



Technical Service Bulletin

No.LS303-015

15 May 2006

Subject/Concern: Range Rover Sport - Engine System Fault Message Displayed with DTC P061A-29

Models:

Range Rover Sport (LS)	Engine: 4.2L Supercharged AJV8	VIN-range: 5A901924-6A958472
------------------------	--------------------------------	------------------------------

Markets: All **Section:** 303-14

Summary:

A customer may report a concern of reduced engine performance and the message 'Engine System Fault' displayed (which may have cleared following the next ignition cycle). Diagnostic trouble codes (DTCs) will be logged within the engine control module relating to 'Internal Control Module Torque performance' (P061A-29).

Cause: A software calibration sensitivity issue incorrectly detects a difference between the values generated by the two methods used for calculating engine torque, resulting in the engine entering limp-home mode.

Action: On a **customer concern basis only** regarding the above, refer to the Service Procedure detailed in this bulletin to update the engine control module software.

Special Service Tools

Integrated diagnostic system (IDS) with DVD 100 or later and the latest patch file installed(available on GTR). IDS

Worldwide diagnostic system (WDS) with LRCD 13 or later and the latest patch file installed (available on GTR). WDS

Labour Time:

Operation Description	Operation No.	Time
Tune Download	12.90.13	0.20 hours

Repair/Claim Coding:

Causal Part:	NNN500411
ACES Condition Code:	07
Defect Code:	

Service Procedure

1. If WDS has previously had the patch file (WDS CD13 - Patch File 5) installed, or the integrated diagnostic system (IDS) with DVD 100 and patch file 2 is being used continue from step 4. For information on how to confirm that the patch file has been installed onto WDS/IDS, refer to the patch process help file detailed in step 2.
2. **NOTE:** The software patch installation help file provides instructions for the patch file installation process and could take up to six minutes to download dependent on connection speed.

Download the WDS/IDS software patch installation help file from GTR:

1. Logon to GTR.
2. Select 'Home' from the menu at the top of the main page.
3. From the menus on the left of the page, select 'Diagnostics' as the 'Information Type' and select the relevant model and model year.
4. From the 'All Information' results, select 'Patch Files'.
5. Click the file link 'Patch Process Help File'.

3. **NOTE:** This could take up to twenty minutes to download dependent on connection speed.

Using the above help file, follow the instructions to download and install the software patch file into WDS/IDS and ensure WDS/IDS successfully restarts.

4.  **CAUTION: Ensure a suitable battery charger is connected to the vehicle battery during diagnosis/module configuration.**



CAUTION: Ensure that the diagnostic lead is correctly secured and cannot be accidentally disconnected during software update.

Connect the diagnostic equipment to the vehicle and begin a WDS or IDS session by entering the correct VIN for the current vehicle.

5. Note the current software levels of the engine control module:
 1. Follow the prompts to read the vehicle configuration.
 2. When prompted "Do you wish to read diagnostic trouble codes?", select "NO" and then press 'tick' to continue.
 3. When the "Content Model" is displayed, select the 'Vehicle Configuration' tab.
 4. Select 'Module Information'
 5. Select 'Network integrity test'
 6. Note the software part numbers displayed on the screen.

- 6. NOTE:** During module configuration, check the on-screen software part number information that WDS/IDS will display during this step and compare to the software part number noted in step 5 above. If the same tune level is displayed, the vehicle already has the desired software level and the tune download process can be aborted.

Configure the control module:

1. Return to the 'Vehicle Configuration' screen and select 'Module Configuration'
 2. Select 'Configure Existing Modules'. From the sub-menu, select 'Engine Control Module'
 3. Check the tick-box to continue and follow the on-screen instructions.
- 7.** Repeat step 5 to confirm the software level change.
- 8.** Exit the WDS/IDS session and disconnect the diagnostic equipment from the vehicle.