

## 6E2-14 ELECTRONIC FUEL & CROSSFIRE INJECTION

- b. Visually check the following:
    - (1) Vacuum hoses for splits, kinks and proper connections. See Hose Routing Schematic, Vehicle Emission Control Information Label.
    - (2) Air leaks at throttle body mounting and intake manifold.
    - (3) Ignition wires for cracking, hardness and proper connections. Repair or replace as necessary.
  - c. See EFI Diagnosis chart 7.
  - d. Check ignition timing per Emission Control Information Label. Check EST operation if applicable.
  - e. Check throttle body fuel inlet filter. Replace if dirty or plugged.
  - f. Check fuel supply system, see EFI Diagnosis chart 5 or 5A.
  - g. Remove spark plugs. Check for cracks, wear, improper gap, burned electrodes, heavy deposits. Repair or replace as necessary.
  - h. Check EGR system. Refer to Section 6E1 for EGR functional checks.
9. Sluggish or Spongy
- a. Remove air cleaner and check air filter for dirt or being plugged. Replace as necessary.
  - b. Check thermostatic air cleaner damper door operation using procedures in Section 6E1.
  - c. Check ignition timing per Emission Label.
  - d. Check EGR operation - Section 6E1.
  - e. Check EST operation, see EFI Diagnosis chart 6A.
  - f. Check MAP sensor output as applicable. See EFI Diagnosis charts 33 and 34.
  - g. Remove spark plugs. Check for cracks, wear, improper gap, burned electrodes, heavy deposits. Repair or replace as necessary.
  - h. Check for an exhaust system restriction.  
With the engine at operating temperature, connect the vacuum gage to any convenient vacuum port on the intake manifold. Run the engine at 1000 RPM and record the vacuum reading. Increase RPM slowly to 2500. Observe the vacuum gage while holding the throttle steady at 2500 RPM. If vacuum has dropped, the exhaust system should be inspected for restrictions.
10. Poor Gasoline Mileage
- a. Check thermostatic air cleaner operation using procedures in Section 6E1.
  - b. Visually check the following:
    - (1) Vacuum hoses for splits, kinks and proper connections. See Hose Routing Schematic, Vehicle Emission Control Information Label.
    - (2) Air leaks at throttle body mounting and intake manifold.
    - (3) Ignition wires for cracking, hardness and proper connections. Repair or replace as necessary.
  - c. Check ignition timing per Emission Control Information Label.
  - d. See EFI Diagnosis chart 7.
  - e. Check EST operation, see EFI Diagnosis chart 6A.
  - f. Check MAP sensor output as applicable.
  - g. Remove spark plugs, check for cracks, wear, improper gap, burned electrodes, heavy deposits. Repair or replace as necessary.
  - h. Suggest owner fill tank and recheck mileage.
11. Cuts Out
- a. Check ignition wires, boots, cap and coil for:
    - (1) Damage
    - (2) Deterioration
    - (3) Loose connections
  - (4) Carbon tracking, clean. Tighten and/or defective parts as necessary.
- b. See EFI Diagnosis chart 7.
- c. Check ignition system "Intermittent Operation Miss" - Section 6D. Check distributor for:
  - (1) Worn shaft
  - (2) Bare or shorted wires. Repair or replace parts as necessary.
  - (3) Ignition coil for intermittent primary current (or ground on integral coil units).
- d. Remove spark plugs. Check for cracks, wear, improper gap, burned electrodes, heavy deposits. Repair or replace as necessary.
- e. Check fuel inlet filter. Replace if dirty or plugged.
- f. Test fuel pump pressure. See "On-Car Service" for procedure.
12. Hard Starting - Cold (Engine Cranks OK)
- a. If engine won't run, see EFI Diagnostic chart 6.
  - b. Visually check the following:
    - (1) Vacuum hoses for splits, kinks and connections. See hose routing charts on label.
    - (2) Air leaks at throttle body mounting and manifold.
    - (3) Ignition wires for cracking, hardness, connections, and carbon tracking. Repair or replace as necessary.
  - c. Check ignition timing per Emission Information Label.
  - d. Check EST operation, see EFI Diagnosis chart 6A.
  - e. Check ignition system - Section 6D. Check for:
    - (1) Worn shaft.
    - (2) Bare and shorted wires.
    - (3) Repair or replace as necessary.
    - (4) Pickup coil resistance and connections.
  - f. Remove spark plugs. Check for cracks, wear, improper gap, burned electrodes, heavy deposits. Repair or replace as necessary.
  - g. Test fuel pump pressure. See "Fuel Pressure Test" for procedure.
13. Hard Starting - Hot (Engine Cranks OK)
- a. If engine won't run, see EFI Diagnosis chart 6.
  - b. Visually check the following:
    - (1) Vacuum hoses for splits, kinks and connections. See Hose Routing Schematic, Emission Control Information Label.
    - (2) Air leaks at carburetor mounting manifold.
    - (3) Ignition wires for cracking, hardness, connections, and carbon tracking. Repair or replace as necessary.
  - c. Check ignition system, Section 6D. Check for:
    - (1) Worn shaft.
    - (2) Bare and shorted wires.
    - (3) Faulty pickup coil or connections, ignition coil, and condenser. Repair or replace as necessary.
  - d. Remove spark plugs. Check for cracks, wear, improper gap, burned electrodes, heavy deposits. Repair or replace as necessary.
  - e. Also check step g - Hard Starting - Cold Start - Section 6D. Refer to the appropriate section of the manual for these procedures.