

FUEL SYSTEM (Programmed Fuel Injection)

CAUTION:

- Do not apply commercially available carburetor cleaners to the inside of the throttle bore, which is coated with molybdenum.
- Do not snap the throttle valve from full open to full close after the throttle cable has been removed. It may cause incorrect idle operation.
- Seal the cylinder head intake ports with tape or a clean cloth to keep dirt and debris from entering the intake ports after the throttle body has been removed.
- Do not damage the throttle body. It may cause incorrect throttle and idle valve synchronization.
- Prevent dirt and debris from entering the throttle bore, fuel hose and return hose, clean them using compressed air.
- The throttle body is factory pre-set. Do not disassemble in a way other than shown in this manual.
- Do not loosen or tighten the white painted bolts and screws of the throttle body (except wax unit mounting screws). Loosening or tightening them can cause throttle and idle valve synchronization failure.
- Tighten the yellow painted bolts and screw of the throttle body to the specified torque. Yellow painted parts of the throttle body not shown in this manual should not be disassembled.
- Do not push the fuel pump base under the fuel tank when the fuel tank is stored.
- Always replace the O-ring when the fuel pump is removed.

NOTE:

- The programmed fuel injection system is equipped with the Self-Diagnostic System described on page 5-8. If the warning indicator blinks, follow the Self-Diagnostic Procedures to remedy the problem.
- When checking the PGM-FI, always follow the steps in the troubleshooting flow chart (page 5-12).
- The PGM-FI system is provided with fail-safe function to secure a minimum running capability even when there is any trouble in the system. When any abnormality is detected by the self-diagnosis function, running capability is secured by making use of the numerical values of a situation preset in advance in the simulated program map. It must be remembered, however, that when any abnormality is detected in four injectors and/or the ignition and cam pulse generator, the fail safe function stops the engine from the standpoint of protecting it.
- For PGM-FI system location, see page 5-4, 6.
- A faulty PGM-FI system is often related to poorly connected or corroded connectors. Check those connections before proceeding.
- For fuel level sensor inspection, see section 19.
- The vehicle speed sensor sends digital pulse signal to the ECM (PGM-FI unit) and computation. For vehicle speed sensor inspection, see section 19.
- When disassembling the programmed fuel injection parts, note the location of the O-rings. Replace them with new ones upon reassembly.
- Before disconnecting the fuel tube, release the fuel pressure by loosening the service check bolt at the fuel tank.
- Always replace the sealing washers when the fuel tube banjo bolt is removed or loosened.
- Use a digital tester for PGM-FI system inspection.

SPECIFICATIONS

| ITEM | | SPECIFICATIONS |
|---|----------------------|---|
| Throttle body identification number | 49 state/Canada type | GQ 40 D |
| | California type | GQ 40 B |
| Starter valve vacuum difference | | 20 mm Hg |
| Base throttle valve for synchronization | | No. 3 |
| Idle speed | | 1,100 ± 50 rpm |
| Throttle grip free play | | 2 - 6 mm (1/16 - 1/4 in) |
| Intake air temperature sensor resistance (at 20°C/68°F) | | 1 - 4 kΩ |
| Engine coolant temperature sensor resistance (at 20°C/68°F) | | 2.3 - 2.6 kΩ |
| Fuel injector resistance (at 20°C/68°F) | | 13.0 - 14.4 kΩ |
| PAIR solenoid valve resistance (at 20°C/68°F) | | 20 - 24 Ω |
| Cam pulse generator peak voltage (at 20°C/68°F) | | 0.7 V minimum |
| Ignition pulse generator peak voltage (at 20°C/68°F) | | 0.7 V minimum |
| Manifold absolute pressure at idle | | 200 - 250 mm Hg |
| Fuel pressure at idle | '99: | 294 kPa (3.0 kgf/cm ² , 43 psi) |
| | After '99: | 343 kPa (3.5 kgf/cm ² , 50 psi) |
| Fuel pump flow (at 12 V) | | Minimum 220 cm ³ (7.4 US oz., 7.7 Imp oz) for 10 seconds |