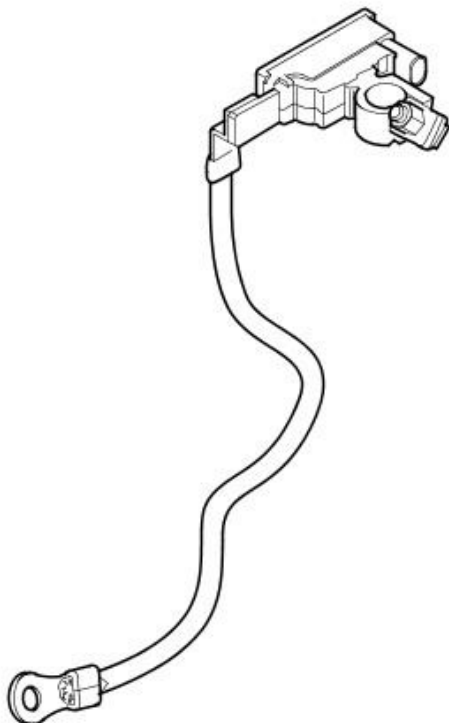


current drain during delivery. The relay must be removed before delivery to the customer. For more information, refer to the PDI (pre-delivery inspection) manual.

Battery Monitoring System



E98130

The battery monitoring system module measures battery current and voltage, which it communicates to the **CJB (central junction box)** over a **LIN (local interconnect network)** bus connection. The **CJB** transmits the battery information to the instrument cluster over the medium speed **CAN (controller area network)** bus. The instrument cluster acts as a gateway between the medium and high speed **CAN** bus networks, and transmits the battery condition information to the **ECM (engine control module)** over the high speed **CAN** bus. Based on the information received from the battery monitoring system module, the **ECM** will control the output from the generator and request the switching off of electrical loads if necessary. For additional information, refer to: [Generator](#) (414-02 Generator and Regulator - V8 5.0L Petrol/V8 S/C 5.0L Petrol, Description and Operation).



CAUTION: Due to the self-calibration routine, it is recommended that all power supply diagnostic testing is carried out using the Jaguar approved diagnostic system rather than a digital multimeter.

The battery monitoring system module is able to generate **DTC (diagnostic trouble code)**'s to help diagnose battery or generator power supply issues. These **DTC**'s can be read using the Jaguar approved diagnostic system. The Jaguar approved diagnostic system can also be used to implement a battery and generator self test routine. For additional information, refer to: Battery (414-01, Diagnosis and Testing).

If a fault is detected, the **ECM** will override the battery monitoring system module.

The battery monitoring system module **DTC**'s can be used to help diagnose battery or generator power supply faults. The **DTC**'s are stored in both the **CJB** and the **ECM**. The Jaguar approved diagnostic system has a process for an automated power supply diagnostic procedure. The procedure provides a menu driven process to locate a fault in a logical sequence. The procedure uses the capability of the battery monitoring system and generator **LIN** bus controlled functions to provide current flow information and will detect if the battery monitoring system or generator are functioning correctly.