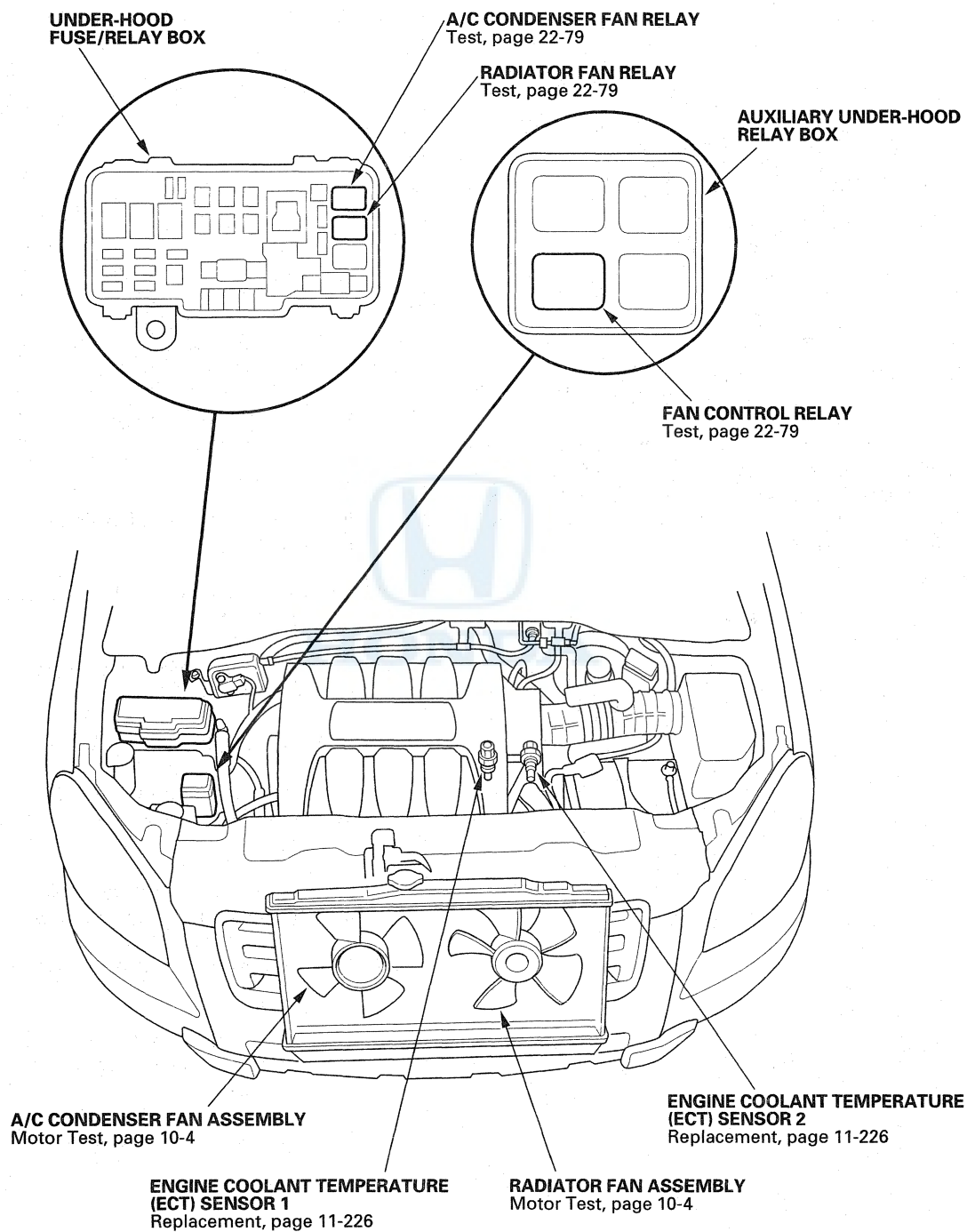


Fan Controls

Component Location Index



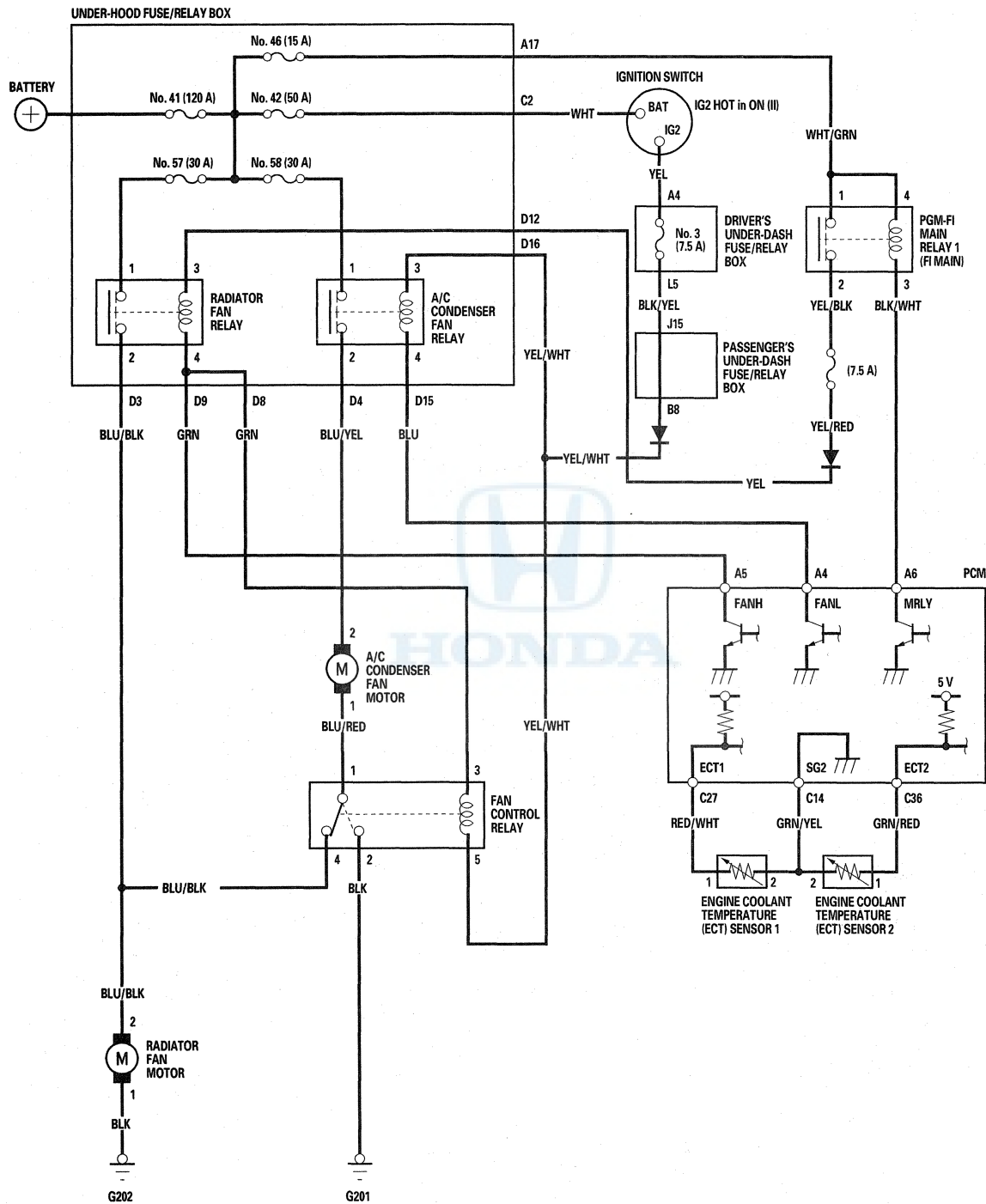


Symptom Troubleshooting Index

Symptom	Diagnostic Procedure	Also check for
Engine overheats	<ol style="list-style-type: none"> 1. Check the coolant level. 2. Check for any engine coolant leakage (from gaskets, hoses, O-rings, etc.). 3. Check for dirt, leaves, or insects on 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 page 10-4) or fan control relays (see page 22-82). 7. Check the radiator cap (see page 10-3). 8. Check the thermostat (see page 10-4). 9. Inspect the water pump (see page 10-5). 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 page 10-19).	
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. <ul style="list-style-type: none"> • If the relay is faulty, replace it. • If the relay is OK, check for short in the wire between fan control relay 5P socket terminal No. 1 and A/C condenser fan motor 2P connector terminal No. 1. 	
Both 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 PCM connector terminal A5.	
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 PCM connector terminal A4.	
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 page 21-29).	
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	A/C condenser fans low speed circuit troubleshooting (see page 21-29).	
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 PCM connector terminal A5.	

Fan Controls

Circuit Diagram





Radiator Fan High Speed Circuit Troubleshooting

1. Check the No. 57 (30 A) fuse and the No. 46 (15 A) fuse in the under-hood fuse/relay box.

Are the fuses OK?

YES—Reinstall the fuse, then 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 page 22-82).

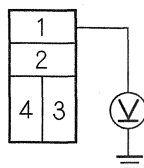
Is the relay OK?

YES—Go to step 3.

NO—Replace the radiator fan relay. ■

3. Measure the voltage between radiator fan relay 4P socket terminal No.1 and body ground.

RADIATOR FAN RELAY 4P SOCKET



Terminal side of female terminals

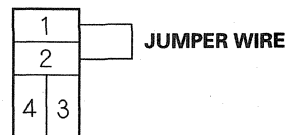
Is there battery voltage?

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

Does the radiator fan run at high speed?

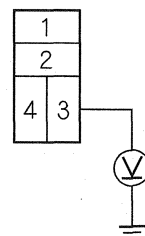
YES—Go to step 5.

NO—Repair open in the wire between radiator fan relay 4P socket terminal No. 2 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

Is there battery voltage?

YES—Repair open in the wire between radiator fan relay 4P socket terminal No. 4 and the powertrain control module (PCM). ■

NO—Repair open in the wire between radiator fan relay 4P socket terminal No. 3 and the PGM-FI main relay 1 4P socket terminal No. 2. ■