Idle Control System [4WS] -

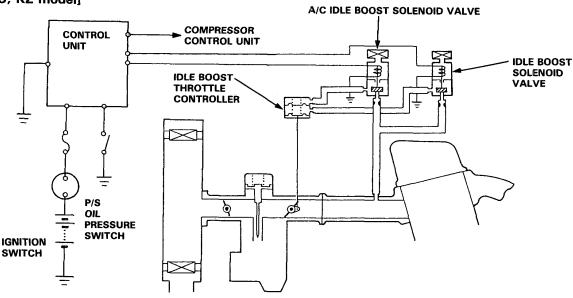
Description

This system prevents the idle speed from dropping while the steering wheel is turning.

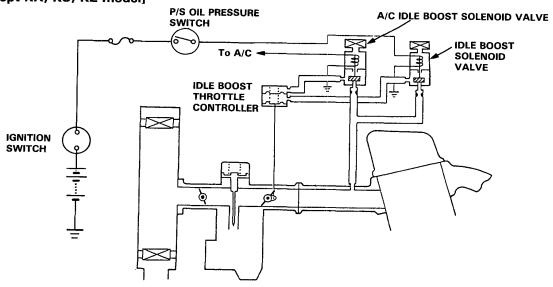
While the steering wheel is turning, manifold vacuum is introduced into the diaphragm chamber of the idle boost controller through the idle boost solenoid valve which is activated by the P/S oil pressure switch. The idle controller's diaphragm rod is retracted to open the throttle valve a certain amount. The amount of this throttle valve opening is adjusted with the idle control screw on the idle controller to maintain the original idle speed.

When the front wheels place in a straight ahead position, the idle boost solenoid valve is deactivated to close the vacuum passage and the vacuum stored in the controller is released through the filter on the solenoid valve.

[KX, KS, KZ model]





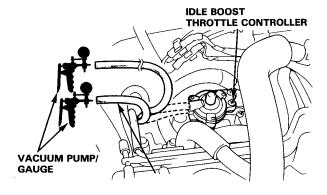




Testing Idle speed too high in no-load conditions

- 1. Start the engine and warm up to normal operating temperature (the cooling fan comes on).
- Disconnect the two vacuum hoses from the idle boost throttle controller and check each for vacuum.

There should be no vacuum in both hoses.



- If there is no vacuum, check the throttle valve shaft for binding or sticking, and replace the idle boost throttle controller.
- If there is vacuum at either hose, go to troubleshooting (#21 hose: page 6-15, outside hose: page 6-17).

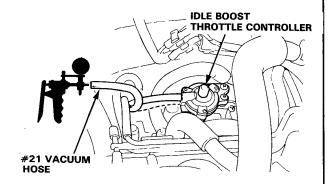
Idle speed is rough while the steering wheel is turning

 KX, KS, KZ model: Check the idle speed is above specified in no-load conditions. when the 2P connector on the P/S oil pressure switch is disconnected.

Except KX, KS, KZ model: Disconnect the 2P connector on the P/S oil pressure switch, and connect a jumper wire between the 2 terminals on the wire harness. Then check the idle speed is above specified in no-load conditions.

 If idle speed is as specified in no-load conditions, disconnect the #21 vacuum hose from the idle boost throttle controller and check for vacuum.

There should be vacuum.



- If there is vacuum, check the throttle valve shaft for binding or sticking, and replace the idle boost throttle controller.
- If there is no vacuum, check the vacuum hose for proper connection, cracks, blockage or disconnected hose. If OK, go to troubleshooting (page 6-15).

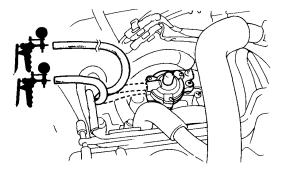
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- Idle Control System [4WS] (cont'd)¬

Idle speed is low with A/C on

 Disconnect the two vacuum hoses from the idle boost throttle controller and check each for vacuum with the A/C on.

There should be vacuum in both hoses.



- If there is vacuum, replace the idle boost throttle controller and recheck.
- If there is no vacuum only at the inside hose, go to troubleshooting (page 6-15).
- If there is no vacuum only at the outside hose, go to troubleshooting (page 6-17).



