



# TECH TIPS

**Dixie Part Numbers:** S-80464

**Applications:** 2009 – 2010 Pontiac Vibe

**Condition:** The operator of the vehicle may complain that the starter cranks but does not start or cranks slow and hard. The technician may find one or more of the following diagnostic trouble codes stored in the Power-train Control Module:

P0012      P0015      P0016      P0017      P0340

**Cause:** A potential cause for the above condition is that the crankshaft position sensor may have a damaged reluctor. The reluctor was made of 2 parts a “gear” and a “washer” that were welded together. The “washer” has the indexing feature to properly position the “gear” on the shaft and has been found to be fracturing at the weld.

**Correction:** Follow the manufacturer’s recommended diagnostic and repair procedures if applicable.

