

5. Oil Pump

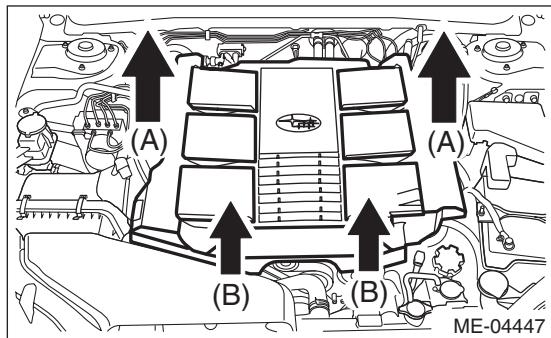
A: REMOVAL

1) Remove the collector cover.

NOTE:

Follow the steps below when removing the collector cover.

- (1) Lift up (A) in two positions at the rear.
- (2) Moving (B) in two positions at the front toward the vehicle, lift them up.



2) Disconnect the ground cable from battery.

3) Lift up the vehicle.

4) Remove the under cover. <Ref. to EI-35, REMOVAL, Front Under Cover.>

5) Drain the engine oil. <Ref. to LU(H6DO)-9, REPLACEMENT, Engine Oil.>

6) Drain engine coolant. <Ref. to CO(H6DO)-12, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

7) Lower the vehicle.

8) Remove the radiator. <Ref. to CO(H6DO)-17, REMOVAL, Radiator.>

9) Remove the V-belts. <Ref. to ME(H6DO)-49, REMOVAL, V-belt.>

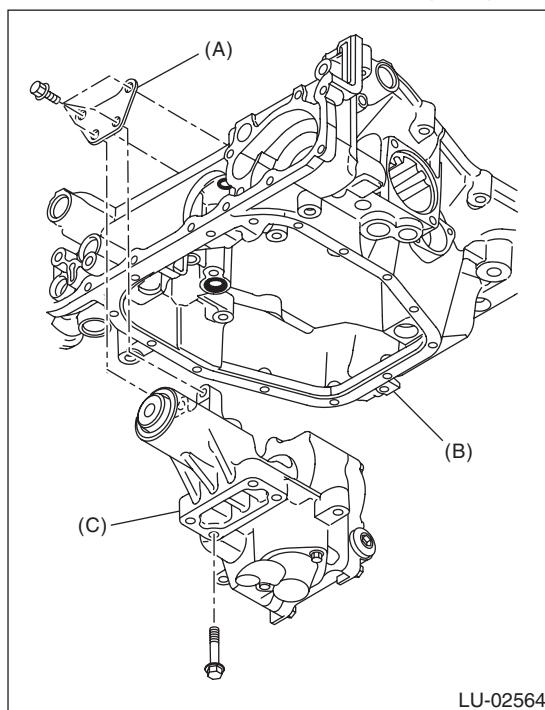
10) Remove the crank pulley. <Ref. to ME(H6DO)-50, REMOVAL, Crank Pulley.>

11) Remove the chain cover. <Ref. to ME(H6DO)-51, REMOVAL, Chain Cover.>

12) Remove the timing chain. <Ref. to ME(H6DO)-60, REMOVAL, Timing Chain Assembly.>

13) Remove the oil pan lower. <Ref. to LU(H6DO)-11, REMOVAL, Oil Pan.>

14) Remove the stiffener and the oil pump.



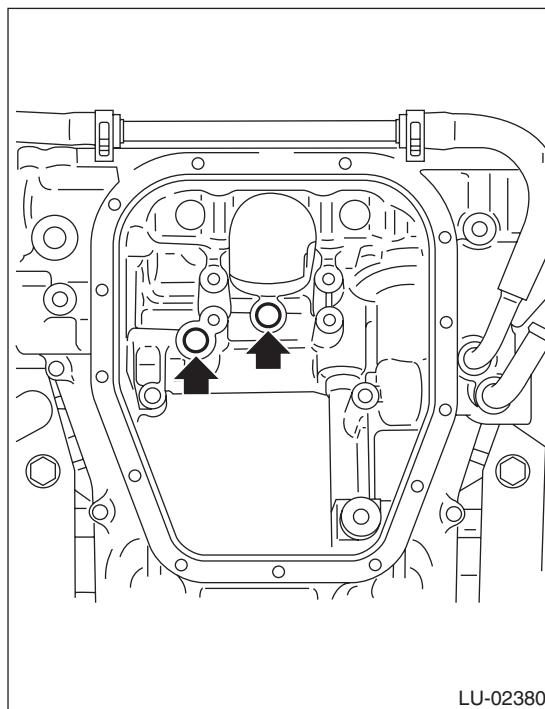
(A) Stiffener

(B) Oil pan upper

(C) Oil pump

15) Remove the strainer from the oil pump.

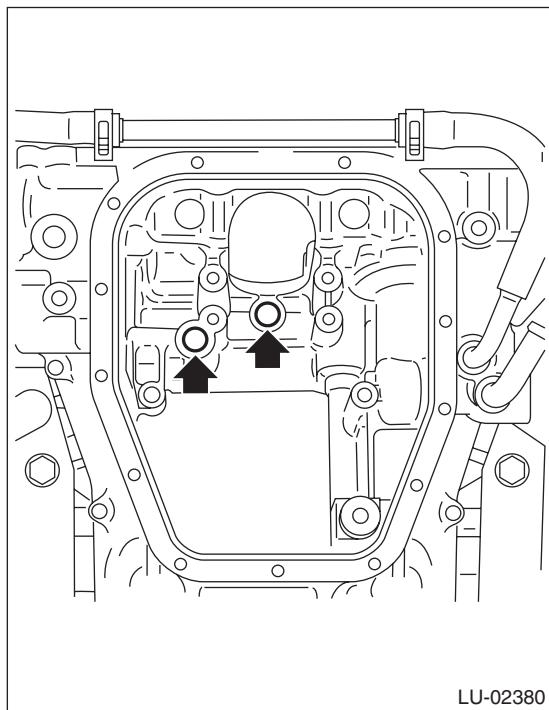
16) Remove the O-ring from oil pan upper.



B: INSTALLATION

1) Apply engine oil to the O-ring and attach it to the oil pan upper.

NOTE:
Use new O-rings.



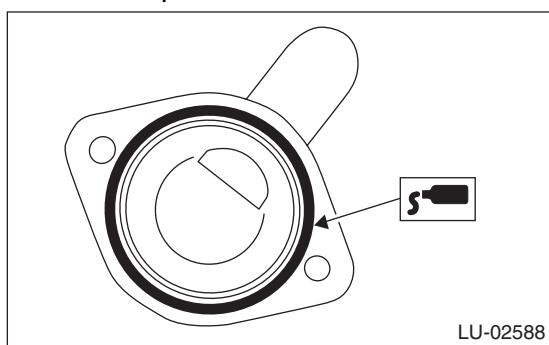
2) Apply liquid gasket to the mating surfaces of strainer.

Liquid gasket:
THREE BOND 1217G (Part No. K0877Y0100)
or equivalent

Liquid gasket applying diameter:
 $2.0 \pm 1.0 \text{ mm (0.079} \pm 0.039 \text{ in)}$

NOTE:

- Install within 5 min. after applying liquid gasket.
- After installing the strainer, remove any liquid gasket that is squeezed out.



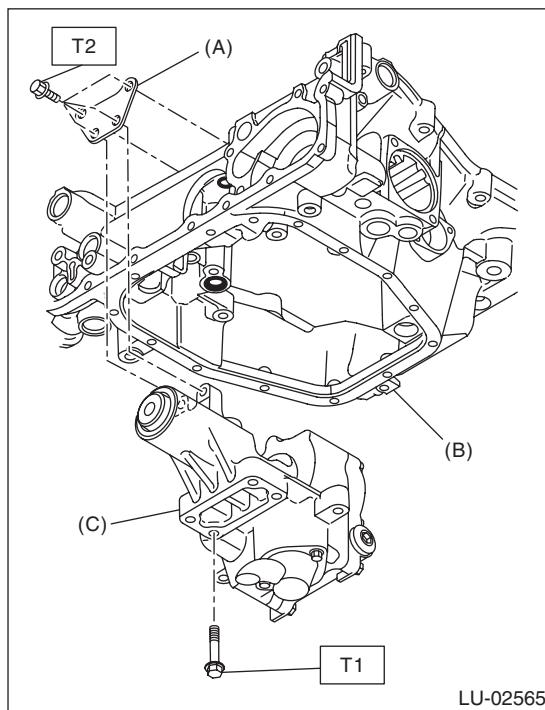
3) Install the strainer to the oil pump.

Tightening torque:
 $6.4 \text{ N}\cdot\text{m (0.7 kgf}\cdot\text{m, 4.7 ft-lb)}$

4) Install the stiffener and the oil pump.

Tightening torque:

T1: $13 \text{ N}\cdot\text{m (1.3 kgf}\cdot\text{m, 9.6 ft-lb)}$
T2: $24 \text{ N}\cdot\text{m (2.4 kgf}\cdot\text{m, 17.7 ft-lb)}$



(A) Stiffener
(B) Oil pan upper
(C) Oil pump

- 5) Install the oil pan lower. <Ref. to LU(H6DO)-11, INSTALLATION, Oil Pan.>
- 6) Install the timing chain. <Ref. to ME(H6DO)-66, INSTALLATION, Timing Chain Assembly.>
- 7) Install the chain cover. <Ref. to ME(H6DO)-54, INSTALLATION, Chain Cover.>
- 8) Install the crank pulley. <Ref. to ME(H6DO)-50, INSTALLATION, Crank Pulley.>
- 9) Install the V-belts. <Ref. to ME(H6DO)-49, INSTALLATION, V-belt.>
- 10) Install the radiator. <Ref. to CO(H6DO)-18, INSTALLATION, Radiator.>
- 11) Lift up the vehicle.
- 12) Install the under cover. <Ref. to EI-35, INSTALLATION, Front Under Cover.>
- 13) Lower the vehicle.
- 14) Fill the ATF. <Ref. to CO(H6DO)-12, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 15) Refill the engine oil. <Ref. to LU(H6DO)-9, REPLACEMENT, Engine Oil.>
- 16) Check the engine oil level. <Ref. to LU(H6DO)-9, INSPECTION, Engine Oil.>

C: INSPECTION

- Visually check the oil pump for breakage.
- Visually check the strainer portion for clogging.