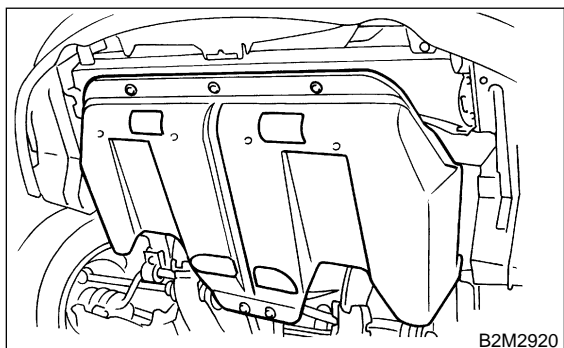


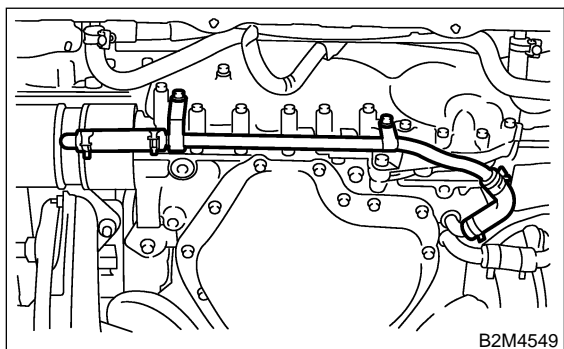
## 9. Oil Cooler S148073

### A: REMOVAL S148073A18

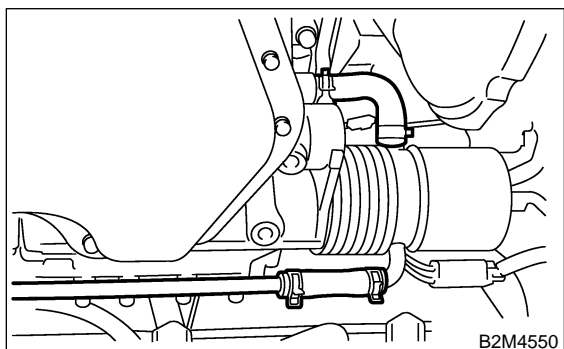
- 1) Lift-up the vehicle.
- 2) Remove under cover.



- 3) Drain engine coolant completely. <Ref. to CO(H6)-18, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 4) Drain engine oil. <Ref. to LU(H6)-10, REPLACEMENT, Engine Oil.>
- 5) Remove bolts which installs water pipe to engine.

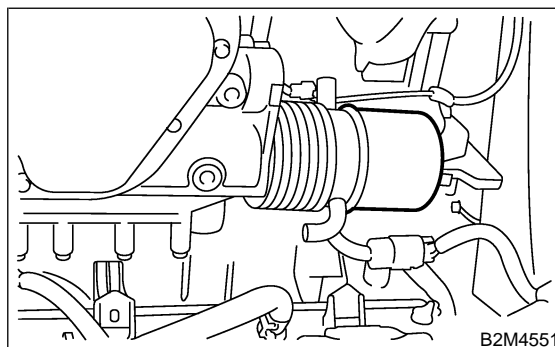


- 6) Disconnect water hoses from oil cooler.

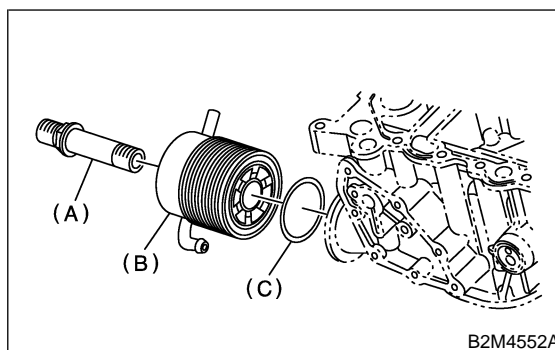


- 7) Remove oil filter using ST. <Ref. to LU(H6)-18, REMOVAL, Engine Oil Filter.>  
ST 49854700 OIL FILTER WRENCH

NOTE:  
Set container under the vehicle.



- 8) Remove connector and remove oil cooler.



- (A) Connector
- (B) Oil cooler
- (C) Gasket

### B: INSPECTION S148073A10

- 1) Check that coolant passages are not clogged using air blow method.
- 2) Check mating surfaces of gasket, upper oil pan groove and oil filter for damage.

# OIL COOLER

Lubrication

## C: INSTALLATION S148073A11

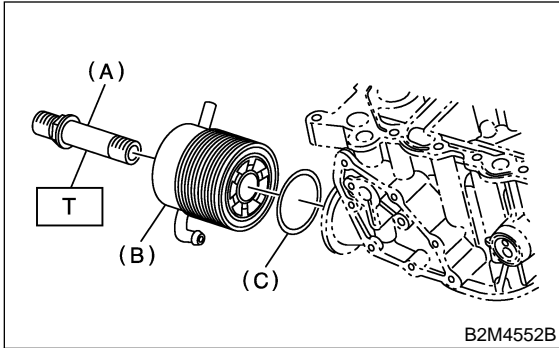
1) Install oil cooler on upper oil pan with connector pipe.

**Tightening torque:**

**T:  $54 \pm 5$  N·m ( $5.5 \pm 0.5$  kgf·m,  $39.8 \pm 3.6$  ft·lb)**

**CAUTION:**

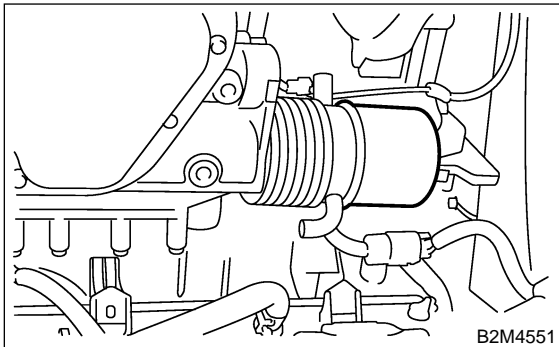
**Always use a new gasket.**



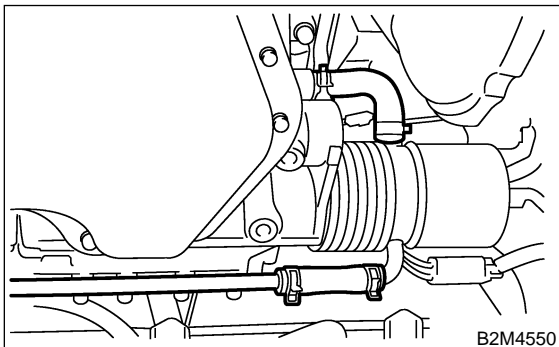
- (A) Connector
- (B) Oil cooler
- (C) Gasket

2) Install oil filter using ST. <Ref. to LU(H6)-18, INSTALLATION, Engine Oil Filter.>

ST 49854700 OIL FILTER WRENCH



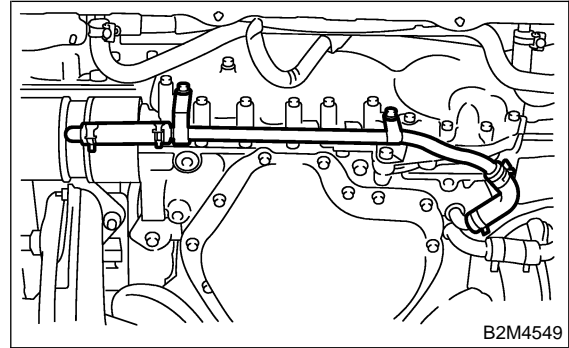
3) Install water hose.



4) Install water pipe to engine.

**Tightening torque:**

**6.4 N·m (0.65 kgf·m, 4.7 ft·lb)**



5) Fill engine oil. <Ref. to LU(H6)-10, REPLACEMENT, Engine Oil.>

6) Fill engine coolant. <Ref. to CO(H6)-18, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

7) Check the engine oil level. <Ref. to LU(H6)-10, INSPECTION, Engine Oil.>