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Diagnosis SSCC

Symptom

- Clearly identify the concern
- Identify the conditions in which the concern occurs
- System
 - Identify all possible systems
 - Narrow possible systems with test drive and preliminary inspections
- Component
 - Guided diagnosis within the identified system to pinpoint the component which has failed
- Cause
 - The technician must identify the cause of the failure to prevent a reoccurrence of the Concern

Examples of SSCC

Symptom

- Vehicle lacks power
- Any type of acceleration engine hot or cold
- System
 - Base engine, exhaust, fuel, ignition, transmission...
 - Correct gear ratios and torque converter operation rule out transmission.
 Vacuum test results in range rules out Base engine and exhaust.
 - Fuel and ignition.
- Component
 - Guided diagnosis leads to fuel pressure test.
 - Fuel pressure Specifications: 30-38psi KOEO
 - Fuel pressure Actual: 15-18psi KOEO
 - Component: Fuel pump

Cause

- > Fuel contamination has damaged fuel pump.
- Drained and cleaned tank during fuel pump replacement.























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Ground Side Switches

- Power steering Pressure - PSP
- Clutch pedal position -CPP
- Park neutral position -PNP
- Idle position
- Wide open throttle













Hall Effect

- The hall element produces a small voltage signal when exposed to a magnetic field and the signal stops when the magnetic field is blocked
- A Schmidt trigger inverts the signal
- Crankshaft position CKP
- Camshaft Position CMP









Oxygen Sensor

- Titanium types
- Rich mixture high voltage
- Lean mixture low voltage
- Oxygen sensor O2S
- Heated oxygen sensor
 HO2S Zirconium and













