

Reference SSM49537

Discovery 4
Models Discovery 3
Range Rover Sport
New Range Rover

Title Turbocharger Actuator Arm Corrosion

Category Engine

Last modified 18-May-2011 00:00:00

Symptom 404000 Fuel System Concerns

Issue: A customer may report a loss of engine power and/ or the Check Engine Lamp (CEL) may be illuminated. A Powertrain Control Module (PCM) fault code read may display a turbocharger boost pressure related fault as a result of a seized actuator arm.

Cause: The actuator arm pivot points can corrode leading to full or partial seizure of the actuator arm mechanism.

Action: Following diagnosis, if the cause of the concern is corrosion of the actuator arm pivot, turbocharger replacement is no longer necessary as a lower level part is now available from Caterpillar.
Part numbers are as follows:

Actuator Service kit (Discovery 3/ 4, Range Rover Sport 2.7 TDV6) - LR023086
Actuator Service kit (Range Rover Sport 3.6TDV8 R/H) - LR023087
Actuator Service kit (Range Rover Sport 3.6TDV8 L/H) - LR023088
Content Actuator Service kit (Range Rover 3.6TDV8 R/H) - LR023089
Actuator Service kit (Range Rover 3.6TDV8 L/H) - LR023090

Please refer to TOPIx Workshop Manual Section 303-04 Fuel Charging & Controls -Turbo Actuator Rod that describes the repair procedure.

Service Repair Operation (S.R.O) are now listed on the Repair Time Searcher (RTS) as follows:

Rod-turbocharger-actuator renew; Discovery 3/4/ Range Rover Sport/ Range Rover L/H; 19.42.79
Rod-turbocharger-actuator renew; Range Rover Sport/ Range Rover R/H; 19.42.80
Rods - turbocharger actuator - set - renew range Rover Sport, Range Rover pair; 19.42.81

Please check model year & derivative for appropriate time allocation.