BANK ANGLE SENSOR OPERATION

1. When ignition switch is turned ON, power flows through the latch-up circuit, turning the engine stop relay drive transistor ON.
2. With drive transistor ON, current from engine stop relay flows through the bank angle sensor transistor to ground. Engine stop relay turns ON.
3. When the vehicle is tipped more than 49 ± 4°, magnet in the sensor pendulum closes the reed switch.
4. When the reed switch is ON, drive transistor is turned OFF, opening the circuit between the engine stop relay and ground. This stops power to fuel pump and PGM-FI system.
5. Once the vehicle is tipped more than 49 ± 4°, latch-up circuit keeps the drive transistor OFF, even the vehicle is set upright.

   To turn the drive transistor ON, reset the latch-up circuit by turning the ignition switch OFF.