

2004 ENGINES

Engine Mount Control System - TSX

COMPONENT LOCATION INDEX

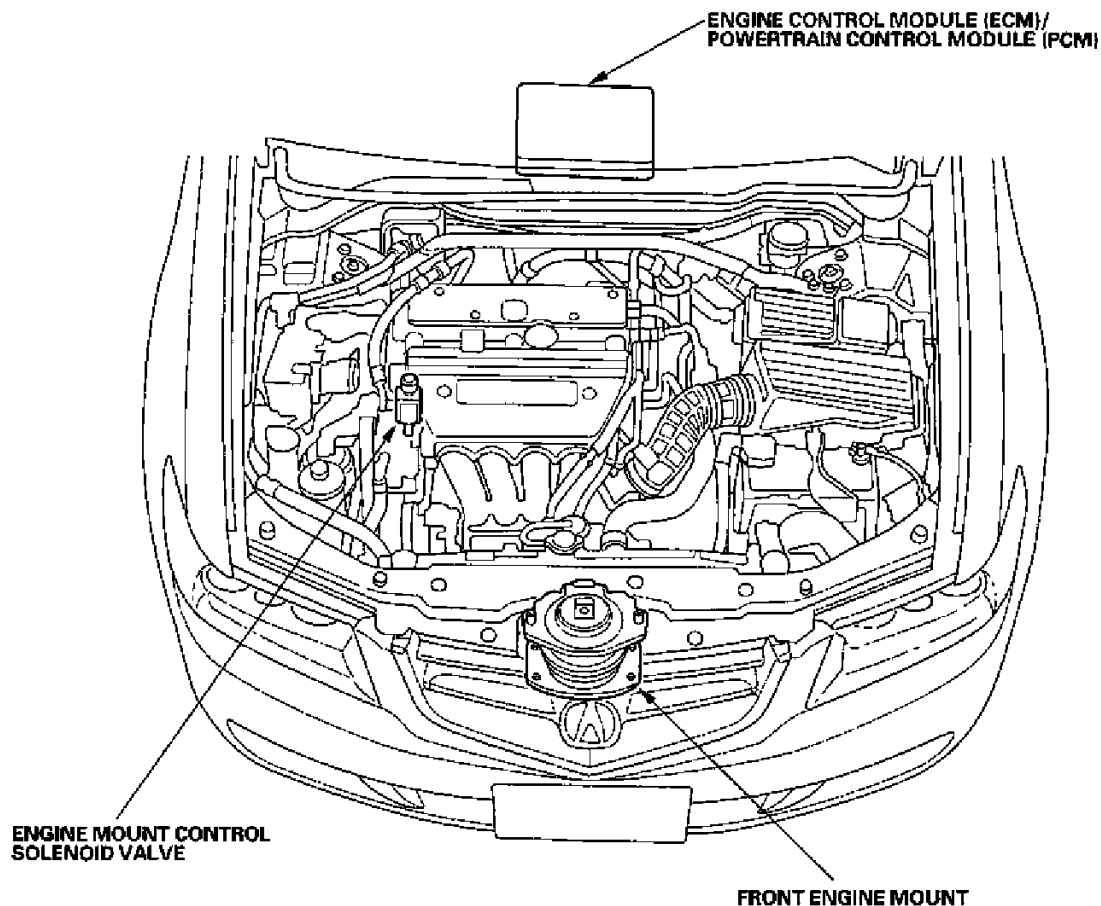
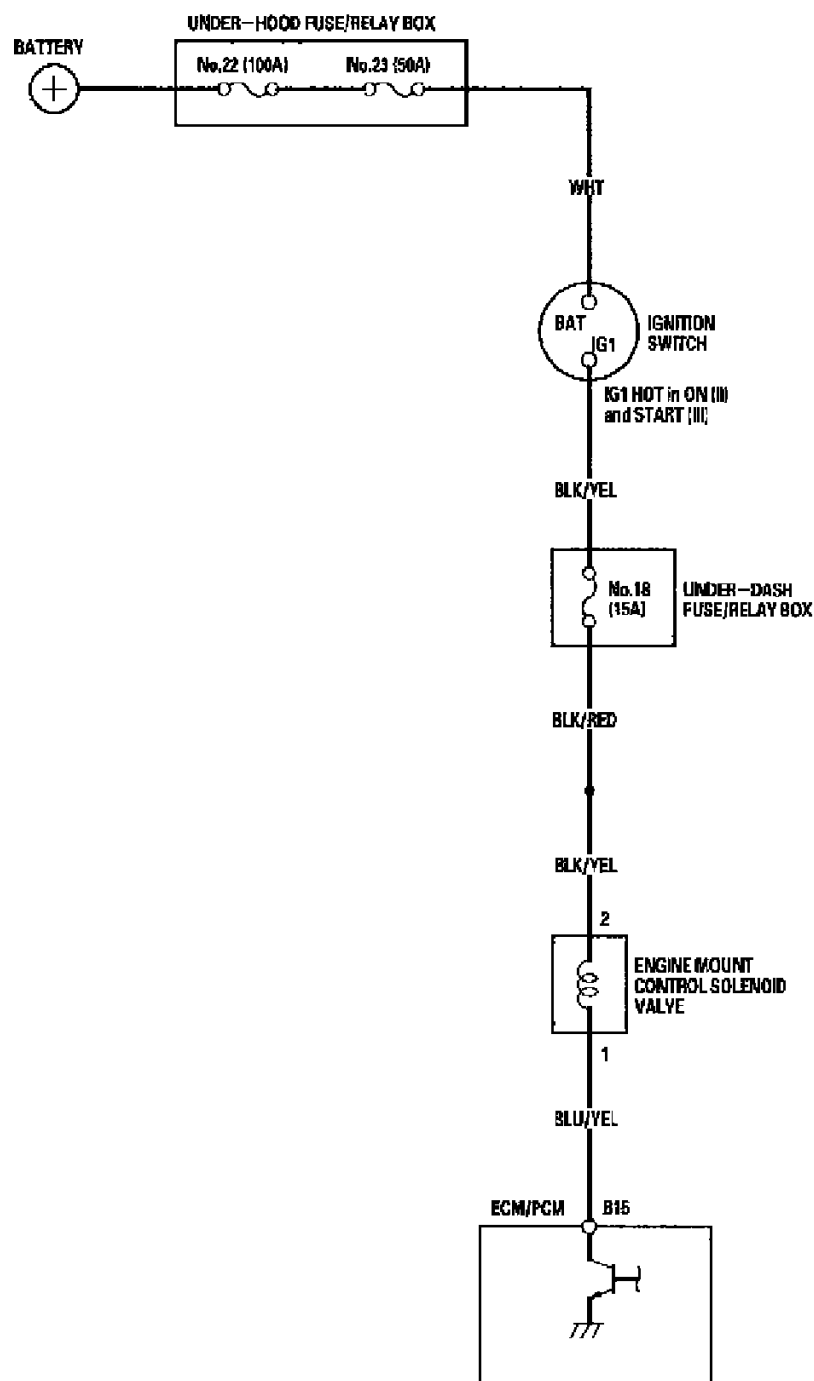


Fig. 1: Locating Engine Mount Control System Components

CIRCUIT DIAGRAM



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Fig. 2: Engine Mount Control System Wiring Diagram**TROUBLESHOOTING**

Special Tools Required: Vacuum pump/gauge, 0-30 in. Hg A973X-041-XXXXX

NOTE: Check the vacuum hoses and lines for damage and proper connections before troubleshooting.

Follow this procedure if the engine vibrates excessively when idling.

1. Check the idle speed (see **IDLE SPEED INSPECTION**).
2. Raise the engine speed from idling to 2,000 RPM.
3. Check the MOUNT CTRL SOL in the PGM-FI DATA LIST with the Honda diagnostic system (HDS).

Is ON indicated at idling and OFF indicated at 2,000 RPM?

YES: Go to step 4.

NO: Update the engine control module (ECM)/powertrain control module (PCM) if it does not have the latest software, or substitute a known-good ECM/PCM, then recheck. See **ECM/PCM UPDATING AND SUBSTITUTION FOR TESTING** . If the engine mount control system works properly, and the ECM/PCM was updated, the troubleshooting is complete. If the ECM/PCM was substituted, replace the original ECM/PCM (see **HOW TO REMOVE THE ECM/PCM FOR TESTING**).

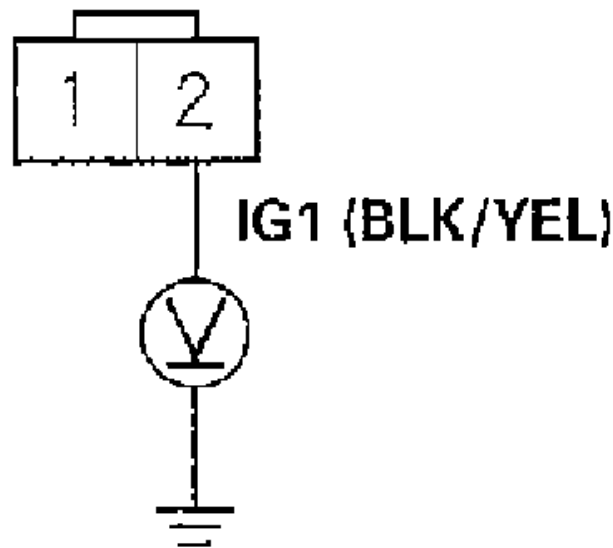
4. Shift to Park or Neutral position.
5. Disconnect the engine mount control solenoid valve 2P connector from the engine mount control solenoid valve.
6. Measure voltage between engine mount control solenoid valve 2P connector terminal No. 2 and body ground.

Is there battery voltage?

YES: Go to step 7.

NO: Repair an open in the wire between engine mount control solenoid valve and No. 18 (15A) fuse in the under-dash fuse/relay box.

ENGINE MOUNT CONTROL SOLENOID VALVE 2P CONNECTOR



Wire side of female terminals

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Fig. 3: Measuring Voltage Between Engine Mount Control Solenoid Valve 2P Connector Terminal No. 2 & Body Ground

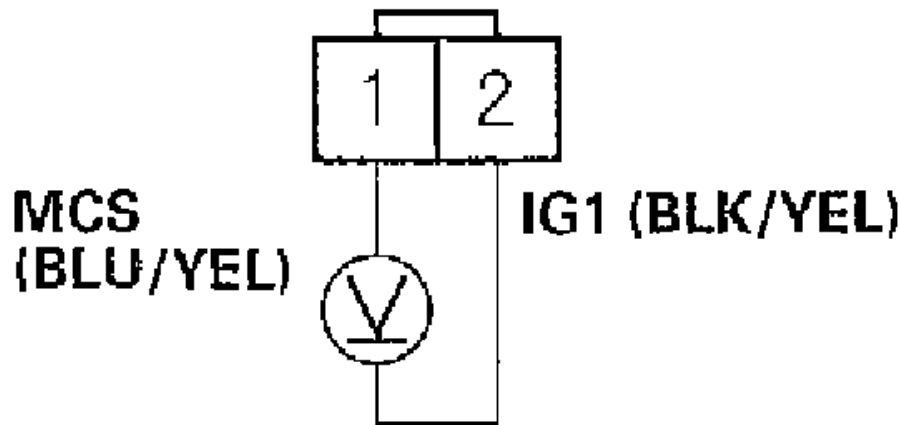
7. Measure voltage between engine mount control solenoid valve 2P connector terminals No. 1 and No. 2.

Is there battery voltage?

YES: Go to step 8.

NO: Repair an open in the wire between ECM/PCM (B15) and the engine mount control solenoid valve 2P connector. If the wire is OK, update the ECM/PCM if it does not have the latest software, or substitute a known-good ECM/PCM, and recheck. See **ECM/PCM UPDATING AND SUBSTITUTION FOR TESTING** . If the engine mount control system works properly, and the ECM/PCM was updated, the troubleshooting is complete. If the ECM/PCM was substituted, replace the original ECM/PCM (see **HOW TO REMOVE THE ECM/PCM FOR TESTING**).

ENGINE MOUNT CONTROL SOLENOID VALVE 2P CONNECTOR



Wire side of female terminals

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Fig. 4: Measuring Voltage Between Engine Mount Control Solenoid Valve 2P Connector Terminals No. 1 & No. 2

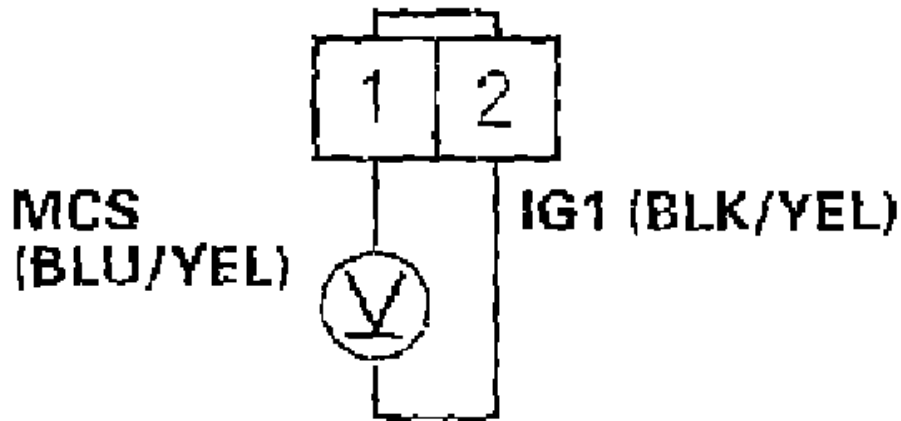
8. Raise the engine speed above 1,000 RPM.
9. Measure voltage between engine mount control solenoid valve 2P connector terminals No. 1 and No. 2.

Is there battery voltage?

YES: Repair a short to body ground in the wire between ECM/PCM (B15) and the engine mount control solenoid valve. If the wire is OK, update the ECM/PCM if it does not have the latest software, or substitute a known-good ECM/PCM, and recheck. See **ECM/PCM UPDATING AND SUBSTITUTION FOR TESTING** . If the engine mount control system works properly, and the ECM/PCM was updated, the troubleshooting is complete. If the ECM/PCM was substituted, replace the original ECM/PCM (see **HOW TO REMOVE THE ECM/PCM FOR TESTING**).

NO: Go to step 10.

ENGINE MOUNT CONTROL SOLENOID VALVE 2P CONNECTOR

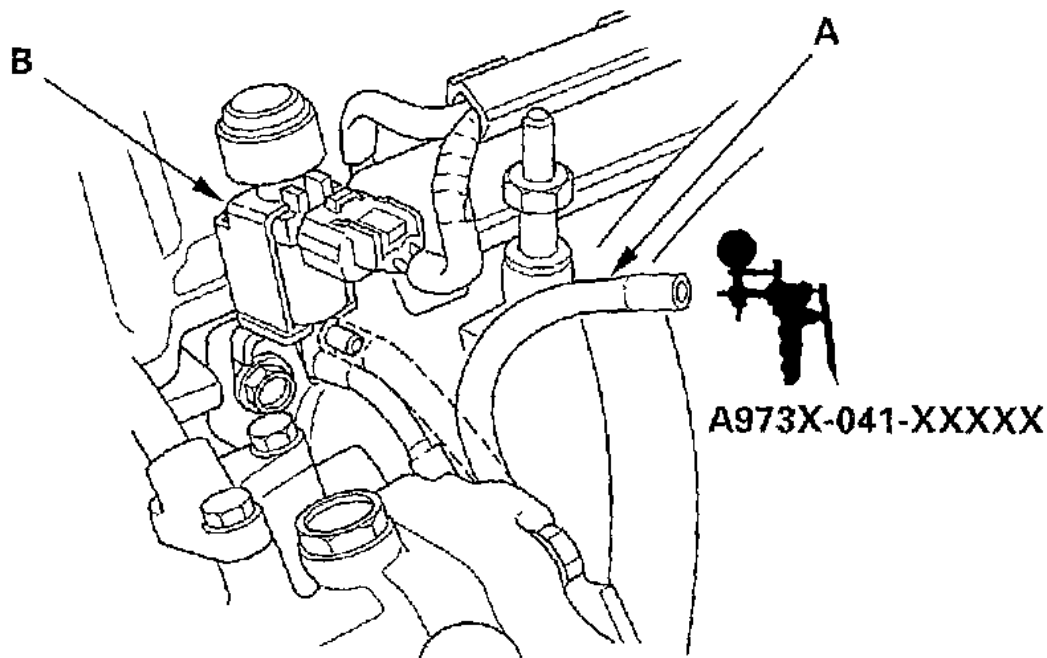


Wire side of female terminals

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Fig. 5: Measuring Voltage Between Engine Mount Control Solenoid Valve 2P Connector Terminals No. 1 & No. 2

10. Disconnect the upper vacuum hose (A) from the engine mount control solenoid valve (B), and connect a vacuum pump/gauge to the hose. Apply about 20 in. Hg of vacuum, and wait 20 seconds.



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Fig. 6: Disconnecting The Upper Vacuum Hose From The Engine Mount Control Solenoid Valve & Connecting A Vacuum Pump/Gauge To The Hose

11. Release the vacuum, then apply vacuum again.

Is there a noticeable change in idle smoothness with and without vacuum applied?

YES: Go to step 12.

NO: Replace the front engine mount.

12. Connect a vacuum pump/gauge to the engine mount control solenoid valve (A).

Is there manifold vacuum at idle, and a decrease in manifold vacuum when you raise the engine speed above 1,000 RPM?

YES: The system is OK.

NO: Replace the engine mount control solenoid valve.

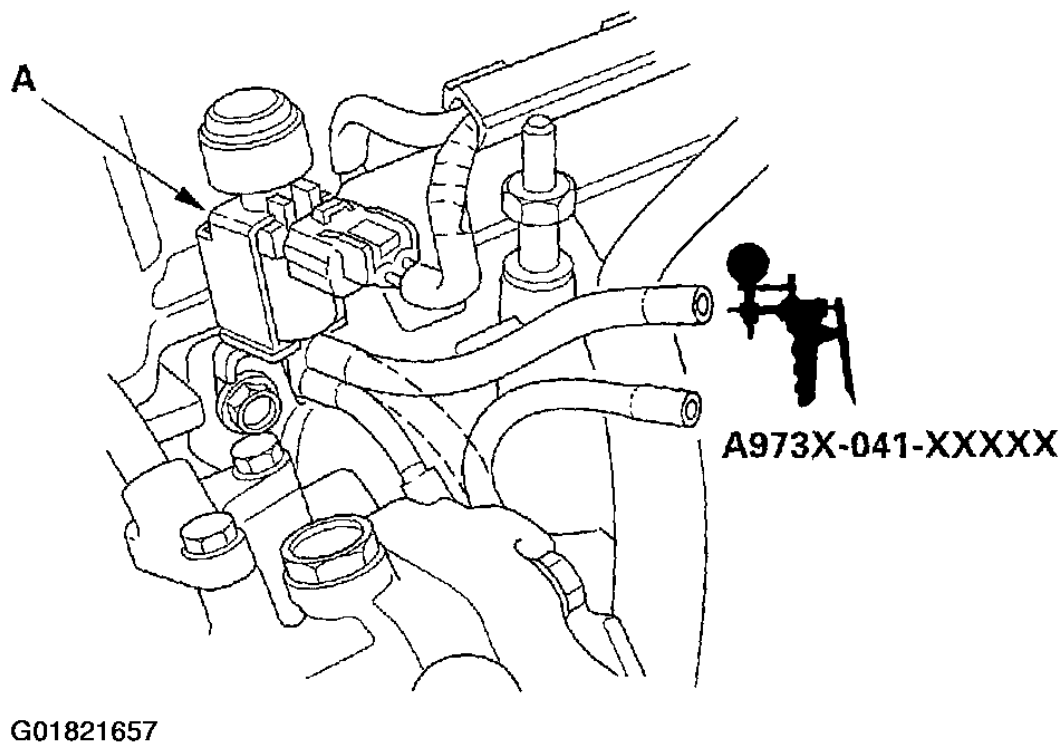


Fig. 7: Connecting A Vacuum Pump/Gauge To The Engine Mount Control Solenoid Valve