



LTB01191NAS1

TECHNICAL BULLETIN

18 MAY 2018

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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.

INFORMATION

SECTION:

303-14: Electronic Engine Controls

SUBJECT/CONCERN:

Engine MIL Illuminated With DTC P0030-29 and/or P2251-13 Stored

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Discovery (LR)	2017-2018	000004-055735	Solihull	TDV6 3.0L Diesel
Range Rover Velar (LY)	2018	700004-752401	Solihull	INGENIUM I4 2.0L Diesel
Range Rover Sport (LW)	2016	542165-599999	Solihull	TDV6 3.0L Diesel

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Range Rover Sport (LW)	2016-2018	100003-189788	Solihull	TDV6 3.0L Diesel
Range Rover Sport (LW)	2016-2018	630154-699492	Solihull	TDV6 3.0L Diesel
Range Rover (LG)	2016-2018	243372-388449	Solihull	TDV6 3.0L Diesel

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:

SITUATION:

The engine Malfunction Indicator Lamp (MIL) may be illuminated with Diagnostic Trouble Code (DTC) P0030-29 and/or P2251-13 stored in the Powertrain Control Module (PCM).

CAUSE:

This may be caused by a component fault.


ACTION:

Should a customer express this concern, follow the Workshop and appropriate Diagnostic Procedure below.

PARTS:


PART NUMBER	DESCRIPTION	QUANTITY
LR110458	Heated Oxygen Sensor (HO2S)	1
LR016619	Gasket - TDV6	1
LR078958	Gasket - TDV6	1

TOOLS:



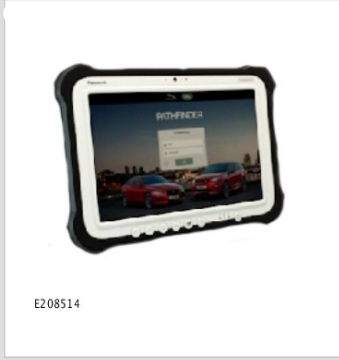
Jaguar Land Rover-approved Midtronics battery power supply

E192494



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

E179225



Jaguar Land Rover-approved diagnostic tool with latest PATHFINDER software

E208514

Refer to the Service Instruction/Workshop Manual for any additional required special tools.

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
Heated Oxygen Sensor (HO2S) - Renew - Discovery (L462; TDV6 3.0L Diesel)	19.22.16	0.3	01	LR062045
Heated Oxygen Sensor (HO2S) - Renew - Range Rover Velar (L560; Ingenium I4 2.0L Diesel)	19.22.16	0.1	01	LR062045

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Heated Oxygen Sensor (HO2S) - Renew - Range Rover Sport (L494; TDV6 3.0L Diesel)	19.22.16	0.3	01	LR062045
Heated Oxygen Sensor (HO2S) - Renew - Range Rover (L405; TDV6 3.0L Diesel)	19.22.16	0.3	01	LR062045
Read and clear Diagnostic Trouble Codes (DTC)	12.90.16	0.2	01	LR062045

NOTE:

Normal Warranty procedures apply.

WORKSHOP PROCEDURE:

1 Inspect the Heated Oxygen Sensor (HO2S) wiring for a short/open circuit condition (see TOPIx Electrical Information section Electrical Wiring Diagrams 303-14: Electronic Engine Controls).

- If a short/open circuit condition is found, repair (see TOPIx Workshop Manual section 418-02: Electrical Distribution - Wiring Harness - General Procedures - Wiring Harness Repair) before continuing with this Technical Bulletin.
 - Once the repair is completed, go to the appropriate Diagnostic Procedure below.
- If a short/open circuit condition is not found, go to Step 2.

2 Replace the Heated Oxygen Sensor (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls).

- When all tasks are complete, release the vehicle. No further action required.

DIAGNOSTIC PROCEDURE 'A': SDD

This Diagnostic Procedure is for 2016MY vehicles ONLY.

ⓘ CAUTIONS:

- A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle startup battery during diagnosis / module programming.
- All ignition ON/OFF requests must be carried out. Failure to perform these steps may cause damage to control modules in the vehicle.

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

2 **△ NOTE:**

The Jaguar Land Rover-approved diagnostic tool must be loaded with SDD153.01 Software Management Pack v293 (or later).

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

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

4 Read and clear all Diagnostic Trouble Codes (DTC).

- 1** Follow all on-screen instructions until the application completes successfully.
- 2** When all tasks are complete, go to the next Step.

5 Switch the ignition 'ON' and then 'OFF' 3 times.

6 Read all DTCs.

- If DTC P0030-29 and/or P2251-13 is not stored, go to Step 7.
- If DTC P0030-29 and/or P2251-13 is stored:
 - Replace the Exhaust Gas Temperature Sensor (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls).

- Replace the Heated Oxygen Sensor (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls).
- When all tasks are complete, go to the next Step.

7 Exit the current session.

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

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

- 1 When all tasks are complete, release the vehicle. No further action required.

DIAGNOSTIC PROCEDURE 'B': PATHFINDER

This Diagnostic Procedure is for the 2017-18MY vehicles ONLY.

 **CAUTIONS:**

- A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle startup battery during diagnosis / module programming.
- All ignition ON/OFF requests must be carried out. Failure to perform these steps may cause damage to control modules in the vehicle.

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

2  **NOTE:**

The Jaguar Land Rover-approved diagnostic tool must be loaded with PATHFINDER version 158 (or later).

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

3

 **NOTE:**

The Jaguar Land Rover-approved diagnostic tool will read the correct Vehicle Identification Number (VIN) for the current vehicle and automatically take the vehicle out of Transit mode if required.

Follow all on-screen instructions.

4

Select **ECU Diagnostics**.

5

Select **All DTCs**.

6

Select **Clear all DTCs**.

- 1 Follow all on-screen instructions until the application completes successfully.
- 2 When all tasks are complete, go to the next Step.

7

Switch the ignition 'ON' and then 'OFF' 3 times.

8

Read all DTCs.

- If DTC P0030-29 and/or P2251-13 is not stored, go to Step 9.
- If DTC P0030-29 and/or P2251-13 is stored:
 - Replace the Exhaust Gas Temperature Sensor (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls).
 - Replace the Heated Oxygen Sensor (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls).
- When all tasks are complete, go to the next Step.

9

Exit the current session.

- 1 If required, reset the vehicle to **Transit mode**.
- 2 Select the **Exit** icon.

10

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