

# Chain Cover

## MECHANICAL

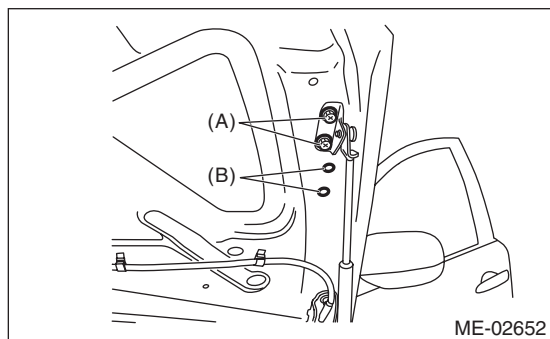
### 14.Chain Cover

#### A: REMOVAL

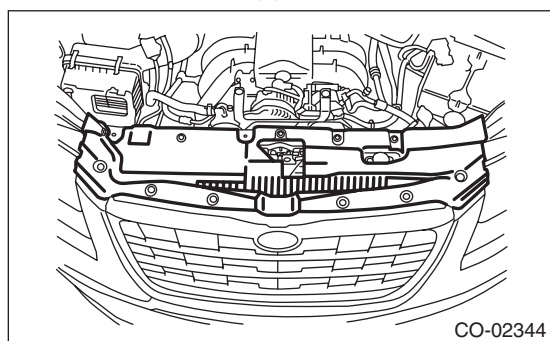
- 1) Lift up the vehicle.
- 2) Remove the under cover. <Ref. to EI-18, REMOVAL, Front Under Cover.>
- 3) Drain the engine oil. <Ref. to LU(H6DO)-10, REPLACEMENT, Engine Oil.>
- 4) Drain engine coolant. <Ref. to CO(H6DO)-12, DRAINING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>
- 5) Lower the vehicle.
- 6) Change the bolt mounting position from (A) to (B), then completely open the front hood.

#### Tightening torque:

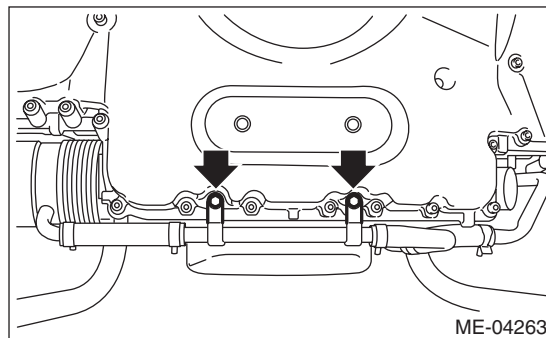
**7.5 N·m (0.8 kgf·m, 5.5 ft·lb)**



- 7) Remove the air intake duct. <Ref. to IN(H6DO)-8, REMOVAL, Air Intake Duct.>
- 8) Remove the V-belts. <Ref. to ME(H6DO)-46, REMOVAL, V-belt.>
- 9) Remove the crank pulley. <Ref. to ME(H6DO)-47, REMOVAL, Crank Pulley.>
- 10) Remove the front upper cover.



- 11) Remove the reservoir tank. <Ref. to CO(H6DO)-28, REMOVAL, Reservoir Tank.>
- 12) Remove the radiator main fan & fan motor and radiator sub fan & fan motor. <Ref. to CO(H6DO)-23, REMOVAL, Radiator Main Fan and Fan Motor.>
- 13) Remove the radiator. <Ref. to CO(H6DO)-17, REMOVAL, Radiator.>
- 14) Remove the oil cooler pipe from the chain cover.



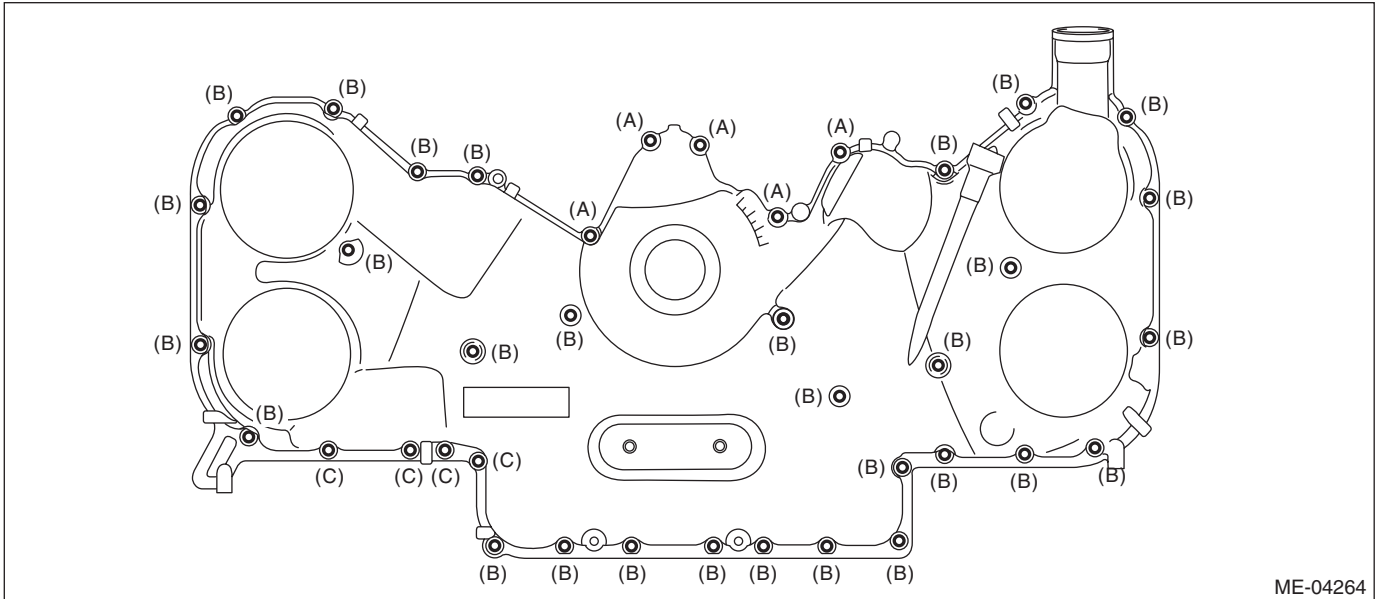
# Chain Cover

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15) Remove the chain cover.

**NOTE:**

Chain cover installation bolt has three different sizes. To prevent the confusion in installation, keep these bolts on container individually.



(A) M6 x 21

(B) M6 x 30

(C) M6 x 53

# Chain Cover

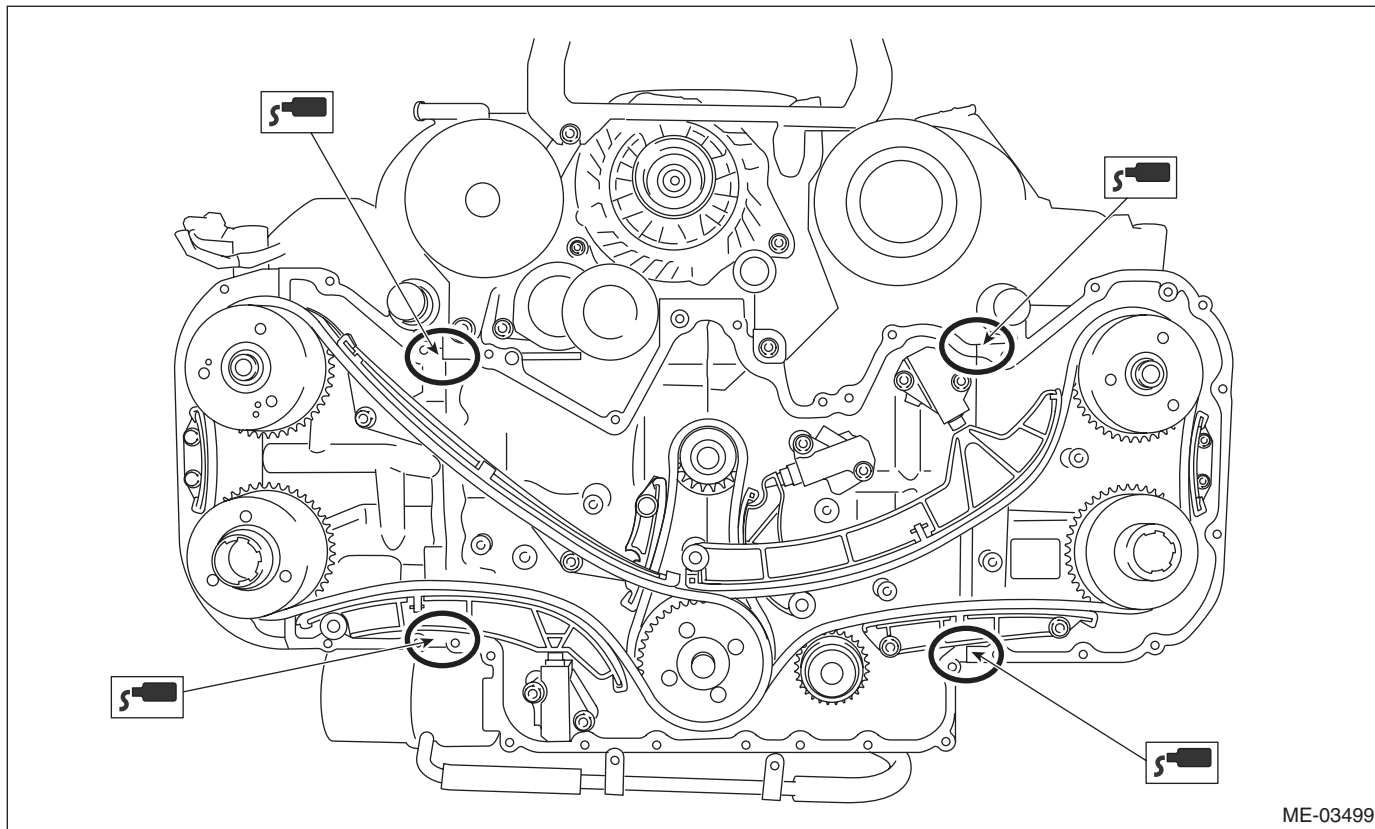
MECHANICAL

## B: INSTALLATION

1) Apply liquid gasket to the mating surfaces of the cylinder block, cylinder head and oil pan upper as shown in the figure.

**Liquid gasket:**

**THREE BOND 1217G (Part No. K0877Y0100) or equivalent**



2) Apply liquid gasket to the mating surface of the chain cover.

**NOTE:**

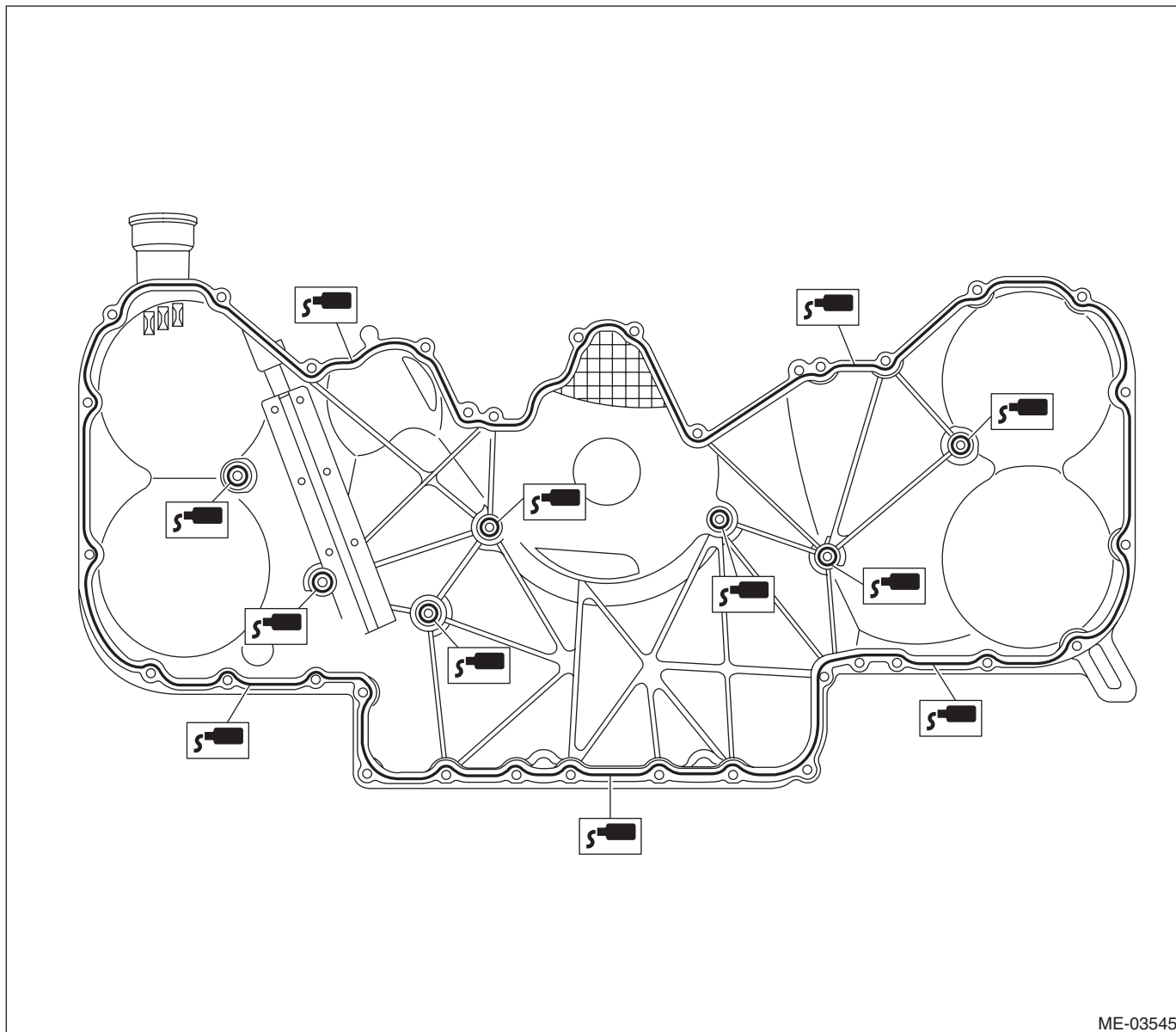
Install within 5 min. after applying liquid gasket.

**Liquid gasket:**

**THREE BOND 1217G (Part No. K0877Y0100) or equivalent**

**Liquid gasket applying diameter:**

**$3.5 \pm 0.5$  mm ( $0.138 \pm 0.020$  in)**



ME-03545

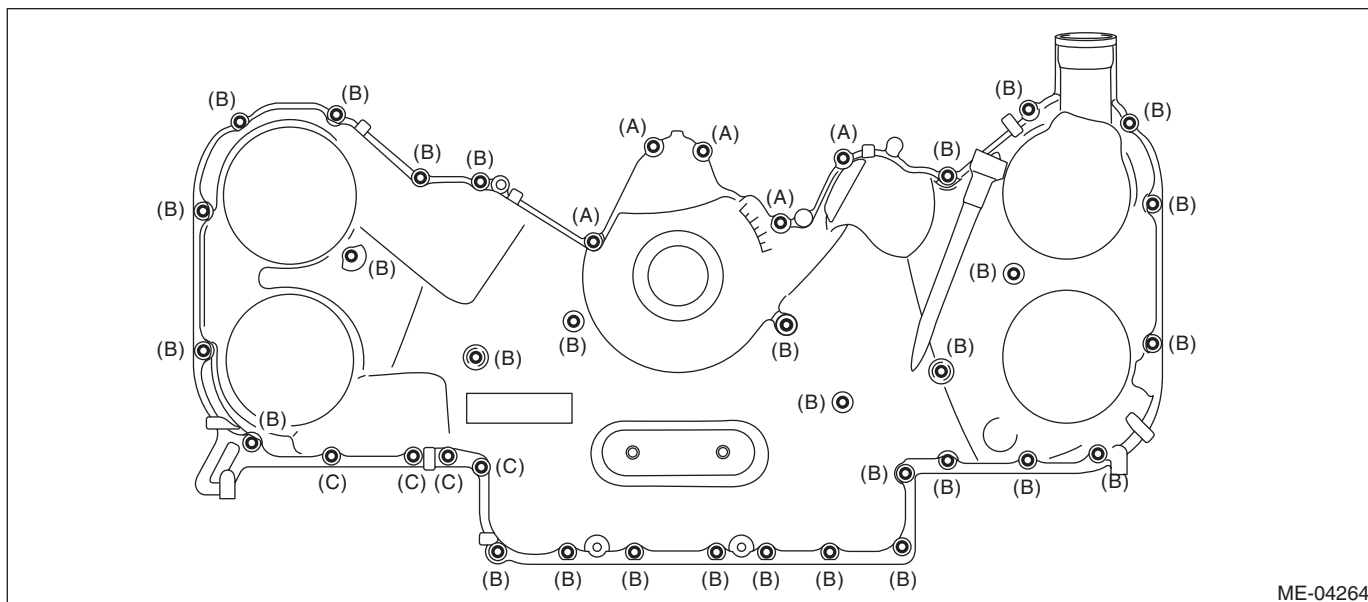
# Chain Cover

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3) Install the chain cover and temporarily tighten the bolts.

### CAUTION:

Do not install the bolts in wrong place.



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(A) M6 × 21

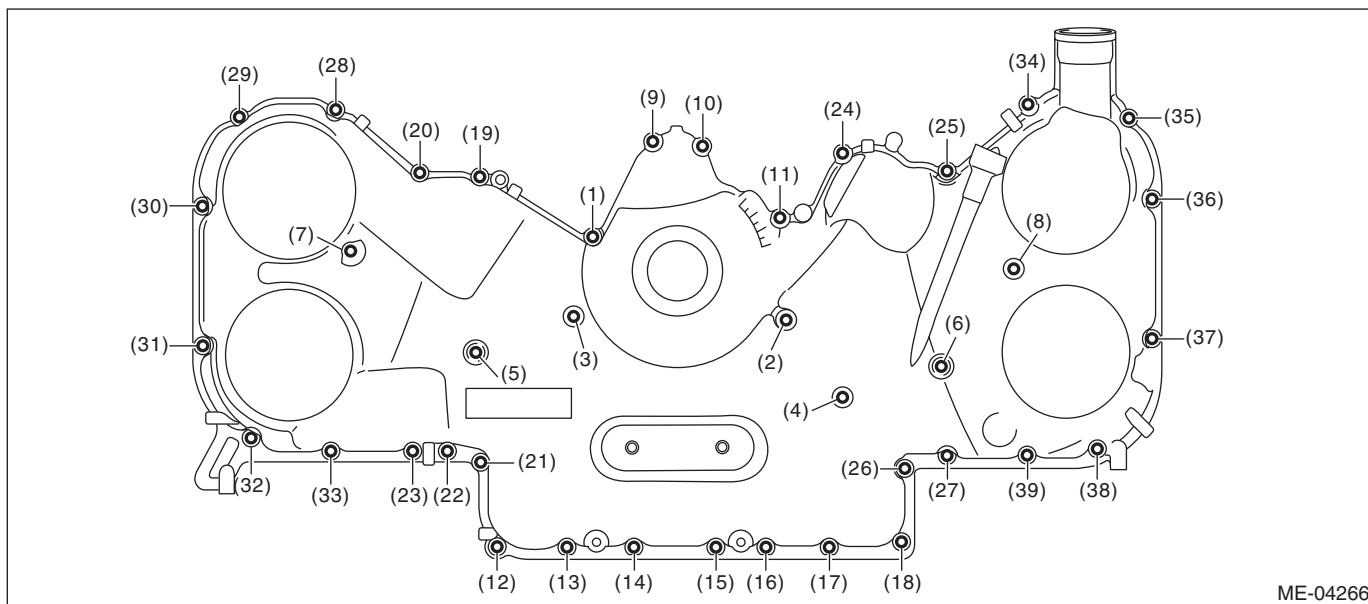
(B) M6 × 30

(C) M6 × 53

4) Tighten the bolts in the numerical order as shown in the figure.

### Tightening torque:

10 N·m (1.0 kgf·m, 7.4 ft·lb)

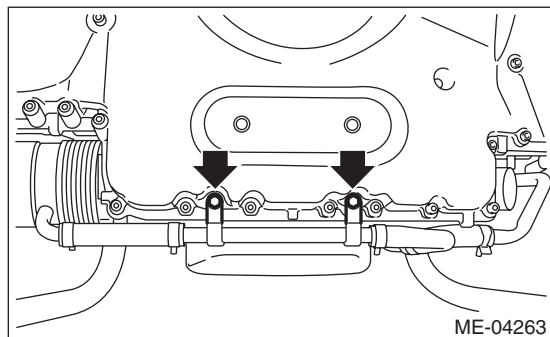


ME-04266

5) Install the oil cooler pipe to the chain cover.

**Tightening torque:**

**6.4 N·m (0.7 kgf-m, 4.7 ft-lb)**

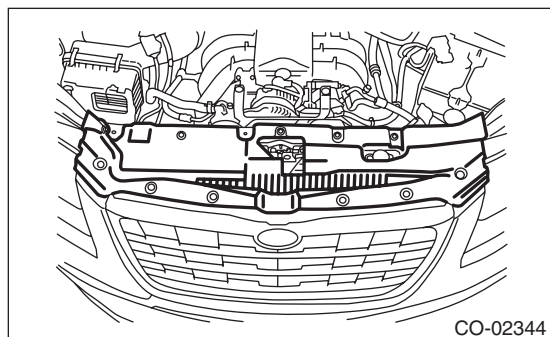


6) Install the radiator. <Ref. to CO(H6DO)-19, INSTALLATION, Radiator.>

7) Install the radiator main & fan motor and radiator sub fan & fan motor. <Ref. to CO(H6DO)-24, INSTALLATION, Radiator Main Fan and Fan Motor.>

8) Install the reservoir tank. <Ref. to CO(H6DO)-28, REMOVAL, Reservoir Tank.>

9) Install the front upper cover.



10) Install the crank pulley. <Ref. to ME(H6DO)-47, INSTALLATION, Crank Pulley.>

11) Install the V-belts. <Ref. to ME(H6DO)-46, INSTALLATION, V-belt.>

12) Install the air intake duct. <Ref. to IN(H6DO)-8, INSTALLATION, Air Intake Duct.>

13) Fill engine coolant. <Ref. to CO(H6DO)-12, FILLING OF ENGINE COOLANT, REPLACEMENT, Engine Coolant.>

14) Fill engine oil. <Ref. to LU(H6DO)-10, REPLACEMENT, Engine Oil.>

15) Make sure there is no oil leaks in the chain cover mating surface.

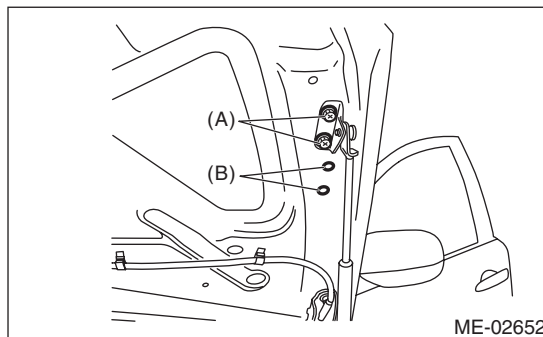
16) Install the under cover. <Ref. to EI-18, INSTALLATION, Front Under Cover.>

17) Install the collector cover.

18) Change the bolt mounting position from (B) to (A), and completely close the front hood.

**Tightening torque:**

**7.5 N·m (0.8 kgf-m, 5.5 ft-lb)**



## C: INSPECTION

1) Check the chain cover surface for scratches or dents.

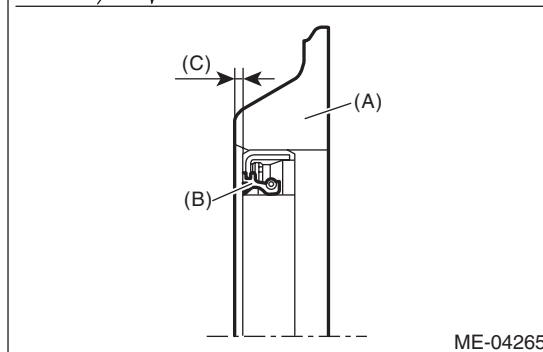
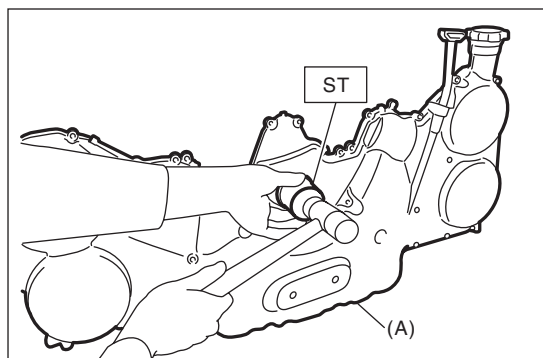
2) Check for oil leakage on the chain cover mating surface and installation part of crank pulley.

If there is an oil leak from the oil seal, perform replacement with a new oil seal.

ST 499585700 OIL SEAL GUIDE

**Oil seal press-fit position:**

**Chain cover end face — Position of  $-1\text{ mm}$  ( $-0.039\text{ in}$ ) from the chain cover end face**



- (A) Chain cover
- (B) Oil seal
- (C) Oil seal press-fit position (Chain cover end face — Position of  $-1\text{ mm}$  ( $-0.039\text{ in}$ ) from the chain cover end face)