Idle Speed and Mixture

Adjustment

[Except Canadian model]

NOTE: The following inspections and adjustments should be completed before measurement.

Air cleaner element
Ignition timing and control system
Spark plugs
Idle speed
Valve clearance
Intake air control system
PCV valve

WARNING Do not smoke during this procedure. Keep any open flame away from your work area.

CO Meter Method

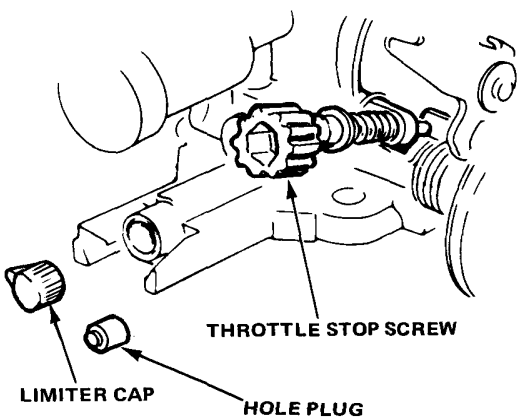
1. Warm-up and calibrate the NDIR CO Meter in accordance with the manufacturer's recommended procedures.

2. Insert exhaust gas sampling probe into the tail pipe at least 40 cm (16-inches).

3. Check specification for idle speed and CO with the headlights OFF (on swedish model: on) and cooling fan OFF.

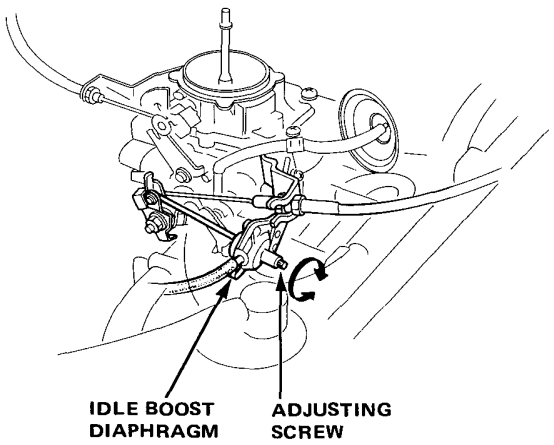
Transmission	Idle Speed
Manual Transmission	750 ± 50 min^{-1} (rpm)
Hondamatic (in gear)	700 ± 50 min^{-1} (rpm)

	Specified CO%
Swedish and Australian models	below 2.0 %
Swiss model	0.5–2.0 %
Other models	below 3.0%



4. If unable to obtain this reading with the limiter cap in place, remove the cap. Adjust the mixture adjusting screw to obtain specified CO%, recheck the engine idle speed and reset if necessary. Finally recheck the CO reading and replace the limiter cap. If unable to obtain a CO reading of specified % by this procedure, check the engine tune-up condition.

5. If car is equipped with air conditioning, recheck idle speed with A/C on: Speed should still be within specification.
   If the speed is outside the spec, remove the rubber cap on the idle boost diaphragm and adjust by turning adjusting screw.



If the idle boost diaphragm does not operate with the air conditioner on, disconnect the hose from the idle boost diaphragm and check for vacuum.

- If there is vacuum, replace the idle boost diaphragm.
- If there is no vacuum, check for voltage at the idle control solenoid valve.
  - If there is no voltage, check the wiring and fuse, and repair or replace as necessary.
  - If there is voltage, disconnect the hose routed to the intake manifold at the idle control solenoid valve and check for vacuum.
    - If there is vacuum, replace the idle control solenoid valve.
    - If there is no vacuum, check the vacuum line to the intake manifold.

(cont'd)

Idle Speed and Mixture

Adjustment (cont'd)

Idle-Drop Method

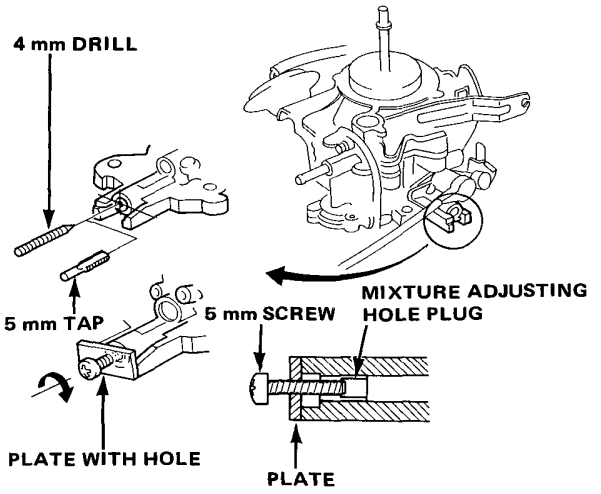
1. Start the engine and warm up to the normal operating temperature.
2. Remove the limiter cap.
3. With the headlights OFF (on Swedish model: on) and the cooling fan OFF, adjust the engine speed and mixture for best idle at 820 (1500 Civic), 800 (1300 Civic) min^{-1} (rpm) (Manual Transmission in neutral) or 750 (1500 Civic), 730 (1300 Civic) min^{-1} (rpm) (Hondamatic in gear).
4. Turn the mixture adjusting screw clockwise until engine speed drops to 750 min^{-1} (rpm) (Manual Transmission in neutral) or 700 min^{-1} (rpm) (Hondamatic in gear).
5. Replace the limiter cap.

[For Canadian model]

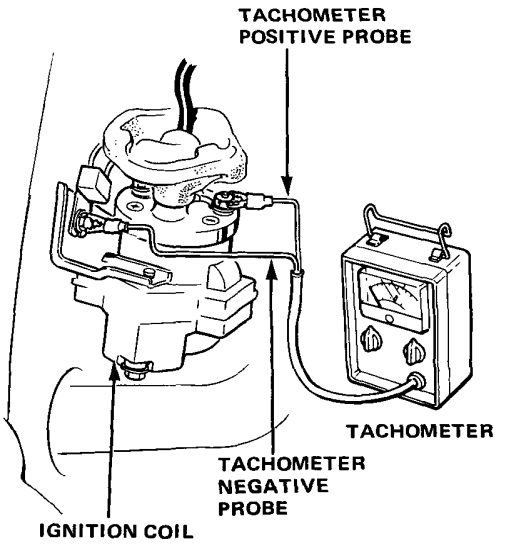
WARNING Do not smoke during this procedure. Keep any open flame away from your work area.

CO Meter Method

1. Remove air cleaner.
2. Disconnect vacuum tubes, fuel line, throttle cable and choke cable from carburetor.
3. Remove carburetor.
4. To remove the mixture adjusting screw hole plug;



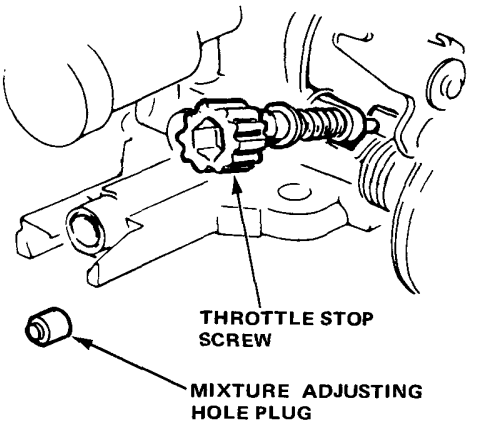
5. Replace the carburetor, vacuum tubes, fuel line throttle cable and choke cable.
6. Install air cleaner.
7. Start engine and warm up to normal operating temperature; the cooling fan will come on.
8. Connect tachometer.



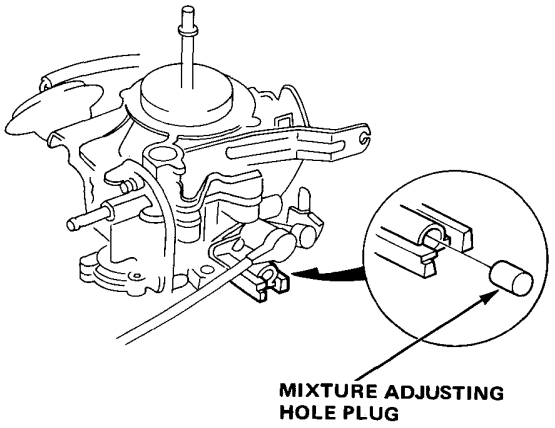
9. Warm-up and calibrate the NDIR CO Meter in accordance with the manufacturer's recommended procedures.
10. Insert exhaust gas sampling probe into the tail pipe at least 40 cm.
11. Check specification for idle speed and CO with the headlights OFF and cooling fan OFF.

Transmission	Idle Speed
Manual Transmission	750 ± 50 min^{-1} (rpm)
Hondamatic (in gear)	700 ± 50 min^{-1} (rpm)

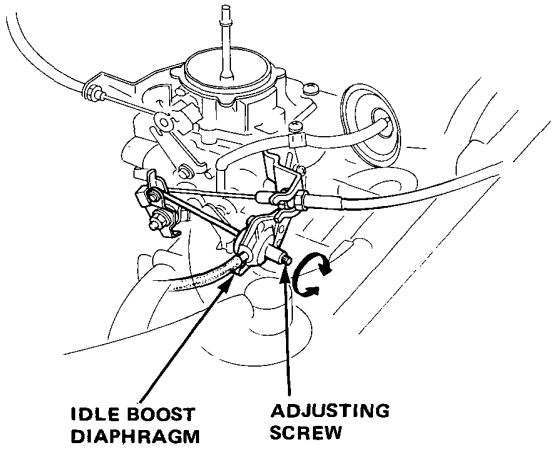
Specified CO%	below 2.0%



12. Adjust the mixture adjusting screw to obtain specified CO%, recheck the engine idle speed and reset if necessary. Finally recheck the CO reading and replace the mixture adjusting hole plug. If unable to obtain a CO reading of specified % by this procedure, check the engine tune-up condition.



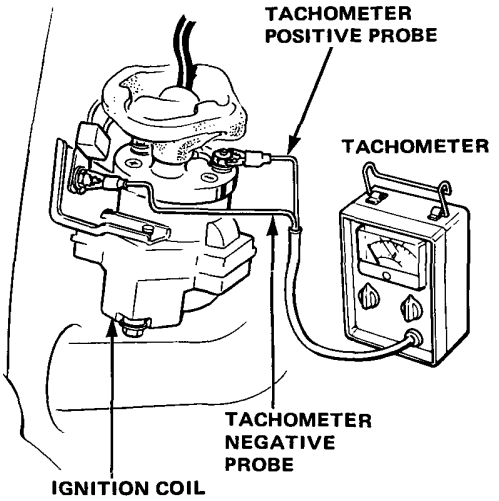
13. If car is equipped with air conditioning, recheck idle speed with A/C on: Speed should still be within specification.
If the speed is outside the spec, remove the rubber cap on the idle boost diaphragm and adjust by turning adjusting screw.



If the idle boost diaphragm does not operate with the air conditioner on, go on to idle boost diaphragm check on page 12-13.

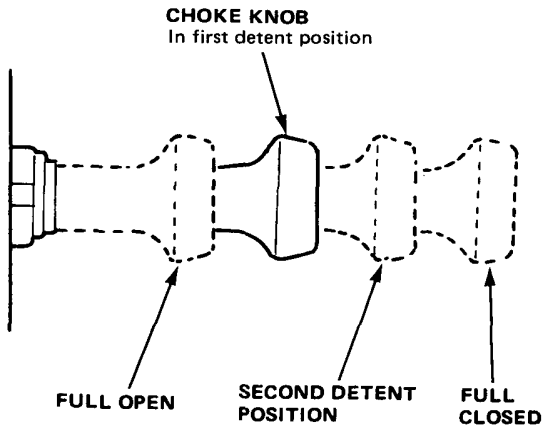
Adjustment

1. Remove rubber boot from ignition coil. Connect tachometer positive probe to (—) terminal on ignition coil. Connect tachmeter negative probe to chassis ground.



2. Start engine and allow to warm up.

3. Place choke control knob in first detent position.



Fast idle should be: 1,500–2,500 min^{-1} (rpm)

(cont'd)