

TECHNICAL BULLETIN
LTB00916NAS3
01 NOV 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: 303-01

Intake Camshaft Variable Cam Timing Actuator - Component Failure

AFFECTED VEHICLE RANGE:

Discovery Sport (LC)

Model Year: 2015 Onwards
VIN: 503863 Onwards GTDi 2.0L Petrol
Assembly Plant: Halewood

Range Rover Evoque (LV)

Model Year: 2012 Onwards
VIN: 000447 Onwards GTDi 2.0L Petrol
Assembly Plant: Halewood

LR2 (LF)

Model Year: 2013-2015
VIN: 311358-439912 GTDi 2.0L Petrol
Assembly Plant: Halewood

MARKETS:

NAS

CONDITION SUMMARY:

Situation: A rattle noise may be evident from the engine compartment and/or the Malfunction Indicator Lamp (MIL) is illuminated. The Diagnostic Trouble Code (DTC) that may be logged include P0016, P0017, P0026, or P0341.

Cause: This may be caused by the 'stopper' in the intake camshaft Variable Cam Timing (VCT) actuator becoming detached, leading to the VCT actuator not functioning.

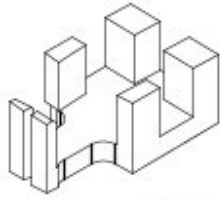
Action: Should a customer express this concern, follow the Service Instruction below.

PARTS:

LR085467	Intake camshaft VCT actuator (LR)	1
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TOOLS:

Alignment Tool, Crankshaft Position Sensor
JLR-303-1521



E121926

Lifting Bracket, Engine - Rear
JLR-303-1591



E136268

Engine support bracket
JLR-303-021



303-021

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

WARRANTY:



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.

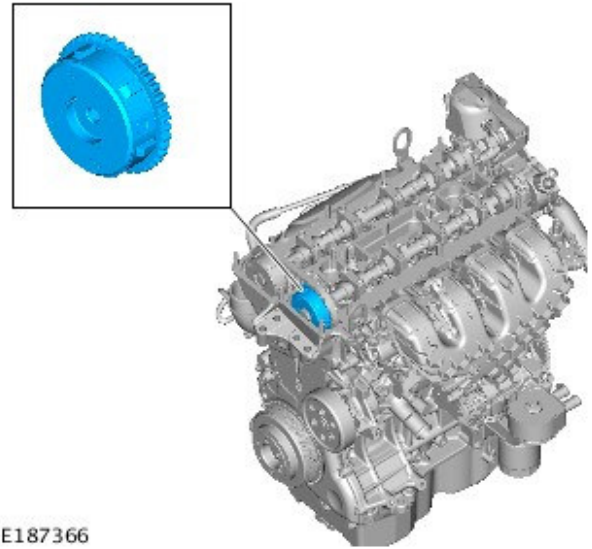
DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Variable Camshaft Timing actuator - Intake - Check - LR2 (L359)	12.13.46	1.1	01	LR050849
Variable Valve Timing actuator - Intake - Renew - LR2 (L359)	12.65.79	3.9	01	LR050849
Variable Camshaft Timing actuator - Intake - Check - Discovery Sport (L550)	12.13.46	1.0	01	LR050849
Variable Valve Timing actuator - Intake - Renew - Discovery Sport (L550)	12.65.79	3.6	01	LR050849
Variable Camshaft Timing actuator - Intake - Check - Range Rover Evoque (L538)	12.13.46	1.0	01	LR050849
Variable Valve Timing actuator - Intake - Renew - Range Rover Evoque (L538)	12.65.79	3.6	01	LR050849



NOTE: Normal Warranty procedures apply.

COMPONENT LOCATION

1. Intake camshaft Variable Camshaft Timing (VCT) actuator location

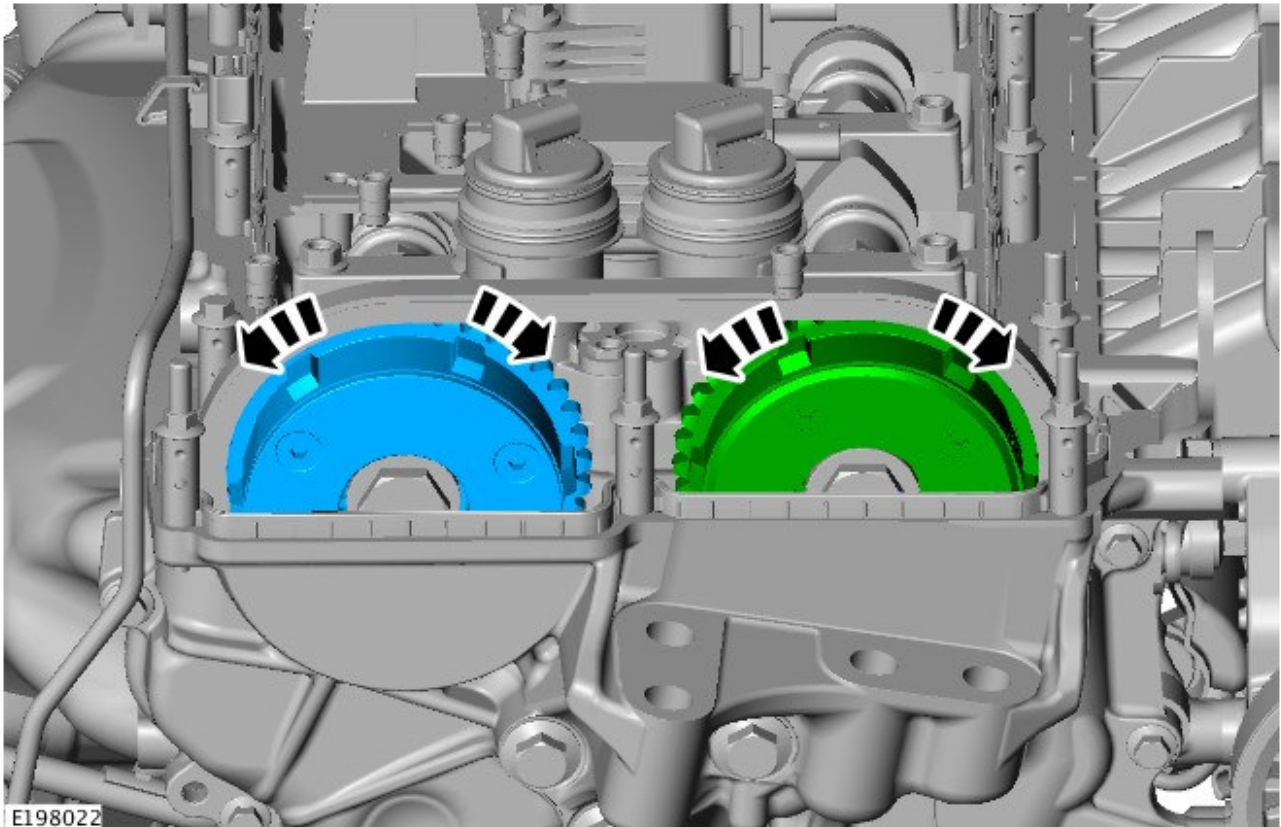


E187366

SERVICE INFORMATION:

1.  **NOTE: This Service Information is to prevent misdiagnosis.**

The exhaust camshaft Variable Camshaft Timing (VCT) actuator unit (shown in blue) has restricted movement when turned. The intake camshaft VCT unit (shown in green) has a less restricted movement when turned.



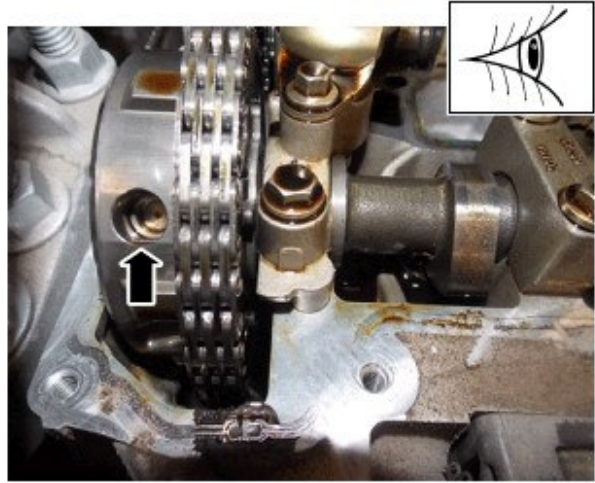
E198022

SERVICE INSTRUCTION:

1. Remove the camshaft cover (see TOPIX Workshop Manual section 303-01A / 303-01B: Engine - GTDi 2.0L Petrol - Valve Cover).

2. Inspect the Variable Camshaft Timing (VCT) actuator.

- If the VCT actuator is noisy but the 'stopper' is in place, go to Step 3.
- If the 'stopper' is not in place in the VCT actuator, go to Step 4.

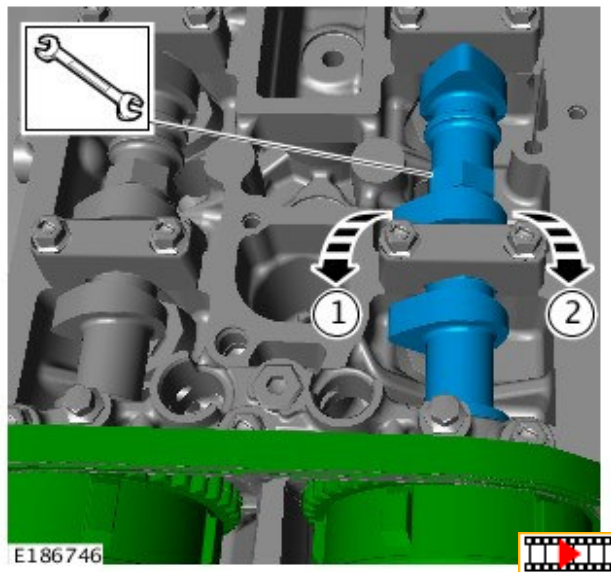


E186694

3.  **NOTE: Clockwise movement should NOT be possible without also rotating the engine.**

Fully rotate the camshaft anti-clockwise (1) and then attempt to rotate the camshaft clockwise (2).

- If the camshaft rotates freely in both directions, the VCT actuator is NOT functioning correctly; go to Step 4.
- If no clockwise movement was possible without also rotating the engine, the VCT actuator is functioning correctly.
 - Reverse the removal procedure.



E186746

4. Refer to intake camshaft VCT actuator (see TOPIX Workshop Manual section 303-01A / 303-01B: Engine - GTDi 2.0L Petrol - Variable Camshaft Timing Actuator).