A/C Condenser Fan Circuit Troubleshooting

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

1. Check the No. 47 (30 A) and the No. 10 (7.5 A) fuses in the under-dash fuse/relay box.

   Are the fuses OK?

   YES–Go to step 2.

   NO–Replace the blown fuses, and recheck. If either fuse blows again, check for a short in the No. 47 (30 A) or No. 10 (7.5 A) fuse circuits.■

2. Remove the A/C condenser fan relay from the auxiliary under-hood relay box, and test it (see page 22-76).

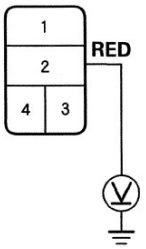
   Is the relay OK?

   YES–Go to step 3.

   NO–Replace the A/C condenser fan relay.■

3. Measure the voltage between A/C condenser fan relay 4P socket terminal No. 2 and body ground.

   A/C CONDENSER FAN RELAY 4P SOCKET



   Terminal side of female terminals

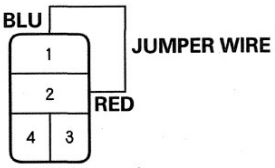
   Is there battery voltage?

   YES–Go to step 4.

   NO–Repair an open in the wire between the No. 47 (30 A) fuse in the under-dash fuse/relay box and the A/C condenser fan relay.■

4. Connect the A/C condenser fan relay 4P socket terminals No. 1 and No. 2 with a jumper wire.

   A/C CONDENSER FAN RELAY 4P SOCKET



   Terminal side of female terminals

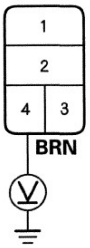
   Does the A/C condenser fan run?

   YES–Go to step 5.

   NO–Go to step 8.

5. Disconnect the jumper wire.
6. Turn the ignition switch to ON (II).
7. Measure the voltage between A/C condenser fan relay 4P socket terminal No. 4 and body ground.

   A/C CONDENSER FAN RELAY 4P SOCKET



   Terminal side of female terminals

   Is there battery voltage?

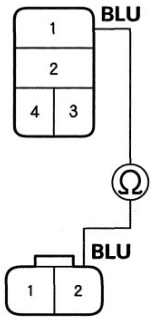
   YES–Repair an open in the wire between the A/C condenser fan relay and the ECM/PCM.■

   NO–Repair an open in the wire between the No. 10 (7.5 A) fuse in the under-dash fuse/relay box and the A/C condenser fan relay.■

8. Disconnect the jumper wire.
9. Disconnect the A/C condenser fan 2P connector.

10. Check for continuity between A/C condenser fan relay 4P socket terminal No. 1 and A/C condenser fan motor 2P connector terminal No. 2.

A/C CONDENSER FAN RELAY 4P SOCKET
Terminal side of female terminals



A/C CONDENSER FAN 2P MOTOR CONNECTOR
Wire side of female terminals

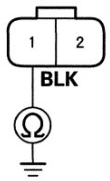
Is there continuity?

YES–Go to step 11.

NO–Repair an open in the wire between the A/C condenser fan relay and the A/C condenser fan motor.■

11. Check for continuity between A/C condenser fan 2P motor connector terminal No. 1 and body ground.

A/C CONDENSER FAN 2P MOTOR CONNECTOR



Wire side of female terminals

Is there continuity?

YES–Replace the A/C condenser fan motor (see page 10-15).■

NO–Check for an open in the wire between the A/C condenser fan motor and body ground. If the wire is OK, check for poor ground at G301 (see page 22-26).■

Radiator and A/C Condenser Fan Common Circuit Troubleshooting

NOTE:

- Do not use this troubleshooting procedure if the A/C compressor is inoperative. Refer to the symptom troubleshooting index.
- Before doing any symptom troubleshooting, check for powertrain DTCs (see page 11-3).

1. Remove the radiator fan relay and A/C condenser fan relay from the auxiliary under-hood relay box, and test them (see page 22-76).

   Are the relays OK?

   YES–Go to step 2.

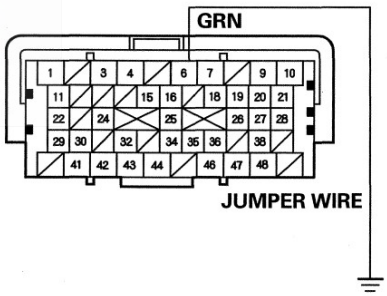
   NO–Replace the relays.■

2. Reinstall the relays.
3. Jump the SCS line with the HDS.

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

4. Disconnect ECM/PCM connector A (49P).
5. Connect the ECM/PCM connector A6 to body ground with a jumper wire.

ECM/PCM CONNECTOR A (49P)



Terminal side of female terminals

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

   Do the fans run?

   YES–Check for loose wires or poor connections at ECM/PCM connector A (49P). 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).■

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