

# Water Pump

## COOLING

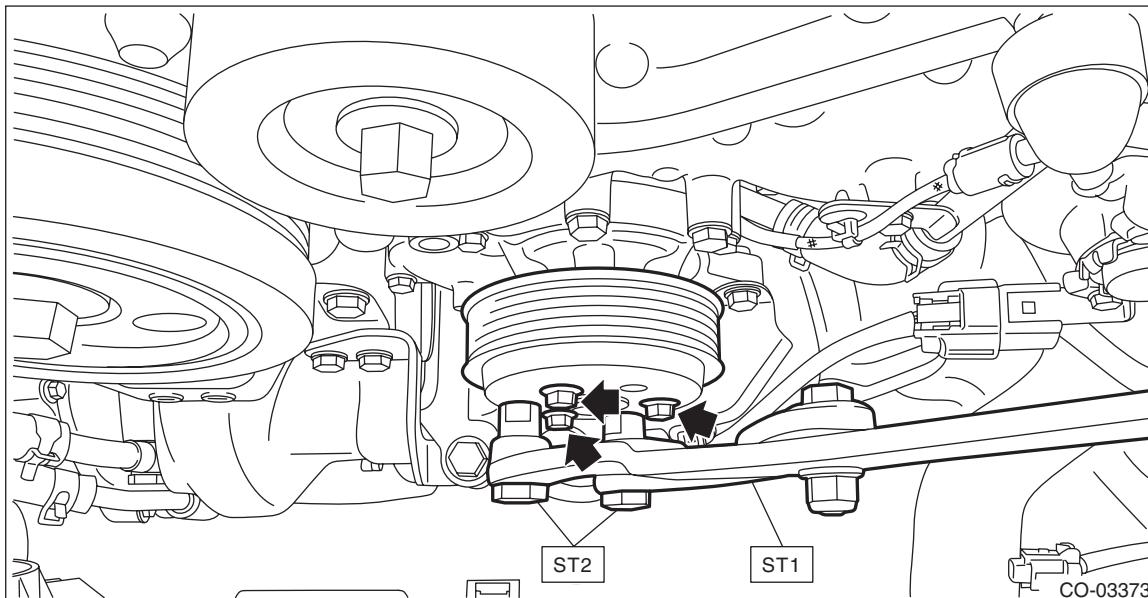
### 4. Water Pump

#### A: REMOVAL

##### 1. WATER PUMP PULLEY

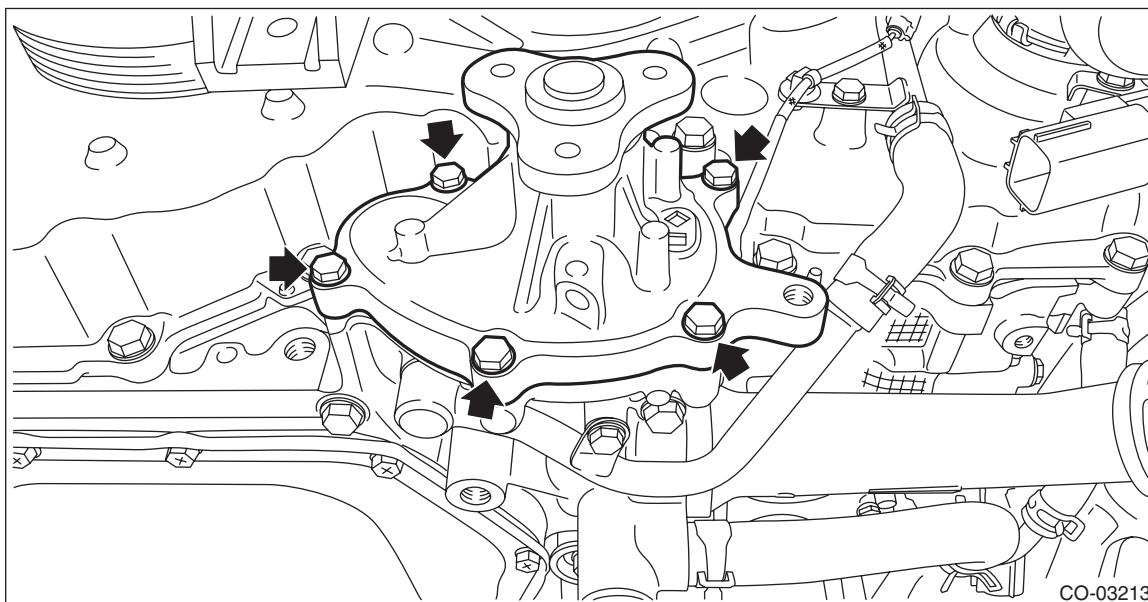
- 1) Remove the V-belts. <Ref. to ME(w/o STI)-78, REMOVAL, V-belt.>
- 2) Remove the water pump pulley using the ST.

ST1 18355AA000 PULLEY WRENCH  
ST2 18334AA030 PULLEY WRENCH PIN SET



##### 2. WATER PUMP

- 1) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 2) Remove the water pump pulley. <Ref. to CO(w/o STI)-16, WATER PUMP PULLEY, REMOVAL, Water Pump.>
- 3) Remove the front exhaust pipe. <Ref. to EX(w/o STI)-9, REMOVAL, Front Exhaust Pipe.>
- 4) Remove the water pump from the oil pan upper.



## B: INSTALLATION

### 1. WATER PUMP PULLEY

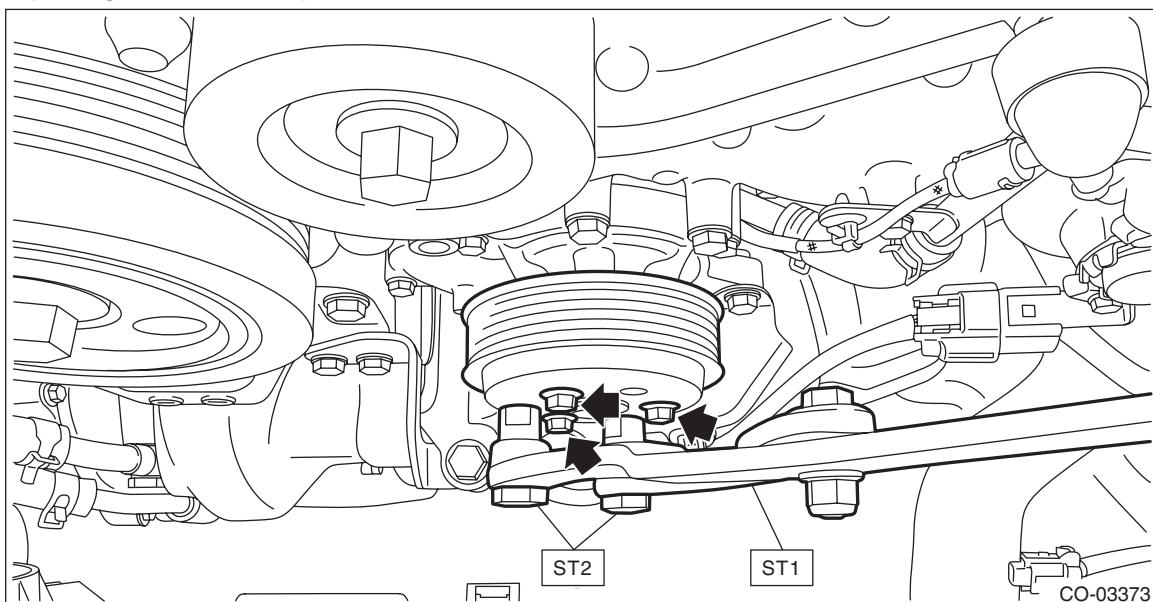
1) Using the ST, install the water pump pulley.

ST1 18355AA000 PULLEY WRENCH

ST2 18334AA030 PULLEY WRENCH PIN SET

**Tightening torque:**

14 N·m (1.4 kgf·m, 10.3 ft-lb)



2) Install the V-belts. <Ref. to ME(w/o STI)-81, INSTALLATION, V-belt.>

### 2. WATER PUMP

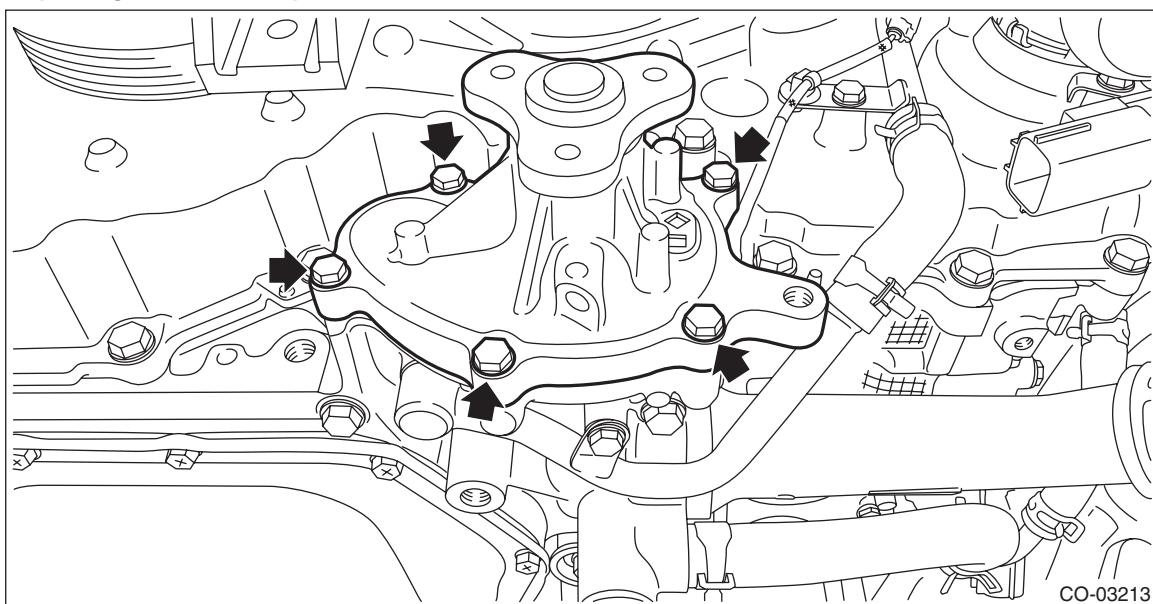
1) Install the water pump to oil pan upper.

**NOTE:**

Use a new gasket.

**Tightening torque:**

6.4 N·m (0.7 kgf·m, 4.7 ft-lb)



2) Install the front exhaust pipe. <Ref. to EX(w/o STI)-19, INSTALLATION, Front Exhaust Pipe.>

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- 3) Install the water pump pulley. <Ref. to CO(w/o STI)-17, WATER PUMP PULLEY, INSTALLATION, Water Pump.>
- 4) Connect the ground terminal to battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 5) Fill engine coolant. <Ref. to CO(w/o STI)-14, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

## C: INSPECTION

- 1) Check that the water pump pulley does not have deformation, cracks and any other damage.
- 2) Check the water pump bearing for smooth rotation.
- 3) Make sure the impeller is not abnormally deformed or damaged.