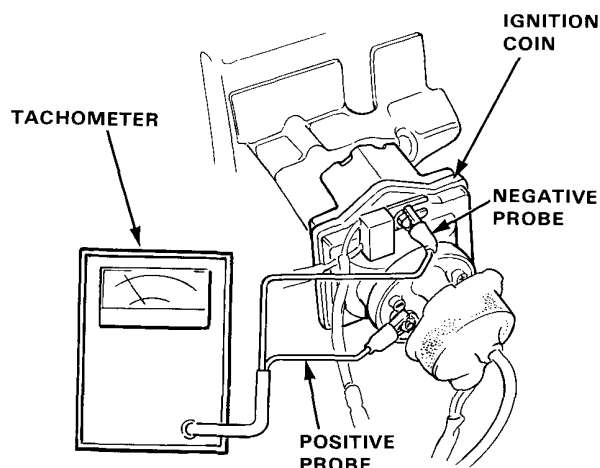


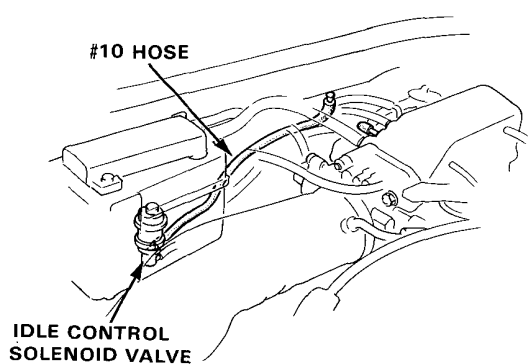
Air Intake System

Idle Speed Inspection

1. Start the engine and warm it up to normal operating temperature (the cooling fan goes on twice).
2. Connect a tachometer.



3. Disconnect the vacuum hose #10 of the idle control solenoid valve (between the valve and intake manifold) from the intake manifold.
4. Cap the end of the hose and intake manifold.

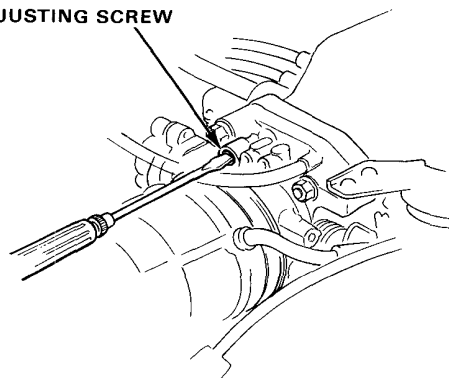


5. Adjust the idle speed with heater blower, rear window defroster, cooling fan and air conditioner off.

Idle Speed should be: $800 \pm 50 \text{ min}^{-1} \text{ (rpm)}$

Adjust the idle speed, if necessary, by turning the adjusting screw on the top of the throttle body.

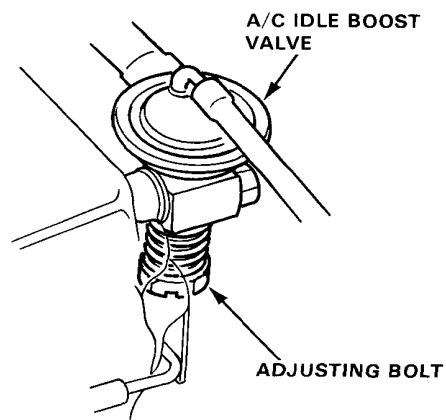
ADJUSTING SCREW



6. Check the idle speed with heater fan switch at HI (right end) and air conditioner on.

Idle Speed should be: $800 \pm 50 \text{ min}^{-1} \text{ (rpm)}$

Adjust idle speed, if necessary, by turning the adjusting bolt on the A/C idle boost valve.



7. After adjustment, connect the idle control solenoid valve vacuum hose.
8. Check the idle speed with headlights, heater blower, rear window defroster, and cooling fan on but air conditioner off.

It should be the same as normal idle speed.

NOTE: If the idle speed is not within specifications, see Troubleshooting on pages 11-20.



Idle Mixture Inspection

NOTE:

- Perform the measurement in a place with good ventilation and with no direct exposure to the wind and rain.
- Perform the measurement while the engine is idling. (under no load).
- Use a precise tachometer to check engine rpm.
- Use the NDIR CO meter in accordance with the manufacturers' recommended procedures.
- The following inspections and adjustments should be completed before the measurement.

Air cleaner element

Ignition timing and control system

Spark plugs

Idling speed

Valve clearance

PCV valve

1. Start the engine, and, after the radiator cooling fan works two times, further warm up the engine at 3,000 min⁻¹(rpm) for two minutes or more.
2. Insert exhaust gas sampling probe into the tail pipe at least 40 cm (16 in.).
3. Check idle CO with the headlights, heater blower, rear window defroster, cooling fan, and air conditioner off.

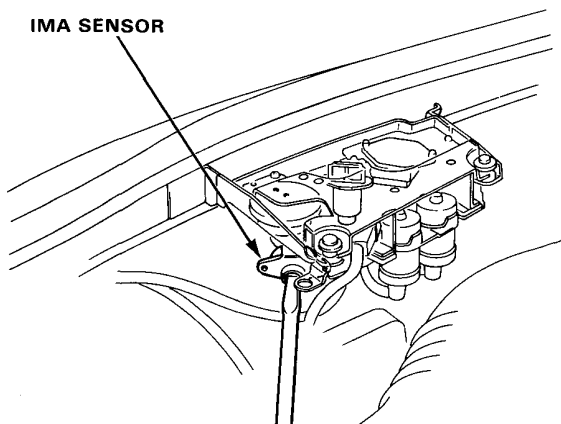
CO meter should indicate:

KX Model: 0.1 % maximum

Other Models: 1.0 ± 1.0%

4. On except KX Model, if unable to obtain this reading, adjust by turning adjusting screw of the IMA sensor.

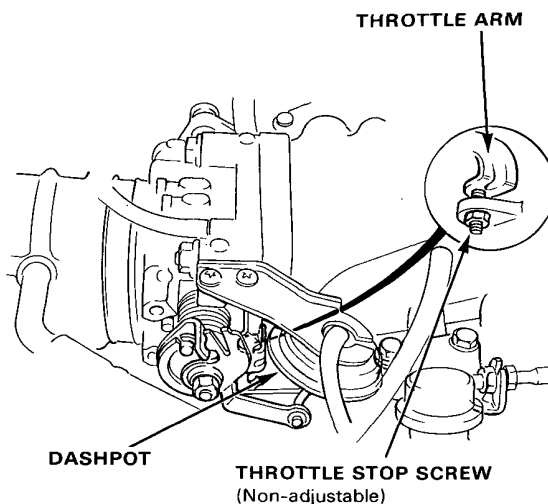
IMA SENSOR



- If unable to obtain a CO reading of specified % by this procedure, check the engine tune-up condition.

Throttle Control System

1. With the engine shut off, slowly open the throttle arm until the dashpot rod is raised up as far as it will go.



2. Release the throttle arm and measure the time until the throttle arm contacts the stop screw.

Time should be: less than 2 seconds

- If the time is over 2.0 seconds, replace the dashpot check valve and re-test.
- If the rod does not operate, check for bound linkage, or for clogged check valve or vacuum line.
- If they are OK, replace the dashpot with a new one.

Air Intake System

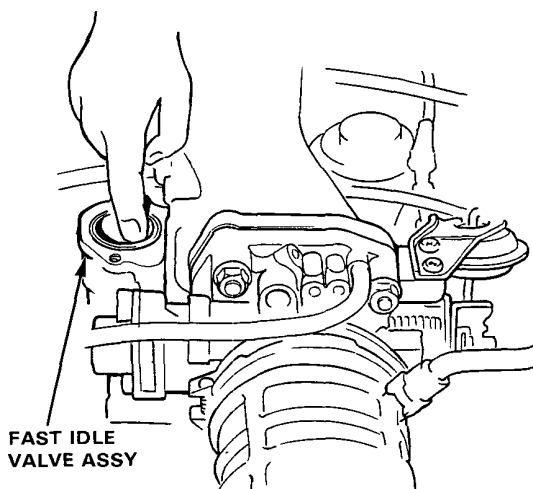
Fast Idle Valve

NOTE:

- The fast idle valve is factory adjusted, it should not be disassembled.
- Check the PCV (engine breather) circuit tubing for breakage, disconnection, clogging, etc.
- Check that the throttle valves are fully closed.

If idle speed is too high after engine is warmed up:

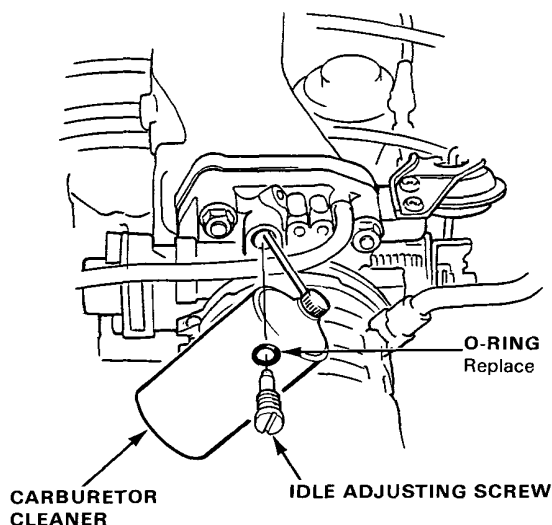
1. Remove the cover of the fast idle valve.
2. Check that the valve is completely closed. If not, an air suction sound can be heard in the valve seat area.



- If any suction is heard, the valve is leaking. Replace the fast idle valve and adjust idle speed (page 11-34).

If idle speed is too low after engine is warmed up:

1. Remove the idle adjusting screw.

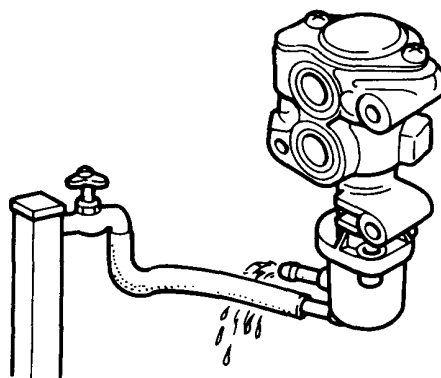


2. Wash the idle adjusting screw and the air bypass channel with carburetor cleaner.
3. Readjust idle speed after cleaning.

If fast idle speed is low when engine is cold (coolant temperature below 60°C (140°F). (Fast idle valve may be stuck closed):

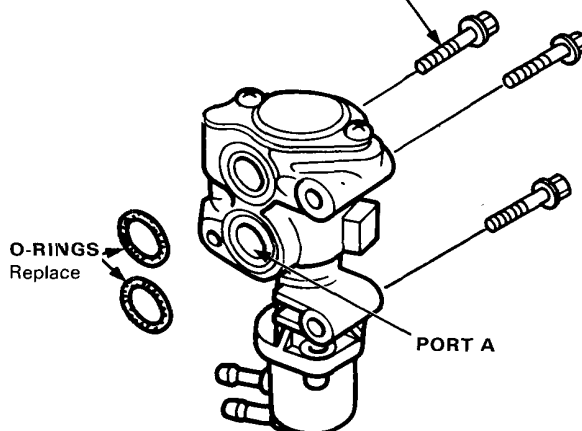
Fast idle speed should be: 1,000—1,800 min⁻¹(rpm)

1. Remove the fast idle valve assy from the throttle body.
2. Apply cold water and cool down the wax part of the fast idle valve to 5—30°C (41—86°F).



3. Blow through port A or the fast idle valve, and check that a fairly large amount of air flows without resistance.

12N-m (1.2 kg-m, 9 lb-ft)



- If air does not flow or the resistance is large, replace the fast idle valve and adjust idle speed. (page 11-34)