

LTB00902NAS5

TECHNICAL BULLETIN

03 FEB 2017



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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

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

Changes are highlighted in blue

SECTION:

309-00

SUBJECT/CONCERN:

Engine MIL Illuminated With DTC P2096-00 or P2097-00 Stored

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Discovery Sport (LC)	2016	544577-605042	Halewood	GTDi 2.0L Petrol/GTDi 2.0L Petrol - SULEV
Range Rover Evoque (LV)	2014-2016	856580-134807	Halewood	GTDi 2.0L Petrol/GTDi 2.0L Petrol - SULEV

MARKETS:

NAS

CONDITION SUMMARY:

SITUATION:

The engine Malfunction Indicator Lamp (MIL) may be illuminated with Diagnostic Trouble Code (DTC) P2096-00 or P2097-00 stored in the Powertrain Control Module (PCM).

After DTC P2096-00 or P2097-00 is stored, one or more of the following misfire-related DTCs is also likely to be stored in the PCM: P0300-00, P0301-00, P0302-00, P0303-00, and/or P0304-00.

CAUSE:

This may be caused by a PCM software error.

ACTION:

If the snapshot data show that one or more of the misfire-related DTCs has set

AFTER DTC P2096-00 or P2097-00 is stored, follow the Service Instruction for

DTC P2096-00 or P2097-00 outlined below.

If the snapshot data show that one or more of the misfire-related DTCs has set **BEFORE** DTC P2096-00 or P2097-00 is stored, investigate as per normal diagnostics. To be performed as a separate claim.

PARTS:

No Parts Required

TOOLS:



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



Jaguar Land Rover-
approved Midtronics
battery power supply

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



95-0106
High Pressure
Diagnostic Leak
Detector

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
Reconfigure the Powertrain Control Module	12.90.13	0.2	04	LR057872
High Pressure Diagnostic Leak Detector test - With exhaust installed	30.10.89.49	0.6	04	LR057872

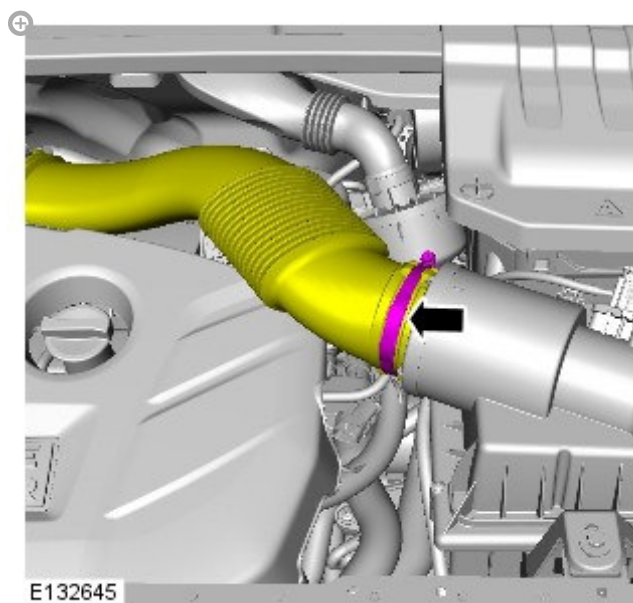
NOTE:

Normal Warranty procedures apply.

SERVICE INSTRUCTION:**NOTE:**

Some variation in the illustrations may occur, but the essential information is always correct.

1

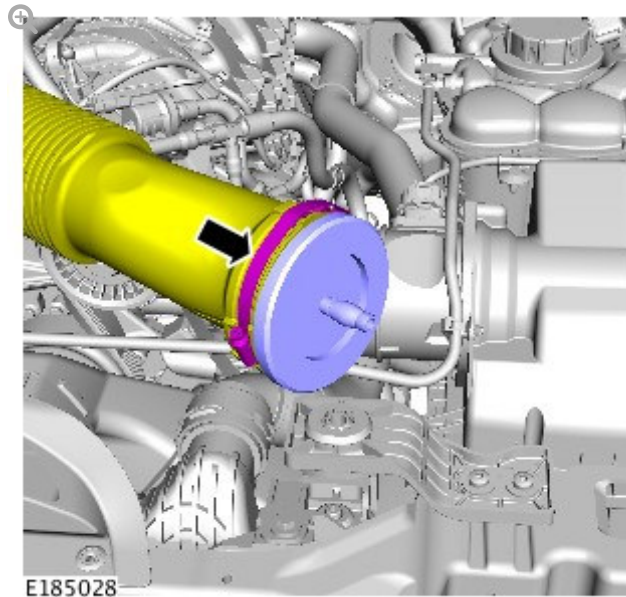


Reposition the air intake pipe.

2

WARNING:

Use the adapters supplied in the High Pressure Diagnostic Leak Detector kit.



Insert a suitable air intake adapter and a suitable block-off coupler to block off the inlet pipe.

3

CAUTION:

Never use dye/Ultraviolet (UV) dye in intake or exhaust systems; it may coat or harm critical sensors.

NOTE:

Maximum to refill when empty: 2 fl. oz. (60 ml) .

Check and top up (if required) the vapor producing fluid reservoir (see Jaguar Land Rover High Pressure Diagnostic Leak Detector Operation Manual: Set Up - step 1).

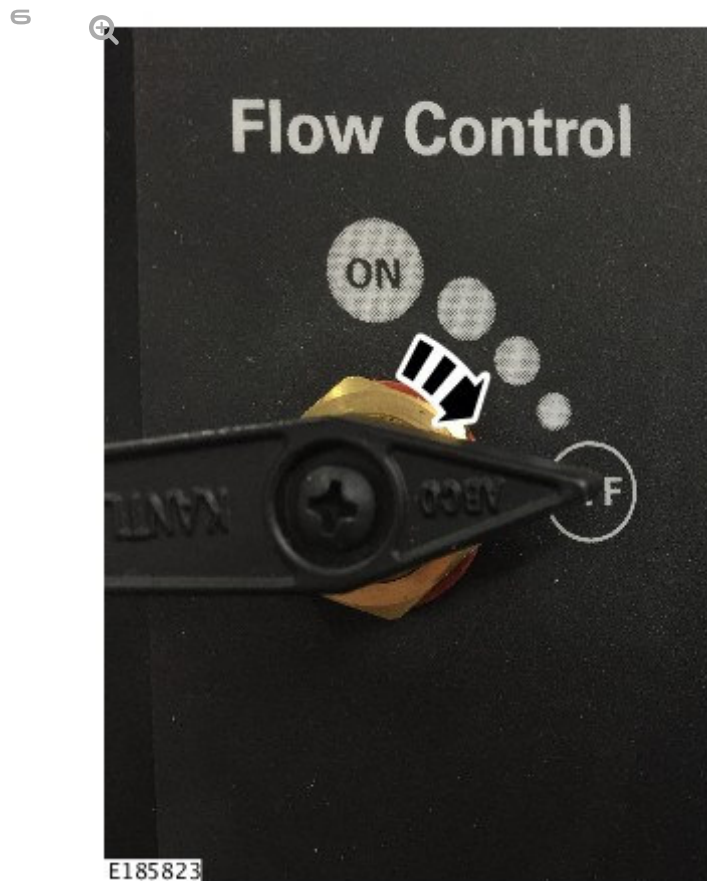
4

CAUTIONS:

- **Do not connect the High Pressure Diagnostic Leak Detector to a battery charger, battery support unit, or jumper box.**
- **Never connect the High Pressure Diagnostic Leak Detector to the vehicle with the engine running.**

Connect the High Pressure Diagnostic Leak Detector to a suitable power supply.

-
- 5 Connect the High Pressure Diagnostic Leak Detector to a suitable air supply.
-



Switch the flow control valve to the OFF position.

7



Pull the pressure regulator valve OUT.

8

CAUTION:

Do not exceed 0.5 bar (7.5 psi) test pressure or damage to components can occur.



Use the 'Pressure Regulator' adjuster to set the test pressure to 0.5 bar (7.5 psi).

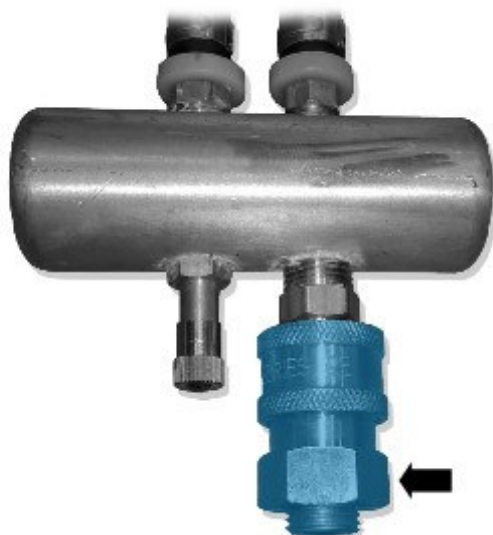


Push the pressure regulator valve IN to lock it.



Insert the leak detector's PowerSmoke™ adapter into the tailpipe.

11

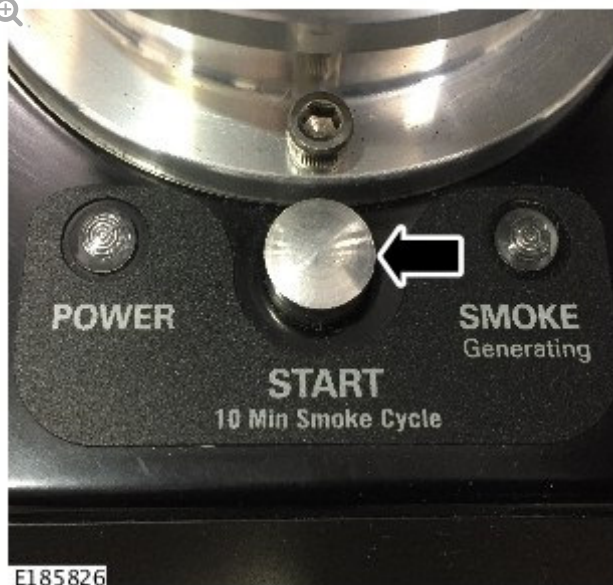


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Connect the block-off coupler to one of the tail pipe PowerSmoke™ adapters. Use a suitable tire inflator to inflate the tailpipe PowerSmoke™ adapter bladder.

- Connect the leak detector to the other tailpipe. Use a suitable tire inflator to inflate the tailpipe PowerSmoke™ adapter bladder.

12



E185826

Press the START switch to begin a 10-minute vapor cycle.

13

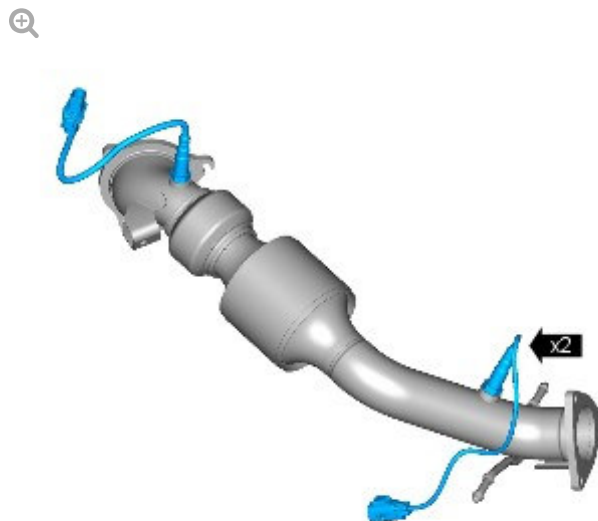


Turn the flow control valve ON to release pressure/vapor.

14

NOTE:

Do not loosen the heated oxygen sensor (HO2S) before attempting to re-torque.



E133092

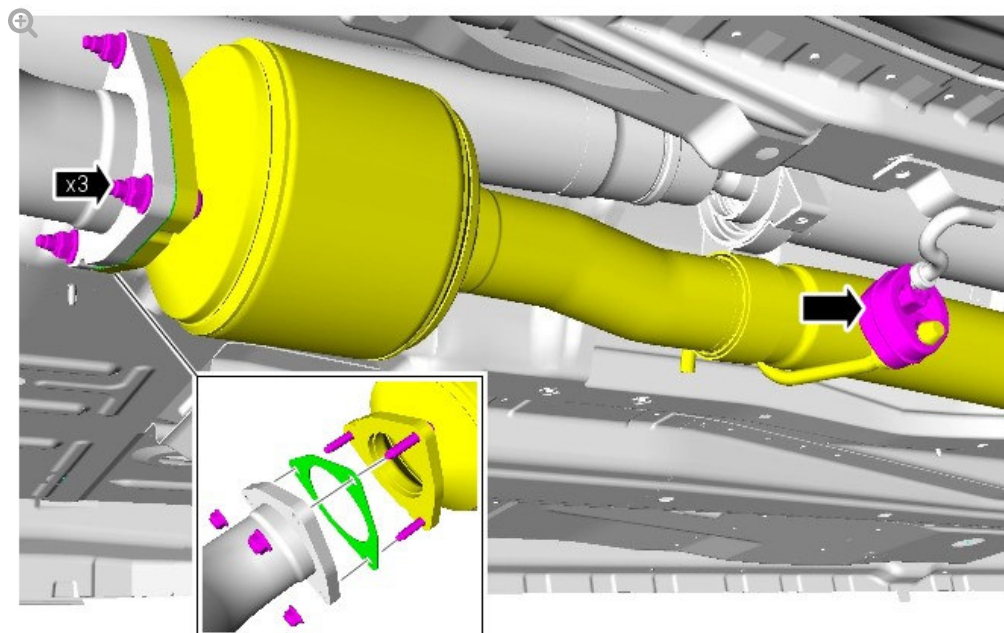
Inspect the exhaust system for air leaks around **all** the HO2S and the exhaust.

- If a HO2S leak is not found, continue to the next step.
- If a HO2S leak is found, torque the HO2S to the correct specification as shown in TOPIx.

15

NOTE:

Do not loosen the bolts before attempting to torque.

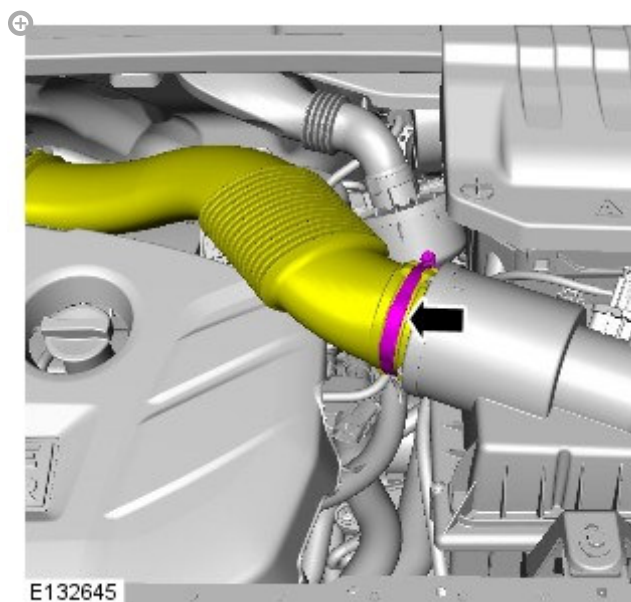


E138557

Inspect the exhaust system for air leaks around the exhaust three-bolt flange:

- If an exhaust leak is not found, continue to Step 16.
- If an exhaust leak is found, tighten the bolts to the correct specification as shown in TOPIx.

16



Install the air intake pipe.

- Torque: **3Nm**

CAUTIONS:

- A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle battery during diagnosis / module programming.
- Ensure all ignition ON/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 DVD148.00 v.255 or later.

-
- 17 Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle battery.
-
- 18 Turn ignition ON (engine not running).
-
- 19 Connect the Jaguar Land Rover-approved diagnostic tool to the vehicle and begin a new session.
-
- 20 Follow the on-screen prompts, allowing the diagnostic tool to read the VIN, identify the vehicle, and initiating the data collect sequence.
-
- 21 Select **Diagnosis** from the Session Type screen.
-
- 22 Select the **Selected Symptoms** tab and then select:
- **Electrical - Instruments - Warning lamps - Engine malfunction lamp - Lamp illuminated**
-
- 23 Select continue'.
-
- 24 Select the **Recommendations** tab.
-

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

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

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

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