SECTION COOLING SYSTEM C

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CONTENTS

PRECAUTIONS	. 2
Precautions for Supplemental Restraint System	
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
SIONER"	. 2
Precautions for Liquid Gasket	
REMOVAL OF LIQUID GASKET SEALING	. 2
LIQUID GASKET APPLICATION PROCEDURE	. 2
PREPARATION	. 4
Special Service Tools	
Commercial Service Tools	. 4
OVERHEATING CAUSE ANALYSIS	. 5
Troubleshooting Chart	. 5
COOLING SYSTEM	
Cooling Circuit	. 7
System Drawing	. 8
ENGINE COOLANT	
System Check	
CHECKING COOLING SYSTEM HOSES	. 9
CHECKING RESERVOIR LEVEL	. 9
CHECKING COOLING SYSTEM FOR LEAKS	. 9
CHECKING RADIATOR CAP	. 9
CHECKING RADIATOR	10
Changing Engine Coolant	
DRAINING ENGINE COOLANT	10
REFILLING ENGINE COOLANT	.11
FLUSHING COOLING SYSTEM	12

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RADIATOR	
Removal and Installation	
REMOVAL	13
INSTALLATION	14 _G
COOLING FAN	15
Removal and Installation	15
REMOVAL	15 🛛 🖂
INSTALLATION	
Disassembly and Assembly of Radiator Fan	15
DISASSEMBLY	
ASSEMBLY	
WATER PUMP	16
Removal and Installation	
REMOVAL	
INSPECTION AFTER REMOVAL	
INSTALLATION	
THERMOSTAT AND THERMOSTAT HOUSING	21
Removal and Installation	N N
REMOVAL	
INSPECTION AFTER REMOVAL	
INSTALLATION	
WATER OUTLET AND WATER PIPING	
Removal and Installation	-
REMOVAL	
INSTALLATION	
SERVICE DATA AND SPECIFICATIONS (SDS)	
Capacity	
Thermostat	
Radiator	25

PRECAUTIONS

PRECAUTIONS

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Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precautions for Liquid Gasket REMOVAL OF LIQUID GASKET SEALING

• After removing nuts and bolts, separate the mating surface, using Tool and remove old liquid gasket sealing.

Tool number : KV10111100 (J-37228)

CAUTION:

Be careful not to damage the mating surfaces.

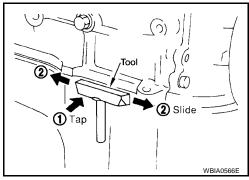
- Tap Tool to insert it, and then slide it by tapping on the side as shown in the figure.
- In areas where Tool is difficult to use, use plastic hammer to lightly tap the parts, to remove it.

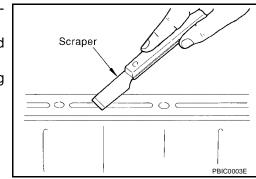
CAUTION:

If for some unavoidable reason suitable tool such as screwdriver is used, be careful not to damage the mating surfaces.

LIQUID GASKET APPLICATION PROCEDURE

- 1. Remove old liquid gasket adhering to the liquid gasket application surface and the mating surface, using scraper.
 - Remove liquid gasket completely from the groove of the liquid gasket application surface, bolts, and bolt holes.
- 2. Thoroughly clean the mating surfaces and remove adhering moisture, grease and foreign materials.





3. Attach liquid gasket tube to Tool.

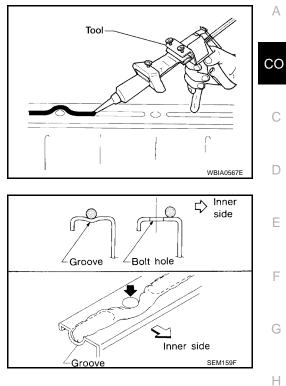
Tool number : WS39930000 (—)

Use Genuine RTV Silicone Sealant or equivalent. Refer to <u>GI-45, "Recommended Chemical Products and Sealants"</u>.

- 4. Apply liquid gasket without breaks to the specified location with the specified dimensions.
 - If there is a groove for the liquid gasket application, apply liquid gasket to the groove.
 - As for the bolt holes, normally apply liquid gasket inside the holes. Occasionally, it should be applied outside the holes. Make sure to read the text of service manual.
 - Within five minutes of liquid gasket application, install the mating component.
 - If liquid gasket protrudes, wipe it off immediately.
 - Do not retighten nuts or bolts after the installation.
 - After 30 minutes or more have passed from the installation, fill engine oil and engine coolant.

CAUTION:

If there are specific instructions in this manual, observe them.



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PREPARATION

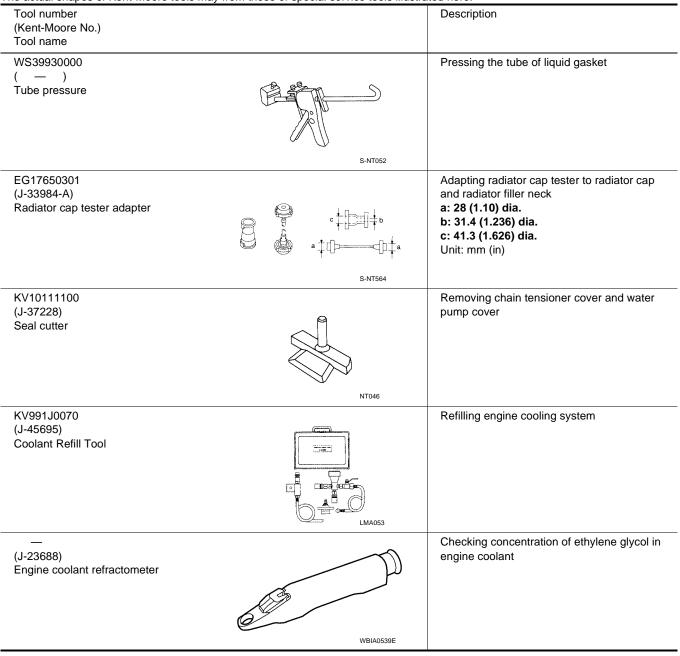
PREPARATION

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Special Service Tools

The actual shapes of Kent-Moore tools may from those of special service tools illustrated here.



Tool name Description Power tool Loosening bolts and nuts

OVERHEATING CAUSE ANALYSIS

OVERHEATING CAUSE ANALYSIS Troubleshooting Chart

	Symptom		Check items		
		Water pump malfunction	Worn or loose drive belt		С
Poor heat trans		Thermostat stuck closed	—		
	Poor heat transfer	nsfer Damaged fins	Dust contamination or paper clogging		(
			Physical damage		
		Clogged radiator cooling tube	Excess foreign material (rust, dirt, sand, etc.)	_	[
Reduced air flow		Cooling fan does not oper- ate			E
	High resistance to fan rota- tion	Fan assembly —	_	L	
		Damaged fan blades			1
	Damaged radiator shroud	—	-	-	
Cooling sys- tem parts	Improper coolant mixture ratio	-	_	_	(
malfunction	Poor coolant quality	—	Coolant viscosity	_	
			Cooling hose	Loose clamp	
				Cracked hose	
			Water pump	Poor sealing	
			Radiator cap	Loose	
				Poor sealing	
	Insufficient coolant			O-ring for damage, deterio- ration or improper fitting	
			Radiator	Cracked radiator tank	
		Reservoir tank		Cracked radiator core	
			Reservoir tank	Cracked reservoir tank	
		Overflowing reservoir tank	Exhaust gas leaks into cooling system	Cylinder head deterioration	
				Cylinder head gasket dete- rioration	

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OVERHEATING CAUSE ANALYSIS

	Syr	nptom	Chec	k items
				High engine rpm under no load
Except cool- ing system			Abusive driving	Driving in low gear for extended time
		Overload on engine		Driving at extremely high speed
	—		Powertrain system mal- function	
			Installed improper size wheels and tires	_
parts mal-			Dragging brakes	-
function			Improper ignition timing	
		Blocked bumper	—	
	Blocked or restricted air flow	Blocked radiator grille	Installed car brassiere]
			Mud contamination or paper clogging	
		Blocked radiator	—	
		Blocked condenser	Blocked air flow	
		Installed large fog lamp		

COOLING SYSTEM

COOLING SYSTEM PFP:21020 **Cooling Circuit** To heater To Electric throttle body/ From heater EGR Control actuator 4 (1) 9 From Electronic throttle body/ EGR control actuator 8 V (4)2 $\overline{\mathcal{O}}$ 6) 3 5 WBIA0558E

- 1. Cylinder block (RH)
- 4. Water pump
- 7. Thermostat

- 2. Oil cooler
- 5. Radiator
- 8. Cylinder head (LH)
- 3. Cylinder head (RH)
- 6. Water inlet
- 9. Cylinder block (LH)

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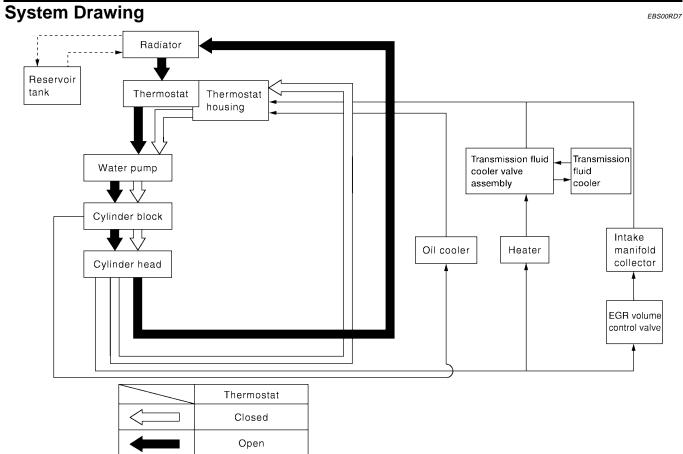
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COOLING SYSTEM



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ENGINE COOLANT

ENGINE COOLANT

System Check

WARNING:

- Never remove the radiator cap when the engine is hot. Serious burns could occur from high pressure coolant escaping from the radiator.
- Wrap a thick cloth around the cap. Slowly push down and turn it a quarter turn to allow built-up
 pressure to escape. Carefully remove the cap by pushing down and turning it all the way.

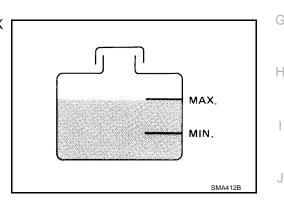
CHECKING COOLING SYSTEM HOSES

Check hoses for the following:

- Improper attachment
- Leaks
- Cracks
- Damage
- Loose connections
- Chafing
- Deterioration

CHECKING RESERVOIR LEVEL

- Check if the reservoir tank coolant level is within MIN to MAX range when the engine is cool.
- Adjust coolant level if it is too much or too little.



CHECKING COOLING SYSTEM FOR LEAKS

To check for leaks, apply pressure to the cooling system using Tool.

Tool number : EG17650301 (J-33984-A)

Testing pressure : 157 kPa (1.6 kg/cm², 23 psi)

WARNING:

Never remove the radiator cap when the engine is hot. Serious burns could occur from high pressure coolant escaping from the radiator.

CAUTION:

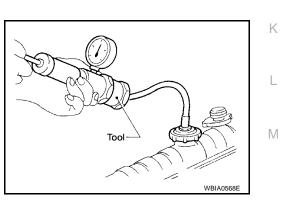
Higher pressure than specified may cause radiator damage.

CHECKING RADIATOR CAP

- 1. Inspect the radiator cap.
 - Replace the cap if the metal plunger cannot be seen around the edge of the black rubber gasket.
 - Replace the cap if deposits of waxy residue or other foreign material are on the black rubber gasket or the metal retainer.

NOTE:

Thoroughly wipe out the radiator filler neck to remove any waxy residue or foreign material.



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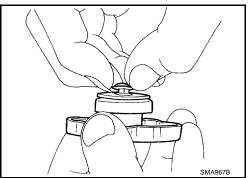
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- 2. Pull the negative-pressure valve to open it and check that it closes completely when released.
 - Check that there is no dirt or damage on the valve seat of the radiator cap negative-pressure valve.
 - Check that there are no abnormalities in the opening and closing conditions of the negative-pressure valve.



3. Check radiator cap relief pressure using Tool.

Tool number : EG17650301 (J-33984-A)

Standard: 78 – 98 kPa (0.8 – 1.0 kg/cm², 11 – 14 psi)

```
Limit: 59 kPa (0.6 kg/cm<sup>2</sup>, 9 psi)
```

- When connecting the radiator cap to the tester, apply water or coolant to the cap seal surface.
- Replace the radiator cap if there is an abnormality in the negative-pressure valve, or if the open-valve pressure is outside of the standard values.

CHECKING RADIATOR

Check radiator for sludge or clogging. If necessary, clean radiator as follows:

- Be careful not to bend or damage the radiator fins.
- When radiator is cleaned without removing, remove all surrounding parts such as cooling fan shroud and horns. Then tape the harness and electrical connectors to prevent water from entering.
- 1. Apply water by hose to the back side of the radiator core, with the hose pointed vertically downward.
- 2. Apply water again to all radiator core surfaces once per minute.
- 3. Stop washing if any dirt no longer rinse out from the radiator.
- 4. Blow air into the back side of radiator core, with the air hose pointed vertically downward.
 - Use compressed air lower than 490 kPa (5 kg/cm², 71 psi) and keep distance more than 30 cm (11.8 in).
- 5. Blow air again into all the radiator core surfaces once per minute until no water sprays out.
- 6. Check for leaks.

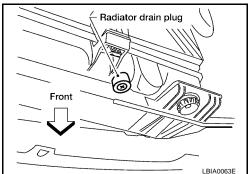
Changing Engine Coolant

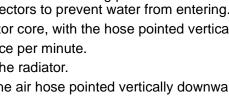
WARNING:

- To avoid being scalded, never change the coolant when the engine is hot.
- Wrap a thick cloth around cap and carefully remove the cap. First, turn the cap a quarter of a turn to release built-up pressure. Then turn the cap all the way.

DRAINING ENGINE COOLANT

- 1. Remove engine undercover, using power tools.
- 2. Open radiator drain plug at the bottom of radiator and remove the radiator filler cap. This is the only step required for a partial cooling system drain.
- If removing the heater core, remove the upper heater hose from the engine coolant outlet and apply moderate air pressure of 15 psi (103.46 kPa, 1.055 kg-cm²) maximum for 30 seconds into the hose to blow out excess coolant from the core.
- 4. For a complete cooling system drain, remove the reservoir tank and drain the coolant, and then clean the reservoir tank before installation.





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- Do not allow coolant to spill on the drive belts.
- 5. When performing a complete cooling system drain (to remove the engine or for engine repair), remove the cylinder block front drain plug and the cylinder block RH drain plug.
- 6. Check the drained coolant for contaminants such as rust, corrosion or discoloration.
 - If contaminated, flush the engine cooling system. Refer to CO-12, "FLUSHING COOLING SYSTEM". CO

REFILLING ENGINE COOLANT

- 1. Install the radiator drain plug. If the cooling system was drained completely, install the reservoir tank and the cylinder block drain plugs.
 - The radiator must be completely empty of coolant and water.
 - Apply sealant to the threads of the cylinder block drain plugs. Use Genuine High Performance Thread Sealant or equivalent. Refer to <u>GI-45</u>, "Recommended Chemical Products and Sealants".

Radiator drain plug	: Refer to CO-13, "Removal and Installation" .
Cylinder block front drain plug	: Refer to EM-118, "Removal and Installation" .
Cylinder block RH drain plug	: Refer to EM-118, "Removal and Installation" .

- 2. If disconnected, reattach the upper radiator hose at the engine side.
- 3. Set the vehicle heater controls to the full HOT and heater ON position. Turn the vehicle ignition ON with the engine OFF as necessary to activate the heater mode.
- 4. Install the Tool by installing the radiator cap adapter onto the radiator neck opening. Then attach the gauge body assembly with the refill tube and the venturi assembly to the radiator cap adapter.

Tool number : KV991J0070 (J-45695)

- 5. Insert the refill hose into the coolant mixture container that is placed at floor level. Make sure the ball valve is in the closed position.
 - Use Genuine NISSAN Long Life Anti-freeze coolant or equivalent, mixed 50/50 with distilled water or demineralized water. Refer to <u>MA-10, "ANTI-FREEZE COOLANT MIXTURE</u> <u>RATIO"</u>.

Engine coolant capacity (with reservoir tank)

: Refer to MA-9, "Fluids and Lubricants".

6. Install an air hose to the venturi assembly, the air pressure must be within specification.

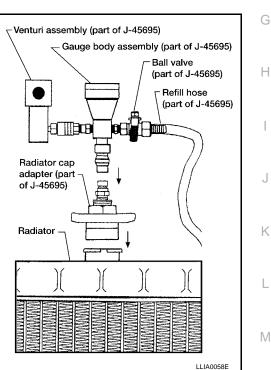
Compressed air supply pressure

: 5.7 - 8.5 kPa (5.6 - 8.4 kg/cm² , 80 - 120 psi)

CAUTION:

The compressed air supply must be equipped with an air dryer.

7. The vacuum gauge will begin to rise and there will be an audible hissing noise. During this process open the ball valve on the refill hose slightly. Coolant will be visible rising in the refill hose. Once the refill hose is full of coolant, close the ball valve. This will purge any air trapped in the refill hose.

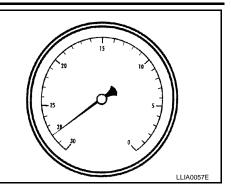


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8. Continue to draw the vacuum until the gauge reaches 28 inches of vacuum. The gauge may not reach 28 inches in high altitude locations, refer to the vacuum specifications based on the altitude above sea level.

Vacuum gauge reading
: 28 inches of vacuum
: 27 inches of vacuum
: 26 inches of vacuum
: 24 - 25 inches of vacuum



- 9. When the vacuum gauge has reached the specified amount, disconnect the air hose and wait 20 seconds to see if the system loses any vacuum. If the vacuum level drops, perform any necessary repairs to the system and repeat steps 6 8 to bring the vacuum to the specified amount. Recheck for any leaks.
- 10. Place the coolant container (with the refill hose inserted) at the same level as the top of the radiator. Then open the ball valve on the refill hose so the coolant will be drawn up to fill the cooling system. The cooling system is full when the vacuum gauge reads zero.

CAUTION:

Do not allow the coolant container to get too low when filling, to avoid air from being drawn into the cooling system.

- 11. Remove the Tool from the radiator neck opening.
- 12. Fill the cooling system reservoir tank to the specified level and install the radiator cap. Run the engine to warm up the cooling system and top up the system as necessary.

FLUSHING COOLING SYSTEM

- 1. Fill the radiator from the filler neck above the radiator upper hose and reservoir tank with clean water and reinstall radiator filler cap.
- 2. Run the engine and warm it up to normal operating temperature.
- 3. Rev the engine two or three times under no-load.
- 4. Stop the engine and wait until it cools down.
- 5. Drain the water from the system. Refer to MA-14, "DRAINING ENGINE COOLANT" .
- 6. Repeat steps 1 through 5 until clear water begins to drain from the radiator.

RADIATOR

RADIATOR

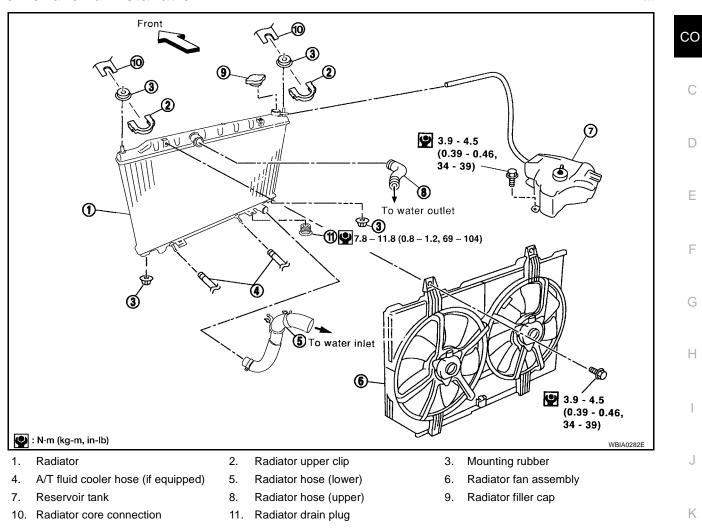
Removal and Installation





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WARNING:

Never remove the radiator cap when the engine is hot. Serious burns could occur from high pressure coolant escaping from the radiator.

REMOVAL

1. Drain the coolant from the radiator. Refer to MA-14, "DRAINING ENGINE COOLANT".

Perform when engine is cold.

- 2. Remove fresh air duct. Refer to EM-14, "Removal and Installation" .
- 3. Disconnect radiator upper and lower hoses.
- 4. Remove the A/T fluid cooler hoses, if equipped.
 - Plug hoses to avoid leakage of A/T fluid.
- 5. Disconnect the reservoir tank hose.

RADIATOR

6. Remove the radiator upper clips by pulling the tabs outside to release the lock, as shown.

CAUTION:

To prevent damage, do not pull lock tabs excessively.

- 7. Remove cooling fan assembly to radiator bolts.
- 8. Remove the radiator assembly.

CAUTION:

Do not damage or scratch air conditioner condenser and radiator core when removing.

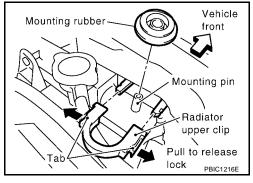
INSTALLATION

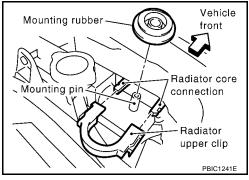
Installation is in the reverse order of removal, paying attention to the following.

• Fill the radiator with coolant. Refer to MA-14, "REFILLING ENGINE COOLANT" .

Installation of Radiator Upper Clip

- Install radiator upper clip on radiator core connection with the following procedure:
- 1. Install the rubber on mounting pin of radiator core.
- 2. Align the radiator upper clip with the radiator core connector, then insert the radiator upper clip straight into the radiator core connections until a click is heard.
- 3. After connecting the radiator upper clip, use the following method to make sure it is fully connected.
 - Visually confirm that the two radiator upper clips are connected to the radiator core connections.
 - Move the radiator upper clip and the radiator core forward and backward to make sure they are securely connected.





COOLING FAN

Removal and Installation REMOVAL

WARNING:

CO Never remove the radiator cap when the engine is hot. Serious burns could occur form high pressure coolant escaping from the radiator

- Drain engine coolant from radiator. Refer to CO-10, "Changing Engine Coolant". 1. **CAUTION:** Perform when engine is cold.
- 2. Remove air cleaner duct assembly. Refer to EM-14, "AIR CLEANER AND AIR DUCT" .
- Disconnect radiator upper hose.
- 4. Disconnect fan motor connectors.
- 5. Remove radiator cooling fan assembly.

INSTALLATION

Install in the reverse order of removal.

Cooling fan is controlled by ECM. Refer to EC-527, "DTC P1217 ENGINE OVER TEMPERATURE".

Disassembly and Assembly of Radiator Fan

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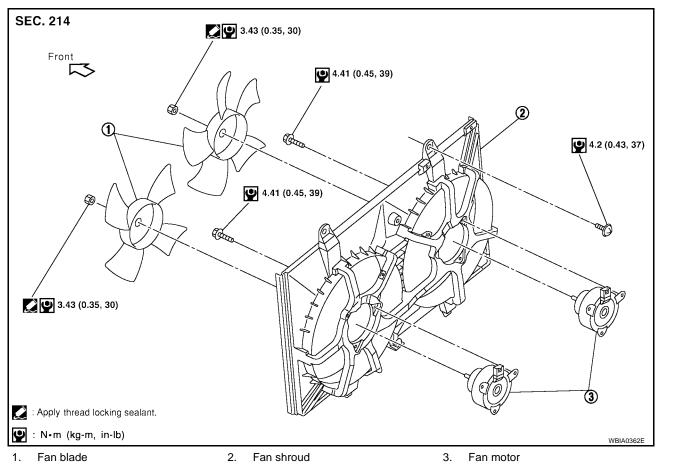
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DISASSEMBLY

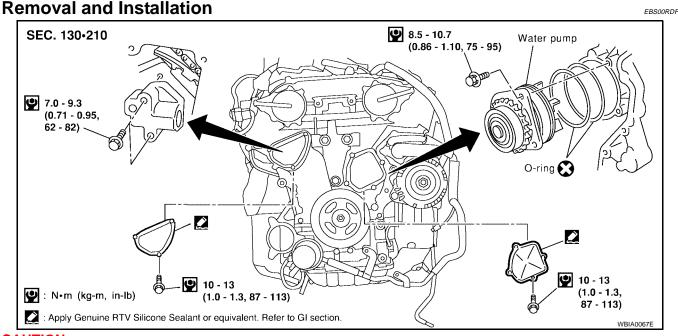
- Remove fan blade. 1.
- 2. Remove fan motor from fan shroud.

ASSEMBLY

Assembly is in the reverse order of disassembly.

WATER PUMP

PFP:21020



CAUTION:

- When removing water pump assembly, be careful not to get coolant on drive belt.
- Water pump cannot be disassembled and should be replaced as a unit.
- After installing water pump, connect hose and clamp securely, then check for leaks using radiator cap tester.

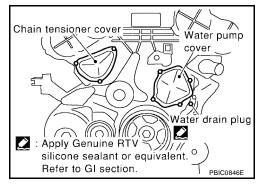
REMOVAL

1. Drain coolant from radiator. Refer to CO-10, "DRAINING ENGINE COOLANT" .

CAUTION:

Perform when the engine is cold.

- 2. Remove engine coolant reservoir tank. Refer to CO-13, "Removal and Installation" .
- 3. Reposition IPDM/ER aside. Refer to PG-30, "Removal and Installation of IPDM E/R".
- 4. Remove RH wheel and tire and the splash shield.
- 5. Remove drive belts.
- 6. Remove idler pulley, then the power steering and generator adjusting bars.
- 7. Support engine and remove the front engine insulator and bracket. Refer to <u>EM-118</u>, "<u>Removal and Instal-</u> <u>lation</u>".
- 8. Remove water drain plug on water pump side of cylinder block.
- 9. Remove chain tensioner cover and water pump cover.
- 10. Remove the timing chain tensioner assembly.
- a. Pull the lever down and release the plunger stopper tab.

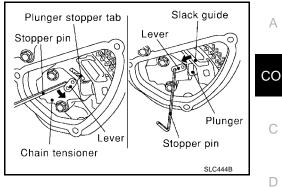


WATER PUMP

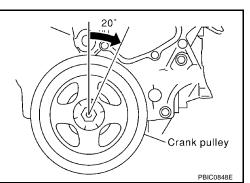
b. Insert the stopper pin into the tensioner body hole to hold the lever and keep the stopper tab released.

NOTE:

An allen wrench [(2.5 mm (0.98 in)] is used for a stopper pin as an example.



- c. Insert the plunger into the tensioner body by pressing the timing chain slack guide.
- d. Keep the slack guide pressed and hold the plunger in by pushing the stopper pin deeper through the lever and into the tensioner body hole
- e. Make a gap between water pump gear and timing chain, by turning the crankshaft pulley approximately 20° clockwise.



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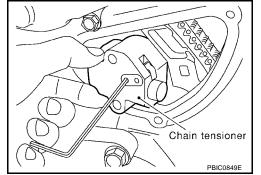
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Water pump

Nounting bolt

11. Remove timing chain tensioner.

Be careful not to drop bolts inside chain case.

12. Remove the three water pump bolts. Make a gap between water pump gear and timing chain, by turning crankshaft pulley counterclockwise until timing chain loosens on water pump sprocket.

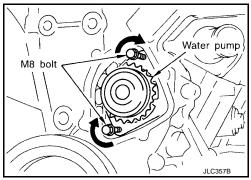
飞 Crankshaft pulley

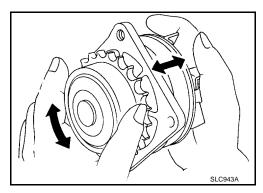
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- 13. Screw M8 bolts [pitch: 1.25 mm (0.49 in) length: approx. 50 mm (1.97 in)] into water pumps upper and lower bolt holes until they reach the timing chain case. Then, alternately tighten each bolt for a half turn, and pull out the water pump.
 - Pull straight out while preventing vane from contacting socket in installation area.
 - Remove water pump without causing sprocket to contact timing chain.
- 14. Remove M8 bolts and O-rings from water pump.

INSPECTION AFTER REMOVAL

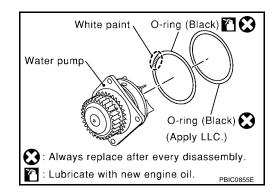
- 1. Check for badly rusted or corroded water pump body assembly.
- 2. Check for rough operation due to excessive end play.

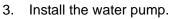




INSTALLATION

- 1. Install new O-rings to water pump.
- 2. Apply engine oil and coolant to the O-rings as shown.
 - Locate the O-ring with white paint mark to engine front side.





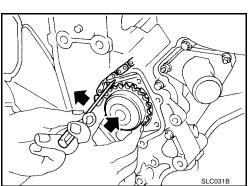
CAUTION:

Do not allow cylinder block to interfere with the O-rings when installing the water pump.

- Check that timing chain and water pump sprocket are engaged.
- Insert water pump by tightening bolts alternately and evenly.

Water pump bolts 8.5 – 10.7 N·m (0.86 – 1.10 kg-m, 75 – 95 in-lb)

4. Remove dust and foreign material completely from backside of chain tensioner and from installation area of rear timing chain case.



 Turn the crankshaft pulley approximately 20° clockwise so that the timing chain on the timing chain tensioner side is loose.
 NOTE:

When installing the timing chain tensioner, engine oil should be applied to the oil hole and tensioner.

20° Crank pulley PBIC0848E

6. Install the timing chain tensioner.

Timing chain tensioner7.0 - 9.3 N·m (0.71 - 0.95 kg-m,bolts62 - 82 in-lb)

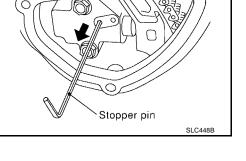
7. Remove the stopper pin.

8.

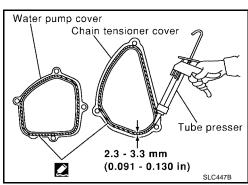
a.

scraper.

front cover.



Scraper Scrape



 Apply a continuous bead of RTV Silicone Sealant or equivalent, to mating surface of chain tensioner cover and water pump cover. Refer to <u>GI-45</u>, "<u>Recommended Chemical Products and</u> <u>Sealants</u>".

Install chain tensioner cover and water pump cover.

Before installing, remove all traces of sealant from mating sur-

face of water pump cover and chain tensioner cover using a

Also remove traces of sealant from the mating surface of the

- 9. Install water drain plug on water pump side of cylinder block. Refer to CO-10, "Changing Engine Coolant"
- 10. Install idler pulley.

Idler pulley bolts : 28.4 N·m (2.9 kg-m, 21 ft-lb)

11. Installation of remaining components is in the reverse order of removal.

Revision: October 2006

CO-19

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WATER PUMP

- Refill engine coolant. Refer to CO-11, "REFILLING ENGINE COOLANT" .
- After starting engine, let idle for three minutes, then rev engine up to 3,000 rpm under no load to purge air from the high-pressure chamber of the chain tensioner. The engine may produce a rattling noise. This indicates that air still remains in the chamber and is not a matter of concern.

THERMOSTAT AND THERMOSTAT HOUSING

THERMOSTAT AND THERMOSTAT HOUSING

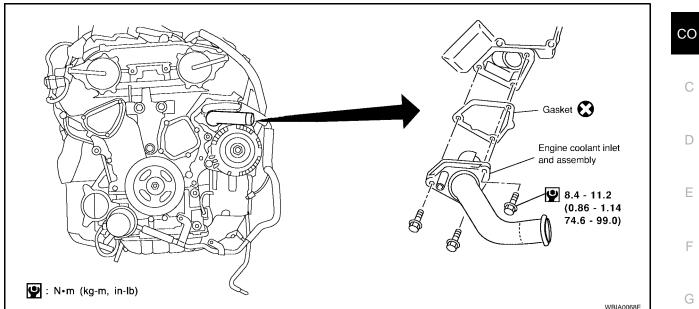
Removal and Installation



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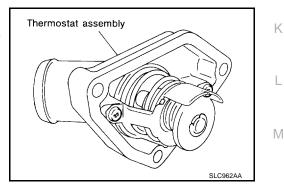


REMOVAL

- 1. Remove engine undercover using power tool.
- 2. Drain coolant from radiator. Refer to <u>CO-10, "DRAINING ENGINE COOLANT"</u>. CAUTION:

Perform when engine is cool.

- 3. Remove drive belts. Refer to EM-13, "DRIVE BELTS" .
- 4. Remove water drain plug on water pump side of the engine. Refer to <u>CO-10, "DRAINING ENGINE COOL-</u> <u>ANT"</u>.
- 5. Disconnect lower radiator hose.
- 6. Remove engine coolant inlet and thermostat assembly.
 - Do not disassemble engine coolant inlet and thermostat. Replace them as a unit, if necessary.

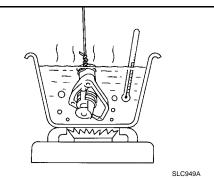


INSPECTION AFTER REMOVAL

- 1. Check valve seating condition at ordinary room temperatures. It should seat tightly.
- 2. Check valve opening temperature and maximum valve lift.

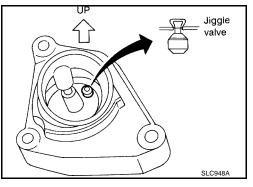
Thermostat	Standard Values	
Valve opening temperature	82°C (180°F)	
Valve lift	8.6 mm / 95°C (0.339 in / 203°F)	

3. Then check if valve closes at 5°C (9°F) below valve opening temperature.



INSTALLATION

- 1. Install thermostat with jiggle valve facing upward.
 - After installation, run engine for a few minutes, and check for leaks.
 - Be careful not to spill coolant over engine compartment. Use a rag to absorb coolant.
- 2. Installation of the remaining components is in the reverse order of removal.

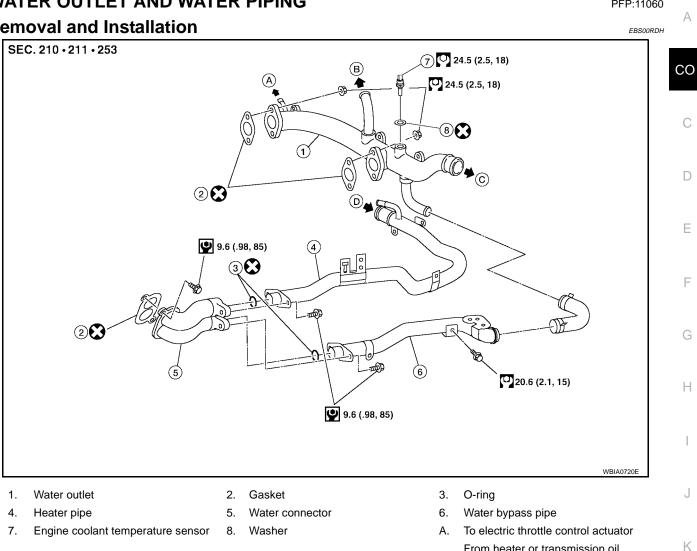


WATER OUTLET AND WATER PIPING

WATER OUTLET AND WATER PIPING

PFP:11060

Removal and Installation



В. To heater C. To radiator

- - From heater or transmission oil D. cooler (if equipped)

REMOVAL

1. Drain coolant from drain plugs on radiator and both sides of cylinder block. Refer to CO-10, "DRAINING ENGINE COOLANT" .

CAUTION:

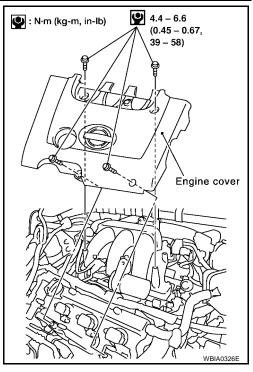
Perform when the engine is cold.

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WATER OUTLET AND WATER PIPING

- 2. Remove engine cover using power tool.
- 3. Remove air duct and air cleaner case assembly. Refer to <u>EM-14, "Removal and Installation"</u>.
- 4. Remove radiator upper hose and heater hose.
- 5. Remove connector(s) from heater pipe.
- 6. Disconnect engine coolant temperature sensor electrical connector on water outlet.
- 7. Remove water outlet, heater pipe, water connector, and water bypass pipe nuts and bolts.



INSTALLATION

- 1. Installation is in the reverse order of removal.
 - Securely insert each hose, and install a clamp at a position where it does not interfere with the pipe bulge.

CAUTION:

Use new gasket for installation

• When inserting heater pipe and water bypass pipe into water connector, apply neutral detergent to new O-rings.

CAUTION:

Use new O-rings for installation

• Refill engine coolant. Refer to CO-11, "REFILLING ENGINE COOLANT" .

SERVICE DATA AND SPECIFICATIONS (SDS)

apacity	CIFICATIONS (SD		PFP:00100
apacity			EBS00RDI
		ℓ (US ga	l, Imp gal)
Coolant capacity (With reservoir tank at MA	X level)	8.5 (2 1/4, 1 7/8)	
hermostat			EBS00RDJ
/alve opening temperature		82°C (180°F)	
/alve lift		8.6 mm / 95°C (0.339 in / 203°F)	
adiator		Unit: kPa (kg	_{евѕоокок} /cm ² , psi)
	Standard	78 - 98 (0.8 - 1.0, 11 - 14)	
Cap relief pressure	Limit	59 (0.6, 9)	
Radiator leak test pressure		157 (1.6, 23)	