

JTB00413NAS1

TECHNICAL BULLETIN

12 JUN 2017



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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

SECTION:

303-04

SUBJECT/CONCERN:

Engine MIL Illuminated With DTC P008B Stored

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
XE (X760)	2017 Onwards	Y00008 Onwards	Castle Bromwich	GTDi 2.0L Petrol
XF (X250)	2013-2015	S61362-U88785	Castle Bromwich	GTDi 2.0L Petrol

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:

SITUATION:

The engine Malfunction Indicator Lamp (MIL) may be illuminated on the Instrument Cluster (IC) with Diagnostic Trouble Code (DTC) P008B is 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 Service Instruction outlined below.

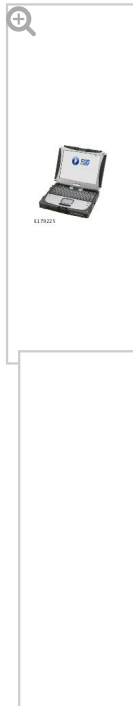
PARTS:

PART NUMBER	DESCRIPTION	QUANTITY:
C2Z21970	Fuel Supply Line Pressure Sensor	1

TOOLS:



Jaguar Land Rover-
approved Midtronics
battery power supply



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 TOPIx 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.

SERVICE INSTRUCTION:

CAUTIONS:

- **A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle battery during diagnosis / module programming.**
- **Make sure all ignition ON/OFF requests are carried out; failure to perform these steps may cause damage to control modules in the vehicle.**

NOTES:

- The Jaguar Land Rover-approved diagnostic tool must be loaded with DVD148.02 and Calibration File 258 (or later).
- 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 battery.

2 Switch the ignition ON (engine not running).

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

4 Follow the on-screen prompts, allowing the diagnostic tool to read the VIN, identify the vehicle, and initiating the data collect sequence.

5 A faulty Fuel Supply Line Pressure Sensor will cause Diagnostic Trouble Code (DTC) **P008B Low pressure fuel system - Pressure too high..**

6 View the DTC 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.

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

8 **NOTE:**

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

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 was 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).**
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- 9 When all tasks are complete, exit the **Datalogger** application and then select the **Close Session** option.

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- 10 Disconnect the diagnostic tool and battery power supply from the vehicle.