

TECHNICAL BULLETIN

LTB00800NAS2

03 MAY 2016



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

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

Changes are highlighted in gray

SECTION: 303-00

Engine MIL Illuminated With DTCs P0116-21 and P011B-22 Stored or P013A-00 or Misfire DTCs But No Hardware Fault Diagnosed

AFFECTED VEHICLE RANGE:

LR2 (LF)

Model Year: 2013-2015

VIN: 321215-439912

Assembly Plant: Halewood

Engine: GTDi 2.0L Petrol

Range Rover Evoque (LV)

Model Year: 2012-2013

VIN: 000447-856579

Assembly Plant: Halewood

Engine: GTDi 2.0L Petrol
GTDi 2.0L Petrol - SULEV

MARKETS:

NAS

CONDITION SUMMARY:

Situation: The engine Malfunction Indicator Lamp (MIL) may be illuminated with the following Diagnostic Trouble Codes (DTC) stored in the Powertrain Control Module (PCM) and no hardware fault:

- P0116-21: Engine Coolant Temperature Sensor 1 Circuit Range/Performance (Fault on start up after using Block Heater)
- P011B-22: Engine Coolant Temperature / Intake Air Temperature Correlation (Fault on start up after using Block Heater)
- P013A-00: O2 Sensor Slow Response - Rich to Lean (Bank 1 and Sensor 2)
- P1315-00: Persistent misfire
- P0300-00: Random Misfire Detected
- P0301-00: Cylinder 1 Misfire Detected
- P0302-00: Cylinder 2 Misfire Detected
- P0303-00: Cylinder 3 Misfire Detected
- P0304-00: Cylinder 4 Misfire Detected

Cause: This may be caused by an On-board Diagnostics (OBD) calibration error.

Action: Should a customer express this concern, follow the Service Instruction below.

PARTS:

No Parts Required

TOOLS:



NOTE: This 'Active Bulletin' that will display a functional programming shortcut if accessed within a diagnostic session.

Jaguar Land Rover-approved diagnostic tool with latest DVD and Calibration File

Jaguar Land Rover-approved Midtronics battery power supply

WARRANTY:



NOTE: 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 PCM update as per that program.



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
Configure existing module - Powertrain Control Module	12.90.13	0.2	04	LR028981
Powertrain control module adaption clear	18.90.27	0.2	04	LR028981



NOTE: Normal Warranty procedures apply.

SERVICE INSTRUCTION:



CAUTION: A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle battery during SDD diagnosis / module programming.



CAUTION: Ensure all ignition 'ON' / ignition 'OFF' requests are carried out; failure to perform these steps may cause damage to control modules in the vehicle.



NOTE: The Jaguar Land Rover-approved diagnostic tool must be loaded with DVD142.03 v.212 or later.



NOTE: 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 PCM update as per that program.



- NOTE:** Check all hardware as per Diagnostic Trouble Code (DTC) index (see TOPIx Workshop Manual, section 100-00: General Information - Diagnostic Trouble Code [DTC]) prior to performing the software update.

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

- Turn ignition ON (engine not running).
- Connect the Jaguar Land Rover-approved diagnostic tool to the vehicle and begin a new session.
- Follow the on-screen prompts, allowing the diagnostic tool to read the VIN, identify the vehicle, and initiating the data collect sequence.
- Select '**Diagnosis**' from the Session Type screen.
- Select the '**Selected Symptoms**' tab, and then select one of the following:

- **Powertrain > Automatic transmission and transaxle > Automatic transmission and transaxle symptoms > Gear selector malfunction > Gear position display flashing**
- **Powertrain > Engine system > Engine performance > Engine cuts out**
- **Powertrain > Engine system > Engine performance > Noises**
- **Electrical > Instruments > Warning lamps > Engine malfunction lamp > Lamp illuminated (and any of the following DTCs P013A, P011B-21, P011B-22)**

7. Select 'continue'.

8. Select the '**Recommendations**' tab, and then select '**Run**' to perform the '**Configure existing module - Powertrain control module**' option.

9. Follow all on-screen instructions to complete this task.



NOTE: Once the Powertrain Control Module (PCM) has been configured, the adaption values must be cleared as follows.

10. Select the '**Selected Symptoms**' tab, and then select one of the following:

- **Powertrain > Automatic transmission and transaxle > Automatic transmission and transaxle symptoms > Gear selector malfunction > Gear position display flashing**
- **Powertrain > Engine system > Engine performance > Engine cuts out**
- **Powertrain > Engine system > Engine performance > Noises**
- **Electrical > Instruments > Warning lamps > Engine malfunction lamp > Lamp illuminated (and any of the following DTCs: P013A, P011B-21, P011B-22)**

11. Select 'continue'.

12. Select the 'Recommendations' tab, and then select '**Run**' to perform the '**Powertrain - Powertrain control module adaption clear**' option.

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

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

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