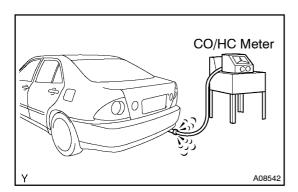
CO/HC INSPECTION

EM115-0

HINT:

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

- 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) EFI 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 INTO TAIL-PIPE AT LEAST 40 cm (1.3 ft) DURING IDLING
- 5. CHECK CO/HC CONCENTRATION AT IDLE

Idle CO concentration: 0 – 0.5 %

Idle HC concentration: Applicable local regulation
If the CO/HC concentration does not conform to specifications,
perform troubleshooting in the order given below.

- (a) Check oxygen sensor operation.
- (b) See the table next page for possible causes, and then inspect and correct the applicable causes if necessary.

ENGINE MECHANICAL - CO/HC

НС	со	Problems	Causes
Normal	High	Rough idle	1. Faulty ignition: Incorrect timing Fouled, shorted or improperly gapped plugs Incorrect valve clearance Leaky intake and exhaust valves Leaky cylinder
Low	High	Rough idle (Fluctuating HC reading)	1. Vacuum leaks: PCV hoses Intake manifold Throttle body 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 EFI systems: • Faulty pressure regulator • Defective water temp. sensor • Faulty engine ECU • Faulty injectors • Faulty throttle position sensor • Faulty vacuum sensor