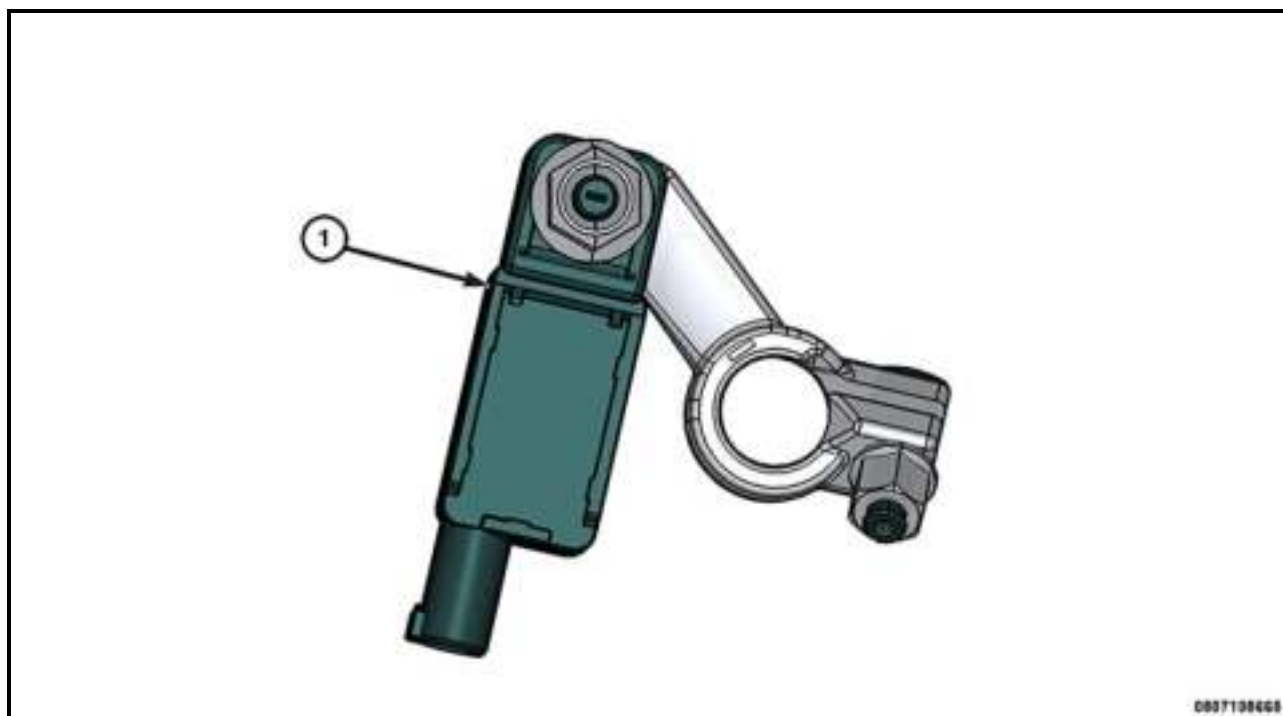


08 - Electrical / 8F - Engine Systems / Battery System / SENSOR, Intelligent Battery (IBS) / Description**DESCRIPTION**

The Intelligent Battery Sensor (IBS) (1) is a device used to measure battery current, voltage, and temperature whose outputs are used in the energy management strategy.

The mechanical portion of the IBS is comprised of the battery clamp for the negative terminal and a captured bolt to attach the ground cable to. The functional tasks include establishing the electrical contact between the body and the negative battery post, housing the electronic module (actual sensor element) and the provision of an adequate thermal contact between the sensor system temperature sensor and the negative battery post. The mechanical portion of the IBS also protects the sensitive electronic components from external influences.

The IBS is mounted directly on the 12 volt DC battery's negative post. The battery post clamp nut is a captive nut and the stud will break if the nut is removed.