

TECHNICAL BULLETIN  
JTB00445NAS1  
30 OCT 2015



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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.

**SECTION: 303-00**

Engine Misfire And Loss of Power

**AFFECTED VEHICLE RANGE:**

**XF (X250)**

**Model Year:** 2013-2015

**VIN:** S47999-U88785

**Engine:** GTDi 2.0L Petrol

**MARKETS:**

NAS

**CONDITION SUMMARY:**

**Situation:** A loss of performance may be experienced and/or the engine Malfunction Indicator Lamp (MIL) may be illuminated. Upon diagnosis, the technician may find one or more misfire Diagnostic Trouble Codes (DTC [P0300, P0301, P0302, P0303, P0304, and/or P1315]) stored in the Engine Control Module (ECM). The ECM is to be reprogrammed in order to protect the engine against damaging combustion events.

**Cause:** This may be caused by ECM software which, under certain conditions, could lead to damaging pre-combustion events that may lead to potential piston damage within the engine.

**Action:** Should a customer express this concern, refer to the Service Instruction outlined below.

**PARTS:**

No Parts Required

**TOOLS:**

Refer to Workshop Manual for any required special tools.

**WARRANTY:**

 **NOTE: 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.**

 **NOTE: DDW 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 |
|--------------------------------------|----------|--------------|----------------|-------------|
| Carry out a cylinder pressures check | 12.25.01 | 0.8          | 42             | C2D22823    |

 **NOTE: Normal Warranty procedures apply.**

**SERVICE INSTRUCTION:**

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

**2** Turn ignition 'ON' (engine not running).

**3** Connect the Symptom Driven Diagnostics (SDD) system to the vehicle and begin a new session.

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

**5** Read the Diagnostic Trouble Codes (DTC) from the vehicle.

- If a misfire DTC does not return after completing two drive cycles which simulate the drive cycle reported by the customer when the fault first flagged, go to Step 6.
- If a misfire DTC is present and does not return after being cleared, go to Step 7.

**6** Carry out a cylinder pressures check (see TOPIx Workshop Manual, section 303-00).

- If the cylinder pressures check passes, go to Step 7.
- If one of the cylinders is significantly lower than the other cylinders, carry out a cylinder leakage test. Remove the oil filler cap to check if there is a significant leakage of air past the piston escaping via the crankcase.
- If the cylinder pressures check and cylinder leakage tests do confirm a fault with the engine, submit a FRED request for a replacement engine and include compression and leakage test data.

**7** Check VIN in DDW for Service Action K306 eligibility.

- If K306 is not open, no further action is required.
- If K306 is open, refer to Technical Bulletin K306NAS for the appropriate Service Instruction. To be carried out as a separate claim.
  - Once K306 is completed, no further action is required.

**8** Exit the current session.

**9** Disconnect the SDD and the battery power supply from the vehicle.