



LTB01204NAS2

TECHNICAL BULLETIN

20 DEC 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

Changes are highlighted in blue

SECTION:

303-04: Fuel Charging and Controls

SUBJECT/CONCERN:

Engine MIL Illuminated With DTC P0234-77 Stored

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	APPLICABILITY:
Discovery (LR)	2017-2018	000001-090164	TDV6 3.0L Diesel

MODEL:	MODEL YEAR:	VIN:	APPLICABILITY:
Range Rover Sport (LW)	2016-2018	519971-831586	TDV6 3.0L Diesel
Range Rover (LG)	2016-2018	216967-533162	TDV6 3.0L Diesel

MARKETS:

NORTH AMERICA

CONDITION SUMMARY:

SITUATION:

The engine MIL (Malfunction Indicator Lamp) may be illuminated on the Instrument Panel Cluster with DTC (Diagnostic Trouble Code) P0234-77 stored in the Powertrain Control Module (PCM). DTC P2463-00 and P246B-00 may also be stored.

CAUSE:

This may be caused by a component fault.





ACTION:

Should a customer express this concern, follow the Diagnostic Procedure and Workshop Procedure(s) below.

PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
LR078546	Intake air shutoff throttle	1
LR063121	Inlet hose clamp	1

TOOLS:

 <p>E192494</p>	<p>Jaguar Land Rover-approved Midtronics battery power supply</p>	 <p>E179225</p>	<p>Jaguar Land Rover-approved diagnostic tool with latest SDD Software Management Pack</p>
 <p>E208514</p>	<p>Jaguar Land Rover-approved diagnostic tool with latest PATHFINDER software</p>	 <p>E184192</p>	<p>95-0106 High Pressure Diagnostic Leak Detector</p>

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
Leakage test using smoke test equipment	01.01.28	0.4	41	LR078546
Read and clear Diagnostic Trouble Codes (DTC)	12.90.16	0.2	41	LR078546
Intake air shutoff throttle - Renew - Discovery	19.70.32	0.5	41	LR078546

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Intake air shutoff throttle - Renew - Range Rover Sport; Range Rover	19.70.32	0.2	41	LR078546
Perform road test	10.41.17	0.3	10	-
Diesel Particulate Filter (DPF) - Dynamic regeneration	17.50.45	0.5	41	LR078546

 **NOTE:**

Normal Warranty procedures apply.

DIAGNOSTIC PROCEDURE 'A':

 **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 performed; 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.

 **NOTE:**

The Jaguar Land Rover-approved diagnostic tool must be loaded with SDD155.03 Software Management Pack v308 (or later) OR PATHFINDER 208 (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 the DTC.

- If DTC P0234-77 is not stored, do not continue with this Technical Bulletin.
 - Perform diagnosis as per TOPIx Workshop Manual section 100-00: General Information - Description and Operation.
- If DTC P0234-77 is stored, go to Workshop Procedure 'A'.

5 Exit the current session.

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

WORKSHOP PROCEDURE 'A':

NOTE:

DTC P0234-77 can be attributed to a leak in the air intake system.

1 Complete a leakage test on the intake system using smoke test equipment (see TOPIx Workshop Manual section 303-00: Engine system general information - General procedures - Leakage test using smoke test equipment).

- If a leak is not found, go to Service Instruction B.
- If a leak is found, repair as required (see TOPIx Workshop Manual).
 - To be performed as a separate claim.
 - When the leak repair is complete, go to the next step.

2 NOTE:

The Jaguar Land Rover-approved diagnostic tool must be loaded with SDD155.03 Software Management Pack v308 (or later) OR PATHFINDER 208 (or later).

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 DTC.

5 Perform a short vehicle road test.

6 After the road test, read the DTC.

- If DTC P0234-77 is not stored, do not continue with this Technical Bulletin.
 - Go to the next step.
- If DTC P0234-77 is stored, go to Service Instruction 'B'.

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.

WORKSHOP PROCEDURE 'B':

1 Renew the intake air shutoff throttle (see TOPIx Workshop Manual section 303-04: Fuel Charging and Controls - Removal and Installation - Intake Air Shutoff Throttle).

- 1 When all tasks are finished, go to the appropriate Diagnostic Procedure below:
 - **2016MY Vehicles:** go to Diagnostic Procedure 'B' to perform a Diesel Particulate Filter (DPF) - Dynamic regeneration.
 - **2017-18MY Vehicles:** go to Diagnostic Procedure 'C' to perform a Diesel Particulate Filter (DPF) - Dynamic regeneration.

DIAGNOSTIC PROCEDURE 'B':

This Diagnostic Procedure is only for vehicles requiring the Jaguar Land Rover-approved diagnostic equipment with Symptom Driven Diagnostics (SDD).

 CAUTIONS:

A Jaguar Land Rover-approved battery power supply must be connected to the vehicle startup battery.

All ignition ON/OFF requests MUST be performed; failure to do these steps may cause damage to vehicle control modules.

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

2  NOTE:

The Jaguar Land Rover-approved diagnostic equipment must be loaded with SDD155.03 Software Management Pack v308 (or later).

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

3 Follow all on-screen instructions.

4 If the hyperlink is not available:

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

2 Select **Run** to perform the '**Diesel particulate filter dynamic regeneration**' option.

5 Follow all on-screen instructions until the application completes successfully.

1 When prompted, select the **Clear DTCs** option following completion of the software download.

2 Follow the on-screen instructions until the application finishes successfully.

6 Exit the current session.

1 Select the **Session** tab.

2 Select the **Close Session** option.

7 Disconnect the diagnostic equipment and battery power supply from the vehicle.

DIAGNOSTIC PROCEDURE 'C':

This Diagnostic Procedure is only for vehicles requiring the Jaguar Land Rover-approved diagnostic equipment with PATHFINDER.

ⓘ CAUTIONS:

A Jaguar Land Rover-approved battery power supply must be connected to the vehicle startup battery.

All ignition ON/OFF requests **MUST** be performed; failure to do these steps may cause damage to vehicle control modules.

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

2 NOTE:

The Jaguar Land Rover-approved diagnostic equipment must be loaded with PATHFINDER version 208 (or later).

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

3 NOTE:

The Jaguar Land Rover-approved diagnostic equipment 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 **Service**.

6 Select **Powertrain Control Module [PCM]: Diesel particulate filter dynamic regeneration**.

1 Follow the on-screen instructions until the application finishes successfully.

7 Exit the current session.

1 If required, reset the vehicle to **Transit mode**.

2 Select the **Exit** icon.

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