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| Reference | SSM66617 |
| Models | Range Rover Sport / L320<br>LR2 / L359<br>Range Rover Evoque / L538<br>Range Rover (All New) / L405<br>LR4 / L319<br>Range Rover / L322<br>Range Rover Sport / L494 |
| Title | Charging vehicles fitted with Battery Monitoring System |
| Category | Electrical |
| Last modified | 26-Jun-2013 00:00:00 |
| Symptom | 203000 Basic Electrical |
| Content | **Issue:** A customer may report a concern with a flat battery or poor starting; when testing the battery it is determined that a charge is required.<br>**Cause:** When charging a battery (both primary and secondary) with a BMS (battery monitoring system) fitted, the earth from the charger must be connected to a suitable chassis or engine earth (check Topix for appropriate location). This allows the BMS to see the current going into the battery. However when using a diagnostic charger from Midtronics such as GR1, GRX GR8(110 volts)this connection process can cause an incorrect battery analysis due to the extra resistance in the wiring when connected to a chassis or engine earth.<br>**Action:** When using a Midtronics GR1, GRX or GR8 you are required to remove both battery leads from the vehicle to carry out correct analysis and charge to the battery. **DO NOT** connect the diagnostic charger to any other circuit or chassis point other than the battery negative terminal as advised in the Battery Care Requirements.<br>**Battery replacement if stated on Diagnostic charger:** If it is determined that a battery requires replacement, always refer to the appropriate section of the workshop manual for instructions on removing and installing the battery from the vehicle.<br>Vehicles fitted with a Battery Monitoring System (BMS), the BMS module must be reset following the installation of a new battery. The BMS module reset procedure must be performed using an approved diagnostic system.<br>**Care points:** Reset customer settings as appropriate after battery disconnection from the vehicle. |