



# TECH TIPS

**Dixie Part Numbers:** TBA

**Applications:** 2009 Cadillac CTS

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

- the service engine soon light coming on.
- a variety of electrical problems
- engine running rough

The technician may observe diagnostic trouble codes stored in the system relating to the engine misfiring.

**Cause:** A potential cause for the above condition is various locations where the engine wiring harness is chaffing and shorting to ground intermittently from the engine vibrating.

**Correction:** Inspect the wiring harness at the following locations:

- At the third cam shaft cover bolt, this will require the loom (tape) to be opened as the damage may not be visible without removing the wrapping. Typically issues with the wiring in this area would cause the light to come on, the engine to run rough and to misfire.
- At the heater hose bracket, if the wiring harness was twisted during assembly it may be chaffing against the bracket. Typically this area would cause the service engine soon light to come on, the engine to run rough diagnostic codes P0300, P0301, P0303, P0305 or others to show up when scanning the system.
- At the fuel line crimping, the fuel line crimp may chaff the harness. Typical issues in this area would result in the service engine soon light coming on and a variety of diagnostic trouble codes being retained including but are not limited to P0325, P0326, P0335 or P0336.



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- At the crank position sensor harness, if too taught the wires may be chaffing against the G132 engine contact boss. Typical issues in this area would result in the service engine soon light coming on and a variety of diagnostic trouble codes being retained including but are not limited to P0325, P0326, P0335 or P0336.
- At the underhood buss electrical connector combination branch of the engine harness may rub on the vacuum pump bracket, especially when the harness protrudes from the bottom of the loom and the inner radius is close to the vacuum pump bracket.
- Vehicles equipped with a 3.6L engine may have the engine control module harness routed improperly.

Follow the manufacturer's recommended procedures for diagnosing and correcting each of these issues.

