



# CARDONE ProTech

Supporting Today's Vehicle Technician

## 10 Step Driveability 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 (see ProTech PT 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.

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