



# TECH TIPS

**Dixie Part Numbers:** TBA

**Applications:** 2009 Chevrolet Aveo  
2009 Pontiac G3  
2009 Pontiac Wave (Canadian Models)

**Condition:** The operator of the vehicle may complain that on an intermittent basis the engine will not crank or start when the key is turned to the start position and that the service engine light is on. The technician may observe one or more of the following diagnostic trouble codes stored in the system:

- P0604
- P0606
- P16F3

**Cause:** There are several possible causes for the above condition including but not limited to:

- an outdated calibration file in the engine control module
- an incorrectly positioned transmission gear selector lever
- loose or poor grounds at the following locations:
  - G101 behind the right headlight
  - G102 behind the left headlight left of the battery
  - G103 below the ECM
  - G104 beside the starter motor
  - G401 under the rear luggage shelf on the left side
- a low or faulty battery
- a poorly connected factory installed anti-theft system
- a damaged ignition switch
- a faulty engine control module
- an instrument cluster with a quiescent draw of more than 100 mA
- an instrument cluster that intermittently drops to zero with the engine running
- a failed smart junction block

**Correction:** Follow the manufacturer's recommended troubleshooting and repair procedures.