

N572NAS3

# TECHNICAL BULLETIN

25 AUG 2021



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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.

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## SECTION:

100-00

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## SUBJECT/CONCERN:

Service Action - Electric Supercharger - Intermittent Operation

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## AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:
Range Rover (LG)	2021	422091-443071
Range Rover Sport (LW)	2021	759791-789397
Defender (LE)	2020	032254-034238
Defender (LE)	2021	034733-055951
Discovery (LR)	2021	446837-452846
Discovery (LR)	2022	455029

MODEL:	MODEL YEAR:	VIN:
Range Rover Velar (LY)	2021	296539-310698

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## MARKETS:

CANADA, USA

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## CONDITION SUMMARY:

### SITUATION:

An issue has been identified on a limited number of 2020 to 2022 model year Land Rover vehicles. The Malfunction Indicator Lamp (MIL) may be illuminated on the Instrument Cluster and reduced performance may be experienced, due to an intermittent internal short circuit within the electric supercharger circuit board.

### ACTION:

Retailers are required to HOLD affected new vehicles that are within your control and refrain from releasing the vehicles for new vehicle sale pending completion of the procedure(s) detailed in this Technical Bulletin. Unsold vehicles should have this performed as part of the Pre-Delivery Inspection (PDI) process but must have it completed prior to vehicle handover to the customer.

Affected vehicles already in the hands of customers should be updated at the next available opportunity.

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## SPECIAL TOOLS INFORMATION:

Refer to TOPIx Workshop Manual/Service Instruction(s) for any required special tools.

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## PARTS INFORMATION

The parts below should be ordered through Jaguar Land Rover (JLR) in the normal manner. The engine coolant will be paid under ZZZ001 and to be locally sourced.

\*When ordering parts, order no more than the expected percentage failure rate of parts identified.

DESCRIPTION	MODEL	PART NUMBER/SUNDRY CODE	QTY/\$ VALUE	% OF VEHICLES REQUIRING THIS PART*
Electric supercharger	All	LR140362	1	100
Bolts	Range Rover Range Rover Sport Discovery	LR037935	8	68
Engine coolant top-up	Range Rover Velar Defender	ZZZ001	\$6.50	32
Engine coolant	Range Rover Range Rover Sport Discovery	ZZZ001	\$32.50	68

An allowance of \$6.50/\$32.50 USD or local equivalent has been provided to cover the cost of the necessary engine coolant.

## S R O S

DESCRIPTION	MODEL	SRO	TIME
N572 Electric supercharger - Renew	Range Rover Range Rover Sport	99.02.01.31	2.3
N572 Electric supercharger - Renew - With Diagnostic Trouble Code(s) (DTC) clear	Range Rover Range Rover Sport	99.02.01.32	2.5
N572 Electric supercharger - Renew	Range Rover Velar	99.02.01.31	1.6
N572 Electric supercharger - Renew - With <u>DTC</u> clear	Range Rover Velar	99.02.01.32	1.7
N572 Electric supercharger - Renew	Defender	99.02.01.31	2.6
N572 Electric supercharger - Renew - With <u>DTC</u> clear	Defender	99.02.01.32	2.7

DESCRIPTION	MODEL	SRO	TIME
N572 Electric supercharger - Renew	Discovery	99.02.01.31	2.5
N572 Electric supercharger - Renew - With <u>D.T.C</u> clear	Discovery	99.02.01.32	2.6
Drive in/drive out	All	02.02.02	0.2

**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.

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## WARRANTY INFORMATION

**NOTES:**

- Only vehicles with the MIL illuminated on the Instrument Panel Cluster Control Module (IPC), due to D.T.C P00B0-49 being stored in the Powertrain Control Module (PCM), must clear the D.T.C's after installing a new electric supercharger and claim either option code C/D for Range Rover, Range Rover Sport and Discovery vehicles or G/H for Range Rover Velar and Defender vehicles. If the MIL is NOT illuminated, option code A/B for Range Rover, Range Rover Sport and Discovery vehicles or E/F for Range Rover Velar and Defender vehicles must be claimed.
- Use the Jaguar Land Rover claims submission system to make sure that a vehicle is eligible for this program prior to undertaking any rework action.

At the time of confirming a booking for vehicle repair, make sure that all open Recall and Service Actions are identified to make sure the correct parts are available and adequate workshop time is allocated for repairs to be completed at one visit.

Warranty claims must be submitted quoting the Program Code and relevant Option Code; this will result in payment of the stated time. The SRO and parts information is included for information only. The option that contains the drive in/drive out allowance may only be claimed when the vehicle has been brought back into the workshop for this action alone to be undertaken.

This program is valid for a limited time only. Warranty claims with a repair date prior to the July 31 2023 closure date must be submitted for payment within 30 calendar days of completion of the repair.

Warranty claims should be submitted in accordance with the current [JLR Global Warranty Manual](#), and its amendments, unless stated otherwise in this bulletin.

PROGRAM CODE	OPTION	DESCRIPTION	MODEL	SRO	TIME	PART NUMBER/SUNDRY CODE	QTY/\$ VALUE
N572	A	N572 Electric supercharger - Renew	Range Rover, Range Rover Sport and Discovery	See table above	See table above	LR140362 LR037935 ZZZ001	1 8 \$32.50
N572	B	N572 Electric supercharger - Renew Drive in/drive out	Range Rover, Range Rover Sport and Discovery	See table above 02.02.02	See table above 0.2	LR140362 LR037935 ZZZ001	1 8 \$32.50
N572	C	N572 Electric supercharger - Renew - With <u>DTC</u> clear	Range Rover, Range Rover Sport and Discovery	See table above	See table above	LR140362 LR037935 ZZZ001	1 8 \$32.50
N572	D	N572 Electric supercharger - Renew - With <u>DTC</u> clear Drive in/drive out	Range Rover, Range Rover Sport and Discovery	See table above 02.02.02	See table above 0.2	LR140362 LR037935 ZZZ001	1 8 \$32.50
N572	E	N572 Electric supercharger - Renew	Range Rover Velar and Defender	See table above	See table above	LR140362 ZZZ001	1 \$6.50

PROGRAM CODE	OPTION	DESCRIPTION	MODEL	SRO	TIME	PART NUMBER/SUNDRY CODE	QTY/\$ VALUE
N572	F	N572 Electric supercharger - Renew Drive in/drive out	Range Rover Velar and Defender	See table above 02.02.02	See table above 0.2	LR140362 ZZZ001	1 \$6.50
N572	G	N572 Electric supercharger - Renew - With DTC clear	Range Rover Velar and Defender	See table above	See table above	LR140362 ZZZ001	1 \$6.50
N572	H	N572 Electric supercharger - Renew - With DTC clear Drive in/drive out	Range Rover Velar and Defender	See table above 02.02.02	See table above 0.2	LR140362 ZZZ001	1 \$6.50

\*Normal Warranty policies and procedures apply.

#### SERVICE INFORMATION

1. Make a note if the MIL light is illuminated on the IPC before completing the Service Instruction.

#### SERVICE INSTRUCTION

1.

**NOTES:**

- Range Rover Velar and Defender vehicles - During the partial cooling system drain, engine coolant must be collected in a clean container and re-used.
- Range Rover, Range Rover Sport and Discovery vehicles - During the partial cooling system drain, engine coolant must not be collected and re-used.

Renew the electric supercharger (see TOPIx Workshop Manual section 303-12D: Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol - Removal and Installation - Electric Supercharger).

- Range Rover Velar, Defender and Discovery vehicles, **continue to Diagnostic Instruction A.**
- Range Rover and Range Rover Sport vehicles **with** the **MIL** illuminated before the Service Instruction was completed, **continue to Diagnostic Instruction B.**
- Range Rover and Range Rover Sport vehicles **without** the **MIL** illuminated before the Service Instruction was completed, **release the vehicle.**

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 DIAGNOSTIC INSTRUCTION A - RANGE ROVER VELAR, DEFENDER AND DISCOVERY
 

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**NOTE:**

Only vehicles with the **MIL** illuminated on the **IPC**, due to **DTC** P00B0-49 being stored in the **PCM**, must clear the **DTC**'s after installing a new electric supercharger and claim either option code C/D for Discovery vehicles or G/H for Range Rover Velar and Defender vehicles. If the **MIL** is NOT illuminated, option code A/B for Discovery vehicles or E/F for Range Rover Velar and Defender vehicles must be claimed.

All vehicles

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1.

**CAUTIONS:**

- This procedure requires a minimum of Pathfinder 337 installed or later.
- All ignition ON/OFF instructions must be followed. Failure to complete these instructions may cause damage to the vehicle control modules.

**NOTE:**

The 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.

Connect the JLR approved battery support unit.

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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.
- Select 'ECU Diagnostics'.
  - Select Turbocharger / Supercharger Control Module (TSCM).
  - Select 'Update ECU'.
  - Follow all on-screen instructions to complete the task.

Vehicles with the **MIL** illuminated before the Service Instruction was completed **ONLY**

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4. Select **PCM**.
- Select 'Clear **DTCs**'.
  - Follow all on-screen instructions to complete the task.

All vehicles

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

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

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7. Disconnect the JLR approved diagnostic equipment and the JLR approved battery support unit.



## DIAGNOSTIC INSTRUCTION B - RANGE ROVER AND RANGE ROVER SPORT

**NOTE:**

Only vehicles with the **MIL** illuminated on the **IPC**, due to **DTC** P00B0-49 being stored in the **PCM**, must clear the **DTCs** after installing a new electric supercharger and claim either option code C or D. If the **MIL** is NOT illuminated, option code A or B must be claimed.

Vehicles with the **MIL** illuminated before the Service Instruction was completed **ONLY**

1.

**CAUTIONS:**

- This procedure requires a minimum of Pathfinder 337 installed or later.
- All ignition ON/OFF instructions must be followed. Failure to complete these instructions may cause damage to the vehicle control modules.

**NOTE:**

The JLR approved diagnostic equipment will read the **VIN** for the vehicle and automatically take the vehicle out of 'Transportation Mode' if required.

Connect the JLR approved battery support unit.

2. Connect the JLR approved diagnostic equipment to the vehicle and begin a new session.
3. Follow the JLR approved diagnostic equipment prompts.
  - Select 'ECU Diagnostics'.
  - Select **PCM**.
  - Select 'Clear **DTCs**'.
  - Follow all on-screen instructions to complete the task.
4. If required, reset the vehicle to 'Transportation Mode'.
5. When all of the tasks are complete, exit the session.

6. Disconnect the JLR approved diagnostic equipment and the JLR approved battery support unit.