



TECH TIPS

Dixie Part Numbers:	A-1645	A-1705	A-1758	A-6548
	S-1468	S-1490	S-1511	S-8997
	S-80060	TBA		

Applications: 2007 – 2009 Cadillac Escalade (including ESV and EXT)
2007 – 2009 Chevrolet Avalanche
2007 – 2009 Chevrolet Silverado
2007 – 2009 Chevrolet Suburban
2007 – 2009 Chevrolet Tahoe
2007 – 2009 GMC Sierra
2007 – 2009 GMC Yukon (including XL)

Condition: The operator of the vehicle may complain of one or more of the following conditions:

- The engine continues to run after the key is removed from the ignition
- The airbag (SIR) malfunction lamp is illuminated

The technician may observe that one or more modules may be damaged (transmission control module, engine control module or the sensing diagnostic module).

Cause: A potential cause for the above condition is the addition of aftermarket accessories with relays or solenoids *and* that they are wired improperly into the vehicle ignition system. When a solenoid or relay is switched off the magnetic field stored with in the solenoid or relay produces a significant transient voltage spike that, if not properly controlled, can permanently damage other sensitive devices in the circuit.

Correction: When installing aftermarket accessories that use a relay or solenoid the circuit must have a diode to suppress the transient voltages. The manufacturer has released a diode to install on solenoids and relays when required (part number 121124222). The stripped end (white trace) of the diode is to be connected to the switched positive terminal of the solenoid or relay and the other end is to be connected.