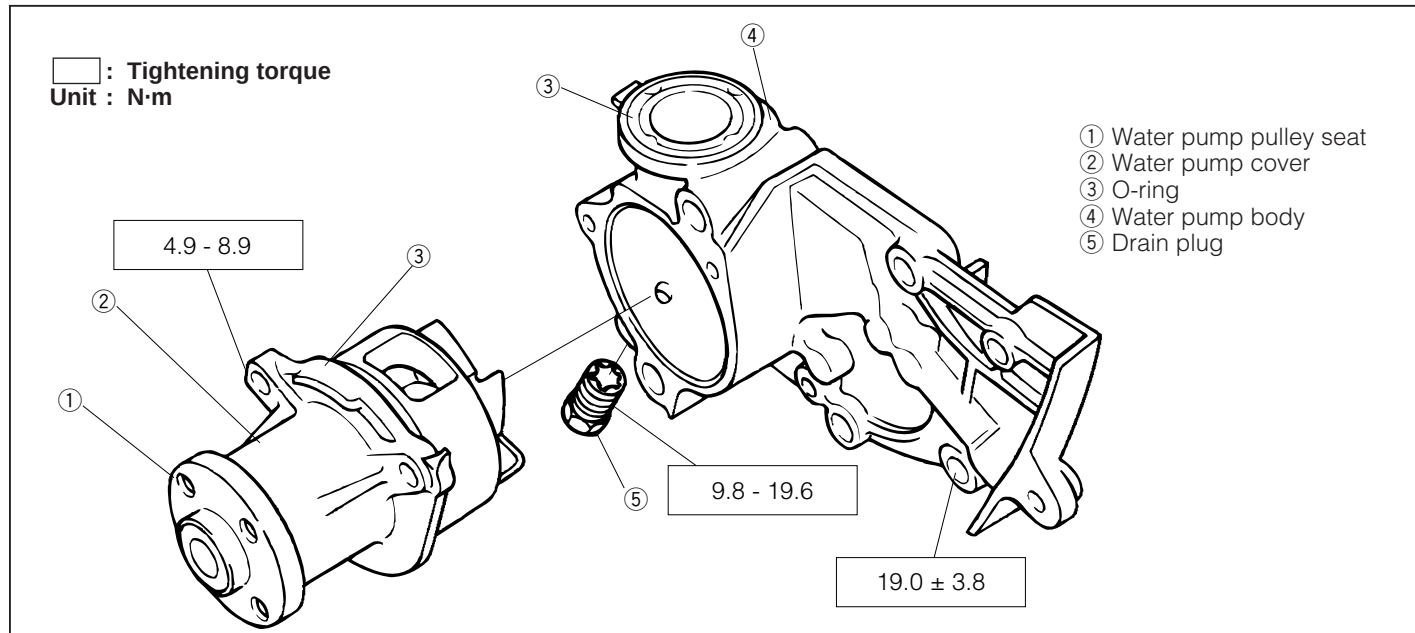


COOLING SYSTEM

WATER PUMP COMPONENTS

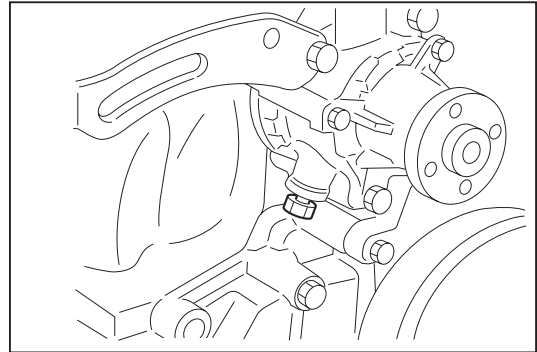


LCO00009-00007

Cases where only water pump cover is replaced:

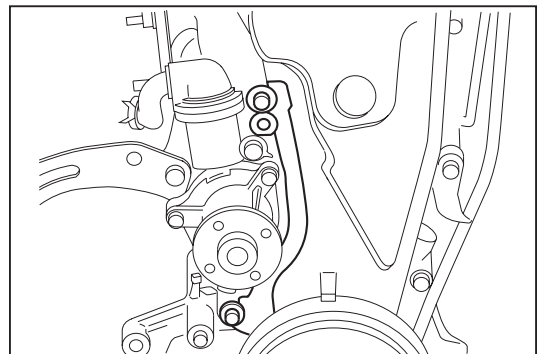
REMOVAL

1. Remove the water pump pulley.
2. Remove the V-belt.
3. Remove the alternator adjusting bar attaching bolt.
4. Drain the coolant by loosening the water pump drain plug.



LCO00011-00009

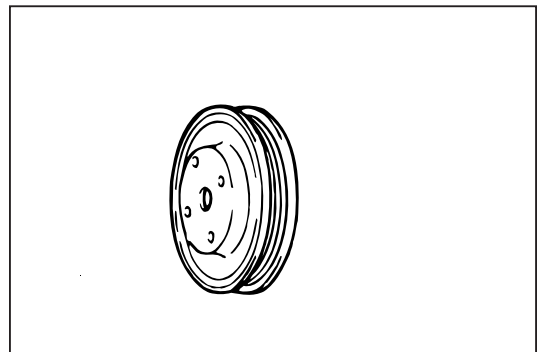
5. Since a part of the timing belt cover can be opened, remove that part only.
6. Remove the water pump cover attaching bolt.
7. Remove the water pump cover.



LCO00018-00016

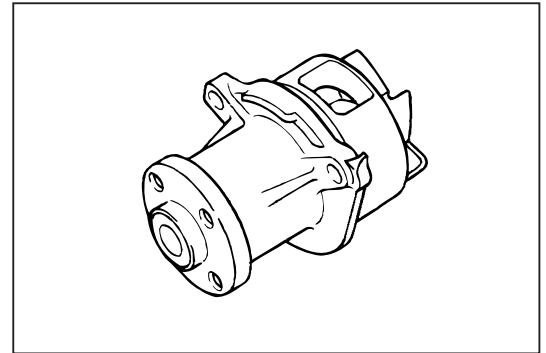
INSPECTION

1. Check the water pump pulley for damage or deformation. Replace the water pump pulley if it exhibits damage or deformation.



LCO00012-00010

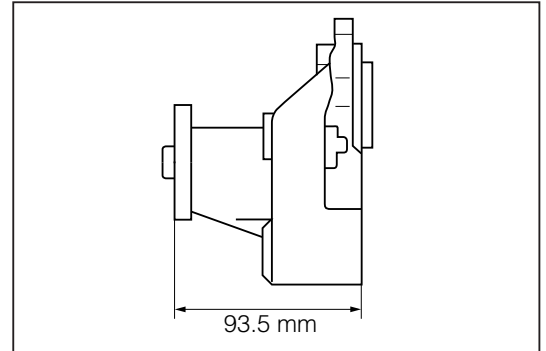
2. Visually inspect the water pump rotor for damage or deformation.
Replace the water pump cover if the water pump rotor exhibits damage or deformation.
3. Ensure that the water pump rotates smoothly by hand.
Replace the water pump cover if it will not rotate smoothly.
4. Visually inspect the O-ring for damage.
Replace the O-ring if it exhibits damage.
5. Visually inspect the water pump pulley seat for damage or deformation.
Replace the water pump pulley seat if it exhibits damage or deformation.



LCO00013-00011

Replacement of water pump pulley seat

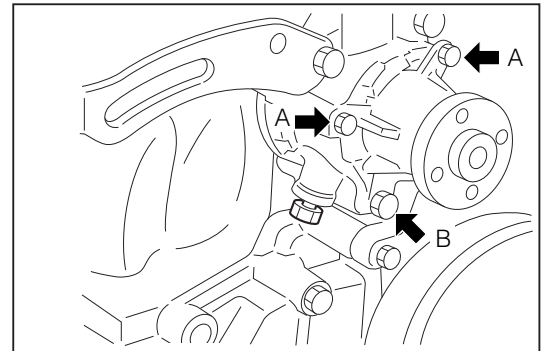
1. Remove the water pump pulley seat, using a press in combination with the SST 09238-87201-000 or a suitable bar.
2. Press-fit a new water pump pulley seat at the position indicated in the right figure, using a press.



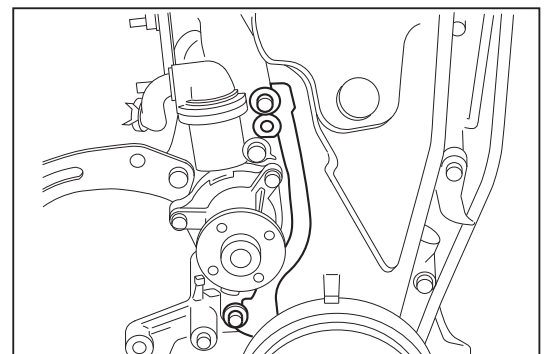
LCO00014-00012

INSTALLATION

1. Install the water pump cover to the water pump body.
Tightening Torque: 4.9 - 8.9 N·m (Bolt A)
19.0 ± 3.8 N·m (Bolt B)
2. Install the water pump drain plug to the water pump.
Tightening Torque: 9.8 - 19.6 N·m
3. Apply sealing agent to the part of the timing belt cover which was removed at Step 4 of page CO-4. Install it in place.
Tightening Torque: 5.5 ± 1.1 N·m
4. Install the water pump pulley and V-belt. (Refer to the EM section.)
5. Adjust the V-belt tension. (Refer to the CH section.)
6. Fill engine coolant.
7. Start the engine.
Ensure that no water leakage is present.



LCO00015-00013

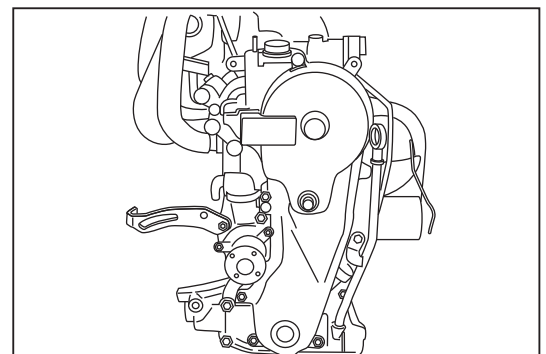


LCO00016-00014

Cases where water pump body is replaced:

REMOVAL

1. Remove the water pump pulley.
 2. Remove the V-belt.
 3. Remove the crankshaft pulley.
 4. Remove the timing belt cover.
 5. Remove the timing belt tensioner.
 6. Remove the timing belt.
- (For the above operations 1. through 6., refer to the EM section.)



LCO00017-00015