



JTB00413NAS2

TECHNICAL BULLETIN

30 AUG 2018

© Jaguar Land Rover North America, LLC

NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Jaguar service facility to determine whether this bulletin applies to a specific vehicle.

INFORMATION

This reissue replaces all previous versions. Please destroy all previous versions.

Changes are highlighted in blue

SECTION:

303-04

SUBJECT/CONCERN:

Engine MIL Illuminated With DTC P008B Stored

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	APPLICABILITY:
XF (X250)	2013-2015	S61362-U88785	GTDi 2.0L Petrol

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:**SITUATION:**

The engine MIL (Malfunction Indicator Lamp) may be illuminated on the Instrument Cluster (IC) with DTC (Diagnostic Trouble Code) P008B stored in the Powertrain Control Module (PCM).

CAUSE:

This may be caused by an internal fault with the Fuel Supply Line Pressure Sensor.

ACTION:

Should a Customer express this concern, follow the Workshop Procedure outlined below.

PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
C2D49979	Fuel Supply Line Pressure Sensor	1

TOOLS:

Jaguar Land Rover-approved
Midtronics battery
power supply



Jaguar Land Rover-approved
diagnostic
equipment with
latest SDD
Software
Management Pack

WARRANTY: **NOTES:**

- Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to JLR claims submission system to obtain the latest repair time.
- The JLR Claims Submission System requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Low Fuel Pressure Sensor - Renew	19.22.32	0.1	42	C2D24881
Read and clear fault codes	86.99.78	0.2	42	C2D24881

 NOTE:

Normal Warranty procedures apply.

WORKSHOP PROCEDURE: **CAUTIONS:**

- A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle start up battery during diagnosis / module programming.
- All ignition ON/OFF requests must be performed; failure to do this may cause damage to control modules in the vehicle.

 NOTE:

The 'Fuel Supply Line Pressure Sensor' may also be referred to as the 'Fuel Rail Pressure - Low Range Sensor'.

- 1 Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle startup battery.

2

 NOTE:

The Jaguar Land Rover-approved diagnostic equipment must be loaded with SDD154.02 Software Management Pack v300 (or later).

Connect the Jaguar Land Rover-approved diagnostic equipment to the vehicle and begin a new session.

3

Follow all on-screen instructions, allowing the diagnostic equipment to read the VIN, identify the vehicle, and initiating the data collect sequence.

4

A faulty Fuel Supply Line Pressure Sensor will cause DTC **'P008B - Low pressure fuel system - Pressure too high'**.

5

View the snapshot data for P008B and read the voltage for **Fuel rail pressure - Low range sensor**.

- A recorded voltage of approximately **4.75v** suggests that the Fuel Supply Line Pressure Sensor has an internal fault.
- Complete the tests below to confirm the diagnosis.

6

Use Datalogger to view the **Fuel rail pressure - Low range sensor (PCM)** signals.

7

 NOTE:

Faults on the low pressure fuel system can affect the high pressure fuel pump behavior and may result in incorrect diagnosis.

With the transmission in Park (P), start the engine, let idle for 60 seconds, and monitor the **Fuel rail pressure - Low range sensor** signal:

- 1 During the first 30 seconds after a cold engine start, the Fuel Supply Line Pressure Sensor should read between approximately **2.85v** and **3.15v**.

- If the engine is hot when started, this voltage range may not be achieved; go to Substep 2 below.
- 2** Between 30 seconds and 1 minute after the engine start, the engine speed will reduce and the voltage reading should drop to approximately **2.15v** to **2.45v**.
- This voltage drop may take longer to happen if the engine is still warming up.
- 3** These voltage measurements indicate the Fuel Supply Line Pressure Sensor is operating normally.
- **A faulty Fuel Supply Line Pressure Sensor will display the following readings:**
 - With the ignition switched ON and the engine OFF, the Fuel Supply Line Pressure Sensor will display a reading of approximately **4.1v**.
 - This reading remains constant until the engine is started.
 - With the engine running, the reading will increase to approximately **4.75v**.
 - This reading remains constant until the engine is stopped.
 - **If these characteristics are observed, replace the Fuel Supply Line Pressure Sensor** (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls - GTDI 2.0L Petrol - Fuel Supply Line Pressure Sensor).

8 When all tasks are finished, exit the Datalogger application.

9 Exit the current session.

- 1** Select the **Session** tab.
- 2** Select the **Close Session** option.

10 Disconnect the diagnostic equipment and battery power supply from the vehicle.