

LTB01156NAS1

# TECHNICAL BULLETIN

30 JAN 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:

303-01: Engine

## SUBJECT/CONCERN:

Engine MIL Illuminated With DTC P132B-77 Stored

## AFFECTED VEHICLE RANGE:

| MODEL:   | MODEL YEAR: | VIN:          | ASSEMBLY PLANT: | APPLICABILITY:     |
|----------|-------------|---------------|-----------------|--------------------|
| LR4 (LA) | 2014-2016   | 679426-847658 | Solihull        | V6 S/C 3.0L Petrol |

| MODEL:                 | MODEL YEAR: | VIN:          | ASSEMBLY PLANT: | APPLICABILITY:                         |
|------------------------|-------------|---------------|-----------------|----------------------------------------|
| Discovery (LR)         | 2017-2018   | 000055-048200 | Solihull        | V6 S/C 3.0L Petrol                     |
| Range Rover Sport (LW) | 2014        | 001154-001205 | Solihull        | V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol |
| Range Rover Sport (LW) | 2014-2015   | 300003-399999 | Solihull        | V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol |
| Range Rover Sport (LW) | 2014-2016   | 500023-599999 | Solihull        | V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol |
| Range Rover Sport (LW) | 2014-2018   | 600009-696100 | Solihull        | V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol |
| Range Rover Sport (LW) | 2016-2018   | 100000-182200 | Solihull        | V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol |
| Range Rover (LG)       | 2014-2018   | 110440-380900 | Solihull        | V6 S/C 3.0L Petrol /V8 S/C 5.0L Petrol |

## MARKETS:

NORTH AMERICA

## CONDITION SUMMARY:

### SITUATION:

The engine Malfunction Indicator Lamp (MIL) may be illuminated on the Instrument Cluster (IC) with Diagnostic Trouble Code (DTC) P132B-77 stored in the Powertrain Control Module (PCM).

### CAUSE:

This may be caused by the supercharger bypass set screw being incorrectly adjusted.

### ACTION:

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

## PARTS:

 **NOTE:**

An allowance (\$6.25 USD or local equivalent) has been provided to cover the cost of the locally sourced engine coolant and thread locking adhesive (such as Loctite® 243). Claim using Sundry Code 'ZZZ001'.

| PART NUMBER | DESCRIPTION                 | QUANTITY |
|-------------|-----------------------------|----------|
| LR041680    | Gasket - V6 3.0L S/C Petrol | 1        |
| LR011343    | Gasket - V8 5.0L S/C Petrol | 1        |

**TOOLS:**

Refer to Workshop Manual for any required special tools.

**WARRANTY:** **NOTE:**

An allowance (\$6.25 USD or local equivalent) has been provided to cover the cost of the locally sourced engine coolant and thread locking adhesive (such as Loctite® 243). Claim using Sundry Code 'ZZZ001'.

 **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 |
|-----------------------------------------------------|----------|--------------|----------------|-------------|
| Supercharger bypass valve - Adjustment - LR4 (L319) | 19.46.33 | 1.8          | 12             | AJ813867    |

| DESCRIPTION                                                                           | SRO      | TIME (HOURS) | CONDITION CODE | CAUSAL PART |
|---------------------------------------------------------------------------------------|----------|--------------|----------------|-------------|
| Supercharger bypass valve - Adjustment - Discovery (L462)                             | 19.46.33 | 1.6          | 12             | AJ813867    |
| Supercharger bypass valve - Adjustment - Range Rover Sport (L494; V6 3.0L S/C Petrol) | 19.46.33 | 1.8          | 12             | AJ813867    |
| Supercharger bypass valve - Adjustment - Range Rover Sport (L494; V8 5.0L S/C Petrol) | 19.46.33 | 2.3          | 12             | AJ813867    |
| Supercharger bypass valve - Adjustment - Range Rover (L405)                           | 19.46.33 | 2.2          | 12             | AJ813867    |

 **NOTE:**

Normal Warranty procedures apply.

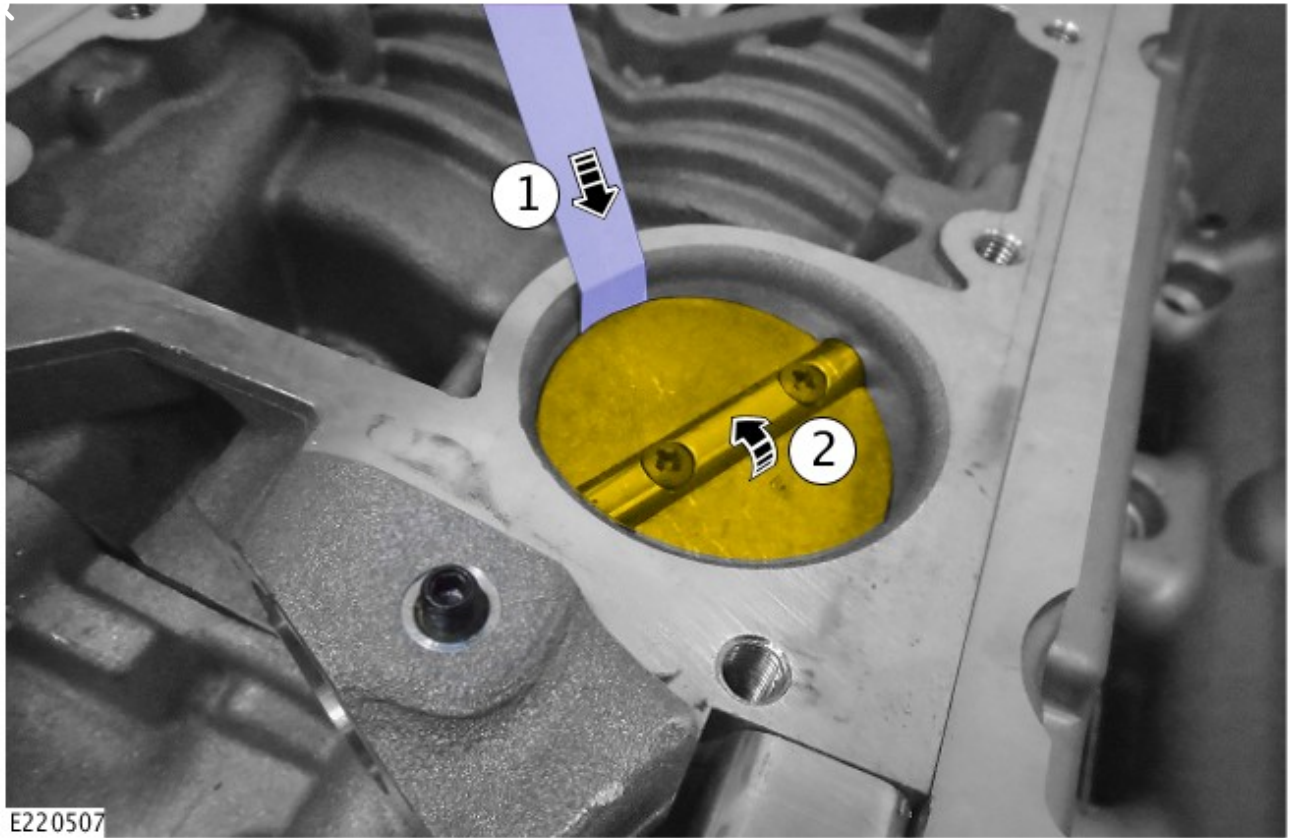
**WORKSHOP PROCEDURE:** **CAUTION:**

This procedure should be completed on a cold engine.

 **NOTES:**

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

- 1 Remove the charge air cooler (see TOPIx Workshop Manual section 303-12: Intake air distribution and filtering - Removal and installation - Charge air Cooler).



With the bypass valve in an open position, insert a feeler gauge **(1)** of 0.102 mm (0.004") into the valve body and close the valve **(2)**.

- If the bypass valve is **NOT** set to a gap of 0.102 mm (0.004"), **continue to Step 3**.
- If the bypass valve is set to a gap of 0.102 mm (0.004"), **refer to TOPIx Workshop Manual section 303-14A-E [depending on model]: Electronic Engine Controls - Diagnosis and Testing and continue with diagnosis of DTC P132B-77 as a separate claim.**

3

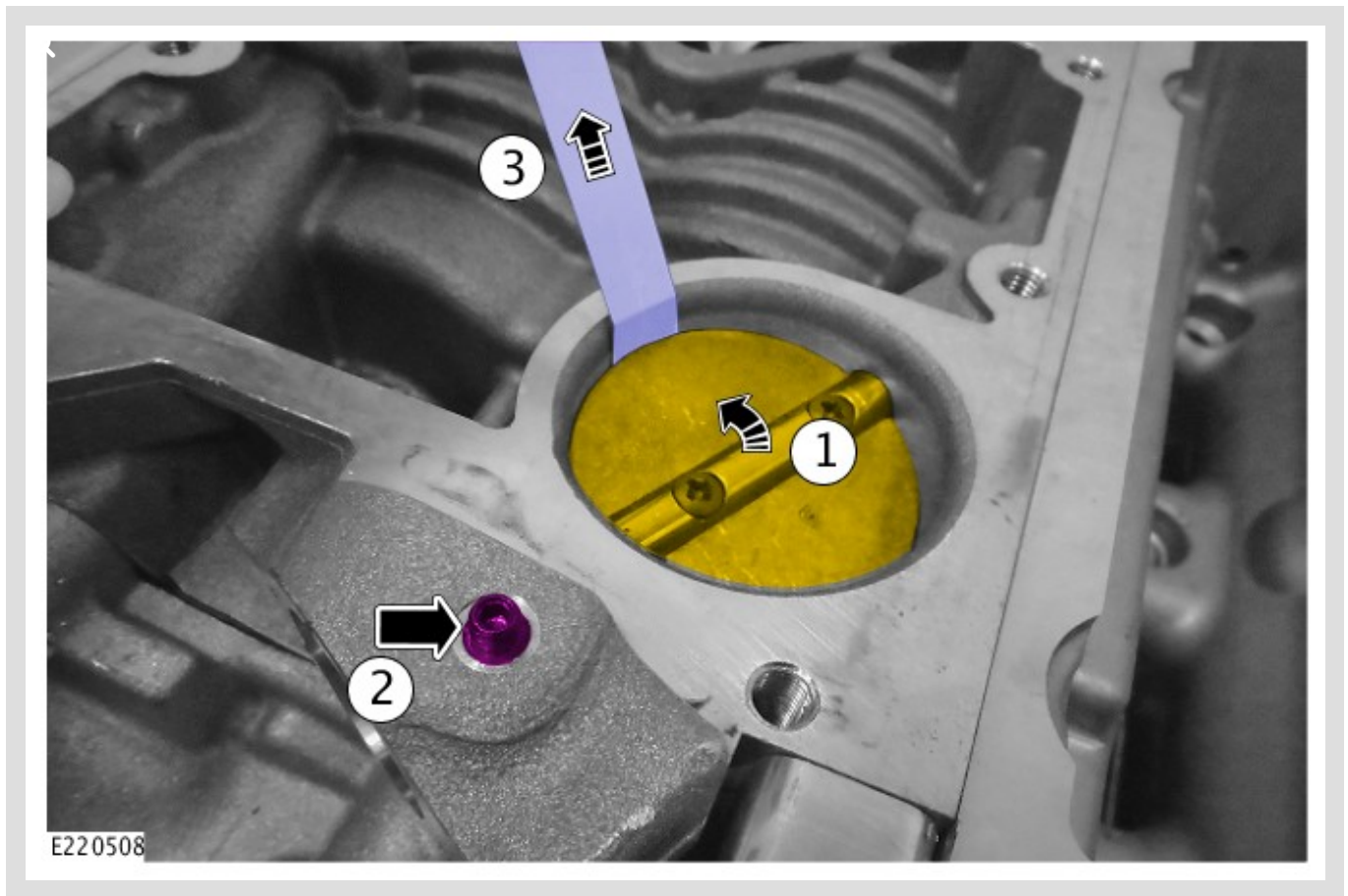


Remove the bypass valve set screw.

4

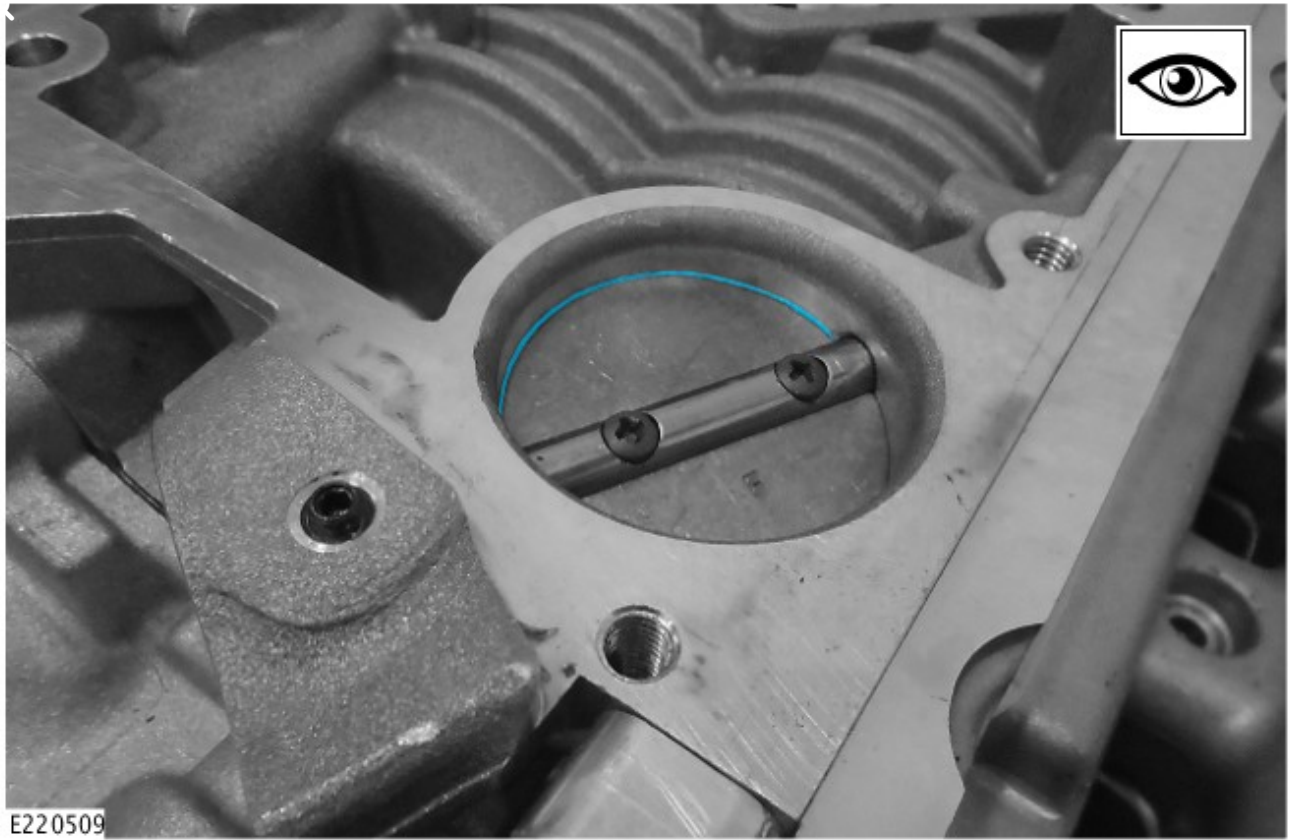
**ⓘ CAUTION:**

Apply only a small amount of a suitable thread locking adhesive to the set screw before installation.



Install the bypass valve set screw **(2)** and tighten until the point that the feeler gauge **(3)** can be removed.

5



The bypass valve should now be set with the required gap of 0.102 mm (0.004").

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- 6 Install the charge air cooler (see TOPIx Workshop Manual section 303-12: Intake air distribution and filtering - Removal and installation - Charge air Cooler).