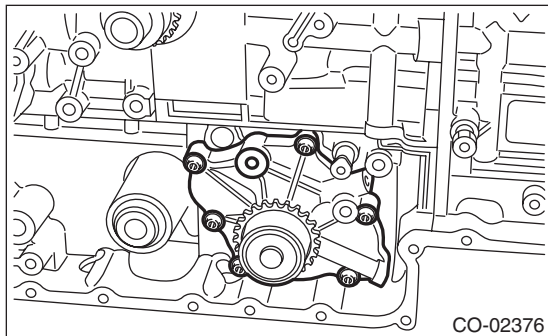


## 4. Water Pump

### A: REMOVAL

- 1) Remove the radiator. <Ref. to CO(H6DO)-17, REMOVAL, Radiator.>
- 2) Remove the V-belts. <Ref. to ME(H6DO)-46, REMOVAL, V-belt.>
- 3) Remove the crank pulley. <Ref. to ME(H6DO)-47, REMOVAL, Crank Pulley.>
- 4) Remove the chain cover. <Ref. to ME(H6DO)-48, REMOVAL, Chain Cover.>
- 5) Remove the timing chain assembly. <Ref. to ME(H6DO)-55, REMOVAL, Timing Chain Assembly.>
- 6) Remove the water pump from the oil pan upper.



### B: INSTALLATION

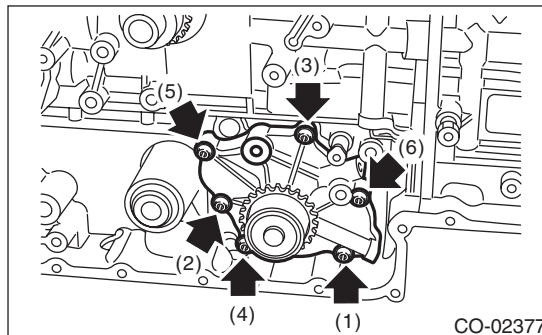
- 1) Tighten the bolts in the numerical order as shown in the figure, and install water pump to the oil pan upper.

#### NOTE:

Use a new gasket.

#### Tightening torque:

**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**



- 2) Install the timing chain assembly. <Ref. to ME(H6DO)-61, INSTALLATION, Timing Chain Assembly.>
- 3) Install the chain cover. <Ref. to ME(H6DO)-50, INSTALLATION, Chain Cover.>
- 4) Install the crank pulley. <Ref. to ME(H6DO)-47, INSTALLATION, Crank Pulley.>
- 5) Install the V-belts. <Ref. to ME(H6DO)-46, INSTALLATION, V-belt.>
- 6) Install the radiator. <Ref. to CO(H6DO)-19, INSTALLATION, Radiator.>
- 7) Fill engine coolant. <Ref. to CO(H6DO)-12, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

### C: INSPECTION

- 1) Check the water pump bearing for smooth rotation.
- 2) Check the water pump sprocket for abnormalities.
- 3) Make sure the impeller is not abnormally deformed or damaged.
- 4) After water pump installation, check pulley shaft for engine coolant leaks or noise. If leaks or noise are noted, replace the water pump assembly.