

2007-2008 ENGINE

Fan Controls - TL

COMPONENT LOCATION INDEX

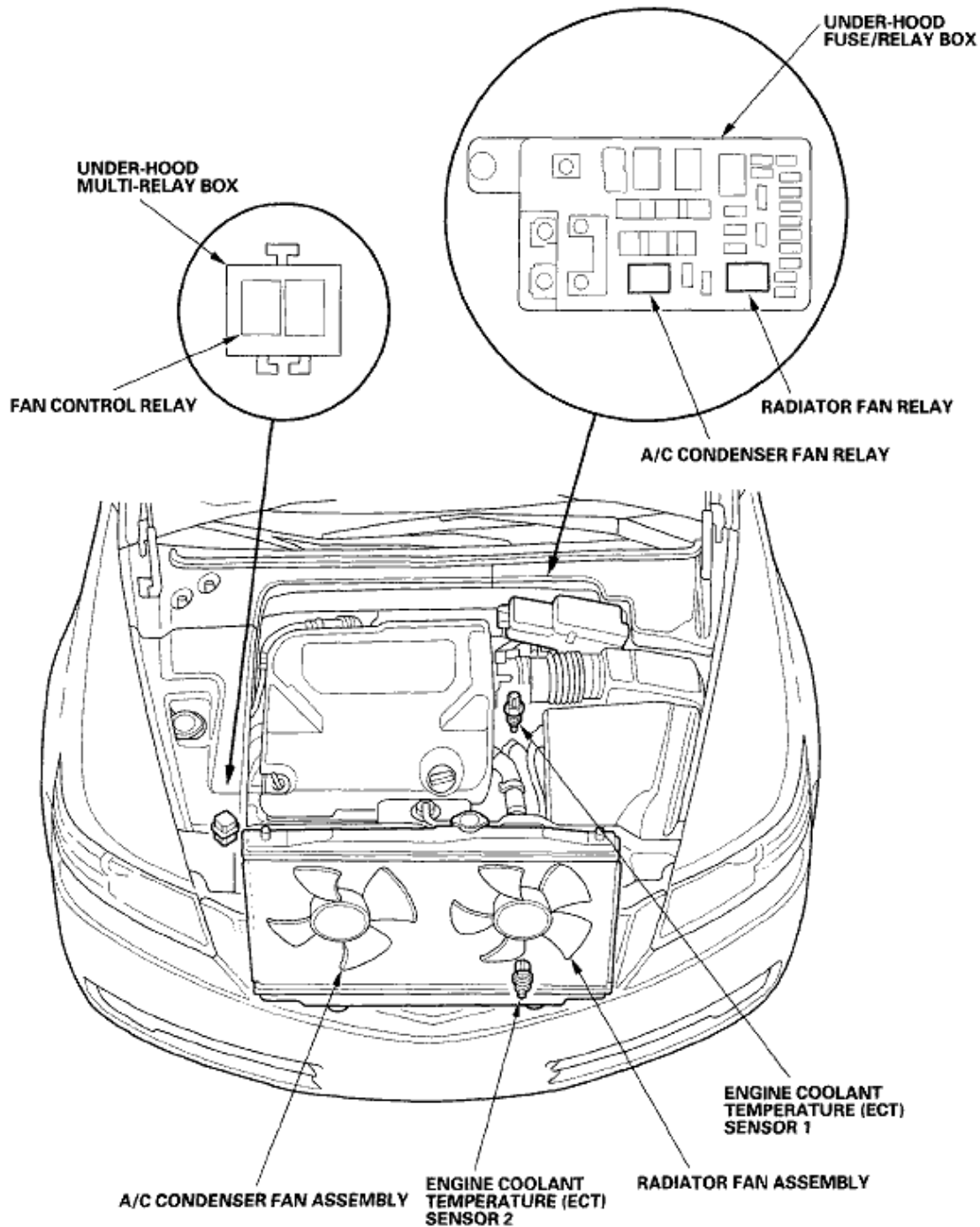


Fig. 1: Identifying Fan Controls Component Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

SYMPTOM TROUBLESHOOTING CHART

Symptom	Diagnostic Procedure	Also check for
Engine overheats	1. Check the coolant level. 2. Check for any engine coolant leaks (from gaskets, hoses, O-rings, etc.). 3. Check for dirt, leaves, or insects on the radiator and A/C condenser. 4. Check for deteriorated coolant. 5. Check for a damaged or deformed fan shroud. 6. Inspect the fan motors (see <u>FAN MOTOR TEST</u>) or fan relays (see <u>POWER RELAY TEST</u>). 7. Check the radiator cap (see <u>RADIATOR CAP TEST</u>). 8. Check the thermostat (see <u>THERMOSTAT TEST</u>). 9. Inspect the water pump (see <u>WATER PUMP INSPECTION</u>). 10. Check for plugged or deteriorated radiator hoses. 11. Check for plugged heater core or hoses. 12. Check for a damaged cylinder head gasket.	
The radiator fan runs at low speed, but it does not run at high speed when the engine coolant temperature is above 206°F (97°C)	Radiator fan high speed circuit troubleshooting (see <u>RADIATOR FAN HIGH SPEED CIRCUIT TROUBLESHOOTING</u>).	
With the A/C off and the engine coolant temperature at 206°F (97°C) or below, the A/C condenser fan runs at high speed and the radiator fan does not run. When the engine coolant temperature is above 206°F (97°C), both fans run at high speed	Remove the fan control relay, and test it. • If the relay is faulty, replace it. • If the relay is OK, repair short in the wire between fan control relay 5P socket terminal No. 1 and A/C condenser fan motor 2P connector terminal No. 1.	
The radiator fan and the A/C condenser fan run at high speed with the ignition switch ON (II), the A/C off, and the engine coolant temperature below 204°F (95°C)	Check for short in the wire between radiator fan relay 4P socket terminal No. 4 and ECM/PCM connector terminal B10.	
Both the radiator fan and the A/C condenser fan run at low speed with the ignition switch ON (II) and the A/C off	Check for short in the wire between A/C condenser fan relay 4P socket terminal No. 4 and ECM/PCM connector terminal E6.	
Both the radiator fan and the A/C condenser fan do not run at low speed with the A/C on	Radiator and A/C condenser fans low speed circuit troubleshooting (see <u>RADIATOR AND A/C CONDENSER FAN LOW SPEED</u>)	

The A/C condenser fan does not run at all. The radiator fan does not run at low speed, but it runs at high speed	CIRCUIT TROUBLESHOOTING). The A/C condenser fans high speed circuit troubleshooting (see <u>A/C CONDENSER FAN HIGH SPEED CIRCUIT TROUBLESHOOTING).</u>	
Both the radiator fan and the A/C condenser fan do not run at high speed when the engine coolant temperature is above 206°F (97°C)	Check for open in the wire between radiator fan relay 4P socket terminal No. 4 and ECM/PCM connector terminal B10.	

CIRCUIT DIAGRAM

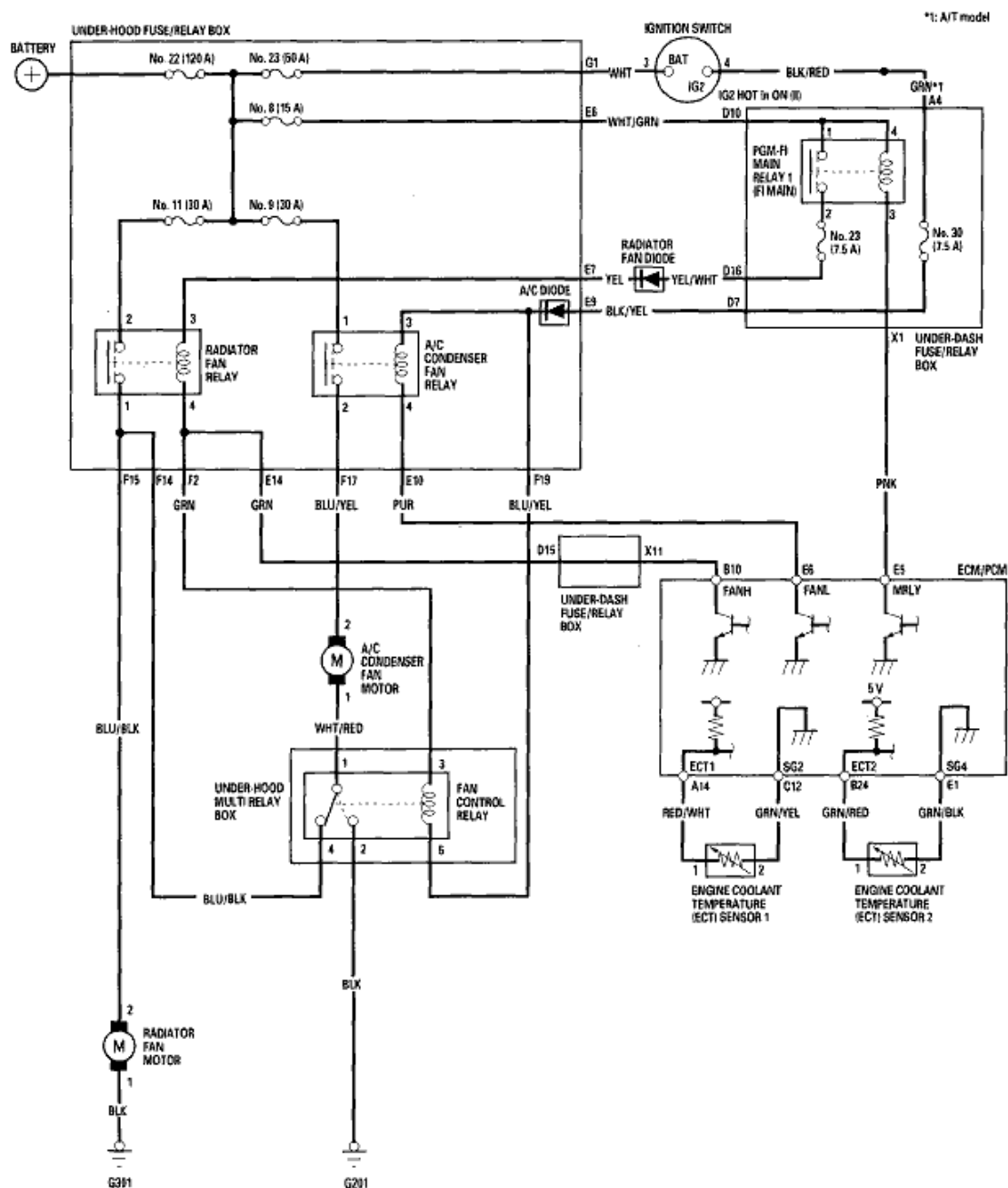


Fig. 2: Fan Controls - Circuit Diagram

Courtesy of AMERICAN HONDA MOTOR CO., INC.

RADIATOR FAN HIGH SPEED CIRCUIT TROUBLESHOOTING

1. Check the No. 11 (30 A) fuse in the under-hood fuse/relay box, and the No. 23 (7.5 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. Remove the radiator fan relay from the under-hood fuse/relay box and test it (see **POWER RELAY TEST**).

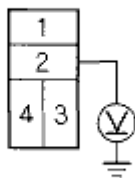
Is the relay OK?

YES -Go to step 3.

NO -Replace the radiator fan relay.

3. Measure the voltage between radiator fan relay 4P socket terminal No. 2 and body ground.

RADIATOR FAN RELAY 4P SOCKET



Terminal side of female terminals

Fig. 3: Measuring Voltage Between Radiator Fan Relay 4P Socket Terminal No. 2 And Body Ground

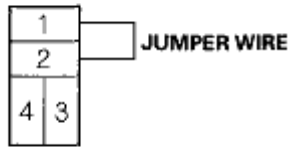
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 4.

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

4. Connect radiator fan relay 4P socket terminals No. 1 and No. 2 with a jumper wire.

RADIATOR FAN RELAY 4P SOCKET

Terminal side of female terminals

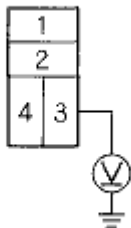
Fig. 4: Connecting Radiator Fan Relay 4P Socket Terminals No. 1 And 2 With Jumper Wire
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Does the radiator fan run at high speed?

YES -Go to step 5.

NO -Repair open in the wire between radiator fan relay 4P socket terminal No. 1 and radiator fan motor 2P connector terminal No. 2.

5. Turn the ignition switch ON (II).
6. Measure the voltage between radiator fan relay 4P socket terminal No. 3 and body ground.

RADIATOR FAN RELAY 4P SOCKET

Terminal side of female terminals

Fig. 5: Measuring Voltage Between Radiator Fan Relay 4P Socket Terminal No. 3 And Body Ground
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Repair open in the wire between radiator fan relay 4P socket terminal No. 4 and the engine control module (ECM)/powertrain control module (PCM)B10.

NO -Repair open in the wire between radiator fan relay 4P socket terminal No. 3 and the under-dash fuse/relay box.