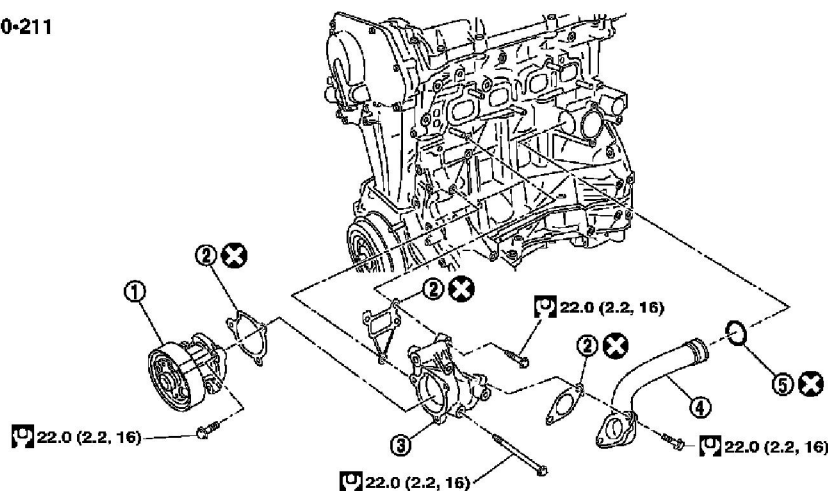


# Water Pump: Service and Repair

## WATER PUMP

### Removal and Installation

SEC. 210-211



- |               |            |                       |
|---------------|------------|-----------------------|
| 1. Water pump | 2. Gaskets | 3. Water pump housing |
| 4. Water pipe | 5. O-ring  |                       |

### WARNING:

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

### 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 engine coolant from the radiator. Refer to See: Cooling System/Coolant/Service and Repair.

### CAUTION:

Perform when the engine is cold.

2. Remove drive belt. Refer to See: Drive Belts, Mounts, Brackets and Accessories/Drive Belt/Service and Repair/Removal and Replacement/Removal and Installation.
3. Remove front air duct. Refer to See: Tune-up and Engine Performance Checks/Air Cleaner Housing/Service and Repair.
4. Remove generator and generator bracket. Refer to See: Starting and Charging/Charging System/Alternator/Service and Repair.
5. Remove RH wheel and tire assembly. Refer to See: Maintenance/Wheels and Tires/Service and Repair/Adjustment.
6. Remove fender protector side cover RH. Refer to See: Body and Frame/Fender/Front Fender/Front Fender Liner/Service and Repair/Coupe (Coupe models) or See: Body and Frame/Fender/Front Fender/Front Fender Liner/Service and Repair/Sedan (Sedan models).
7. Remove engine ground strap.
8. Remove the water pump.

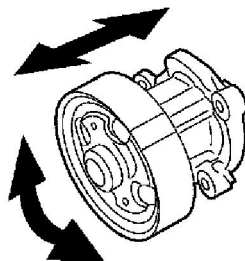
### CAUTION:

- Handle the water pump vane so that it does not contact any other parts.
- Water pump cannot be disassembled and should be replaced as an assembly.

### NOTE:

If it is necessary to remove the water pipe, the exhaust manifold and three way catalyst assembly must be removed. Refer to See: Exhaust System/Catalytic Converter/Service and Repair.

### INSPECTION AFTER REMOVAL



- Visually check that there is no significant dirt or rusting on the water pump body and vane.
- Check that there is no looseness in the vane shaft, and that it turns smoothly when rotated by hand.
- If the water pump does not perform properly, replace the water pump assembly.

#### **INSTALLATION**

Installation is in the reverse order of removal.

- When inserting water pipe end to cylinder block, apply a neutral detergent to O-ring. Then insert it immediately.

#### **INSPECTION AFTER INSTALLATION**

- After installation refill engine coolant and check for leaks. Refer to See: Cooling System/Coolant/Service and Repair and See: Cooling System/Coolant/Testing and Inspection.