LTB01023NAS1

TECHNICAL BULLETIN

12 DEC 2016

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 Land Rover service facility to determine whether this bulletin applies to a specific vehicle.

INFORMATION

SECTION:

303-00

SUBJECT/CONCERN:

Engine Misfires/MIL Illuminated With Coolant Temperature 75°C Or Lower

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
LR4 (LA)	2014	679426-723300	Solihull	V6 S/C 3.0L Petrol
Range Rover Sport (LW)	2014-2015	000002-512393	Solihull	V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol
Range Rover Sport (LW)	2014-2015	600007-607246	Solihull	V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol
Range Rover (LG)	2013-2015	000010-206441	Solihull	V6 S/C 3.0L Petrol /V8 5.0L Petrol/V8 S/C 5.0L Petrol

MARKETS:

NAS

CONDITION SUMMARY:

NOTE:

This condition will only appear when the engine is started from cold and the engine coolant temperature is 75°C or lower.

SITUATION:

When the engine coolant temperature is 75°C or lower, poor engine running, hard starting, rough idle, and/or an engine misfire may be evident. Additionally, the engine Malfunction Indicator Lamp (MIL) may be illuminated with Diagnostic Trouble Code (DTC) P0316 and one or more misfire DTC (P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307, and P0308) stored in the Powertrain Control Module (PCM).

CAUSE:

This may be caused by a fuel injection calibration issue.

NOTE:

Only follow this Service Instruction if Diagnostic Trouble Code (DTC) P0316 and one or more misfire DTCs (P0300-P0308) are stored. If any other DTCs are stored, investigate the cause and carry out the repair as required.

ACTION:

Should a Customer express this concern, follow the Service Instruction below.

PARTS:

No Parts Required

TOOLS:

Jaguar Land Rover-approved Midtronics battery power supply

Jaguar Land Rover-approved diagnostic tool with latest SDD software, Calibration File

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.
- 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
Tune - Download - Engine management ECU	12.90.13	0.20	04	LR038618

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 SDD147.06 v.254 (or later).**
- **Use DDW to check for Recall, Service Action, or Update Prior to Sale notice eligibility requiring a Powertrain Control Module (PCM) software update. If eligible, perform and claim the update as per that program.**

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. View the Freeze frame data for one of the misfire Diagnostic Trouble Codes (DTC) (P0300-P0308) and read the engine coolant temperature.
    - If the engine coolant temperature is greater than 75°C, do not continue with this Service Instruction.
        - Refer to the relevant DTC help text and pinpoint test in TOPIx to diagnose the cause of the misfire.

- If the engine coolant temperature is 75°C or lower, the Powertrain Control Module (PCM) may require updating.
  - Go to Step 6.

6 Select **Diagnosis** from the Session Type screen.

7 Select the **Selected Symptoms** tab and then select:

- **Powertrain - Engine system - Engine performance - Poor acceleration and lack of power** or
- **Powertrain - Engine system - Starting system - Starts with difficulty** or
- **Powertrain - Engine system - Engine performance - Poor idle - When cold** or
- **Powertrain - Engine system - Engine performance - Engine misfire - When cold** or
- **Electrical - Instruments - Warning lamps - Engine malfunction lamp - Lamp illuminated**

8 Select **continue**.

9 Select the **Recommendations** tab.

10 Select **Run** to perform the **Configure existing module - Powertrain control module** option.

11 Follow all on-screen instructions to complete this task, ensuring all Diagnostic Trouble Codes (DTC) are cleared.

12 When all tasks are complete, select the **Session** tab and then select the **Close Session** option.

13 Disconnect the diagnostic tool and battery power supply from the vehicle.