

JLRTB02023NAS1

# TECHNICAL BULLETIN

06 MAR 2020



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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

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### SECTION:

303-01

### SUBJECT/CONCERN:

Malfunction Indicator Lamp (MIL) Illuminated on the Instrument Panel Cluster (IPC)

### AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Discovery (LR)	2018-2019	014201-096489	Solihull	INGENIUM I4 2.0L Petrol
Discovery (LR)	2019-2020	400445-426260	Nitra (Slovakia)	INGENIUM I4 2.0L Petrol
Discovery Sport (LC)	2018-2019	690537-824661	Halewood	INGENIUM I4 2.0L Petrol
New Range Rover Evoque (LZ)	2020	000011-022242	Halewood	INGENIUM I4 2.0L Petrol

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Range Rover Evoque (LV)	2018-2019	232184-354437	Halewood	INGENIUM I4 2.0L Petrol
Range Rover Sport (LW)	2018-2020	149358-872707	Solihull	INGENIUM I4 2.0L Petrol
Range Rover Velar (LY)	2018-2019	700246-799998	Solihull	INGENIUM I4 2.0L Petrol
Range Rover Velar (LY)	2019	200001-231027	Solihull	INGENIUM I4 2.0L Petrol
E-PACE (X540)	2018-2020	Z00581-Z74881	Graz (Austria)	INGENIUM I4 2.0L Petrol
F-TYPE (X152)	2018-2020	K45252-K65706	Castle Bromwich	INGENIUM I4 2.0L Petrol
F-PACE (X761)	2018-2019	488023-616663	Solihull	INGENIUM I4 2.0L Petrol
XE (X760)	2018-2020	P26896-P57662	Castle Bromwich	INGENIUM I4 2.0L Petrol
XF (X260)	2018-2020	Y46487-Y85151	Castle Bromwich	INGENIUM I4 2.0L Petrol

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**MARKETS:**

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**NORTH AMERICA**

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**CONDITION SUMMARY:**

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**SITUATION:**

The Malfunction Indicator Lamp (MIL) is illuminated on the Instrument Panel Cluster (IPC) with a small loss in performance and reduction in accelerator response.

The following Diagnostic Trouble Code(s) (DTC)s may possibly be stored in the Powertrain Control Module (PCM):

- P0011-71 - 'A' Camshaft Position - Timing Over - Advanced or System Performance Bank 1 - Actuator stuck

- P000A-00 - 'A' Camshaft Position Slow Response Bank 1
- P0014-71 - 'B' Camshaft Position - Timing Over - Advanced or System Performance Bank 1 - Actuator stuck
- P000B-00 - 'B' Camshaft Position Slow Response Bank 1
- P054A-00 - Cold Start 'B' Camshaft Position Timing Over - Advanced Bank 1
- P013E-00 - O2 Sensor Delayed Response - Rich to Lean Bank 1 Sensor 2
- P0016-00 - Crankshaft Position - Camshaft Position Correlation Bank 1 Sensor A

**CAUSE:**

Insufficient wear resistance of the Variable Camshaft Timing (VCT) solenoid bush.

**ACTION:**

Follow the instructions below.

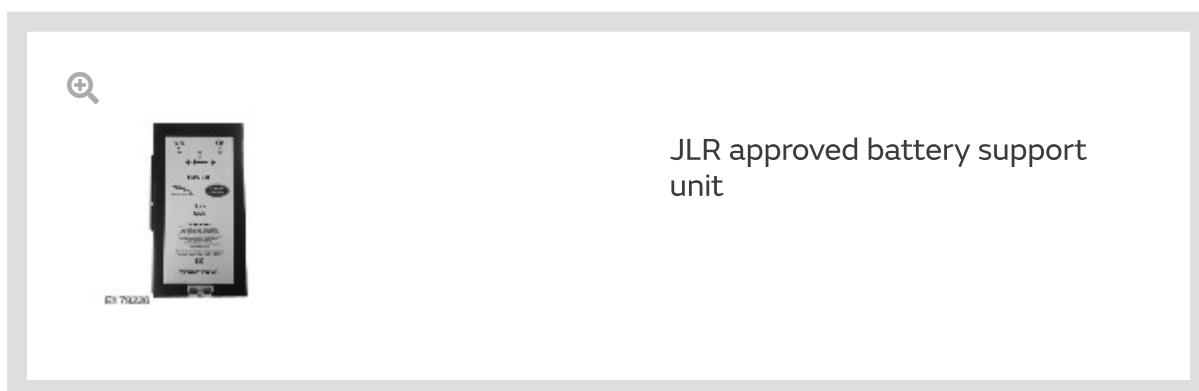
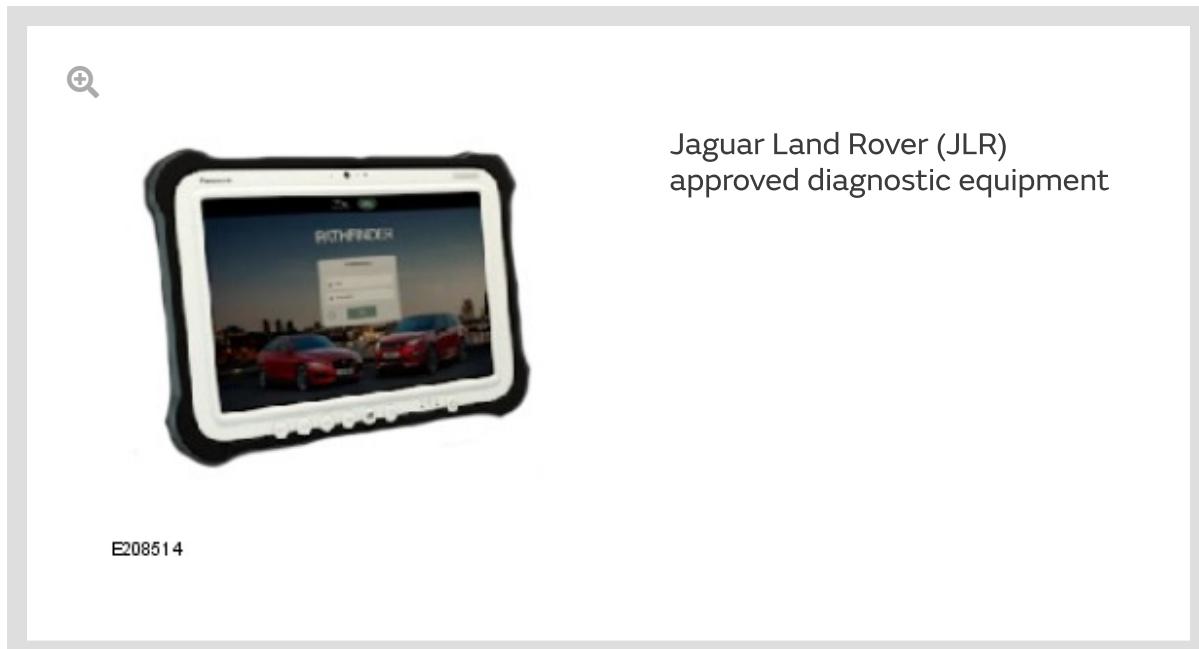
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**PARTS:**

PART NUMBER	DESCRIPTION	QUANTITY
T2H48301	Jaguar - VCT solenoid - Kit	1
LR140207	Land Rover - VCT solenoid - Kit	1

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**TOOLS:**



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**WARRANTY:****NOTES:**

- Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Use TOPIx 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
JLRTB02023 - Guided Diagnostics - Application	85.99.18	0.2	42	LR126832/T4N32636

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Range Rover Sport, Range Rover Velar, Discovery, F-PACE, XF and XE - <u>VCT</u> solenoid - Engine set - Renew	18.31.51	1	42	LR126832/T4N32636
New Range Rover Evoque, Range Rover Evoque, Discovery Sport and E-PACE - <u>VCT</u> solenoid - Engine set - Renew	18.31.51	0.3	42	LR126832/T4N32636
F-TYPE - <u>VCT</u> solenoid - Engine set - Renew	18.31.51	0.2	42	T4N32636

**NOTE:**

Normal Warranty procedures apply.

**SERVICE INSTRUCTION:****NOTE:**

Do not clear the PCM DTCs before completing this guided diagnostic routine. The following steps will test the function of the intake and exhaust camshaft VCT solenoids.

1.

**CAUTION:**

This procedure requires a minimum of Pathfinder 261 installed or later.

**NOTES:**

- The Jaguar Land Rover (JLR) approved diagnostic equipment will read the Vehicle Identification Number (VIN) for the vehicle and automatically take the vehicle out of 'Transportation Mode' if required.
- All ignition ON/OFF instructions must be followed. Failure to complete these instructions may cause damage to the vehicle control modules.

Connect the JLR approved battery support unit.

2. Connect the **JLR** approved diagnostic equipment to the vehicle and begin a new session.

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3. Follow the **JLR** approved diagnostic equipment prompts.
  - o ■ Select 'Guided Diagnostics'.
  - o ■ Select 'Warnings - Lamps - Engine Malfunction Indicator Lamp (MIL)'.
  - o ■ Follow all on-screen instructions to complete the task.
    - o ■ If the guided diagnostic routine **did not** identify a fault with either of the **VCT** solenoids, **complete steps 6 to 8 and continue to diagnose the customer concern using the applicable diagnosis and testing section within the TOPIx Workshop Manual**.
    - o ■ If the guided diagnostic routine **did** identify a fault with either of the **VCT** solenoids, **continue to step 4**.

4.

**NOTE:**

In this instance, the **VCT** solenoids must be renewed as a pair. If a single **VCT** solenoid is diagnosed as failed in the future, only renew the failed component.

Renew both **VCT** solenoids (see TOPIx Workshop Manual section 303-14: Electronic Engine Controls - INGENIUM I4 2.0L Petrol - Remove and Installation - Variable Camshaft Timing Solenoid).

5. Select 'ECU Diagnostics'.
  - o ■ Select 'All DTCs'.
  - o ■ Select 'Clear all DTCs'.
  - o ■ Follow all on-screen instructions to complete this task.

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6. If required, reset the vehicle to 'Transportation Mode'.

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7. When all of the tasks are complete, exit the session.

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- 8. Disconnect the JLR approved diagnostic equipment and the JLR approved battery support unit.