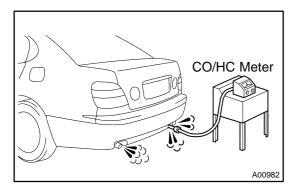
## CO/HC INSPECTION

## HINT:

This check is used only to determine whether or not the idle CO/ HC complies with regulations.

- 1. INITIAL CONDITIONS
- (a) Engine at normal operating temperature
- (b) Air cleaner installed
- (c) All pipes and hoses of air induction system connected
- (d) All accessories switched OFF
- (e) All vacuum lines properly connected
- (f) SFI system wiring connectors fully plugged
- (g) Ignition timing checked correctly
- (h) Transmission in neutral position
- (i) Tachometer and CO/HC meter calibrated by hand



- 2. START ENGINE
- 3. RACE ENGINE AT 2,500 RPM FOR APPROX. 180 SE-CONDS
- 4. INSERT CO/HC METER TESTING PROBE AT LEAST 40 cm (1.3 ft) INTO TAILPIPE DURING IDLING
- 5. IMMEDIATELY CHECK CO/HC CONCENTRATION AT IDLE AND/OR 2,500 RPM

Complete the measuring within 3 minutes. HINT:

When performing the 2 mode (2,500 rpm and idle) test, follow the measurement order prescribed by the applicable local regulations.

EM0DQ-01

If the CO/HC concentration does not comply with regulations, troubleshoot in the order given below.

- (1) Check oxygen sensor operation.
  - (See page DI-218)
- (2) See the table below for possible causes, then inspect and correct the applicable causes if necessary.

СО	НС	Symptom	Causes
Normal	High	Rough idle	<ol> <li>Faulty ignitions:</li> <li>Incorrect timing</li> <li>Fouled, shorted or improperly gapped plugs</li> <li>Incorrect valve clearance</li> <li>Leaky intake and exhaust valves</li> <li>Leaky cylinder</li> </ol>
Low	High	Rough idle (Fluctuating HC reading)	<ol> <li>Vacuum leaks:</li> <li>PCV hose</li> <li>Intake manifolds</li> <li>Throttle body</li> <li>Lean mixture causing misfire</li> </ol>
High	High	Rough idle (Black smoke from exhaust)	<ol> <li>Restricted air filter</li> <li>Faulty SFI system:</li> <li>Faulty pressure regulator</li> <li>Defective ECT sensor</li> <li>Faulty ECM</li> <li>Faulty injector</li> <li>Faulty throttle position sensor</li> <li>MAF sensor</li> </ol>