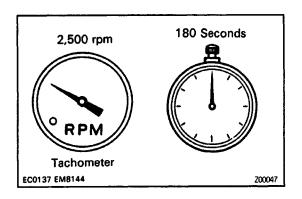
## IDLE AND OR 2500 RPM CO HC CHECK

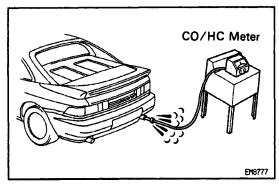
HINT: This check is used only to determine whether or not the idle CO/HC complies with regulations.

## 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 connectedHINT: All vacuum hoses for EGR systems, etc. should be properly connected.
- (f) SMPI system wiring connectors fully plugged
- (g) Ignition timing set correctly
- (h) Transmission in neutral range
- (i) Tachometer and CO/HC meter calibrated by hand



- 2. START ENGINE
- 3. RACE ENGINE AT 2,500 RPM FOR APPROX. 180 SECONDS



- 4. INSERT CO/HC METER TESTING PROBE INTO TAILPIPE AT LEAST 40 cm (1.3 ft) DURING IDLING
- 5. IMMEDIATELY CHECK CO/HC CONCENTRATION AT IDLE AND/OR 2,500 RPM

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

Troubleshooting

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

- (a) Check oxygen sensor operation.(See Main Oxygen Sensor Inspection under SMPI System)
- (b) See the table below for possible causes, and then inspect and correct the applicable causes if neces– sary.

нс	со	Problems	Causes
High	Normal	Rough idle	<ol> <li>Faulty ignitions:</li> <li>Incorrect timing</li> <li>Fouled, shorted or improperly gapped plugs</li> <li>Open or crossed high-tension cords</li> <li>Cracked distributor cap</li> <li>Incorrect valve clearance</li> <li>Leaky EGR valve</li> <li>Leaky intake and exhaust valves</li> <li>Leaky cylinder</li> </ol>
High	Low	Rough idle (Fluctuating HC reading)	1. Vacuum leaks: PCV hose EGR valve Intake manifold T–VIS valve Throttle body IACV Brake booster line Lean mixture causing misfire
High	High	Rough idle (Black smoke from exhaust)	1. Restricted air filter 2. Faulty SMPI systems: • Faulty pressure regulator • Clogged fuel return line • Defective ECTS • Defective MAP • Faulty PCME • Faulty injector • Faulty cold start injector • Faulty throttle position sensor • Faulty air flow sensor

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