the OUTBD (outboard) position of brake temperature switch.

- 1 The bugs of the brake temperature indication are identified with OB words for the outboard position on the MFD display.

- (f) De-energize the aircraft [AMM TASK 20-40-01-860-801-A/200](#).

