CO	HC	Problems	Causes
Normal	High	Rough idle	1. Faulty ignitions: • Incorrect timing • Fouled, shorted or improperly gapped plugs • Open or crossed high-tension cords • Cracked distributor cap 2. Incorrect valve clearance 3. Leaky intake and exhaust valves 4. Leaky cylinders
Low	High	Rough idle (Fluctuating HC reading)	1. Vacuum leaks: • PCV hose • Intake manifold • Throttle body • Air valve • Brake booster line 2. Lean mixture causing misfire
High	High	Rough idle (Black smoke from exhaust)	1. Restricted air filter 2. Faulty EFI system: • Faulty fuel pressure regulator • Clogged fuel return line • Defective water temperature sensor • Defective intake air temperature sensor • Faulty engine ECU • Faulty injectors • Faulty throttle position sensor • Defective vacuum sensor

V07366

COMPRESSION CHECK

EG659-02

HINT: If there is lack of power, excessive oil consumption or poor fuel economy, measure the compression pressure.

1. **WARM UP AND STOP ENGINE**
   Allow the engine to warm up to normal operating temperature.
2. **DISCONNECT IIA CONNECTORS**
3. **DISCONNECT HIGH–TENSION CORDS FROM SPARK PLUGS**
4. **REMOVE SPARK PLUGS**
   Remove the 4 spark plugs.

