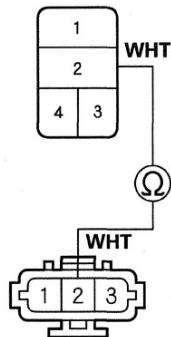


Heating/Air Conditioning

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

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

A/C COMPRESSOR CLUTCH RELAY 4P SOCKET
Terminal side of female terminals



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

Is there continuity?

YES—Check the A/C compressor clutch clearance, the thermal protector circuit, and the A/C compressor clutch field coil (see page 21-43). ■

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

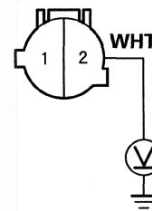
A/C Pressure Switch Circuit Troubleshooting

NOTE:

- Do not use this troubleshooting procedure if any of the following items are operative; the A/C condenser fan, the radiator fan, the A/C compressor, or if the heater is inoperative. Refer to the symptom troubleshooting index.
- Check the A/C high-side pressure.
- Before doing any symptom troubleshooting, check for powertrain DTCs (see page 11-3).

1. Disconnect the A/C pressure switch 2P connector.
2. Turn the ignition switch to ON (II).
3. Measure the voltage between A/C pressure switch 2P connector terminal No. 2 and body ground.

A/C PRESSURE SWITCH 2P CONNECTOR



Wire side of female terminals

Is there battery voltage?

YES—Go to step 4.

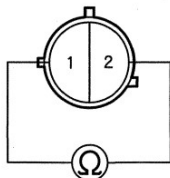
NO—Go to step 20.

4. Turn the ignition switch to LOCK (0).



5. Check for continuity between A/C pressure switch terminals No. 1 and No. 2.

A/C PRESSURE SWITCH



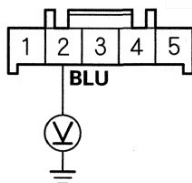
Is there continuity?

YES—Go to step 6.

NO—Replace the A/C pressure switch. ■

6. Reconnect the A/C pressure switch 2P connector.
7. Disconnect the A/C switch 5P connector.
8. Turn the ignition switch to ON (II).
9. Measure the voltage between A/C switch 5P connector terminal No. 2 and body ground.

A/C SWITCH 5P CONNECTOR



Wire side of female terminals

Is there battery voltage?

YES—Go to step 10.

NO—Repair an open in the wire between the A/C pressure switch and the A/C switch. ■

10. Turn the ignition switch to LOCK (0).

11. Test the A/C switch (see page 21-42).

Is the A/C switch OK?

YES—Go to step 12.

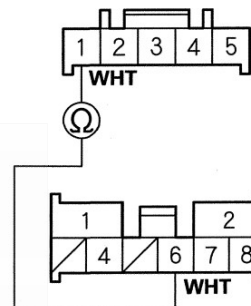
NO—Replace the A/C switch (see page 21-57). ■

12. Disconnect the heater fan switch 8P connector.

13. Check for continuity between A/C switch 5P connector terminal No. 1 and heater fan switch 8P connector terminal No. 6.

A/C SWITCH 5P CONNECTOR

Wire side of female terminals



HEATER FAN SWITCH 8P CONNECTOR

Wire side of female terminals

Is there continuity?

YES—Go to step 14.

NO—Repair an open in the wire between the A/C switch and the heater fan switch. ■

14. Test the heater fan switch (see page 21-11).

Is the heater fan switch OK?

YES—Go to step 15.

NO—Replace the heater fan switch (see page 21-14). ■

15. Remove the evaporator temperature sensor (see page 21-67) and test it (see page 21-43).

Is the evaporator temperature sensor OK?

YES—Go to step 16.

NO—Replace the evaporator temperature sensor (see page 21-67). ■

16. Jump the SCS line with the HDS.

NOTE: This step must be done to protect engine control module/powertrain control module (ECM/PCM) from damage.

17. Disconnect ECM/PCM connector A (49P).

(cont'd)

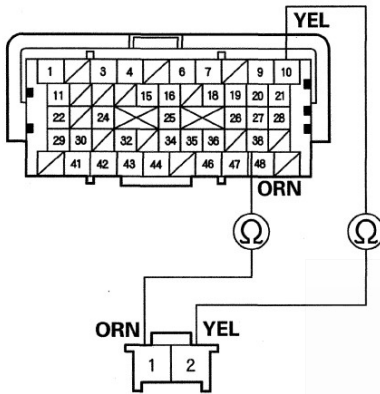
Heating/Air Conditioning

A/C Pressure Switch Circuit Troubleshooting (cont'd)

18. Check for continuity between the following terminals of ECM/PCM connector A (49P) and the evaporator temperature sensor 2P connector.

49P: 2P:
A10 No. 2
A38 No. 1

ECM/PCM CONNECTOR A (49P)
Terminal side of female terminals



EVAPORATOR TEMPERATURE SENSOR 2P CONNECTOR
Wire side of female terminals

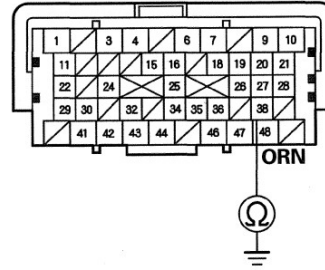
Is there continuity?

YES—Go to step 19.

NO—Repair an open in the wire(s) between the ECM/PCM and the evaporator temperature sensor. ■

19. Check for continuity between ECM/PCM connector A38 and body ground.

ECM/PCM CONNECTOR A (49P)



Terminal side of female terminals

Is there continuity?

YES—Repair a short to body ground in the wire between the ECM/PCM and the evaporator temperature sensor. ■

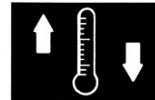
NO—Check for loose wires or poor connections at ECM/PCM connector A (49P), the evaporator temperature sensor 2P connector, the A/C pressure switch 2P connector, the A/C switch 5P connector, and at the heater fan switch 8P connector. If the connections are good, substitute a known-good ECM/PCM (see page 11-7), and recheck. If the symptom/indication goes away, replace the original ECM/PCM (see page 11-215). ■

20. Turn the ignition switch to LOCK (0).

21. Reconnect the A/C pressure switch 2P connector.

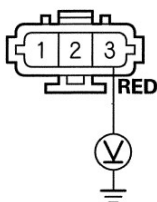
22. Disconnect the A/C compressor clutch 3P connector.

23. Turn the ignition switch to ON (II).



24. Measure the voltage between A/C compressor clutch 3P connector terminal No. 3 and body ground.

A/C COMPRESSOR CLUTCH 3P CONNECTOR



Terminal side of male terminals

Is there battery voltage?

YES—Go to step 25.

NO—Go to step 27.

25. Turn the ignition switch to LOCK (0).
26. Test the A/C compressor thermal protector (see page 21-43).

Is the A/C compressor thermal protector OK?

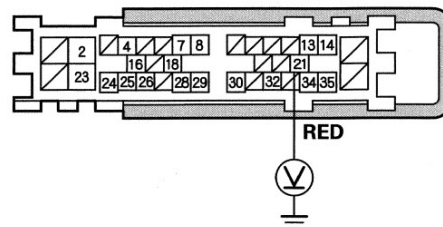
YES—Repair an open in the wire between the A/C compressor clutch and the A/C pressure switch. ■

NO—Replace the A/C compressor thermal protector (see page 21-62). ■

27. Turn the ignition switch to LOCK (0).
28. Reconnect the A/C pressure switch 3P connector.
29. Make sure the A/C switch is OFF.
30. Turn the ignition switch to ON (II).

31. Measure the voltage between under-dash fuse/relay box connector A (36P) terminal No. 21 and body ground with the under-dash fuse/relay box connectors connected.

UNDER-DASH FUSE/RELAY BOX CONNECTOR A (36P)



Wire side of female terminals

Is there battery voltage?

YES—Repair an open in the wire between the A/C compressor and the MICU. ■

NO—Check for loose wires or poor connections at the under-dash fuse/relay box. If the connections are OK, substitute a known-good MICU and recheck. If the symptom goes away, replace the original MICU. ■