

FUEL TEMPERATURE SENSOR HOUSING ASSEMBLY - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the fuel temperature sensor housing.
- 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
28-43-02-000-801-A	FUEL TEMPERATURE SENSOR HOUSING - REMOVAL	ACFT WITH WET WINGSTUB
28-43-02-400-801-A	FUEL TEMPERATURE SENSOR HOUSING - INSTALLATION	ACFT WITH WET WINGSTUB
28-43-02-000-802-A	FUEL TEMPERATURE SENSOR HOUSING - REMOVAL	ACFT WITH DRY WINGSTUB
28-43-02-400-802-A	FUEL TEMPERATURE SENSOR HOUSING - INSTALLATION	ALL

TASK 28-43-02-000-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

2. FUEL TEMPERATURE SENSOR HOUSING - REMOVAL

A. General

- (1) The sensor housing prevents fuel loss when the fuel temperature sensor is removed.
- (2) The fuel temperature sensor housing is installed in the LH fuel tank.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 28-43-01-000-801-A/400	FUEL TEMPERATURE SENSOR - REMOVAL
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155DZ/155EZ	Landing gear bay

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	Landing gear bay

I. Preparation

SUBTASK 841-002-A

WARNING: Before you do this task, obey the safety precautions given in ([AMM MPP 28-00-00/200](#)), to prevent injury to persons and damage to material.

- (1) Defuel the aircraft (12-11-01-600-802-A).
- (2) Remove the access panels 155DZ/155EZ (AMM MPP 06-41-01/100) in the landing gear bay.

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

SUBTASK 020-002-A

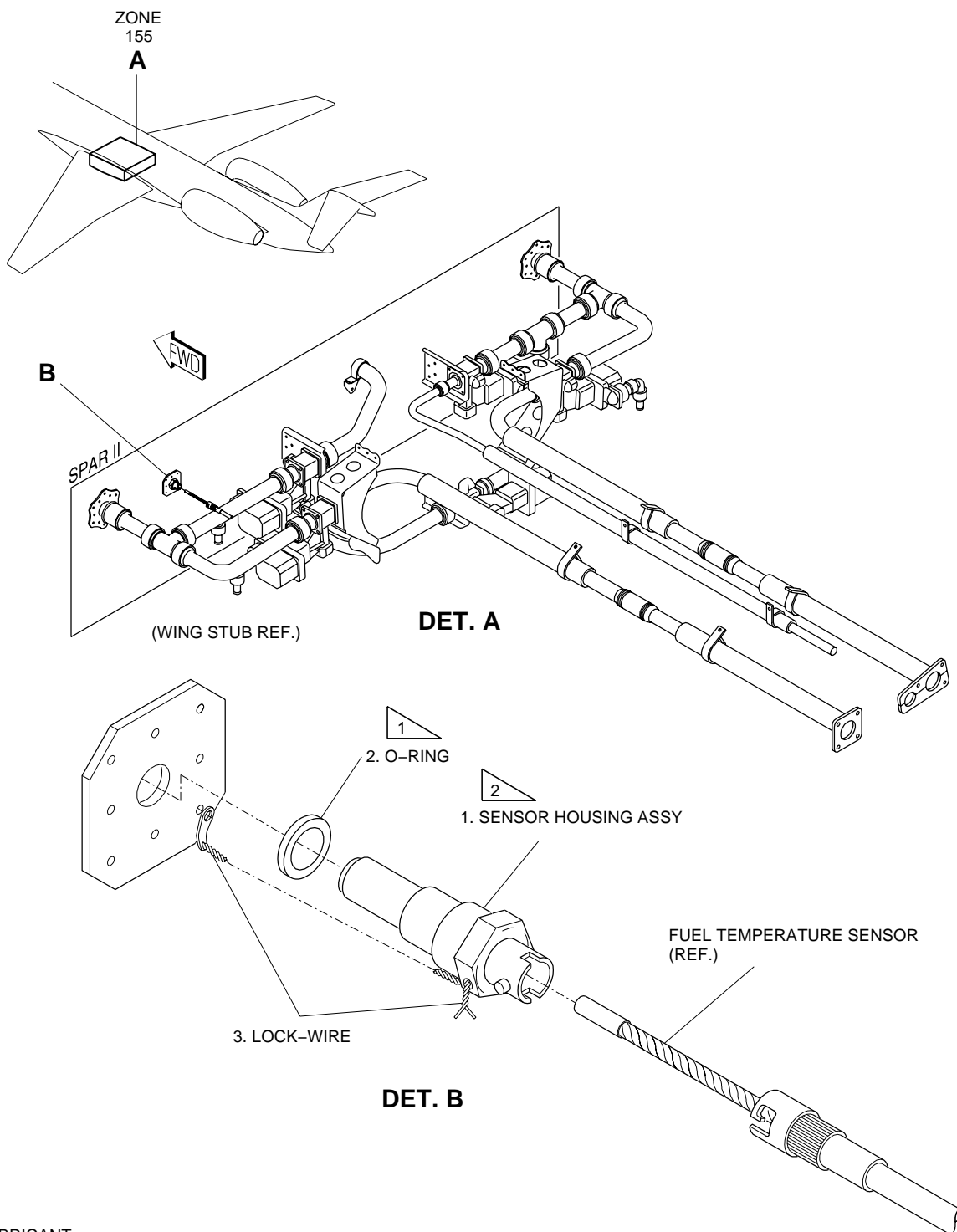
WARNING: MAKE SURE THAT THE LANDING GEAR SAFETY PINS ARE INSTALLED TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL ([AMM TASK 32-00-01-910-801-A/200](#)).

- (1) To remove the fuel temperature sensor do the ([AMM TASK 28-43-01-000-801-A/400](#)
- (2) Remove the lock-wire (3) from the sensor housing (1) and discard it.
- (3) Remove the fuel sensor housing (1) from the stub spar II.
- (4) Remove the O-ring (2) from fuel sensor housing.
- (5) Discard the O-ring (2).
- (6) Cover all disconnected points with applicable plugs or caps to prevent contamination.

EFFECTIVITY: ACFT WITH WET WINGSTUB

Fuel Temperature Sensor Housing - Removal/Installation

Figure 401



1 LUBRICANT

2 TORQUE: 13.55 – 16.95 N.m (120 – 150 lb.in)

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TASK 28-43-02-400-801-A

EFFECTIVITY: ACFT WITH WET WINGSTUB

3. FUEL TEMPERATURE SENSOR HOUSING - INSTALLATION

A. General

- (1) The sensor housing prevents fuel loss when the fuel temperature sensor is removed.
- (2) The fuel temperature sensor housing is installed in the LH fuel tank.

B. References

REFERENCE	DESIGNATION
28-43-00	-
AMM MPP 06-41-01/100	-
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 28-43-01-400-801-A/400	FUEL TEMPERATURE SENSOR - INSTALLATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
155	155DZ/155EZ	Landing gear bay

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench	To tighten the sensor housing	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC-33 Light	Lubricant	AR
Lock-Wire	28-43-00	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	28-43-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Landing gear bay

I. Installation (Figure 401)

SUBTASK 420-002-A

WARNING: MAKE SURE THAT THE LANDING GEAR SAFETY PINS ARE INSTALLED TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL ([AMM TASK 32-00-01-910-801-A/200](#)).

- (1) Remove the protection plugs or caps from the disconnected points, if applicable.
- (2) Lubricate the new O-ring (2) with a thin layer of lubricant Molykote DC-33 Light.
- (3) Install the O-ring (2) on the sensor housing (1).
- (4) Install the sensor housing (1) in the stub spar II.
- (5) With a torque wrench tighten the sensor housing (1) to 13.55-16.95 N.m (120-150 lb.in).
- (6) Install the lock-wire (3) in the housing (1).
- (7) To install the fuel temperature sensor do the ([AMM TASK 28-43-01-400-801-A/400](#)

J. Follow-on

SUBTASK 842-002-A

- (1) Refuel the aircraft, as necessary ([AMM TASK 12-11-01-600-801-A/300](#)).
- (2) Make sure that there is no fuel leakage in the sensor housing.
- (3) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (4) Install the access panels 155DZ/155EZ (AMM MPP 06-41-01/100).

TASK 28-43-02-000-802-A

EFFECTIVITY: ACFT WITH DRY WINGSTUB

4. FUEL TEMPERATURE SENSOR HOUSING - REMOVAL

A. General

- (1) The sensor housing prevents fuel loss when the fuel temperature sensor is removed.
- (2) The access to the fuel temperature sensor is got through the LH MLG (Main Landing Gear) wheelwell.

B. References

REFERENCE	DESIGNATION
AMM MPP 28-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

Not Applicable

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 MLG Wheelwell

I. Preparation

SUBTASK 020-003-A

WARNING: Before you do the task, obey the safety precautions given in ([AMM MPP 28-00-00/200](#)), to prevent injury to persons and damage to material.

- (1) Defuel the aircraft (12-11-01-600-802-A).

J. Removal ([Figure 402](#))

SUBTASK 020-004-A

WARNING: MAKE SURE THAT THE LANDING GEAR SAFETY PINS ARE INSTALLED TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL ([AMM TASK 32-00-01-910-801-A/200](#)).

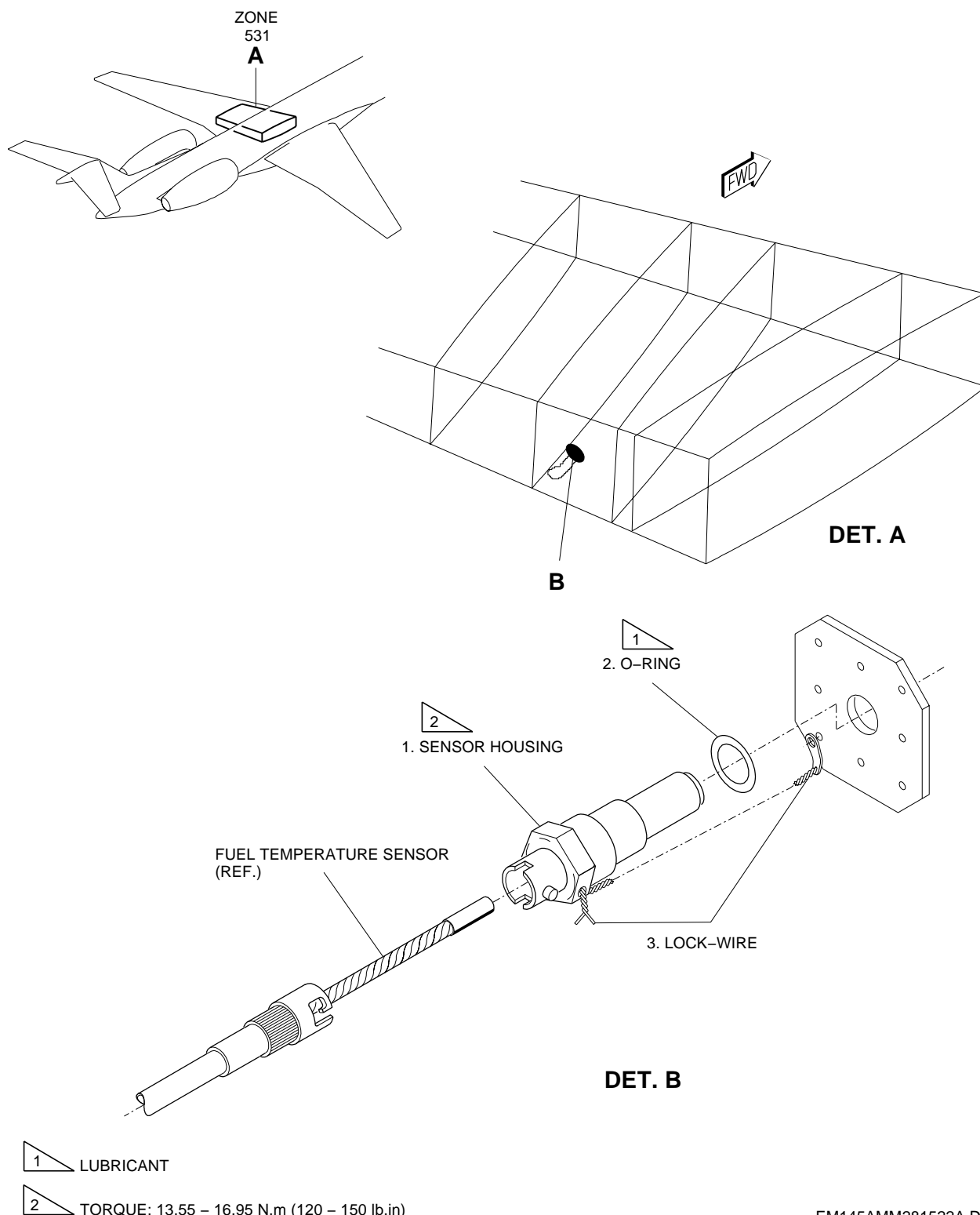
- (1) To remove the fuel temperature sensor do the (TASK 28-41-01-000-801-A).

- (2) Remove the lock-wire (3) from the sensor housing (1) and discard it.
- (3) Remove the sensor housing (1) from the wing spar II.
- (4) Remove the O-ring (2) from sensor housing.
- (5) Discard the O-ring (2).
- (6) Cover all disconnected points with applicable plugs or caps to prevent contamination.

EFFECTIVITY: ACFT WITH DRY WINGSTUB

Fuel Temperature Sensor housing - Removal/Installation

Figure 402



EM145AMM281522A.DGN

TASK 28-43-02-400-802-A

EFFECTIVITY: ALL

5. FUEL TEMPERATURE SENSOR HOUSING - INSTALLATION

A. General

- (1) The sensor housing prevents fuel loss when the fuel temperature sensor is removed.
- (2) The access to the fuel temperature sensor is got through the LH MLG (Main Landing Gear) wheelwell.

B. References

REFERENCE	DESIGNATION
28-43-00	-
AMM TASK 12-11-01-600-801-A/300	FUEL-TANK PRESSURE REFUELING - SERVICING
AMM TASK 28-43-01-400-801-A/400	FUEL TEMPERATURE SENSOR - INSTALLATION
AMM TASK 32-00-01-910-801-A/200	LG SAFETY PIN - INSTALLATION AND REMOVAL

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench	To tighten the housing	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
Molykote DC- 33 Light	Lubricant	AR
Lock-Wire	28-43-00	AR

G. Expendable Parts

ITEM	IPC REFERENCE (VENDOR REFERENCE)	QTY
O-ring	28-43-00	1

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the	LH MLG Wheelwell

I. Installation (Figure402)

SUBTASK 420-003-A

WARNING: MAKE SURE THAT THE LANDING GEAR SAFETY PINS ARE INSTALLED TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL([AMM TASK 32-00-01-910-801-A/200](#)).

- (1) Remove the protection plugs or caps from the disconnected points, if applicable.
- (2) Lubricate the new O-ring (2) with a thin layer of lubricant Molykote DC- 33 Light.
- (3) Install the O-ring (2) on the sensor housing (1).
- (4) Install the sensor housing (1) in the wing spar II.
- (5) Torque the sensor housing (1) to 13.55-16.95 N.m (120-150 lb.in)
- (6) Install the lock-wire (3) in the housing (1).
- (7) To install the fuel temperature sensor, do the ([AMM TASK 28-43-01-400-801-A/400](#)).

J. Follow-on

SUBTASK 842-003-A

- (1) Refuel the aircraft, as necessary ([AMM TASK 12-11-01-600-801-A/300](#))
- (2) Make sure that there is no fuel leakage in the sensor housing.

