10 Step Drivability Test

**Application:** All Electronic Computer Controlled Vehicles

**Problem:** Drivability 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 Driveability Check list.

**Check List:**

1. Check vehicle and all ECM grounds using voltage drop test method
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.