

2007-2008 ENGINE

Engine Mount Control System - TL

COMPONENT LOCATION INDEX

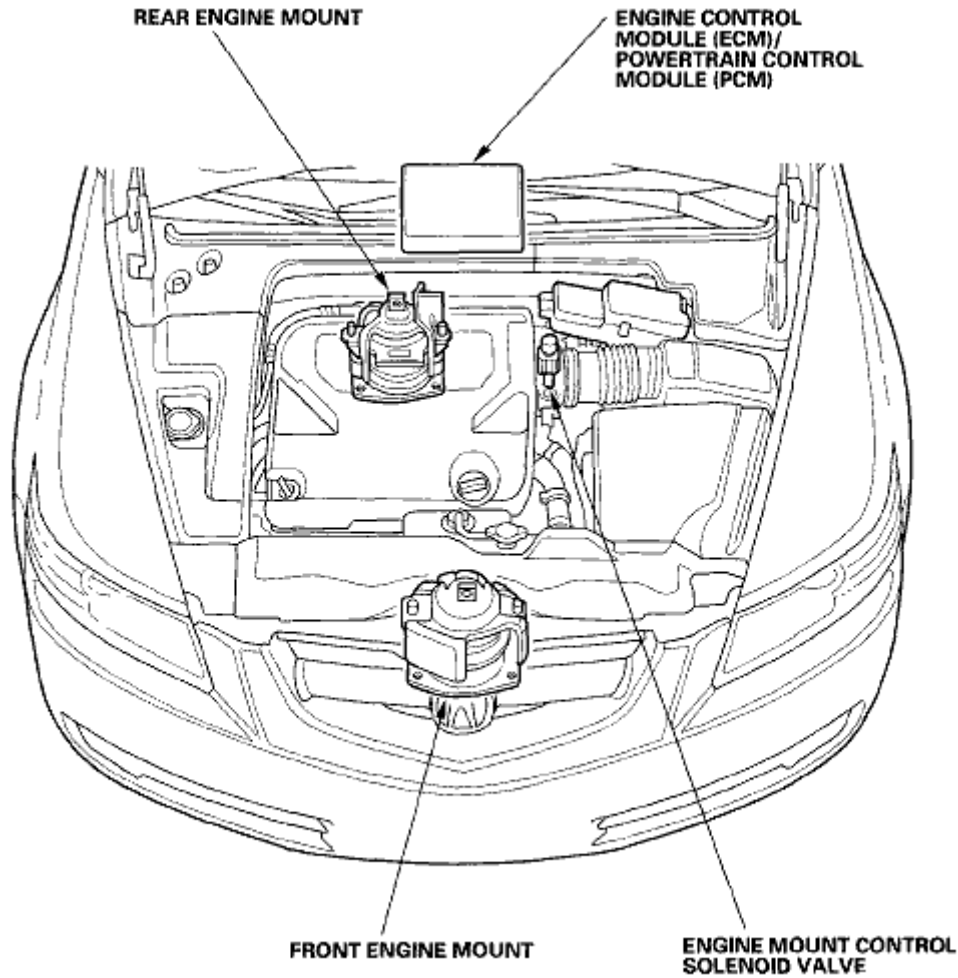


Fig. 1: Identifying Engine Mount Control System Component Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM

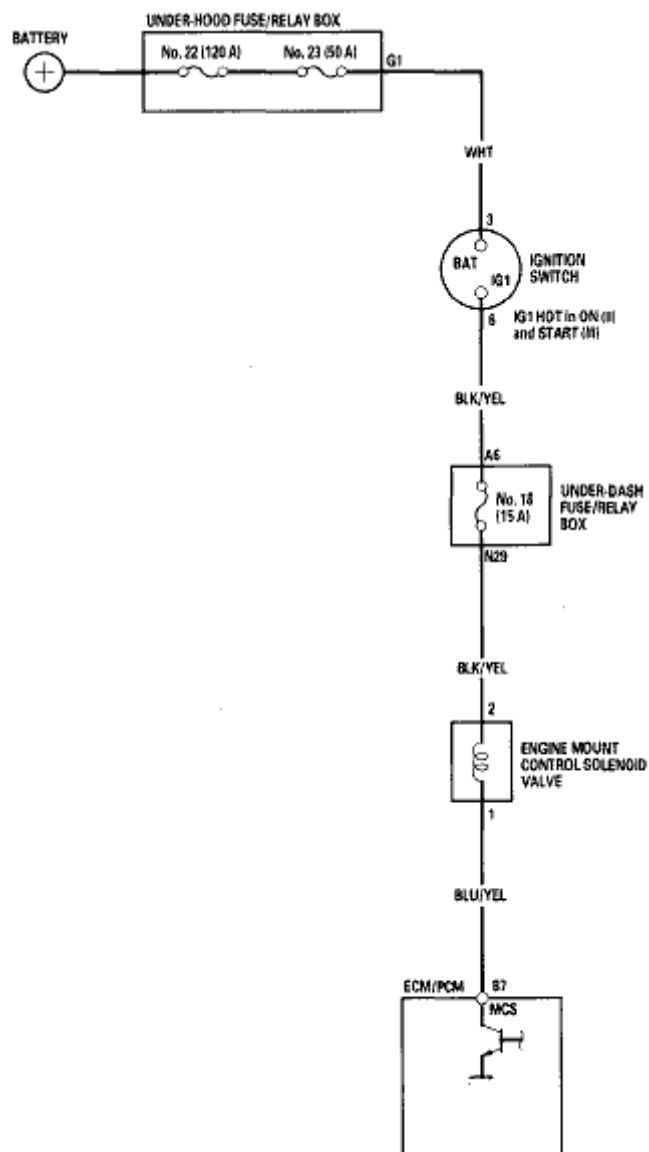


Fig. 2: Engine Mount Control System - Circuit Diagram
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

TROUBLESHOOTING

Special Tools Required

Vacuum pump/gauge, 0-30 in.Hg

Snap-on YA4000A or equivalent, commercially available

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. Start the engine, and let it idle.

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 (see **UPDATING THE ECM/PCM**), or substitute a known-good ECM/PCM (see **SUBSTITUTING THE ECM/PCM**), then recheck. 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 **ECM/PCM REPLACEMENT**).

4. Turn the ignition switch OFF.
5. Disconnect the engine mount control solenoid valve 2P connector from the engine mount control solenoid valve.
6. Turn the ignition switch ON (II).
7. Measure the voltage between the engine mount control solenoid valve 2P connector terminal No. 2 and body ground.

**ENGINE MOUNT CONTROL
SOLENOID VALVE 2P CONNECTOR**

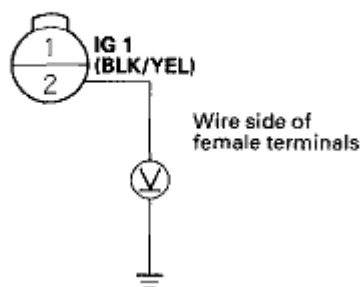


Fig. 3: Measuring Voltage Between Engine Mount Control Solenoid Valve 2P Connector Terminal No. 2 And Body Ground

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 8.

NO -Repair open in the wire between the engine mount control solenoid valve 2P connector and No. 18 (15 A) fuse in the under-dash fuse/relay box.

8. Start the engine, and let it idle.
9. Measure the voltage between the engine mount control solenoid valve 2P connector terminals No. 1 and No. 2, with the engine at idle.

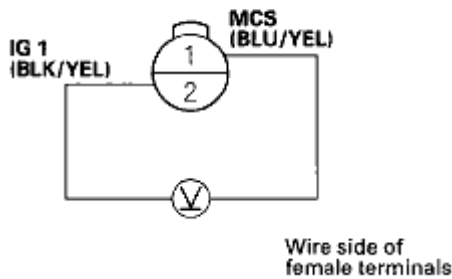
**ENGINE MOUNT CONTROL
SOLENOID VALVE 2P CONNECTOR**

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

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 10.

NO -Repair open in the wire between ECM/PCM (B7) 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 (see **UPDATING THE ECM/PCM**), or substitute a known-good ECM/PCM (see **SUBSTITUTING THE ECM/PCM**), and recheck. 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 **ECM/PCM REPLACEMENT**).

10. Raise the engine speed above 1,000 rpm.
11. Measure the voltage between the engine mount control solenoid valve 2P connector terminals No. 1 and No. 2.

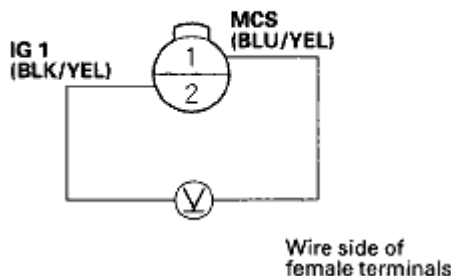
**ENGINE MOUNT CONTROL
SOLENOID VALVE 2P CONNECTOR**

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

Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Repair short to body ground in the wire between ECM/PCM (B7) and the engine mount control solenoid valve. If the wire is OK, update the ECM/PCM if it does not have the latest software (see **UPDATING THE ECM/PCM**), or substitute a known-good ECM/PCM (see **SUBSTITUTING**

THE ECM/PCM), and recheck. 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 **ECM/PCM REPLACEMENT**).

NO -Go to step 12.

12. Disconnect the vacuum hose (A) that is connected to the solenoid connector from the engine mount control solenoid valve (B), and connect a vacuum pump/gauge, 0-30 in.Hg, to the hose. Apply about 20 in.Hg of vacuum, and wait for 20 seconds.

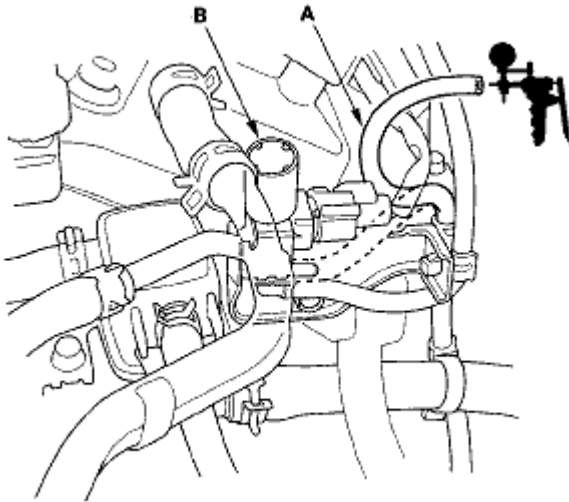


Fig. 6: Identifying Vacuum Hose And Engine Mount Control Solenoid Valve
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Does the engine mount hold vacuum?

YES -Go to step 13.

NO -Either the vacuum hose or one of the engine mounts has a vacuum leak. Repair as needed.

13. Release the vacuum, then apply vacuum again.

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

YES -Go to step 14.

NO -Replace the front engine mount and/or rear engine mount.

14. Connect a vacuum pump/gauge, 0-30 in.Hg, to the engine mount control solenoid valve (A) that is connected to the solenoid connector.

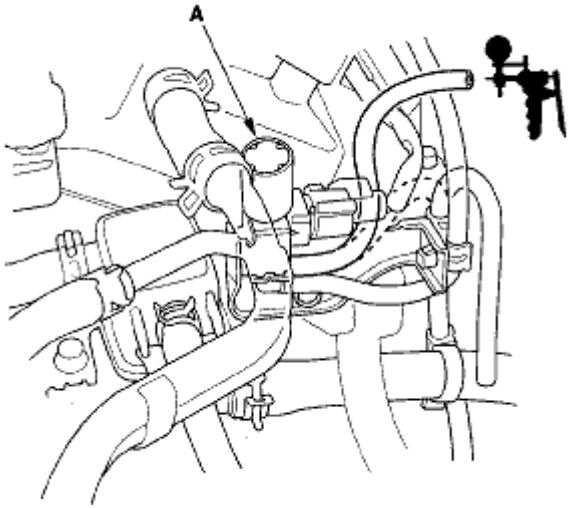


Fig. 7: Identifying Engine Mount Control Solenoid Valve
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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.