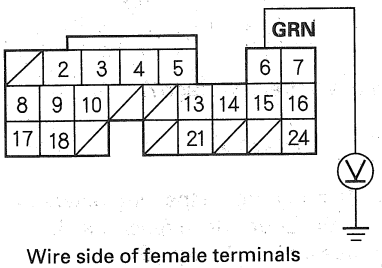
5. Turn the ignition switch OFF.
6. Reinstall the A/C condenser fan relay.
7. Make sure the A/C switch is OFF.
8. Turn the ignition switch ON (II).
9. Using a Backprobe Set, measure the voltage between the No. 6 terminal of ECM/PCM connector B (24P) and body ground with the ECM/PCM connectors connected.

ECM/PCM CONNECTOR B (24P)



Wire side of female terminals

Is there battery voltage?

YES—Update the ECM/PCM if it does not have the latest software, or substitute a known-good ECM/PCM, then recheck (see page 11-6). If the symptom/indication goes away with a known-good ECM/PCM, replace the original ECM/PCM. ■

NO—Repair open in the wire between the radiator fan relay, the A/C condenser fan relay and the ECM/PCM. ■

A/C Compressor Clutch Circuit Troubleshooting

NOTE:
- Do not use this troubleshooting procedure if the fans are also inoperative with the A/C on. Refer to the symptom troubleshooting index.
- Before performing symptom troubleshooting, check for powertrain DTCs (see page 11-3).

1. Check the No. 1 (20 A) fuse in the under-hood fuse/relay box, and the No. 14 (10 A) fuse in the under-dash fuse/relay box.

   Are the fuses OK?

   YES—Go to step 2.

   NO—Replace the fuse(s), and recheck. ■

2. Check the engine coolant temperature, throttle position, and idle speed (use the HDS PGM-FI data list if possible).

ECT Sensor	169—194 °F (76—90 °C)
TPS	About 0.5 V
RPM	More than 700

   Is the coolant temperature, throttle position, and idle speed OK?

   YES—Go to step 3.

   NO—Troubleshoot and repair the cause of the high engine coolant temperature, low idle, or excessively high throttle position sensor reading. ■

3. Remove the A/C compressor clutch relay from the under-hood fuse/relay box, and test it (see page 22-65).

   Is the relay OK?

   YES—Go to step 4.

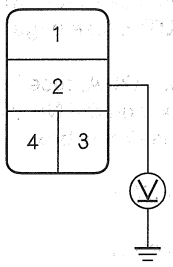
   NO—Replace the A/C compressor clutch relay. ■

(cont'd)

A/C Compressor Clutch Circuit Troubleshooting (cont'd)

4. Measure the voltage between the No. 2 terminal of the A/C compressor clutch relay 4P socket and body ground.

A/C COMPRESSOR CLUTCH RELAY 4P SOCKET



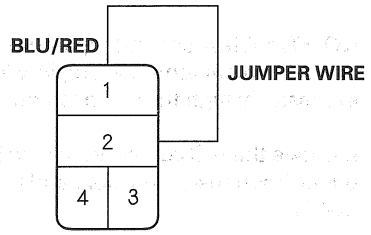
Is there battery voltage?

YES—Go to step 5.

NO—Replace the under-hood fuse/relay box. ■

5. Connect the No. 1 and No. 2 terminals of the A/C compressor clutch relay 4P socket with a jumper wire.

A/C COMPRESSOR CLUTCH RELAY 4P SOCKET



Does the A/C compressor clutch click?

YES—Go to step 6.

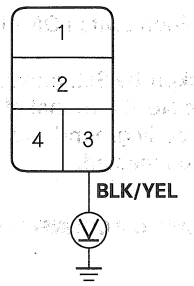
NO—
- '01 Model: Go to step 14.
- '02-05 Models: Go to step 17.

6. Disconnect the jumper wire.

7. Turn the ignition switch ON (II).

8. Measure the voltage between the No. 3 terminal of the A/C compressor clutch relay 4P socket and body ground.

A/C COMPRESSOR CLUTCH RELAY 4P SOCKET



Is there battery voltage?

YES—Go to step 9.

NO—Repair open in the wire between the No. 14 fuse in the under-dash fuse/relay box and the A/C compressor clutch relay. ■

9. Turn the ignition switch OFF.

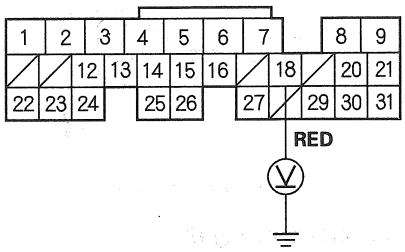
10. Reinstall the A/C compressor clutch relay.

11. Make sure the A/C switch is OFF.

12. Turn the ignition switch ON (II).

13. Using the Backprobe Set, measure the voltage between the No. 18 terminal of ECM/PCM connector E (31P) and body ground with the ECM/PCM connectors connected.

ECM/PCM CONNECTOR E (31P)



Wire side of female terminals

Is there battery voltage?

YES—Update the ECM/PCM if it does not have the latest software, or substitute a known-good ECM/PCM, then recheck (see page 11-6). If the symptom/indication goes away with a known-good ECM/PCM, replace the original ECM/PCM. ■

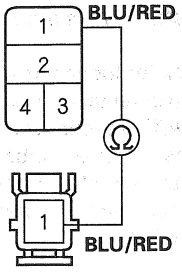
NO—Repair open in the wire between the A/C compressor clutch relay and the ECM/PCM. ■

14. Disconnect the jumper wire.

15. Disconnect the A/C compressor clutch 1P connector.

16. Check for continuity between the No. 1 terminal of the A/C compressor clutch relay 4P socket and the No. 1 terminal of the A/C compressor clutch 1P connector.

A/C COMPRESSOR CLUTCH RELAY 4P SOCKET



A/C COMPRESSOR CLUTCH 1P CONNECTOR
Terminal side of male terminals

Is there continuity?

YES—Check the A/C compressor clutch clearance, the thermal protector, and the A/C compressor clutch field coil (see page 21-50). ■

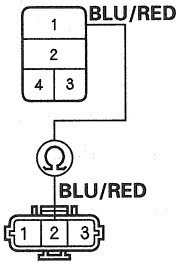
NO—Repair open in the wire between the A/C compressor clutch relay and the A/C compressor clutch. ■

17. Disconnect the jumper wire.

18. Disconnect the A/C compressor clutch 3P connector.

19. Check for continuity between the No. 1 terminal of the A/C compressor clutch relay 4P socket and the No. 2 terminal of the A/C compressor clutch 3P connector.

A/C COMPRESSOR CLUTCH RELAY 4P SOCKET



A/C COMPRESSOR CLUTCH 3P CONNECTOR
Terminal side of male terminals

Is there continuity?

YES—Check the A/C compressor clutch clearance and the A/C compressor clutch field coil (see page 21-50). ■

NO—Repair open in the wire between the A/C compressor clutch relay and the A/C compressor clutch. ■