



NAPA Tech TIPS

SUPPORTING TODAY'S PROFESSIONAL TECHNICIAN

10 Step Driveability Test

Application: All Electronic Computer Controlled Vehicles

Problem: Driveability problems continue after ECM replacement.

Cause: 80% of drivability problems are engine related.

Solution: Before condemning the replacement ECM, check for computer codes and correct any indicated problems, then perform this 10 Step Drivability Check list.

- Check List:**
- 1. Check vehicle and all ECM grounds using voltage drop test method (see TECH TIP TT 77-0008).
 - 2. No-load battery voltage should be 12.46 to 12.66 volts.
 - 3. Cranking voltage must be 9.5 volts or higher.
 - 4. Charging voltage from 13.2 to 14.7 and charge current within 10 amps of related alternator output.
 - 5. Check distributor primary and secondary voltage at idle and 2500 RPM.
 - 6. Check base and advance timing at idle and 2500 RPM.
 - 7. Vacuum level and volume at idle and 2500 RPM.
 - 8. Fuel pressure and volume at idle and under load.
 - 9. O2 sensor switching at idle and 2500 RPM.
 - 10. Check manufacturer's Technical Service Bulletins for revised ECM, updated PROM(GM), or related components.