

To fit:

Range Rover (L405), Range Rover Sport (L320, L494)



EN

Additional water pump

Problem

Reduced engine performance and/or cylinder misfire when under load and at high road speed. The engine warning lamp is illuminated, related to the symptoms listed above.

These possible fault codes may be stored in the engine ECU (engine control unit):

P0096 - IAT (air intake temperature) sensor 2 circuit malfunction.

P2601 - Coolant pump A - control circuit performance.

Cause

On Range Rover (LM) Supercharged 6A198058 to 7A261419 and Range Rover Sport (LS) Supercharged 6A901924 to 7A109767 vehicles, the electrical harness positive supply and the negative within the connector C3006, for the auxiliary water pump, may have been manufactured incorrectly. The two wires within the electrical connector for the water pump were wired incorrectly, causing the pump to run in the opposite direction. The ECU will reduce engine performance to prevent damage to the engine because of the decreased coolant flow.

Solution

Using a voltmeter, check the positive and negative wiring orientation within connector C3006. If found to be wired incorrectly, use a terminal extractor tool and swap cavity 1 and cavity 2 wires to the correct positions.

The correct orientation for the Range Rover Sport (LS) is:

- Black (B) wire in Cavity 1 connected to negative pump connection
- Brown and Purple (NP) wire in Cavity 2 connected to positive pump connection

The correct orientation for the Range Rover (LM) is:

- Brown (N) wire in Cavity 1 connected to negative pump connection
- Red and White (RW) wire in Cavity 2 connected to positive pump connection

Afterwards, replace the auxiliary water pump and top-up the cooling system with the correct coolant. Clear any fault codes relating to the symptoms with a suitable diagnostic tool.

For more technical information please visit: partsfinder.bilsteingroup.com