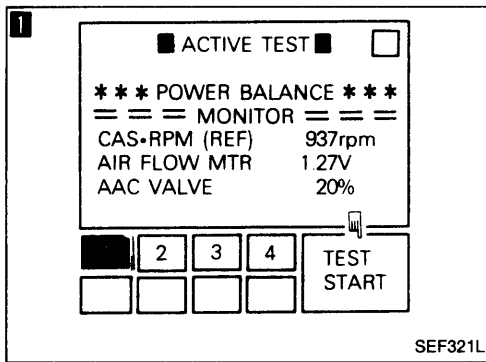




Diagnostic Procedure 3 — Unstable Idle

1

PERFORM POWER BALANCE TEST.

1. Perform "POWER BALANCE" in "ACTIVE TEST" mode.
2. Is there any cylinder which does not produce a momentary engine speed drop?

No

Go to 5.

OR



When disconnecting each injector harness connector one at a time, is there any cylinder which does not produce a momentary engine speed drop?

Yes

2

CHECK INJECTOR.

1. Remove distributor from engine. (Crank angle sensor harness connector should remain connected.)
2. Disconnect ignition wires.
3. ignition switch ON. (Do not start engine.)
4. When rotating distributor shaft slowly by hand, does each injector make an operating sound?

No

Check injector(s) and circuit(s).

Yes

3

CHECK IGNITION SPARK.

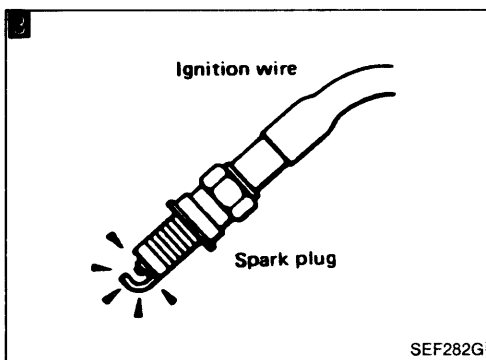
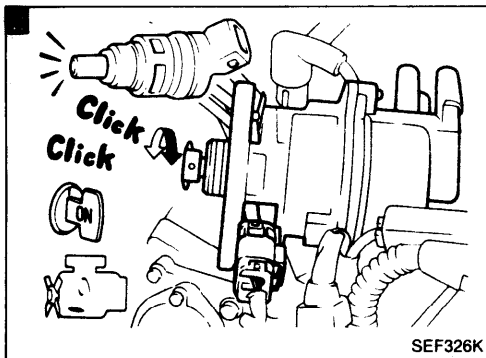
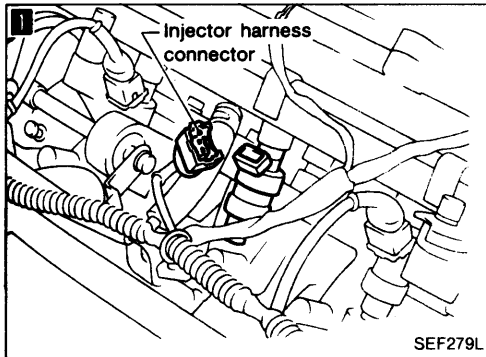
1. Disconnect ignition wire from spark plug.
2. Connect a known good spark plug to the ignition wire.
3. Place end of spark plug against a suitable ground and crank engine.
4. Check for spark.

N.G.

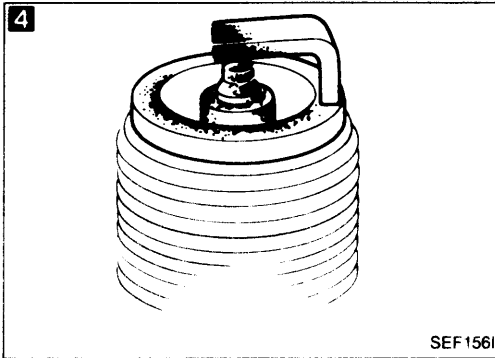
Check ignition coil, power transistor and their circuits. (See page EF & EC-576.)

O.K.

(Go to A on next page.)



Diagnostic Procedure 3 — Unstable Idle (Cont'd)

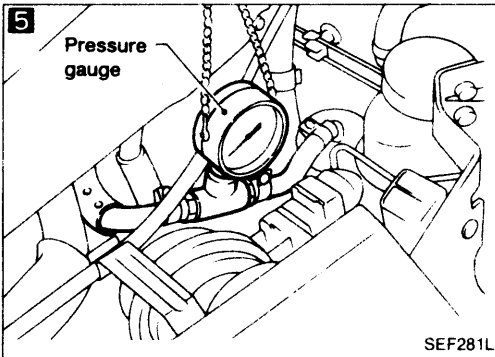


4

CHECK SPARK PLUGS.
Remove the spark plugs and check for fouling, etc.

N.G. → Repair or replace spark plug(s).

O.K. →



5

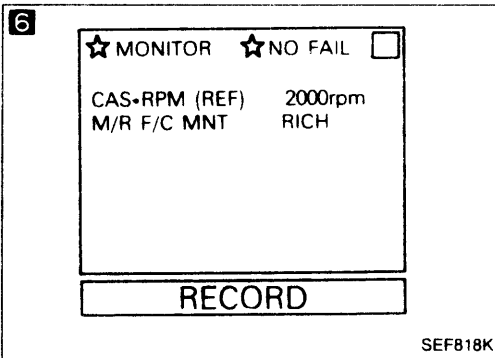
CHECK FUEL PRESSURE.

1. Release fuel pressure to zero. (Refer to page EF & EC-638.)
2. Install fuel pressure gauge and check fuel pressure.

At idle:
Approx. 245 kPa
(2.45 bar, 2.5 kg/cm², 36 psi)

N.G. → Check fuel pump and circuit.

O.K. →



6

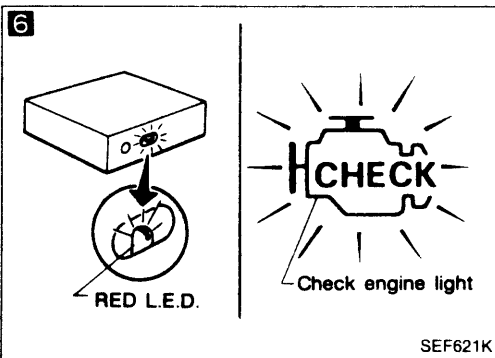
CHECK EXHAUST GAS SENSOR.

1. See "M/R F/C MNT" in "Data monitor" mode.
2. Maintaining engine at 2,000 rpm under no-load (engine is warmed up sufficiently), check that the monitor fluctuates between "LEAN" and "RICH" more than 5 times during 10 seconds.

RICH → LEAN → RICH →
1 time 2 times
LEAN → RICH.....

N.G. → Replace exhaust gas sensor.

O.K. →



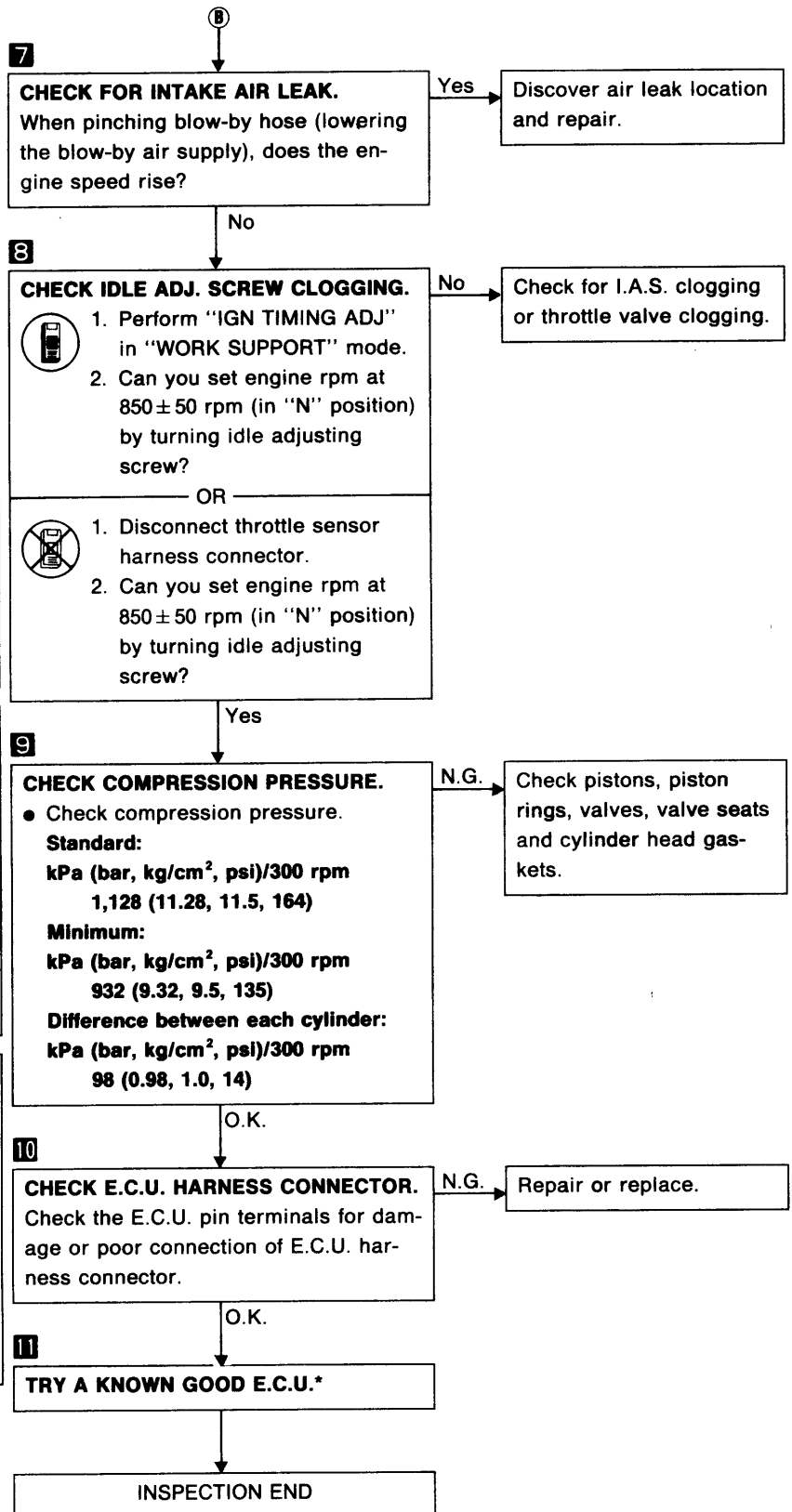
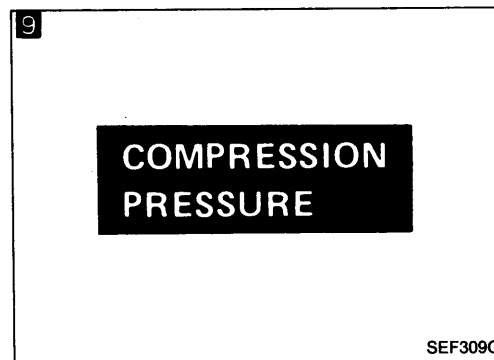
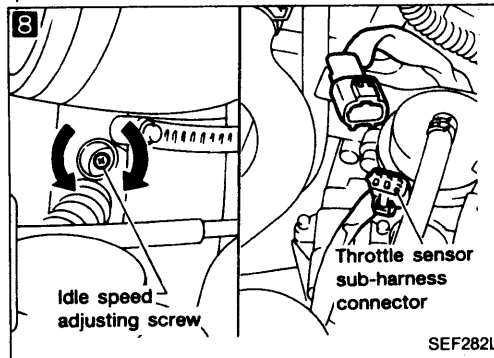
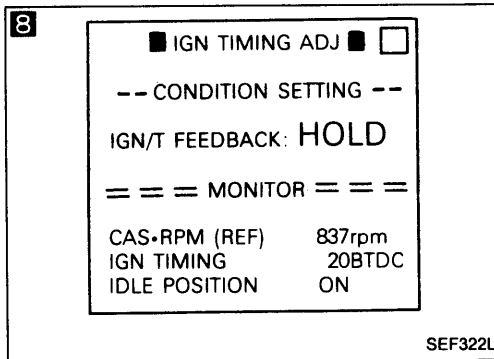
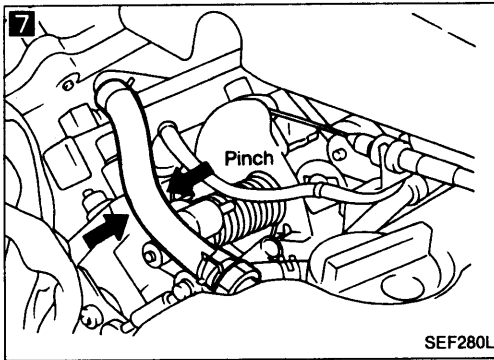
OR

1. Set "Exhaust gas sensor monitor" in the self-diagnostic Mode II. (See page EF & EC-412.)
2. Maintaining engine at 2,000 rpm under no-load, check to make sure that the RED L.E.D. on the E.C.U. or the check engine light on the instrument panel goes ON and OFF more than 5 times during 10 seconds.

O.K. →

(Go to **B** on next page.)

Diagnostic Procedure 3 — Unstable Idle (Cont'd)



*: E.C.U. may be the cause of a problem, but this is rarely the case.