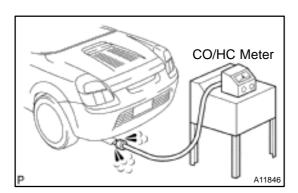
## CO/HC INSPECTION

EM05J-08

## 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) Air 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 check 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 doing the 2 mode (idle and 2,500 rpm) test, follow the measurement order prescribed by the applicable local regulations.

2000 MR2 (RM760U)

Author: Date: 543

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

- Check heated oxygen sensor operation (See page DI–47).
- See the table below for possible causes, then inspect and correct the causes if necessary.

СО	нс	Problems	Causes
Normal	High	Roughidle	<ul> <li>3. Faulty ignitions:</li> <li>• Incorrect timing</li> <li>• Fouled, shorted or improperly gapped plugs</li> <li>4. Incorrect valve clearance</li> <li>5. Leaky intake and exhaust valves</li> <li>6. Leaky cylinders</li> </ul>
Low	High	Rough idle (Fluctuating HC reading)	1. Vacuum leaks: PCV hoses Intake manifold Throttle body IAC valve Brake booster line 2. Lean mixture causing misfire
High	High	Rough idle (Black smoke from exhaust)	1. Restricted air filter 2. Plugged PCV valve 3. Faulty SFI systems:  • Faulty fuel pressure regulator  • Defective ECT sensor  • Defective IAT sensor  • Faulty ECM  • Faulty injectors  • Faulty throttle position sensor

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