



TECH TIPS

Dixie Part Numbers: A-80000, S-8457 and S-8745

Applications: 2003 – 2004 Toyota Tundra 3.4L V6 (5VZ-FE)

Condition:

On some applications the customer may complain of intermittent extended or hard crank conditions. Repeated alternator failures or starter failures due to burning out.

Cause:

Toyota revised the engine block grounding wire and positive wiring to reduce the voltage drop between the engine and battery and the starter and alternator and the battery. The high voltage drop results in energy loss between the starter and battery and alternator and battery and causes them to be inefficient and eventually burn out if not addressed.

Correction:

Use a digital multimeter with a hold function and verify that there is a high voltage drop on the wiring. Connect one end of the meter to the battery negative post and the other to the starter frame. Have an assistant crank the car and note the voltage reading. Check the voltage on the positive side from the battery positive terminal to the starter positive terminal. Perform the same test on the charging system except to the alternator output post and the alternator frame (ground). A reading of more the 0.2V is an excessive drop. Before replacing the leads check all connections that they are tight and not corroded. If they are tight and not corroded the harness needs to be replaced. Follow the manufacturer's recommended procedures for changing the harness. The old harness part number was 82122-0C011 and the new harness is 82122-0C120.

