



# TECH TIPS

**Dixie Part Numbers:** S-1462

**Applications:** 2002 Oldsmobile Alero 3.4L VIN E built on or after the VIN below  
2002 Pontiac Grand Am 3.4L VIN E built on or after the VIN below

- built in Lansing location M VIN 2M522272 and higher
- built in Lansing location C VIN 2C122774 and higher

**Condition:** No start, no cranking or slow cranking.

**Cause:**

The PCM in the above applications was modified as a running change. The above applications have the starter crank cycle controlled by the PCM.

The PCM will not allow the starter to function if it receives a signal for:

- the anti-theft system
- that the transmission is not in park (neutral)
- poor contact at the shifter switch
- the starter relay fails to make contact
- high wire resistance (corrosion over time)

**Correction:**

When checking for no start or hard starting, follow the manufacture's recommended diagnostic procedures.