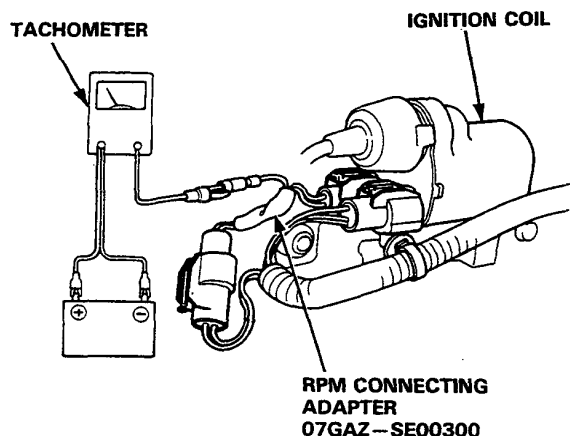


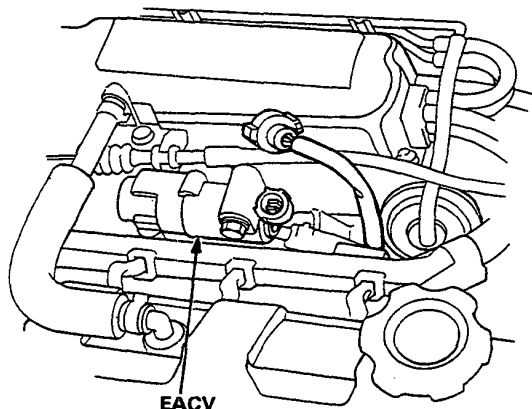
Idle Speed

Inspection/Adjustment

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



3. Disconnect the 2P connector from the EACV.

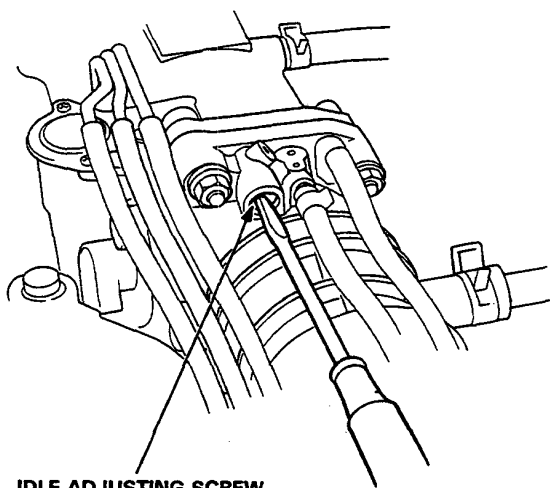


4. Set the steering in the straight forward position, and check idling in no-load conditions in which the headlights, blower fan, rear defroster, cooling fan, and air conditioner are not operating.

Idle speed should be:

- KX, KS, KZ, KQ
M/T $650 \pm 50 \text{ min}^{-1} \text{ (rpm)}$
A/T $650 \pm 50 \text{ min}^{-1} \text{ (rpm)}$ in **N** or **P**
- Other models
M/T $700 \pm 50 \text{ min}^{-1} \text{ (rpm)}$
A/T $700 \pm 50 \text{ min}^{-1} \text{ (rpm)}$

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



5. Reconnect the 2P connector on the EACV, then remove CLOCK (10 A) fuse in the underhood relay box for 10 second to reset ECU.
6. Set the steering in the straight forward position and idle the engine with no-load conditions in which the headlights, blower fan, rear defogger, cooling fan, and air conditioner are not operating for one minute, then check the idle speed.

Idle speed should be:

- KX, KS, KZ, KQ
M/T $750 \pm 50 \text{ min}^{-1} \text{ (rpm)}$
A/T $750 \pm 50 \text{ min}^{-1} \text{ (rpm)}$ in **N** or **P**
- Other models
M/T $800 \pm 50 \text{ min}^{-1} \text{ (rpm)}$
A/T $800 \pm 50 \text{ min}^{-1} \text{ (rpm)}$

7. Idle the engine in the following conditions for one minute, then check the idle speed.

- With headlights (Hi) and rear window defogger ON.
- While the steering wheel is turning.
- If applicable, with Automatic transmission models when shifted in gear (except **N** or **P**)

Idle should remain stable at:

- KX, KS, KZ, KQ
 $750 \pm 50 \text{ min}^{-1} \text{ (rpm)}$
- Other models
 $800 \pm 50 \text{ min}^{-1} \text{ (rpm)}$



Fast Idle Control

Inspection

8. Idle the engine for one minute with heater fan switch at HI (right end) and air conditioner on, then check the idle speed.

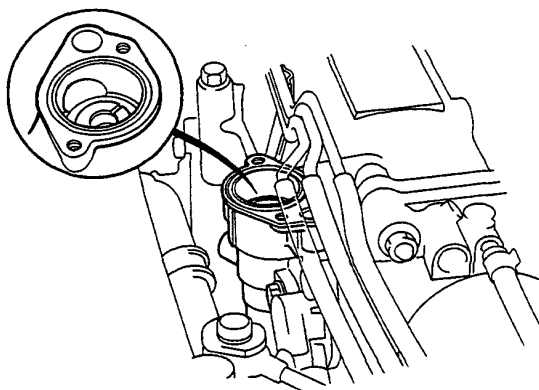
Idle should remain stable at:

- KX, KS, KZ, KQ
750 \pm 50 min⁻¹ (rpm)
- Other models
800 \pm 50 min⁻¹ (rpm)

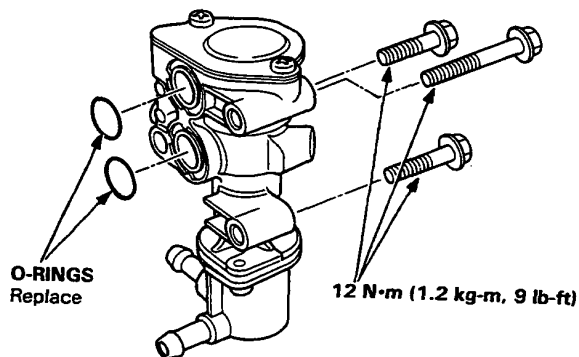
NOTE: If the idle speed is not within specifications, see Symptom-to-Sub System Chart on page 6-175.

NOTE: The fast idle valve is factory adjusted; it should not be disassembled.

1. Start the engine.
2. Remove the cover of the fast idle valve.
3. Put your finger on the valve seat area and make sure that there is air flow with the engine cold (coolant temperature below 30°C, 86°F) and idling.



- If not, replace the fast idle valve and retest.



4. Warm up the engine (cooling fan comes on).
5. 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 recheck.