

Engine Cooling

Cooling System

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Fan Controls

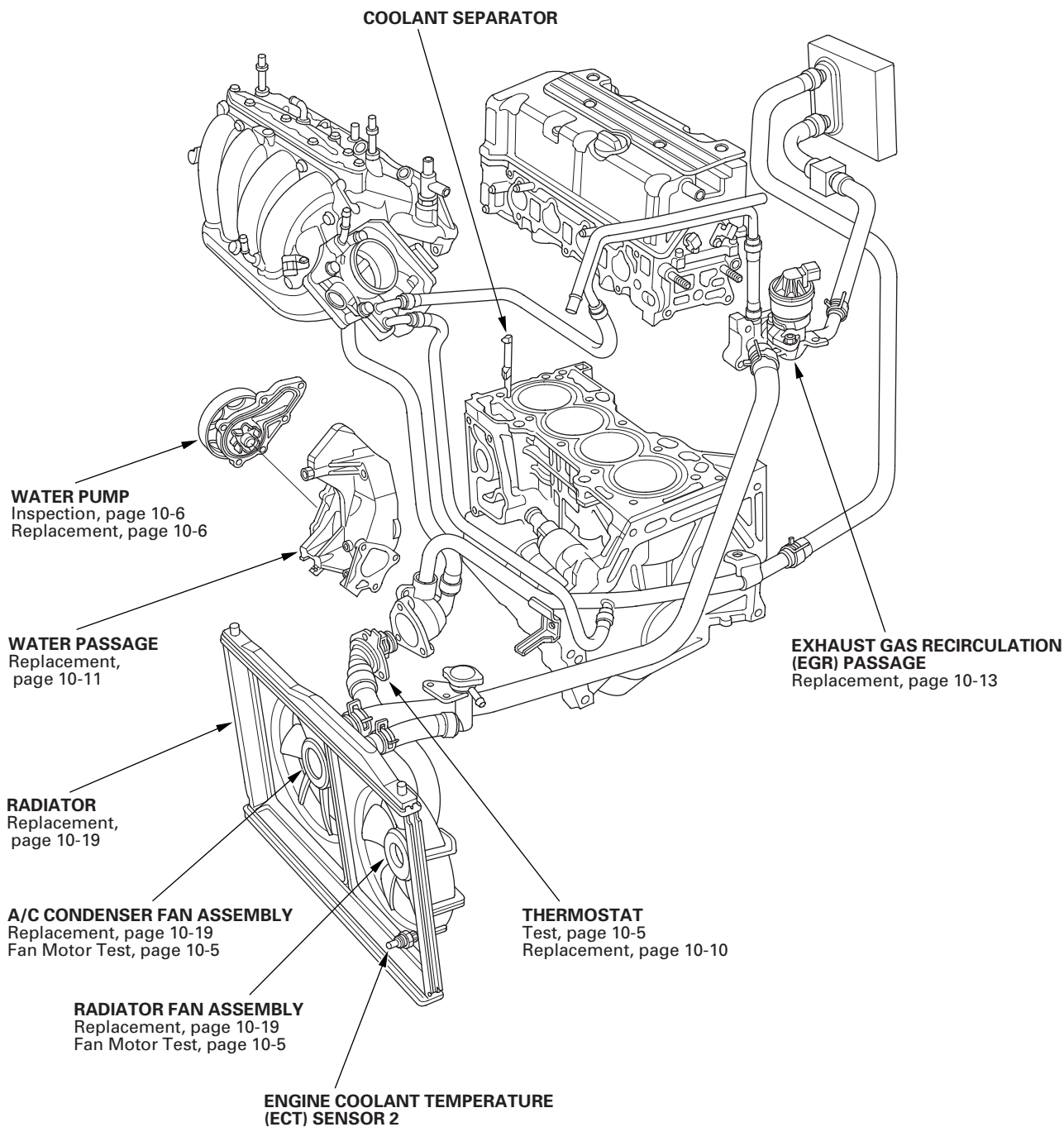
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Cooling System

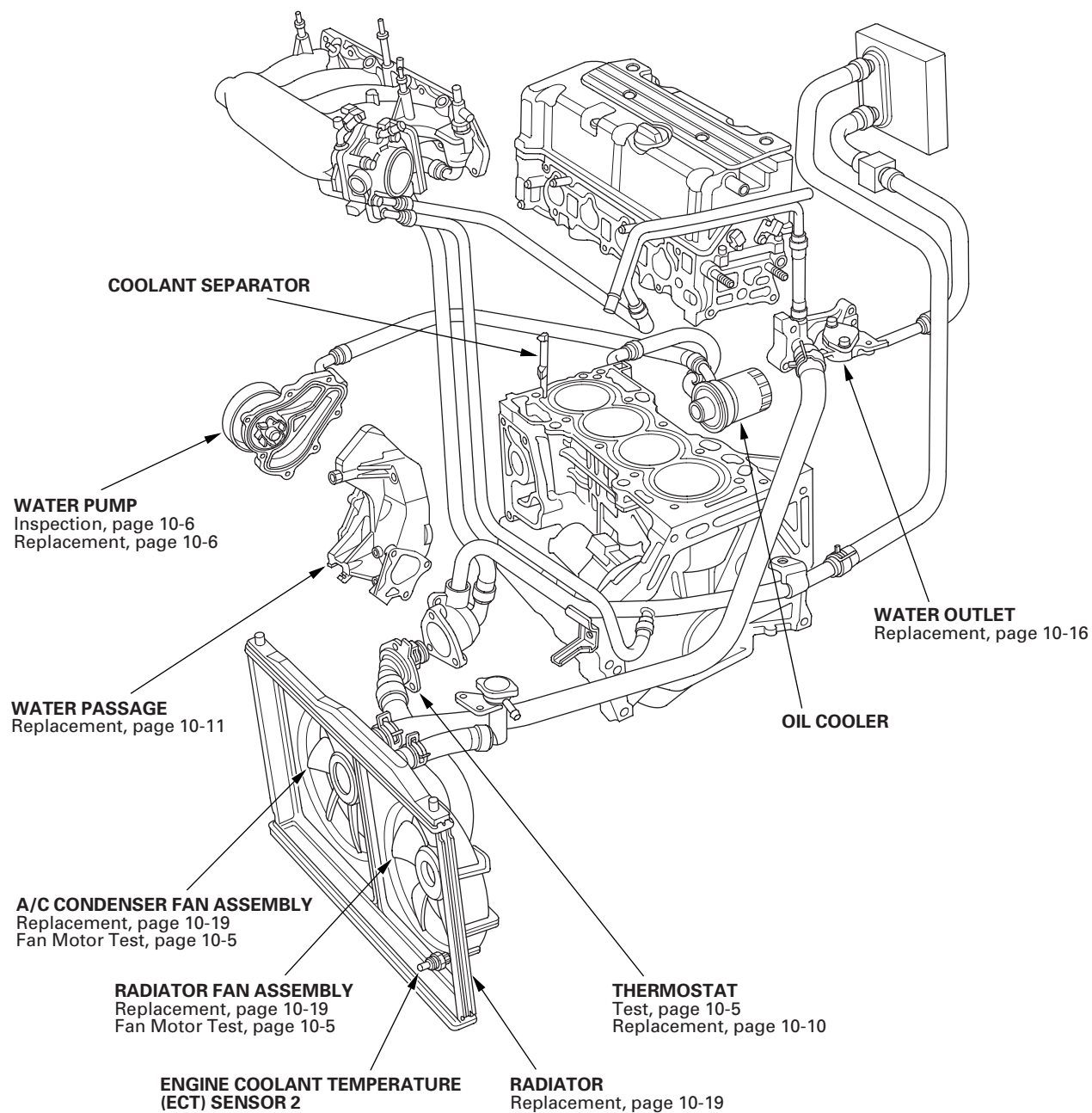
Component Location Index

K20Z2 engine





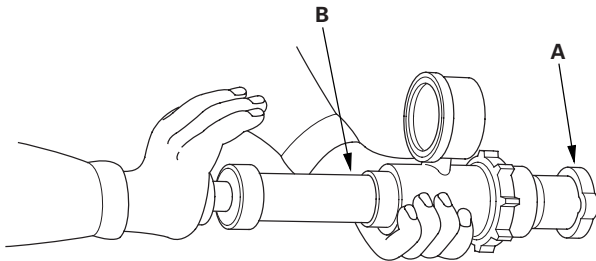
K20Z3 engine



Cooling System

Radiator Cap Test

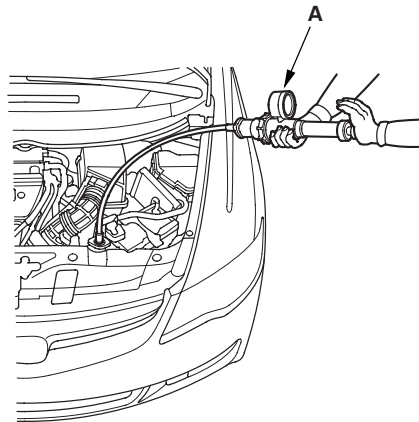
1. Wait until the engine is cool, then carefully remove the radiator cap (A). Wet the radiator cap seal with engine coolant, then install it on a commercially available pressure tester (B).



2. Apply a pressure of 93—123 kPa (0.95—1.25 kgf/cm², 14—18 psi).
3. Check for a drop in pressure.
4. If the pressure drops, replace the cap.

Radiator Test

1. Wait until the engine is cool, then carefully remove the radiator cap and fill the radiator with engine coolant to the base of the filler neck.
2. Attach a commercially available pressure tester (A) to the radiator, and apply a pressure of 93—123 kPa (0.95—1.25 kgf/cm², 14—18 psi).

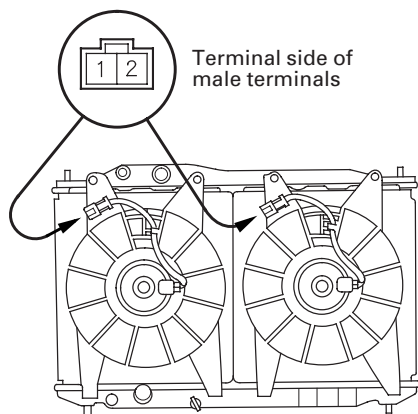


3. Inspect for engine coolant leaks and a drop in pressure.
4. Check for engine oil in the coolant and/or coolant in the engine oil.
5. Remove the tester, and reinstall the radiator cap.



Fan Motor Test

1. Disconnect the 2P connectors from the radiator fan motor and the A/C condenser fan motor.



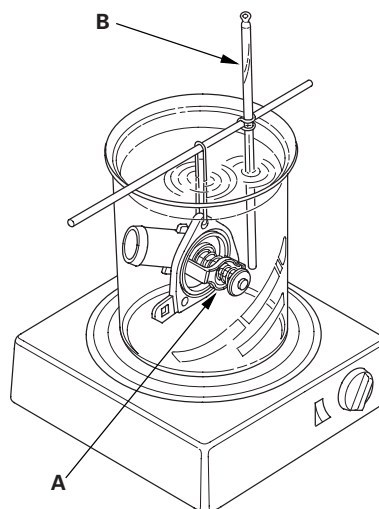
2. Test the motor by connecting battery power to terminal No. 2 and ground to terminal No. 1.
3. If the motor fails to run or does not run smoothly, replace it (see page 10-19).

Thermostat Test

Replace the thermostat if it is stuck in the open position at room temperature.

To test a closed thermostat:

1. Suspend the thermostat (A) in a container of water. Do not let the thermostat and the thermometer (B) touch the bottom of the hot container.



2. Heat the water, and check the temperature with a thermometer. Check the temperature when the thermostat first opens, then check the temperature again when the thermostat is fully open.
3. Measure the lift height of the thermostat when it is fully open. If it thermostat is not within the specification, replace it.

Standard Thermostat

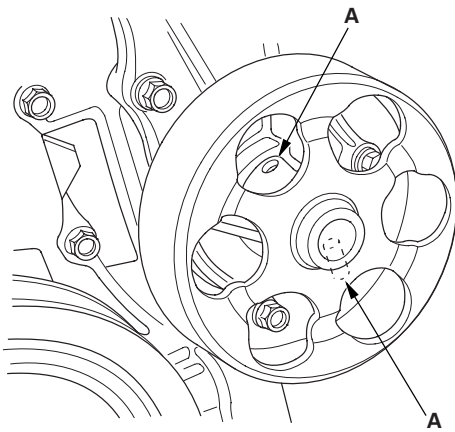
Lift Height: Above 8.0 mm (0.31 in.)
Starts Opening: 76—80 °C (169—176 °F)
Fully Open: 90 °C (194 °F)

Cooling System

Water Pump Inspection

1. Remove the drive belt (see page 4-31).
2. Turn the water pump pulley counterclockwise, and check that it turns freely and smoothly. If it does not turn smoothly, replace the water pump (see page 10-6).

NOTE: When you check the water pump, you may see a small amount of "weeping" from the bleed holes (A). This is normal.

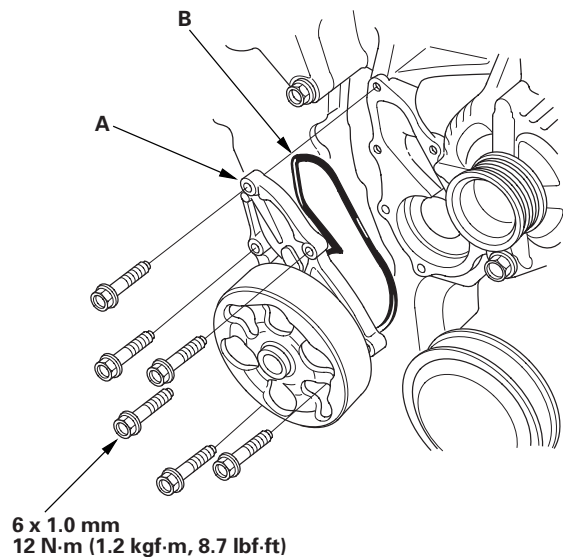


3. Install the drive belt (see page 4-31).

Water Pump Replacement

K20Z2 engine

1. Remove the drive belt (see page 4-31).
2. Drain the engine coolant (see page 10-8).
3. Remove the drive belt auto-tensioner pulley (see page 4-33).
4. Remove the crankshaft pulley (see page 6-16).
5. Remove the six bolts securing the water pump, then remove the water pump (A).



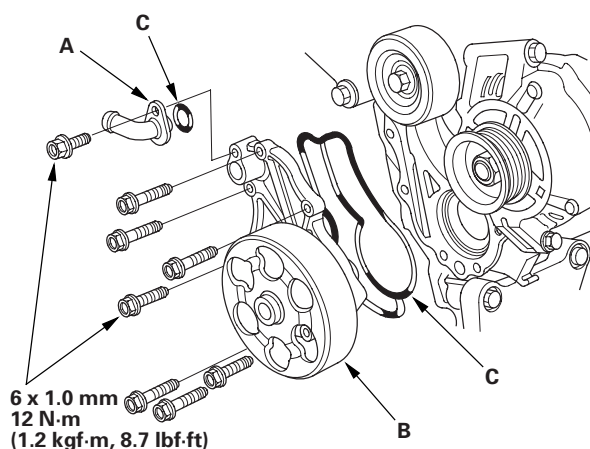
6. Inspect, and clean the O-ring groove and mating surface of the water passage.
7. Install the water pump with a new O-ring (B).
8. Clean up any spilled engine coolant.
9. Install the crankshaft pulley (see page 6-17).
10. Install the drive belt auto-tensioner pulley (see page 4-33).
11. Install the drive belt (see page 4-31).
12. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).



Coolant Check

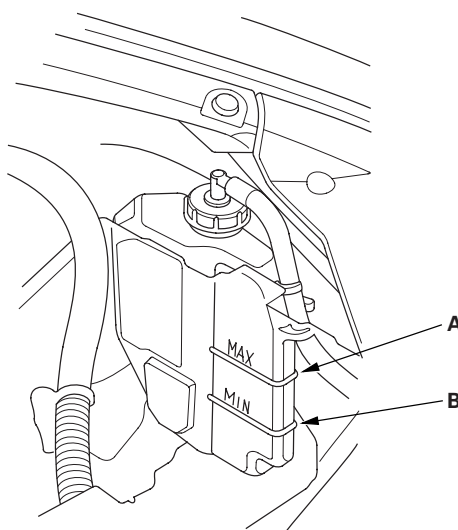
K20Z3 engine

1. Remove the drive belt (see page 4-31).
2. Drain the engine coolant (see page 10-8).
3. Remove the drive belt auto-tensioner pulley (see page 4-33).
4. Remove the crankshaft pulley (see page 6-16).
5. Remove the oil cooler joint pipe (A), then remove the seven bolts securing the water pump. Remove the water pump (B).



6. Inspect, and clean the O-ring groove and mating surface of the water passage.
7. Install the water pump with new O-rings (C) and the oil cooler joint pipe.
8. Clean up any spilled engine coolant.
9. Install the crankshaft pulley (see page 6-17).
10. Install the drive belt auto-tensioner pulley (see page 4-33).
11. Install the drive belt (see page 4-31).
12. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).

1. Check the coolant level in the coolant reservoir. Make sure it is between the MAX mark (A) and MIN mark (B).



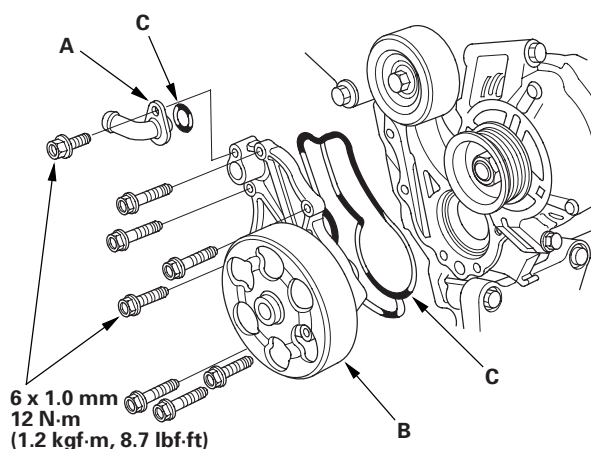
2. If the coolant level in the coolant reservoir is at or below the MIN mark, add coolant to bring it up to the MAX mark, then inspect the cooling system for leaks.



Coolant Check

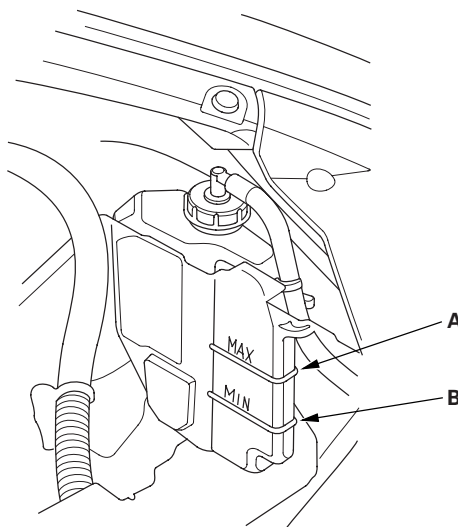
K20Z3 engine

1. Remove the drive belt (see page 4-31).
2. Drain the engine coolant (see page 10-8).
3. Remove the drive belt auto-tensioner pulley (see page 4-33).
4. Remove the crankshaft pulley (see page 6-16).
5. Remove the oil cooler joint pipe (A), then remove the seven bolts securing the water pump. Remove the water pump (B).



6. Inspect, and clean the O-ring groove and mating surface of the water passage.
7. Install the water pump with new O-rings (C) and the oil cooler joint pipe.
8. Clean up any spilled engine coolant.
9. Install the crankshaft pulley (see page 6-17).
10. Install the drive belt auto-tensioner pulley (see page 4-33).
11. Install the drive belt (see page 4-31).
12. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).

1. Check the coolant level in the coolant reservoir. Make sure it is between the MAX mark (A) and MIN mark (B).

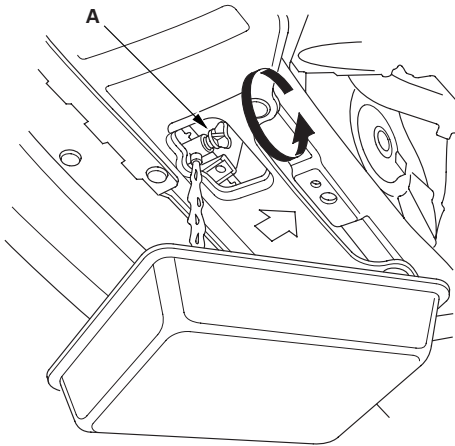


2. If the coolant level in the coolant reservoir is at or below the MIN mark, add coolant to bring it up to the MAX mark, then inspect the cooling system for leaks.

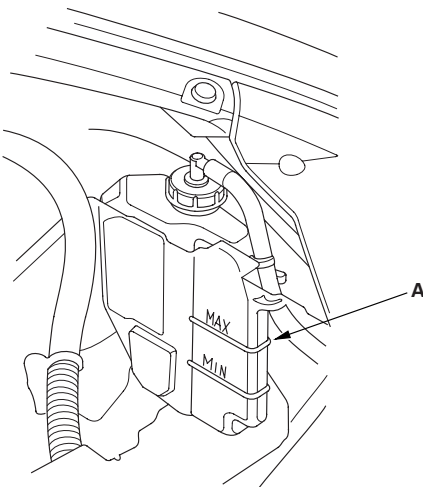
Cooling System

Coolant Replacement

1. Wait until the engine is cool, then carefully remove the radiator cap.
2. Start the engine. Set the heater temperature control dial to maximum heat, then turn the ignition switch to LOCK (0). Make sure the engine and the radiator are cool to the touch.
3. Loosen the drain plug (A), and drain the coolant.



4. After the coolant has drained, tighten the radiator drain plug securely.
5. Remove, drain, and reinstall the coolant reservoir.
6. Fill the coolant reservoir to the MAX mark (A) with Honda Long Life Antifreeze/Coolant Type 2 (P/N CA66688).



7. Pour Honda Long Life Antifreeze/Coolant Type 2 into the radiator up to the base of the filler neck.

NOTE:

- Always use Honda Long Life Antifreeze/Coolant Type 2. Using a non-Acura coolant can result in corrosion, causing the cooling system to malfunction or fail.
- Honda Long Life Antifreeze/Coolant Type 2 is a mixture of 50 % antifreeze and 50 % water. Do not add water.

K20Z2 engine

Engine Coolant Capacities (Including the coolant reservoir capacity of 0.4 L (0.11 US gal))

M/T model:

After Coolant Change: 4.3 L (1.14 US gal)

After Engine Overhaul: 6.6 L (1.74 US gal)

A/T model:

After Coolant Change: 4.2 L (1.11 US gal)

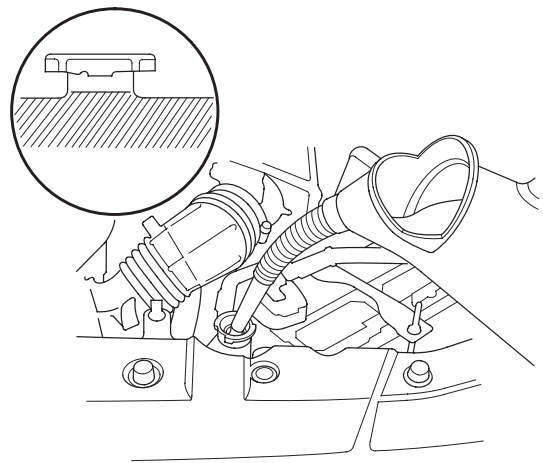
After Engine Overhaul: 6.5 L (1.72 US gal)

K20Z3 engine

Engine Coolant Capacities (Including the coolant reservoir capacity of 0.4 L (0.11 US gal))

After Coolant Change: 4.5 L (1.19 US gal)

After Engine Overhaul: 6.8 L (1.80 US gal)



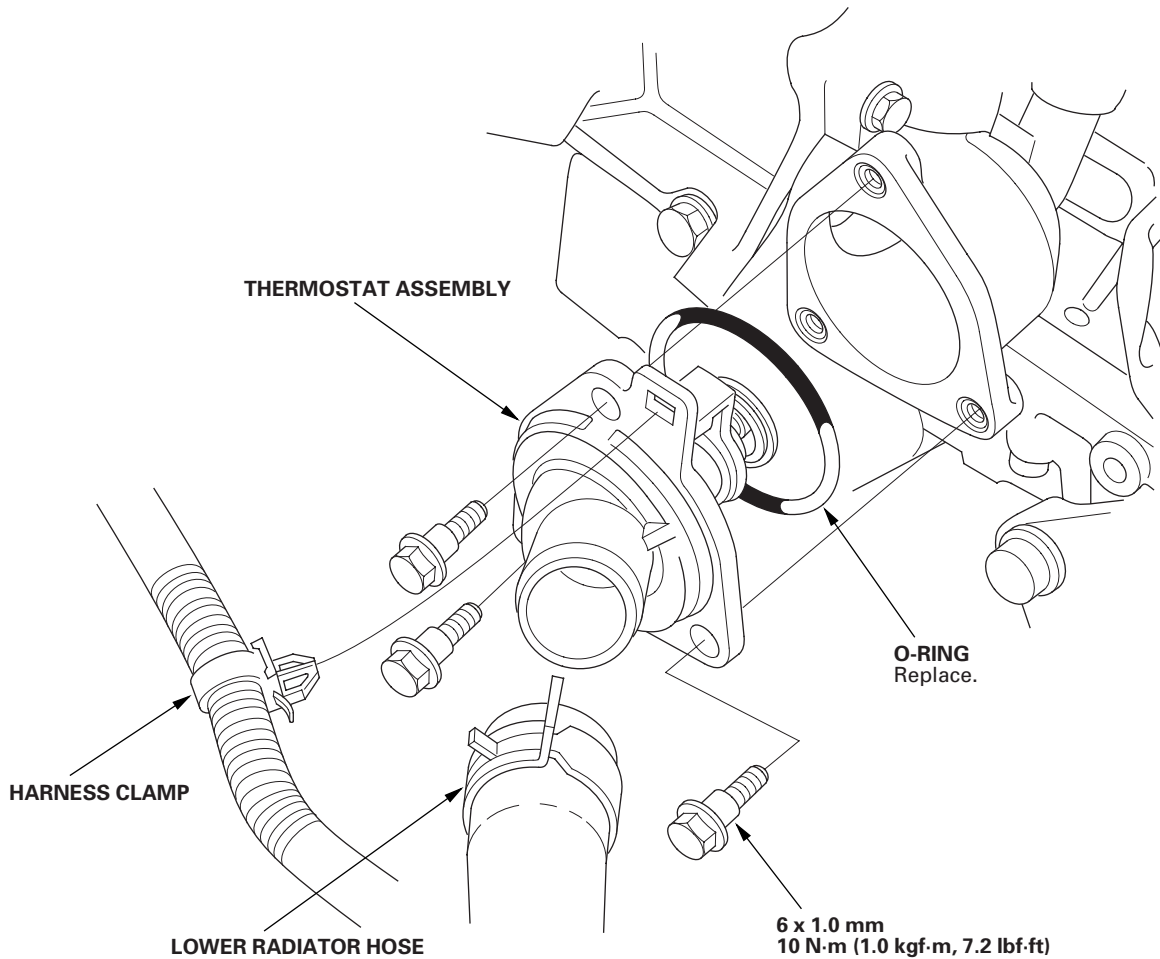


8. Loosely install the radiator cap.
9. Set the heater temperature control dial to maximum heat.
10. Start the engine, and let it run until it warms up (the radiator fan comes on at least twice).
11. Turn off the engine. Check the level in the radiator, and add Honda Long Life Coolant/Antifreeze Type 2, if needed.
12. Install the radiator cap securely, then start the engine again, and check for leaks.
13. Clean up any spilled engine coolant.
14. If the maintenance minder required engine coolant replacement, reset the maintenance minder (see page 3-6), and this procedure is complete. If the maintenance minder did not require engine coolant replacement, go to step 15.
15. Turn the ignition switch to LOCK (0).
16. Connect the Honda Diagnostic System (HDS) to the data link connector (DLC) (see step 2 on page 11-3).
17. Turn the ignition switch to ON (II).
18. Make sure the HDS communicates with the vehicle and the engine control module (ECM)/powertrain control module (PCM). If it does not communicate, troubleshoot the DLC circuit (see page 11-204).
19. Select GAUGES in the BODY ELECTRICAL menu with the HDS.
20. Select ADJUSTMENT in the GAUGES with the HDS.
21. Select SERVICE REMINDER in the ADJUSTMENT menu with the HDS.
22. Select RESET in the SERVICE REMINDER menu with the HDS.
23. Select MAINTENANCE SUB ITEM 5 RESET menu with the HDS.

Cooling System

Thermostat Replacement

1. Drain the engine coolant (see page 10-8).
2. Remove the splash shield (see step 25 on page 5-5).
3. Remove the lower radiator hose, then remove the thermostat.

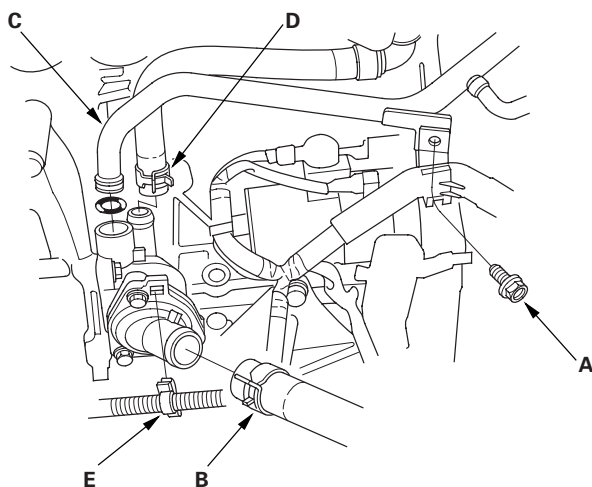


4. Install the new thermostat assembly with a new O-ring, then install the lower radiator hose.
5. Install the splash shield (see step 40 on page 5-20).
6. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
7. Clean up any spilled engine coolant.



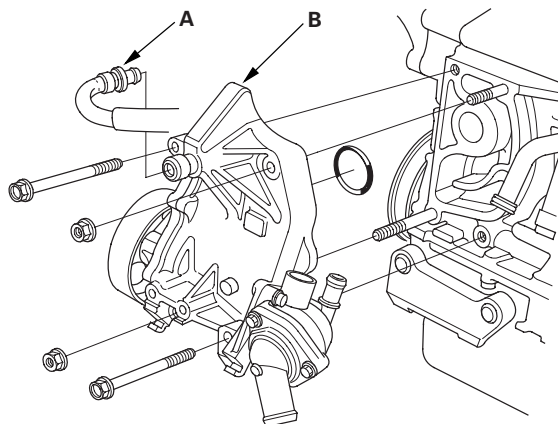
Water Passage Replacement

1. Drain the engine coolant (see page 10-8).
2. Remove the alternator (see page 4-34).
3. Remove the A/C condenser fan shroud assembly.
4. Remove the A/C compressor without disconnecting the A/C hoses (see step 40 on page 5-7).
5. Remove the intake manifold:
 - K20Z2 engine (see page 9-3)
 - K20Z3 engine (see page 9-7)
6. Remove the bolt (A) securing the connecting pipe.

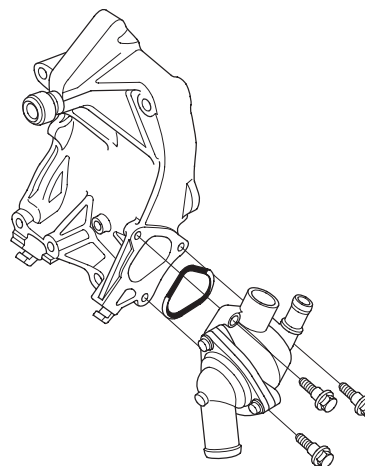


7. Disconnect the lower radiator hose (B), the connecting pipe (C), and the water bypass hose (D), and remove the harness clamp (E).

8. Disconnect the positive crankcase ventilation (PCV) hose (A), then remove the water passage (B).



9. Remove the thermostat housing.



10. Remove the water pump:

- K20Z2 engine (see page 10-6)
- K20Z3 engine (see page 10-7)

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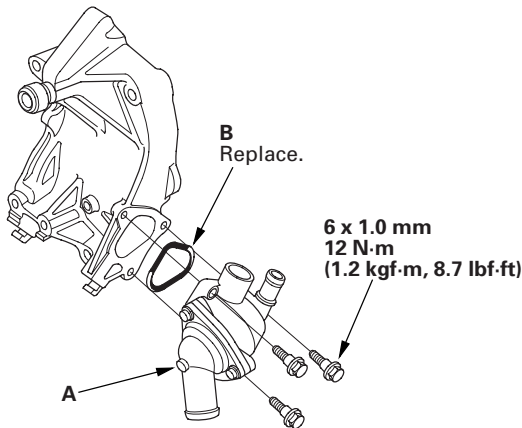
Cooling System

Water Passage Replacement (cont'd)

11. Install the water pump:

- K20Z2 engine (see page 10-6)
- K20Z3 engine (see page 10-7)

12. Install the thermostat housing (A) with a new O-ring (B).

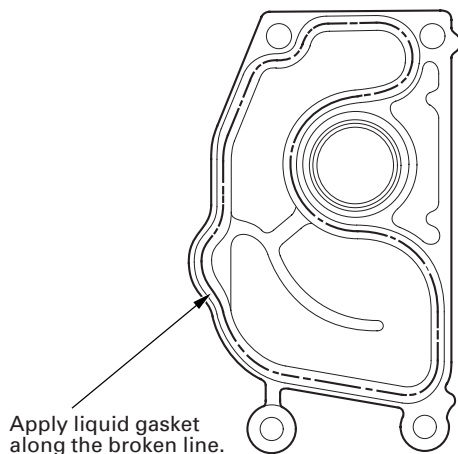


13. Clean and dry the water passage mating surfaces.

14. Apply liquid gasket, P/N 08717-0004, 08718-0001, 08718-0003, or 08718-0009, evenly to the engine block mating surface of the water passage, and to the inside edge of the threaded bolt holes. Install the component within 5 minutes of applying the liquid gasket.

NOTE:

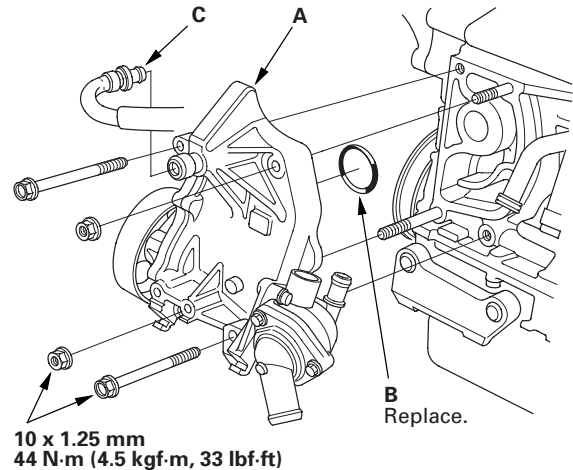
- If you apply liquid gasket P/N 08718-0012, the component must be install within 4 minutes.
- If too much time has passed after applying the liquid gasket, remove the old liquid gasket and residue, then reapply new liquid gasket.



15. Install the water passage (A) with a new O-ring (B).

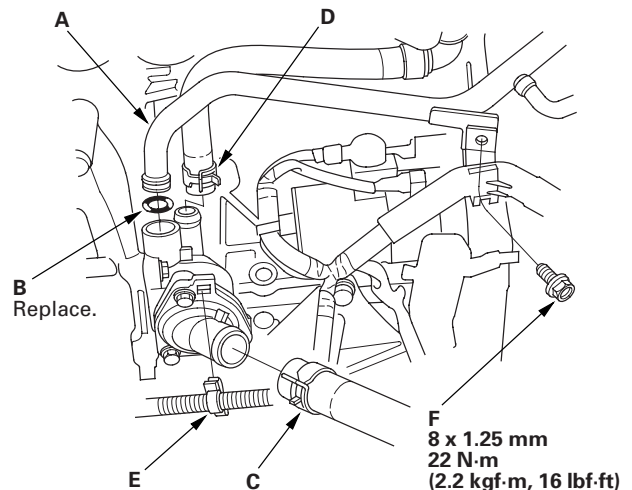
NOTE:

- Wait at least 30 minutes before filling the engine with coolant.
- Do not run the engine for at least 3 hours after installing the water passage.



16. Connect the PCV hose (C).

17. Install the connecting pipe (A) with a new O-ring (B).



18. Connect the lower radiator hose (C) and the water bypass hose (D), and install the harness clamp (E).

19. Tighten the bolt (F) securing the connecting pipe.

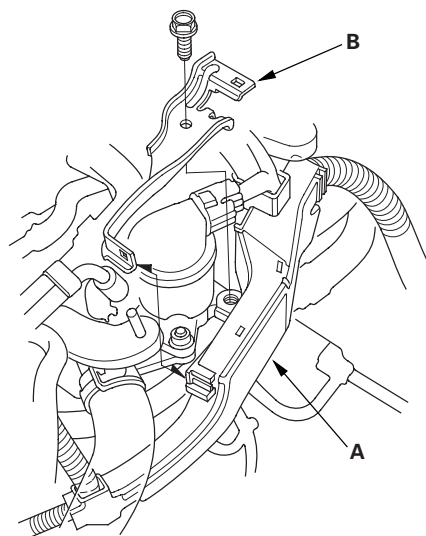


EGR Passage Removal and Installation

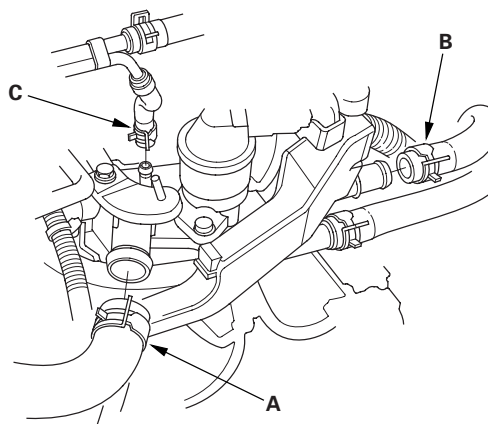
20. Install the intake manifold:
 - K20Z2 engine (see page 9-4)
 - K20Z3 engine (see page 9-9)
21. Install the A/C compressor (see step 28 on page 5-19).
22. Install the A/C condenser fan shroud assembly.
23. Install the alternator (see page 4-36).
24. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
25. Clean up any spilled engine coolant.

Removal - K20Z2 engine

1. Drain the engine coolant (see page 10-8).
2. Remove the air cleaner assembly (see page 11-345).
3. Remove the harness holder (A) from the bracket, then remove the harness holder bracket (B).



4. Disconnect the upper radiator hose (A), the heater hose (B), and the water bypass hose (C).



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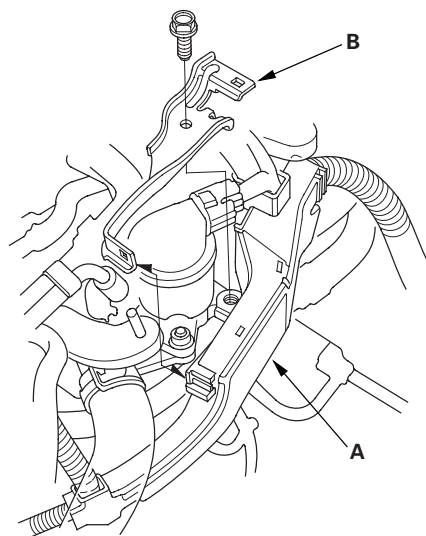


EGR Passage Removal and Installation

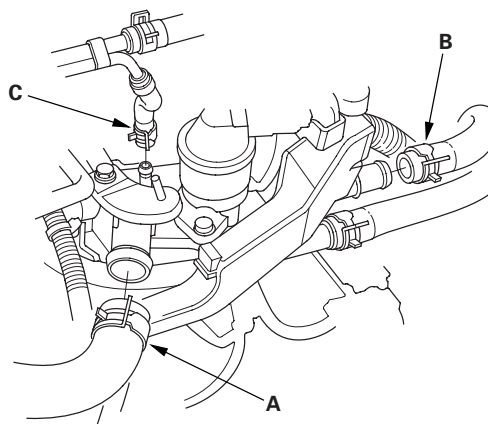
20. Install the intake manifold:
 - K20Z2 engine (see page 9-4)
 - K20Z3 engine (see page 9-9)
21. Install the A/C compressor (see step 28 on page 5-19).
22. Install the A/C condenser fan shroud assembly.
23. Install the alternator (see page 4-36).
24. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
25. Clean up any spilled engine coolant.

Removal - K20Z2 engine

1. Drain the engine coolant (see page 10-8).
2. Remove the air cleaner assembly (see page 11-345).
3. Remove the harness holder (A) from the bracket, then remove the harness holder bracket (B).



4. Disconnect the upper radiator hose (A), the heater hose (B), and the water bypass hose (C).

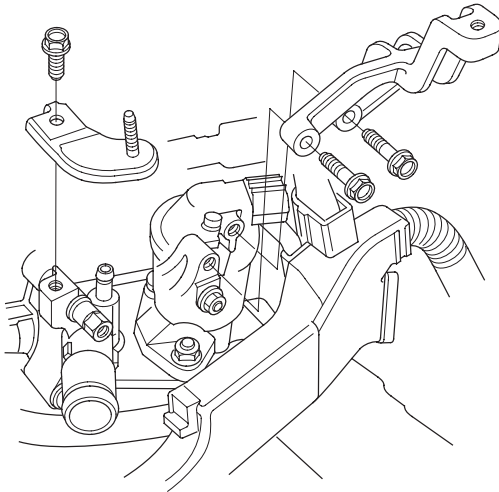


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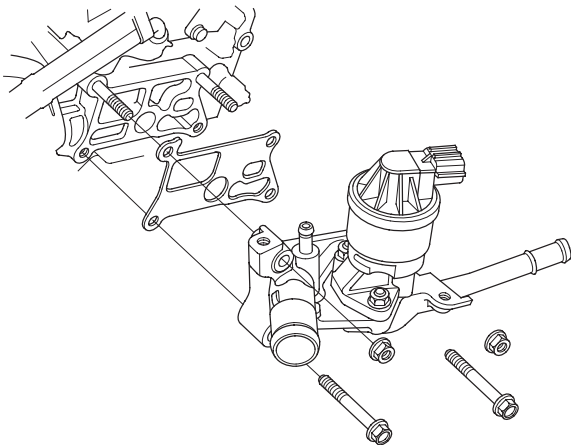
Cooling System

EGR Passage Removal and Installation (cont'd)

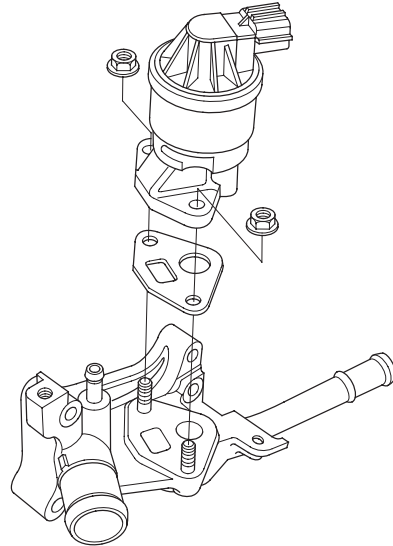
5. Remove the air cleaner brackets.



6. Remove the EGR passage.



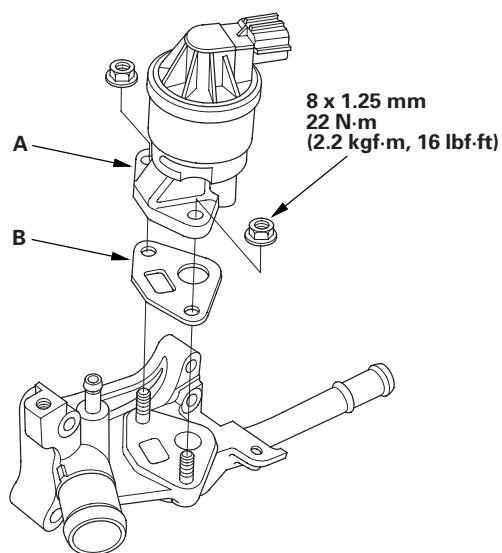
7. Remove the exhaust gas recirculation (EGR) valve.



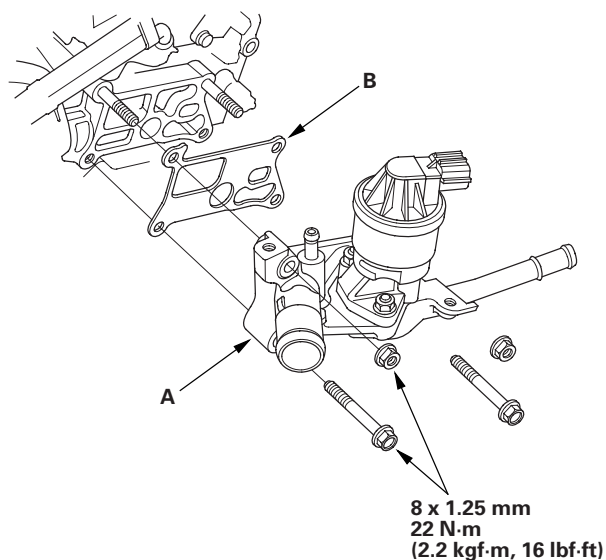


Installation - K20Z2 engine

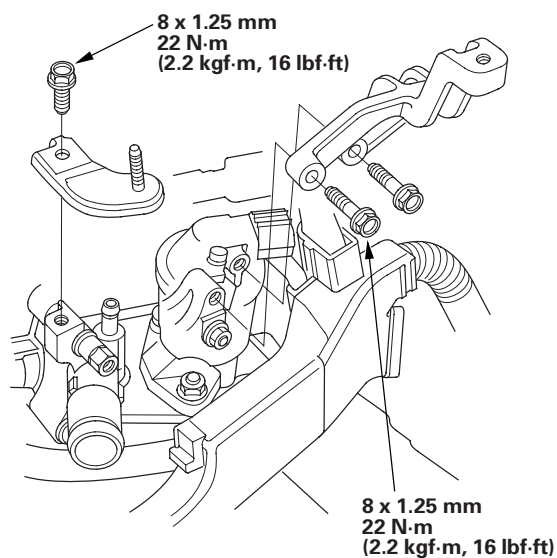
1. Install the EGR valve (A), with a new gasket (B).



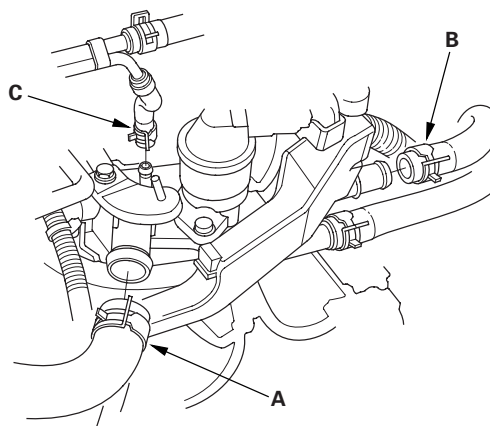
2. Install the EGR passage (A) with a new gasket (B).



3. Install the air cleaner brackets.



4. Connect the upper radiator hose (A), the heater hose (B), and the water bypass hose (C).

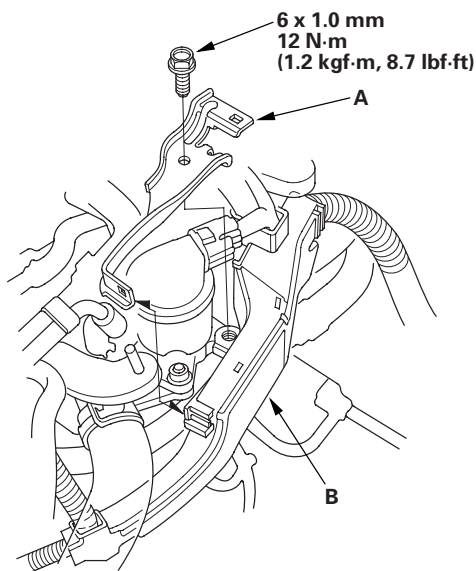


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Cooling System

EGR Passage Removal and Installation (cont'd)

5. Install the harness holder bracket (A), then install the harness holder (B).

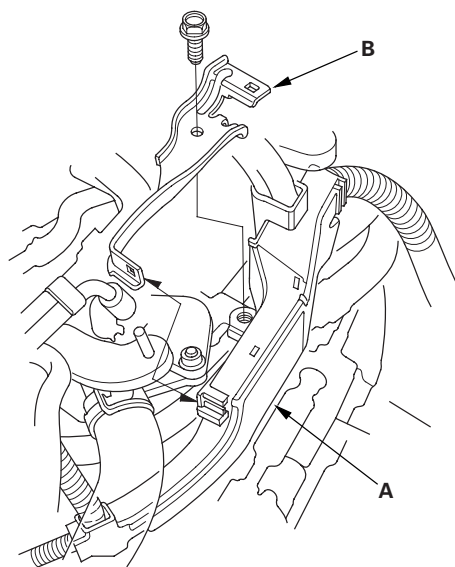


6. Install the air cleaner assembly (see page 11-345).
7. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
8. Clean up any spilled engine coolant.

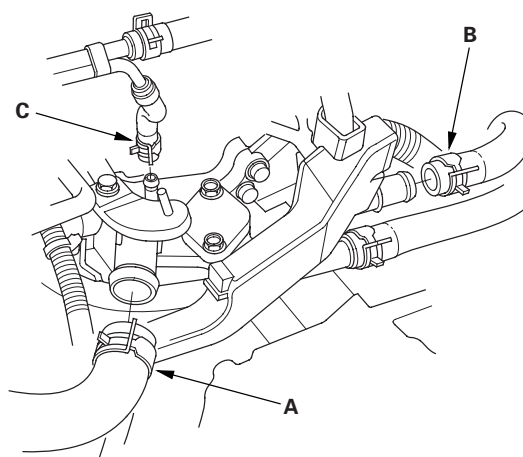
Water Outlet Removal and Installation

Removal - K20Z3 engine

1. Drain the engine coolant (see page 10-8).
2. Remove the air cleaner assembly (see page 11-345).
3. Remove the harness holder (A) from the bracket, then remove the harness holder bracket (B).



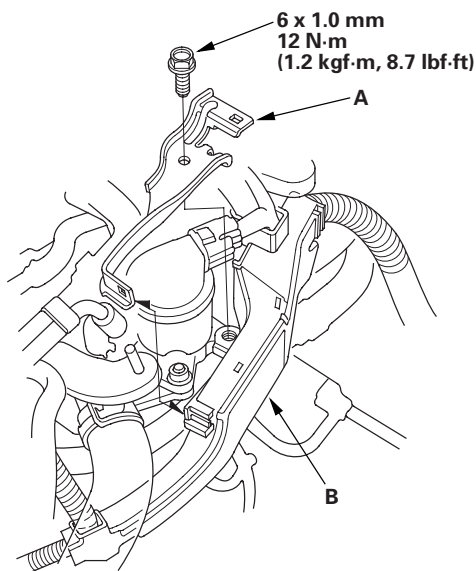
4. Disconnect the upper radiator hose (A), the heater hose (B), and the water bypass hose (C).



Cooling System

EGR Passage Removal and Installation (cont'd)

5. Install the harness holder bracket (A), then install the harness holder (B).

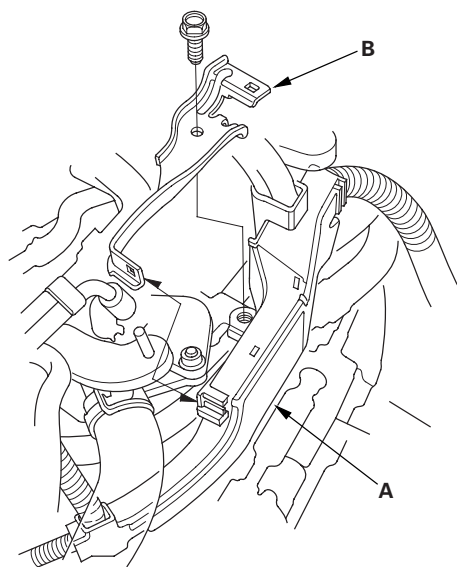


6. Install the air cleaner assembly (see page 11-345).
7. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
8. Clean up any spilled engine coolant.

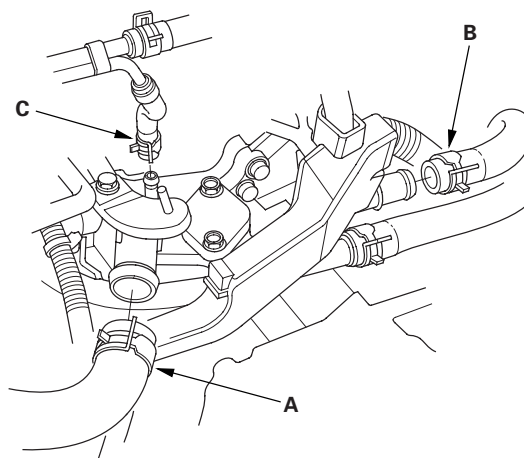
Water Outlet Removal and Installation

Removal - K20Z3 engine

1. Drain the engine coolant (see page 10-8).
2. Remove the air cleaner assembly (see page 11-345).
3. Remove the harness holder (A) from the bracket, then remove the harness holder bracket (B).

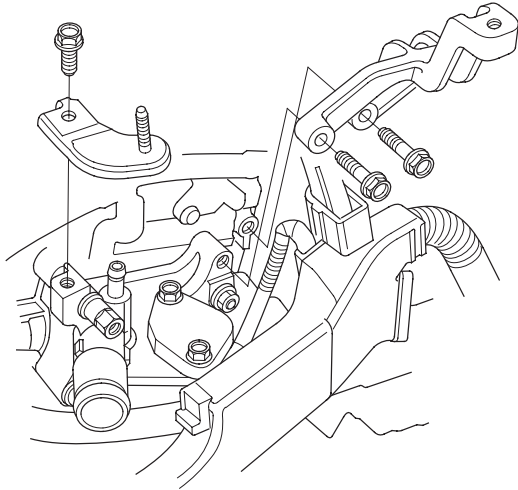


4. Disconnect the upper radiator hose (A), the heater hose (B), and the water bypass hose (C).

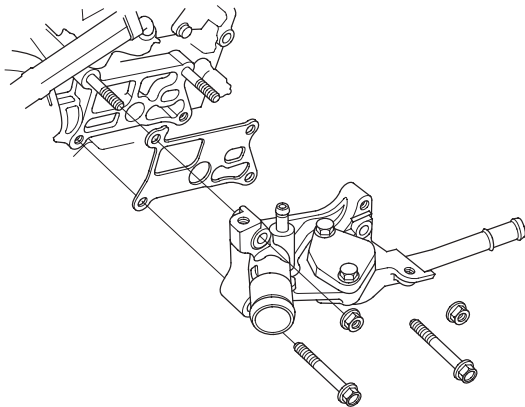




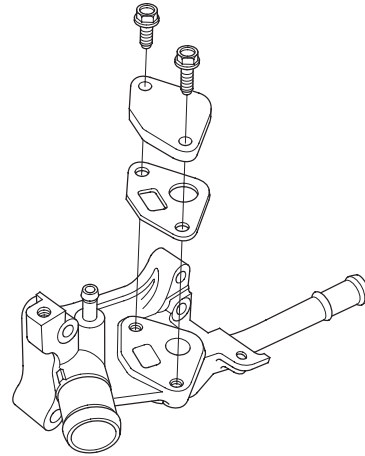
5. Remove the air cleaner brackets.



6. Remove the water outlet.



7. Remove the EGR plate.



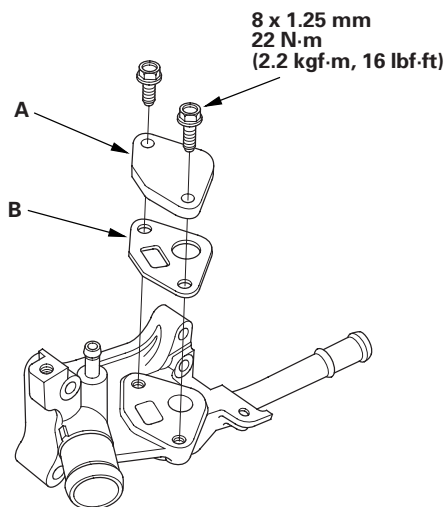
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Cooling System

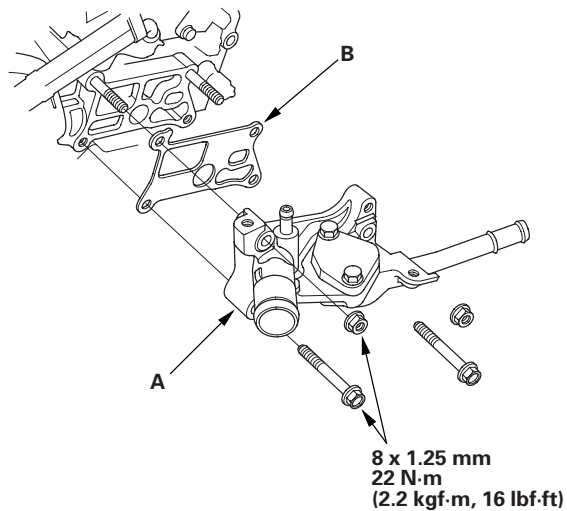
Water Outlet Removal and Installation (cont'd)

Installation - K20Z3 engine

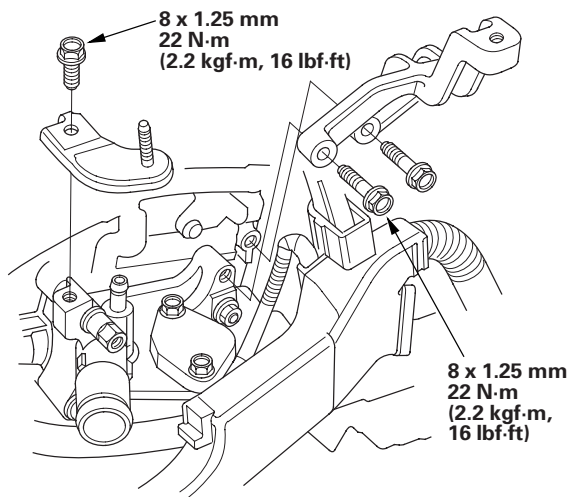
1. Install the EGR plate (A) with a new gasket (B).



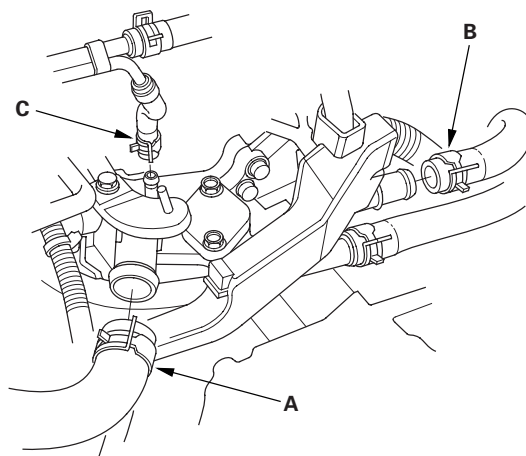
2. Install the water outlet (A) with a new gasket (B).



3. Install the air cleaner brackets.



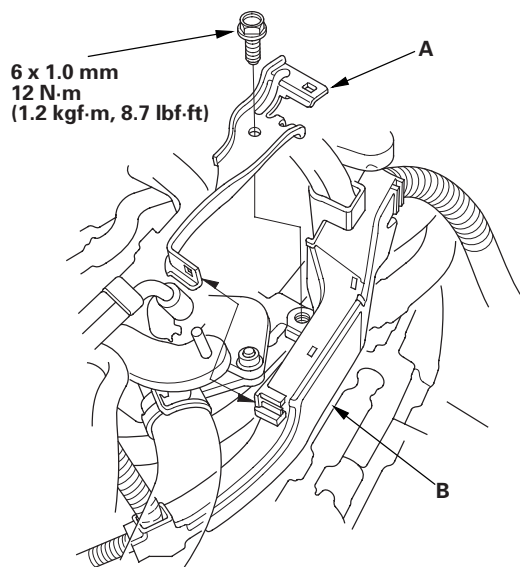
4. Connect the upper radiator hose (A), the heater hose (B), and the water bypass hose (C).





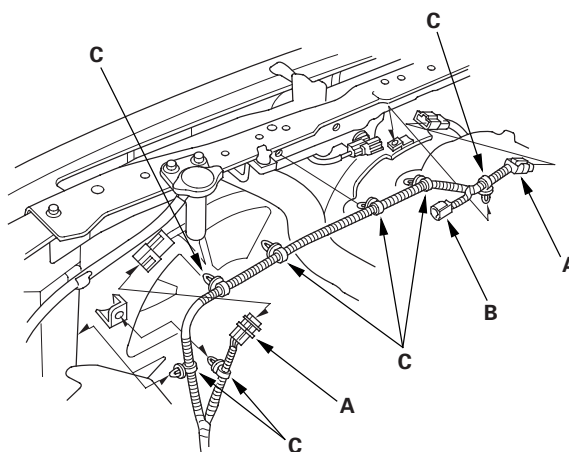
Radiator and Fan Replacement

5. Install the harness holder bracket (A), then install the harness holder (B).



6. Install the air cleaner assembly (see page 11-345).
7. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
8. Clean up any spilled engine coolant.

1. Do the battery removal procedure (see page 22-69).
2. Drain the engine coolant (see page 10-8).
3. Remove the front grille cover (see page 20-163).
4. Disconnect the fan motor connectors (A) and the hood switch connector (B), then remove the harness clamps (C).

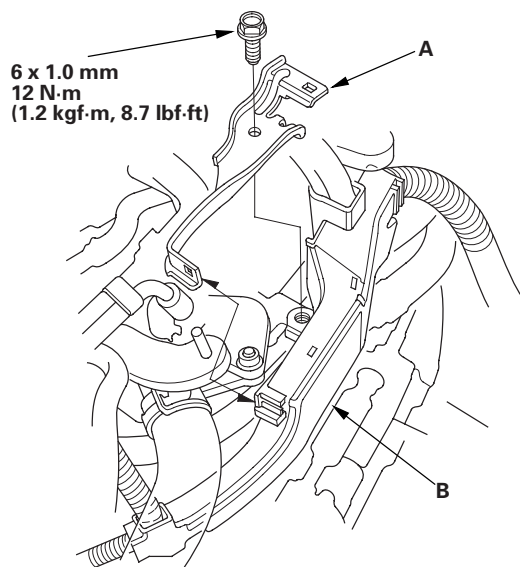


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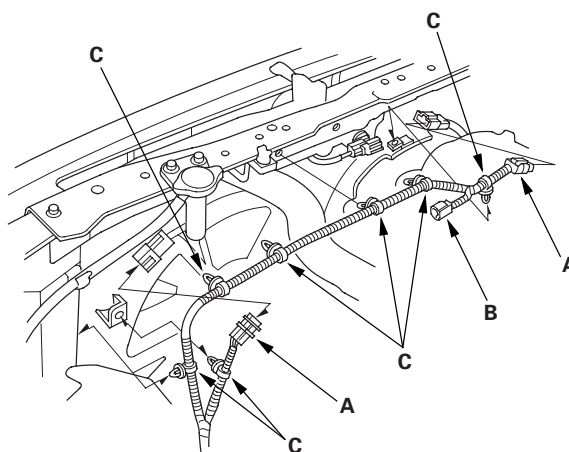
Radiator and Fan Replacement

5. Install the harness holder bracket (A), then install the harness holder (B).



6. Install the air cleaner assembly (see page 11-345).
7. Refill the radiator with engine coolant, and bleed the air from the cooling system with the heater valve open (see step 6 on page 10-8).
8. Clean up any spilled engine coolant.

1. Do the battery removal procedure (see page 22-69).
2. Drain the engine coolant (see page 10-8).
3. Remove the front grille cover (see page 20-163).
4. Disconnect the fan motor connectors (A) and the hood switch connector (B), then remove the harness clamps (C).

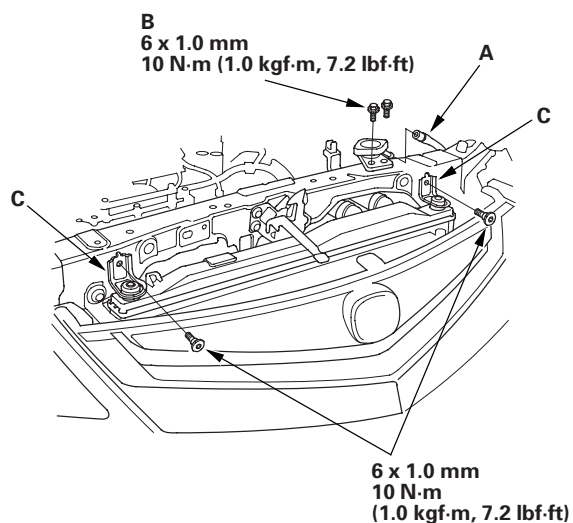


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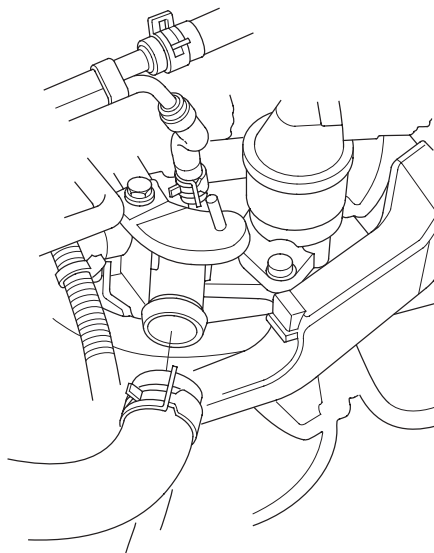
Cooling System

Radiator and Fan Replacement (cont'd)

5. Disconnect the reservoir hose (A) and remove the radiator cap base mounting bolts (B), and the radiator upper brackets (C) and bolts (D).

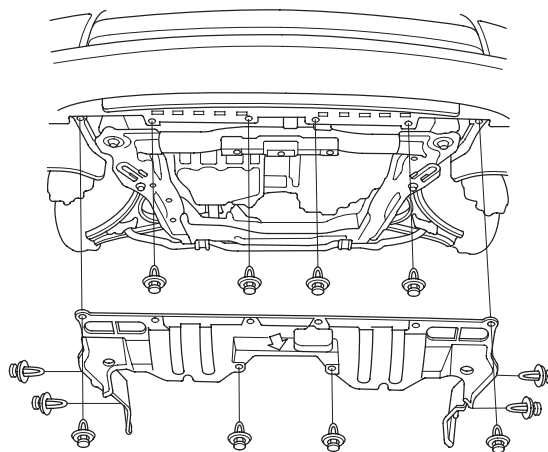


6. Disconnect the upper radiator hose.



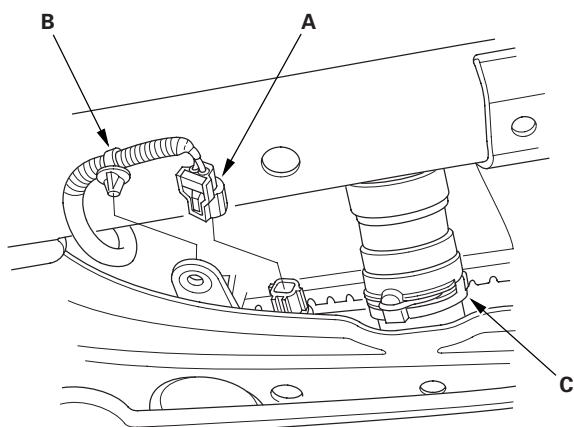
7. Raise the vehicle on the lift.

8. Remove the splash shield.

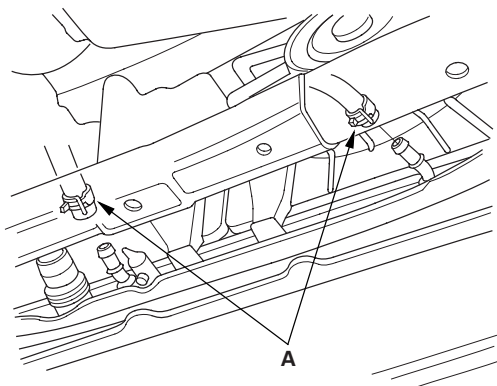




9. Disconnect the engine coolant temperature (ECT) sensor 2 connector (A), and remove the harness clamp (B).

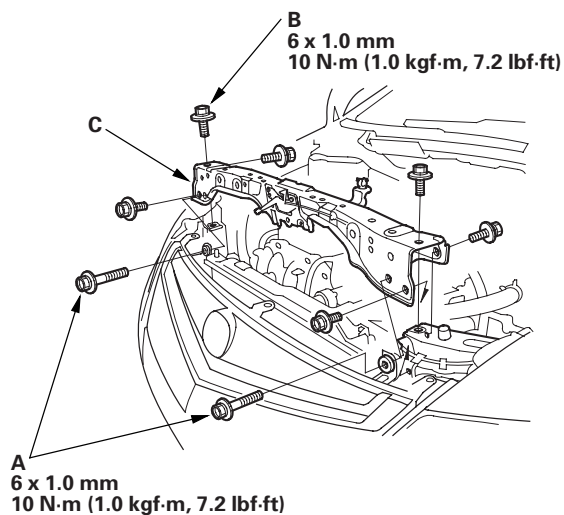


10. Disconnect the lower radiator hose (C) from the radiator.
11. A/T model: Disconnect the automatic transmission fluid (ATF) cooler hoses (A), then plug the lines and the hoses.



12. Lower the vehicle on the lift.

13. Remove the condenser bracket mounting bolts (A) and the bulkhead mounting bolts (B), then remove the bulkhead (C).

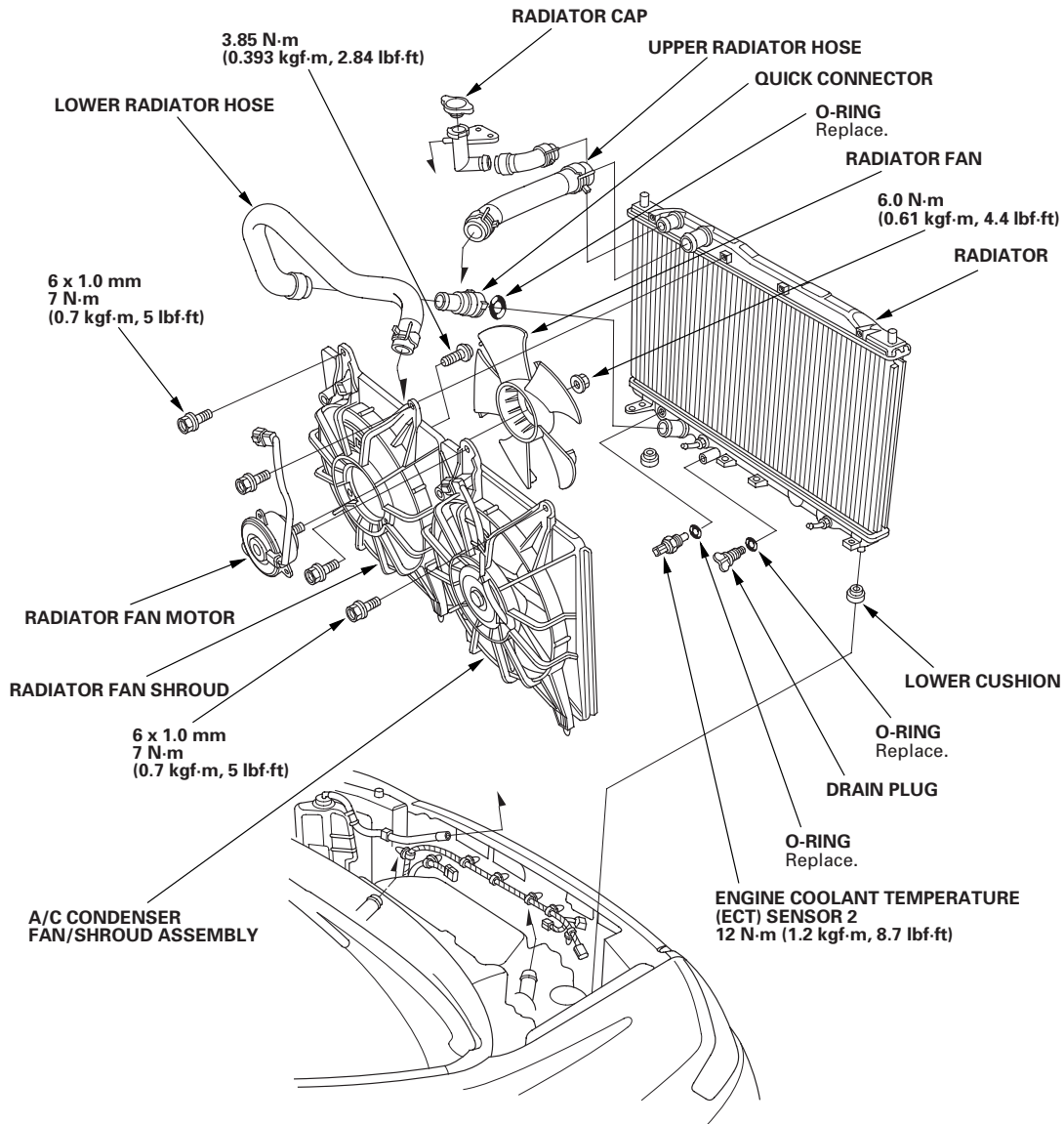


(cont'd)

Cooling System

Radiator and Fan Replacement (cont'd)

14. Pull up the radiator, then remove the fan shroud assemblies and other parts from the radiator.



15. Install the radiator in the reverse order of removal. Make sure the upper and lower cushions are set securely.

16. Connect the lower radiator hose to the radiator.

17. Install the bulkhead in the reverse order of removal. Apply body paint to the bulkhead mounting bolts.

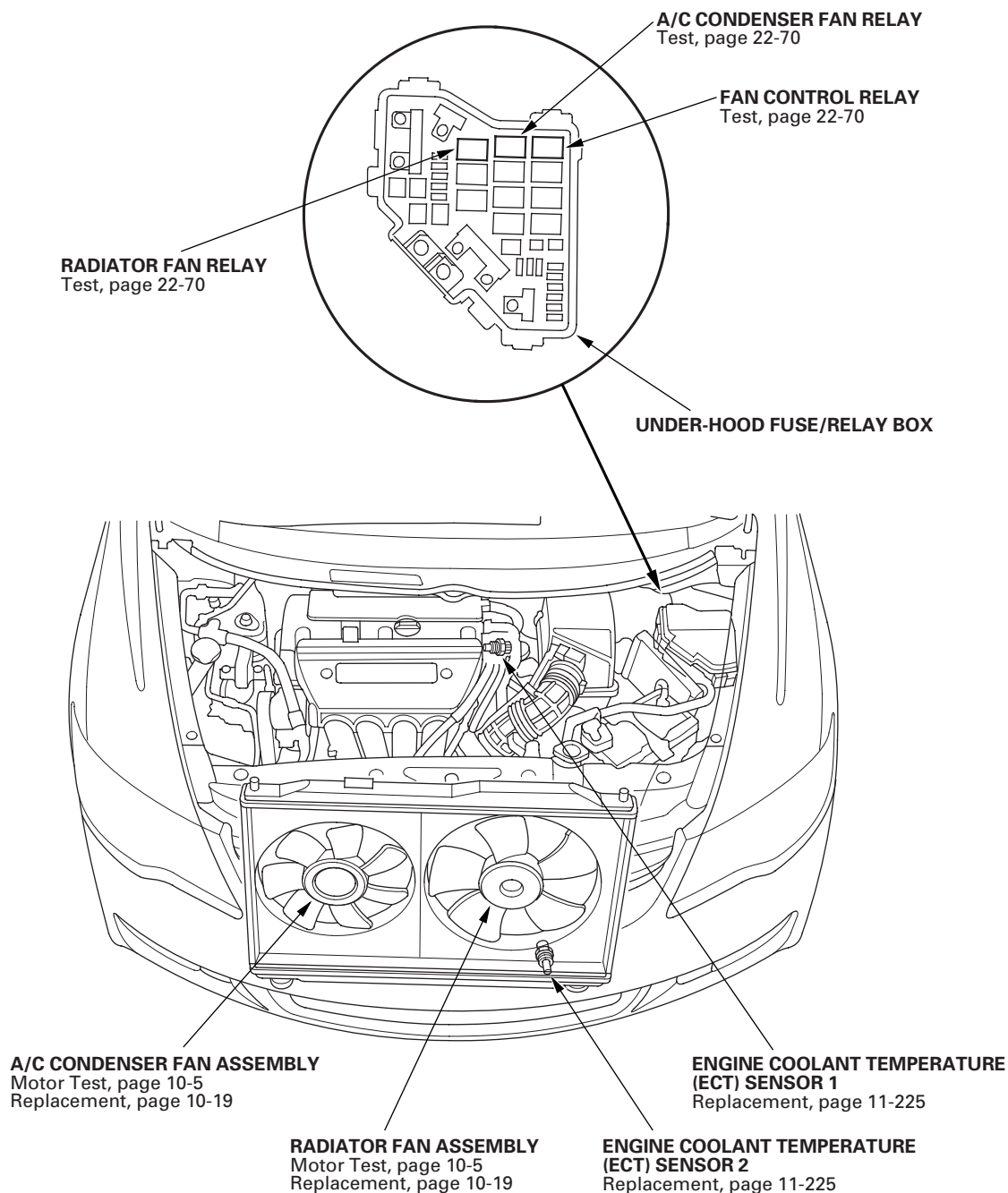
18. Do the battery installation procedure (see page 22-69).

19. Fill the radiator with engine coolant, and bleed the air from the cooling system with heater valve open (see step 6 on page 10-8).

20. Clean up any spilled engine coolant.



Component Location Index



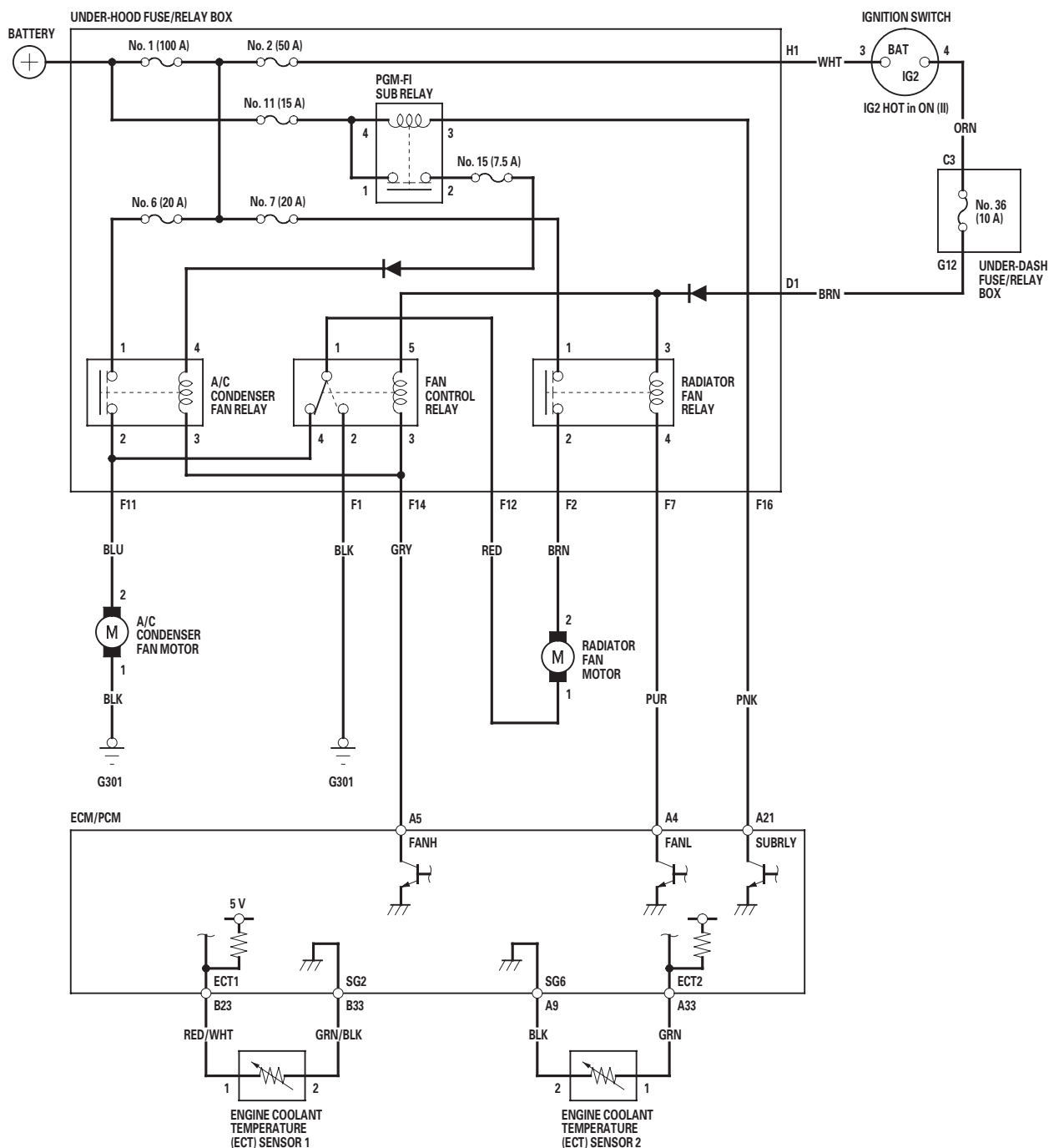
Fan Controls

Symptom Troubleshooting Index

Symptom	Diagnostic Procedure	Also check for
Engine overheats	1. Check the coolant level. 2. Check for 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 10-5) or fan relays (see page 22-70). 7. Check the radiator cap (see page 10-4). 8. Check the thermostat (see page 10-5). 9. Inspect the water pump (see page 10-6). 10. Check for a clogged or deteriorated radiator hoses. 11. Check for clogged heater core or hoses. 12. Check for a damaged cylinder head gasket.	
The radiator fan does not run at high speed	Radiator fan high speed circuit troubleshooting (see page 10-26).	Cleanliness and tightness of all connectors
Both the radiator fan and the A/C condenser fan do not run at low speed	Radiator and A/C condenser fans low speed circuit troubleshooting (see page 21-56).	Cleanliness and tightness of all connectors
The A/C condenser fan does not run at high speed	A/C condenser fan high speed circuit troubleshooting (see page 21-60).	Cleanliness and tightness of all connectors



Circuit Diagram



Fan Controls

Radiator Fan High Speed Circuit Troubleshooting

1. Check the No. 7 (20 A) fuse in the under-hood fuse/relay box and the No. 36 (10 A) fuse in the under-dash fuse/relay box.

Are the fuses OK?

YES—Reinstall the fuse(s), then go to step 2.

NO—Replace the fuse(s), and recheck. If the fuse continues to blow, locate and repair the short in the circuit between the under-hood fuse/relay box and the radiator fan motor, or between the under-dash fuse/relay box connector terminal G12, the under-hood fuse/relay box and the engine control module (ECM)/powertrain control module (PCM). ■

2. Remove the radiator fan relay and the fan control relay from the under-hood fuse/relay box, and test them (see page 22-70).

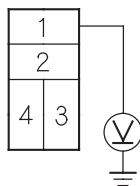
Are the relays OK?

YES—Go to step 3.

NO—Replace the radiator fan relay and/or fan control relay. ■

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

RADIATOR FAN RELAY 4P SOCKET



Terminal side of female terminals

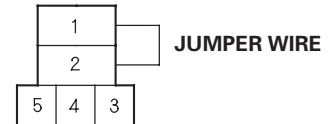
Is there battery voltage?

YES—Go to step 4.

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

4. Connect fan control relay 5P socket terminals No. 1 and No. 2 with a jumper wire.

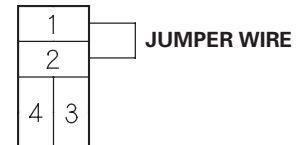
FAN CONTROL RELAY 5P SOCKET



Terminal side of female terminals

5. 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?

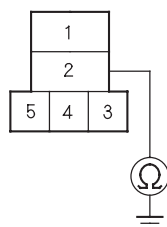
YES—Go to step 10.

NO—Go to step 6.



6. Remove the jumper wires, then check for continuity between fan control relay 5P socket terminal No. 2 and body ground.

FAN CONTROL RELAY 5P SOCKET



Terminal side of female terminals

Is there continuity?

YES—Go to step 7.

NO—Repair open in the wire between fan control relay 5P socket terminal No. 2 and body ground. ■

7. Test the radiator fan motor (see page 10-5).

Is the motor OK?

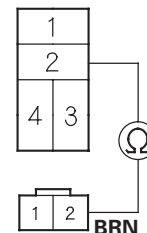
YES—Go to step 8.

NO—Replace the radiator fan motor (see page 10-19). ■

8. Check for continuity between radiator fan relay 4P socket terminal No. 2 and radiator fan motor 2P connector terminal No. 2.

RADIATOR FAN RELAY 4P SOCKET

Terminal side of female terminals



RADIATOR FAN MOTOR 2P CONNECTOR

Wire side of female terminals

Is there continuity?

YES—Go to step 9.

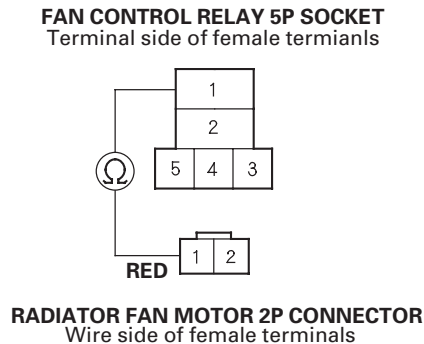
NO—Repair open in the wire between radiator fan relay 4P socket terminal No. 2 and radiator fan motor 2P connector terminal No. 2. ■

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Fan Controls

Radiator Fan High Speed Circuit Troubleshooting (cont'd)

9. Check for continuity between fan control relay 5P socket terminal No. 1 and radiator fan motor 2P connector terminal No. 1.



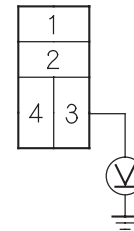
Is there continuity?

YES—Check for poor connections or loose terminals at the under-hood fuse/relay box, the radiator fan motor, and body ground (G301), then go to step 1.

NO—Repair open in the wire between fan control relay 5P socket terminal No. 1 and radiator fan motor 2P connector terminal No. 1. ■

10. Turn the ignition switch to ON (II).
11. 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—Go to step 12.

NO—Repair open in the wire between the under-dash fuse/relay box and the under-hood fuse/relay box. ■

12. Turn the ignition switch to LOCK (0).
13. Connect the Honda Diagnostic System (HDS) to the data link connector (DLC) (see step 2 on page 11-3).
14. Turn the ignition switch to ON (II).
15. Make sure the HDS communicates with the vehicle and the ECM/PCM. If it does not communicate, troubleshoot the DLC circuit (see page 11-204).
16. Jump the SCS line with the HDS, then turn the ignition switch to LOCK (0).

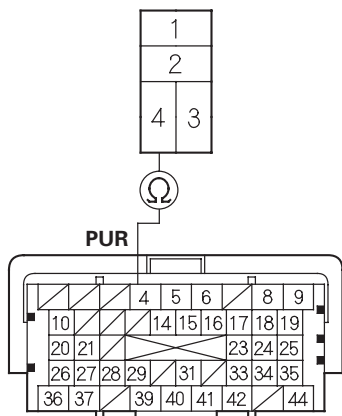
NOTE: This step must be done to protect the ECM/PCM from damage.

17. Disconnect ECM/PCM connector A (44P).



18. Check for continuity between radiator fan relay 4P socket terminal No. 4 and ECM/PCM connector terminal A4.

RADIATOR FAN RELAY 4P SOCKET
Terminal side of female terminals



ECM/PCM CONNECTOR A (44P)
Terminal side of female terminals

Is there continuity?

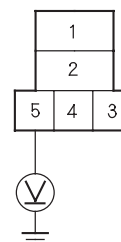
YES—Go to step 19.

NO—Repair open in the wire between radiator fan relay 4P socket terminal No. 4 and ECM/PCM connector terminal A4. ■

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

20. Measure the voltage between fan motor control relay 5P socket terminal No. 5 and body ground.

FAN CONTROL RELAY 5P SOCKET



Terminal side of female terminals

Is there battery voltage?

YES—Go to step 21.

NO—Repair open in the wire between the under-dash fuse/relay box and the under-hood fuse/relay box. ■

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

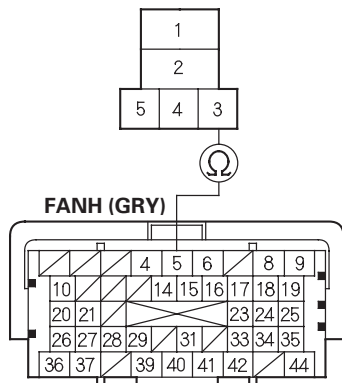
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Fan Controls

Radiator Fan High Speed Circuit Troubleshooting (cont'd)

22. Check for continuity between fan control relay 5P socket terminal No. 3 and ECM/PCM connector terminal A5.

FAN CONTROL RELAY 5P SOCKET
Terminal side of female terminals



ECM/PCM CONNECTOR A (44P)
Terminal side of female terminals

Is there continuity?

YES—Update the ECM/PCM if it does not have the latest software (see page 11-227), or substitute a known-good ECM/PCM (see page 11-7), then recheck. If the symptom goes away with a known-good ECM/PCM, replace the original ECM/PCM (see page 11-228). ■

NO—Repair open in the wire between fan control relay 5P socket terminal No. 3 and ECM/PCM connector terminal A5. ■