

# Special Service Message

NOTE: A Special Service Message is a formal communication issued by Land Rover and carries the same importance of a Technical Service Bulletin. An SSM is a quick method of communicating "Need To Know" information to the technical service community. SSM's may be issued in advance of a technical bulletin or may be the only communication on a given topic. All information contained in Land Rover technical communications are intended for use by trained, professional technicians with the knowledge, tools, and equipment required to complete the procedure correctly and safely. It informs the Technicians of conditions that may occur on some vehicles, or provides information that could assist in correct vehicle and diagnostic service.

SSM 75296 - 3.0 AJ20 P6 - DTC P00B0-49 - Electric Supercharger Concern

**Models :** Defender/L663

Discovery / L462

Range Rover / L405

Range Rover Sport / L494

Range Rover Velar / L560

**Engineer Name :** Skingle Paul

**Name :**

**Last Modified :** 30 MAR 2021 09:10:40

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**Category :** Engine

**Symptom :** 499000 Basic Engine

**Content :** **Issue:**

Malfunction Indicator Lamp (MIL)/Check Engine Light (CEL) occurring at low time in service (typically within the first 500 miles / 800 kilometres), some reports indicate the concern is noted at the Pre Delivery Inspection (PDI) stage. On reading the Diagnostic Trouble Codes (DTCs) using the Jaguar Land Rover approved diagnostic tool (Pathfinder) the following Diagnostic Trouble Code (DTC) is identified in the Powertrain Control Module (PCM). Analysis has shown that in some incidences the DTC is cleared with no further action taken leading to the Customer returning shortly afterwards reporting the same concern.

**P00B0-49** (Turbocharger/Supercharger Boost Control "B" Module Performance – Internal Electronic Failure)

This issue affects the following vehicles fitted with the 3.0 AJ20 P6 engine -

Defender (L663)

Discovery (L462)

Range Rover (L405)

Range Rover Sport (L494)

Range Rover Velar (L560)

**Cause:**

Intermittent failure of the printed circuit board internal to the Electric Supercharger.

**Action:**

If a vehicle is identified with the concern noted in this Special Service Message please do not release the vehicle after clearing the DTC. To permanently resolve the issue please replace the Electric Supercharger as per the process in the TOPIx workshop manual section 303-12: Intake Air Distribution and Filtering - INGENIUM I6 3.0L Petrol – Removal and Installation – Electric Supercharger.

Upon completion of the repair, please where possible, raise an Electronic Product Quality Report (EPQR).

**Care Point:**

**EVA2** vehicles Defender (L663), Discovery (L462), Range Rover Velar (L560), ensure the latest software is applied to the replacement Electric Supercharger.

1. Connect the Jaguar Land Rover approved battery support unit.
2. Connect the Jaguar Land Rover approved diagnostic tool to the vehicle and begin a new diagnostic session.

The Jaguar Land Rover approved diagnostic tool will read the correct VIN for the current vehicle and automatically take the vehicle out of 'Transportation mode' if required.

3. Follow the Jaguar Land Rover approved diagnostic tool prompts.
4. Select 'ECU Diagnostics'
5. Select 'Turbocharger / Supercharger Control Module [TSCM]'
6. Select 'Update ECU'

***Note: If the 'Update ECU' option is 'greyed out' then no further action is required as this denotes that the ECU is already at the latest software level.***

7. Follow all on-screen instructions to complete this task.
8. If required, reset the vehicle to 'Transportation mode'
9. When the task is completed, exit the current session.
10. Disconnect the Jaguar Land Rover approved diagnostic tool and the Jaguar Land Rover approved battery support unit.