

Reference	SSM71278
Models	Discovery Sport / L550 Range Rover / L405 Range Rover Evoque / L538 Range Rover Sport / L494
Title	Vehicle Steering Feels Heavier than expected
Category	Chassis
Last modified	03-Feb-2016 00:00:00
Symptom	303000 Steering/Handling
Attachments	1111Ground Points.pdf (1111Ground Points.pdf)
Content	<p>Issue: A customer may report the vehicle steering feels heavy potentially accompanied by visual or audible warnings through the instrument pack. The following DTCs may also be logged: EPAS DTCs logged: -B1304-16: Electronic Power Assisted Steering (EPAS) system circuit voltage below threshold -U3001-00: Power Steering Control Module (PSCM) system improper shutdown. These may be accompanied by: -U0001-87 / 88 High speed CAN bus invalid serial data received / missing message. CHCM DTCs logged: -U0131-00 Chassis Control Module (CHCM) lost comms with PSCM. -U3003-62 Battery voltage signal compare failure. -U0420-68 CHCM invalid data received from PSCM. -B1304-04 Electronic Power Assisted Steering System - System Internal Failures</p> <p>Cause: This may be caused by: -Low battery voltage. -Wiring harness issue (short / open circuit, high resistance). -High resistance at EPAS earth terminal (for L405/L494) G1D132 and or G4D178, (see attached diagram). Or if on L550/L538 high resistance at G1D122A, G1D122B, G1D122AZ and G1D108. -Poor connection or pin set condition at connector number: C11-G1</p> <p>Action: -Using SDD please check the CHCM and EPAS for any DTC -Confirm the vehicle battery condition is OK -Confirm ignition and main feed fuses are secure.</p>

- Check and clean the following earth terminals **L405/L494**:G1D132 & G4D178
L550/L538: G1D122A, G1D122B, G1D122AZ and G1D108. Replace the washer if found to be corroded and re-tighten retaining fixings.
- Refer to the electrical circuit diagrams (211.02 in TOPIx) and check the power steering control module power feed circuit for short circuit to ground, open circuit, high resistance.
- Disconnect C11-G1 and confirm pin condition with a pin drag test. Ensure when re-connecting that it has securely latched