

7. Oil Pipe

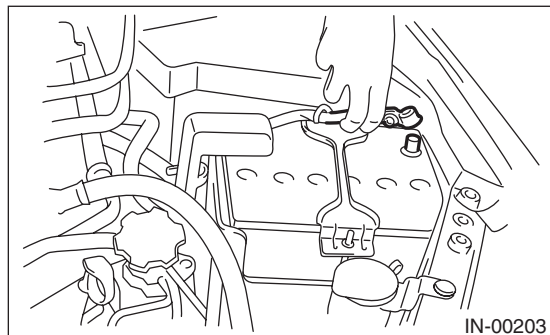
A: REMOVAL

NOTE:

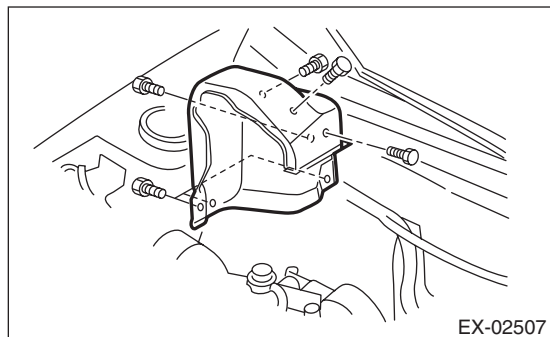
The oil pipe is installed on DOHC models.

1. EXCEPT FOR WRX-SS MODEL

- 1) Disconnect the ground cable from battery.



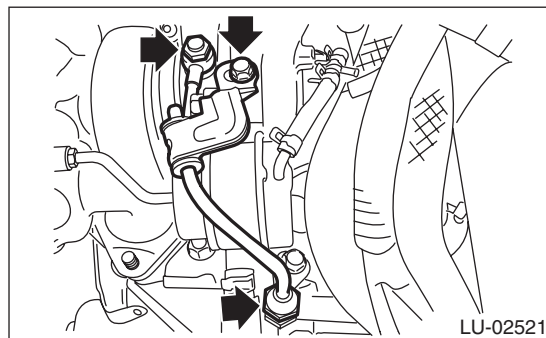
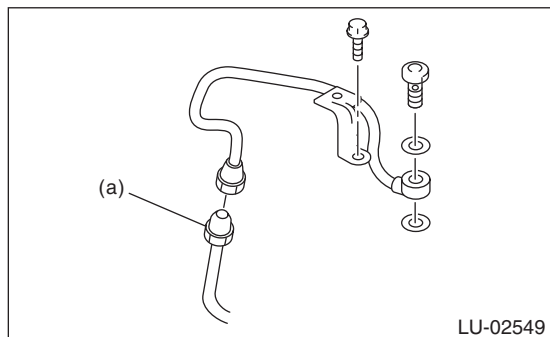
- 2) Remove the intercooler. <Ref. to IN(H4DOTC)-13, REMOVAL, Intercooler.>
- 3) Remove the intercooler bracket RH.
- 4) Remove the turbocharger upper cover.



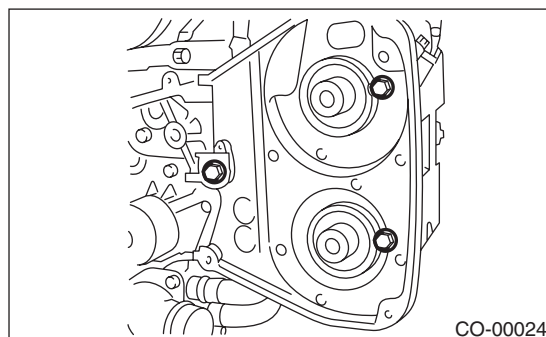
- 5) Remove the oil inlet pipe from the turbocharger.

CAUTION:

In order to prevent damaging the oil pipe on the cylinder head side, fix the section (a) shown in the figure when loosening the oil inlet pipe flare nut, and avoid the part from rotating together while loosening the nut.



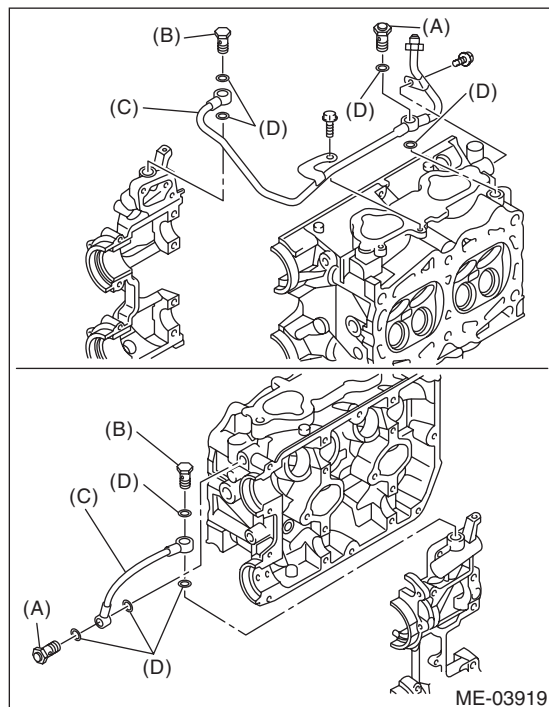
- 6) Remove the intake manifold. <Ref. to FU(H4DOTC)-16, REMOVAL, Intake Manifold.>
- 7) Remove the secondary air pump. <Ref. to EC(H4DOTC)-24, REMOVAL, Secondary Air Pump.>
- 8) Remove the radiator main fan and radiator sub fan. <Ref. to CO(H4DOTC)-24, REMOVAL, Radiator Main Fan and Fan Motor.> <Ref. to CO(H4DOTC)-26, REMOVAL, Radiator Sub Fan and Fan Motor.>
- 9) Remove the V-belts. <Ref. to ME(H4DOTC)-40, REMOVAL, V-belt.>
- 10) Remove the crank pulley. <Ref. to ME(H4DOTC)-47, REMOVAL, Crank Pulley.>
- 11) Remove the timing belt cover. <Ref. to ME(H4DOTC)-49, REMOVAL, Timing Belt Cover.>
- 12) Remove the timing belt. <Ref. to ME(H4DOTC)-50, TIMING BELT, REMOVAL, Timing Belt.>
- 13) Remove the cam sprocket LH. <Ref. to ME(H4DOTC)-59, REMOVAL, Cam Sprocket.>
- 14) Remove the belt cover No. 2 LH.



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LUBRICATION

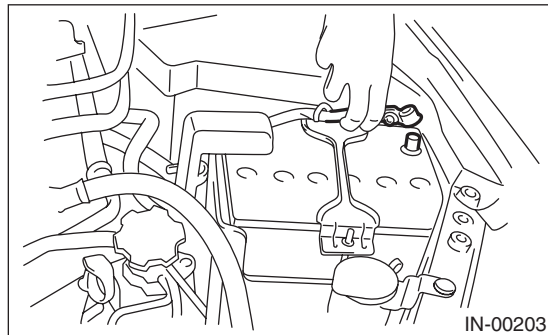
15) Remove the oil pipe.



- (A) Union screw with filter (with protrusion)
- (B) Union screw without filter (without protrusion)
- (C) Oil pipe
- (D) Gasket

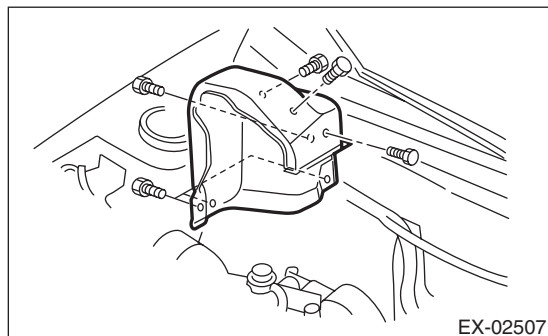
2. WRX-SS MODEL

1) Disconnect the ground cable from battery.



2) Remove the intercooler. <Ref. to IN(H4DOTC)-13, REMOVAL, Intercooler.>

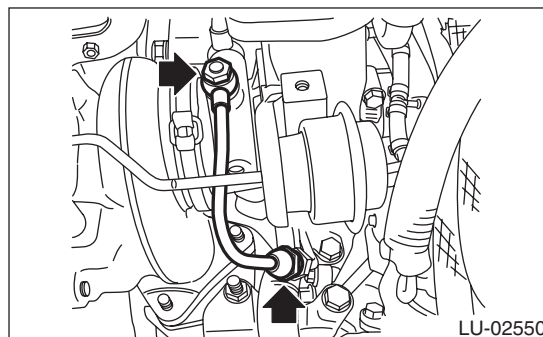
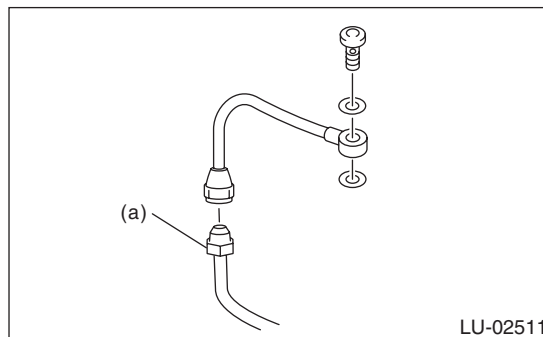
3) Remove the turbocharger upper cover.



4) Remove the oil inlet pipe from the turbocharger.

CAUTION:

In order to prevent damaging the oil pipe on the cylinder head side, fix the section (a) shown in the figure when loosening the oil inlet pipe flare nut, and avoid the part from rotating together while loosening the nut.



5) Remove the intake manifold. <Ref. to FU(H4DOTC)-16, REMOVAL, Intake Manifold.>

6) Remove the secondary air pump. <Ref. to EC(H4DOTC)-24, REMOVAL, Secondary Air Pump.>

7) Remove the radiator main fan and radiator sub fan. <Ref. to CO(H4DOTC)-24, REMOVAL, Radiator Main Fan and Fan Motor.> <Ref. to CO(H4DOTC)-26, REMOVAL, Radiator Sub Fan and Fan Motor.>

8) Remove the V-belts. <Ref. to ME(H4DOTC)-40, REMOVAL, V-belt.>

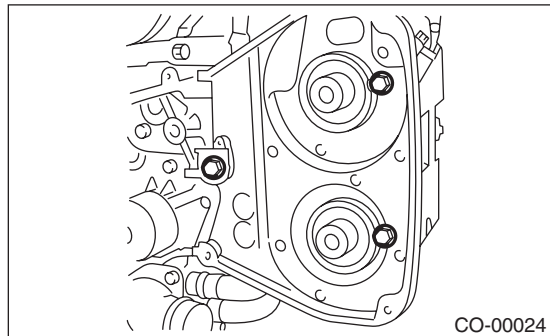
9) Remove the crank pulley. <Ref. to ME(H4DOTC)-47, REMOVAL, Crank Pulley.>

10) Remove the timing belt cover. <Ref. to ME(H4DOTC)-49, REMOVAL, Timing Belt Cover.>

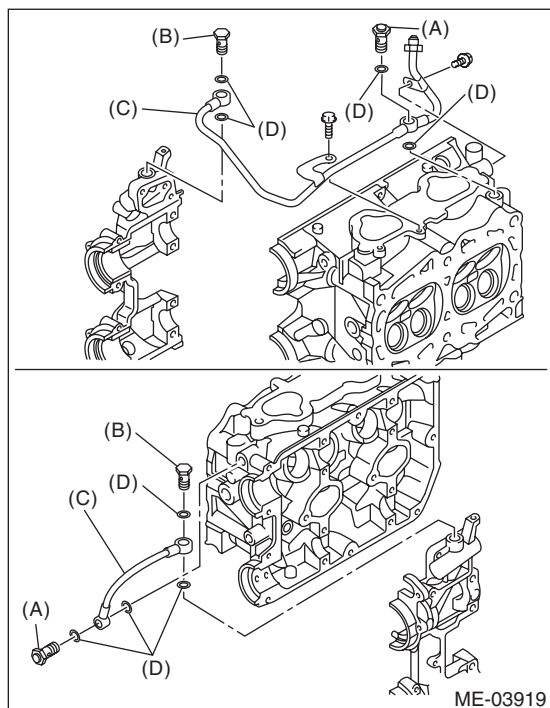
11) Remove the timing belt. <Ref. to ME(H4DOTC)-50, TIMING BELT, REMOVAL, Timing Belt.>

12) Remove the cam sprocket LH. <Ref. to ME(H4DOTC)-59, REMOVAL, Cam Sprocket.>

13) Remove the belt cover No. 2 LH.



14) Remove the oil pipe.



- (A) Union screw with filter (with protrusion)
- (B) Union screw without filter (without protrusion)
- (C) Oil pipe
- (D) Gasket

B: INSTALLATION

1. EXCEPT FOR WRX-SS MODEL

1) Inspect the union screw with filter. <Ref. to LU(H4SO)-28, INSPECTING UNION SCREW WITH FILTER, INSPECTION, Oil Pipe.>

2) Install the oil pipe.

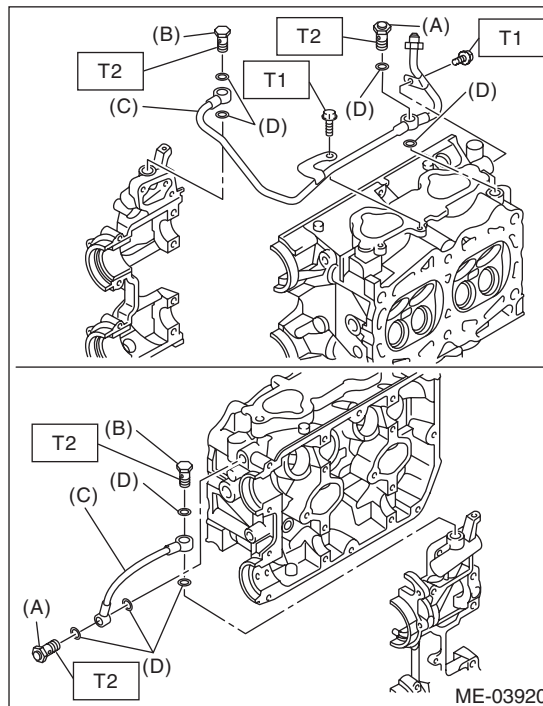
NOTE:

- Make sure not to mix up the union screws with filter and without filter as their installation positions are different.
- Use a new gasket.

Tightening torque:

T1: 8 N·m (0.8 kgf-m, 5.9 ft-lb)

T2: 29 N·m (3.0 kgf-m, 21.4 ft-lb)

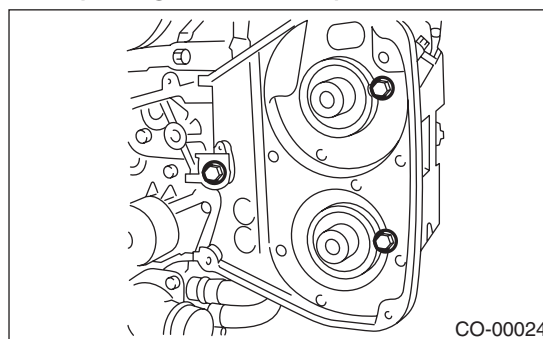


- (A) Union screw with filter (with protrusion)
- (B) Union screw without filter (without protrusion)
- (C) Oil pipe
- (D) Gasket

3) Install the belt cover No. 2 LH.

Tightening torque:

5 N·m (0.5 kgf-m, 3.7 ft-lb)



4) Install the cam sprocket LH. <Ref. to ME(H4DOTC)-59, INSTALLATION, Cam Sprocket.>

5) Install the timing belt. <Ref. to ME(H4DOTC)-53, TIMING BELT, INSTALLATION, Timing Belt.>

6) Install the timing belt cover. <Ref. to ME(H4DOTC)-49, INSTALLATION, Timing Belt Cover.>

7) Install the crank pulley. <Ref. to ME(H4DOTC)-47, INSTALLATION, Crank Pulley.>

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8) Install the V-belts. <Ref. to ME(H4DOTC)-40, INSTALLATION, V-belt.>

9) Install the radiator main fan and the radiator sub fan. <Ref. to CO(H4DOTC)-24, INSTALLATION, Radiator Main Fan and Fan Motor.> <Ref. to CO(H4DOTC)-26, INSTALLATION, Radiator Sub Fan and Fan Motor.>

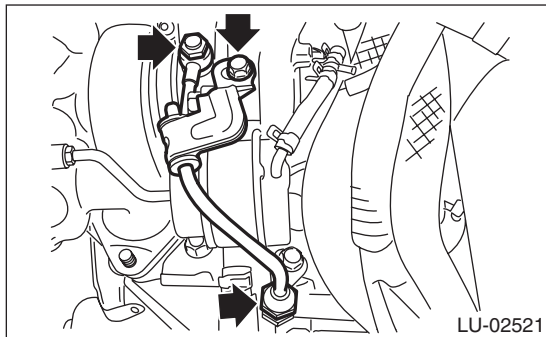
10) Install the secondary air pump. <Ref. to EC(H4DOTC)-24, INSTALLATION, Secondary Air Pump.>

11) Install the intake manifold. <Ref. to FU(H4DOTC)-20, INSTALLATION, Intake Manifold.>

12) Temporarily tighten the bolts and flare nuts which secure the oil inlet pipe to the turbocharger.

NOTE:

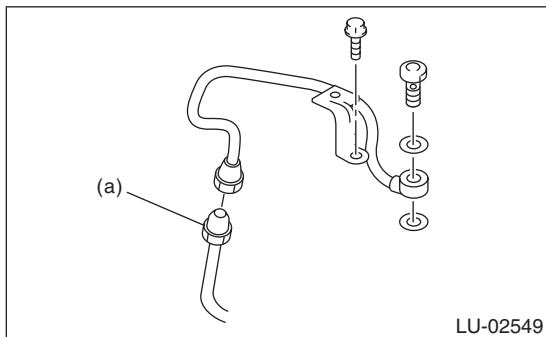
Use a new gasket.



13) Tighten the union screws and flare nuts which secure the oil inlet pipe to the turbocharger.

CAUTION:

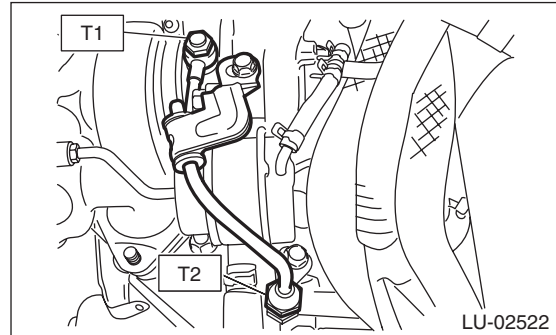
In order to prevent damaging the oil pipe on the cylinder head side, fix the section (a) shown in the figure when tightening the oil inlet pipe flare nut, and avoid the part from rotating together while tightening the nut.



Tightening torque:

T1: 16 N·m (1.6 kgf-m, 11.8 ft-lb)

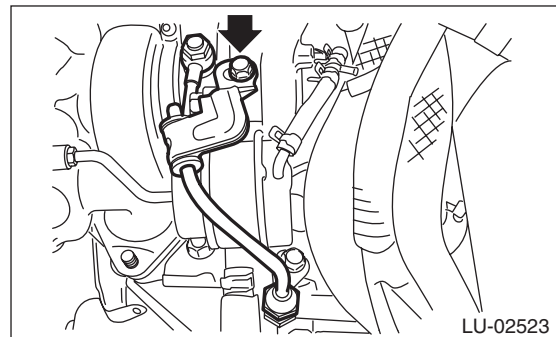
T2: 20 N·m (2.0 kgf-m, 14.8 ft-lb)



14) Tighten the bolts which hold the oil inlet pipe stay to the turbocharger.

Tightening torque:

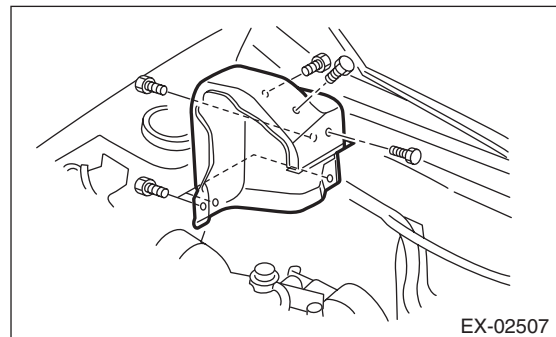
5 N·m (0.5 kgf-m, 3.7 ft-lb)



15) Install the turbocharger upper cover.

Tightening torque:

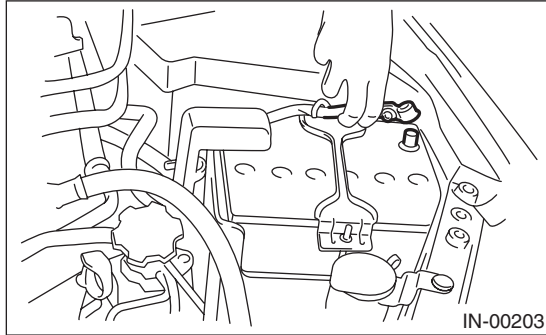
7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



16) Install the intercooler bracket RH.

17) Install the intercooler. <Ref. to IN(H4DOTC)-13, INSTALLATION, Intercooler.>

- 18) Connect the ground cable to battery.



2. WRX-SS MODEL

- 1) Inspect the union screw with filter. <Ref. to LU(H4SO)-28, INSPECTING UNION SCREW WITH FILTER, INSPECTION, Oil Pipe.>
- 2) Install the oil pipe.

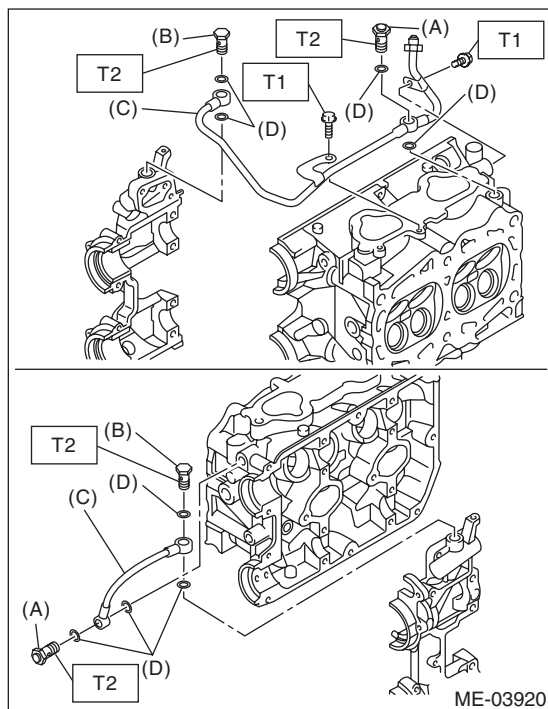
NOTE:

- Make sure not to mix up the union screws with filter and without filter as their installation positions are different.
- Use a new gasket.

Tightening torque:

T1: 8 N·m (0.8 kgf-m, 5.9 ft-lb)

T2: 29 N·m (3.0 kgf-m, 21.4 ft-lb)

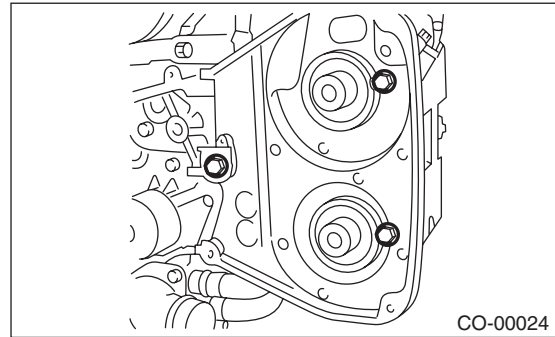


- (A) Union screw with filter (with protrusion)
 (B) Union screw without filter (without protrusion)
 (C) Oil pipe
 (D) Gasket

- 3) Install the belt cover No. 2 LH.

Tightening torque:

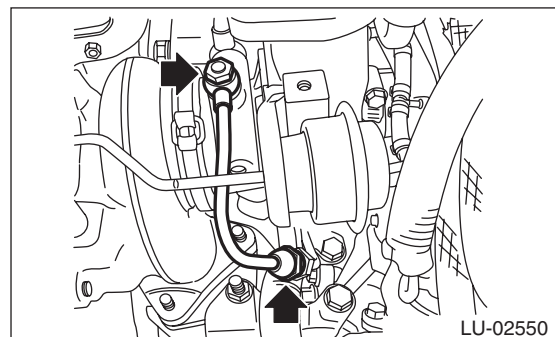
5 N·m (0.5 kgf-m, 3.7 ft-lb)



- 4) Install the cam sprocket LH. <Ref. to ME(H4DOTC)-59, INSTALLATION, Cam Sprocket.>
- 5) Install the timing belt. <Ref. to ME(H4DOTC)-53, TIMING BELT, INSTALLATION, Timing Belt.>
- 6) Install the timing belt cover. <Ref. to ME(H4DOTC)-49, INSTALLATION, Timing Belt Cover.>
- 7) Install the crank pulley. <Ref. to ME(H4DOTC)-47, INSTALLATION, Crank Pulley.>
- 8) Install the V-belts. <Ref. to ME(H4DOTC)-40, INSTALLATION, V-belt.>
- 9) Install the radiator main fan and the radiator sub fan. <Ref. to CO(H4DOTC)-24, INSTALLATION, Radiator Main Fan and Fan Motor.> <Ref. to CO(H4DOTC)-26, INSTALLATION, Radiator Sub Fan and Fan Motor.>
- 10) Install the secondary air pump. <Ref. to EC(H4DOTC)-24, INSTALLATION, Secondary Air Pump.>
- 11) Install the intake manifold. <Ref. to FU(H4DOTC)-20, INSTALLATION, Intake Manifold.>
- 12) Temporarily tighten the oil inlet pipe of the turbocharger.

NOTE:

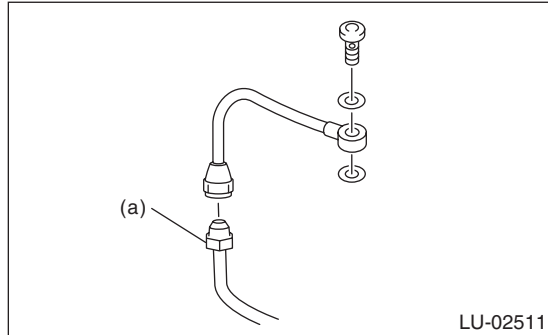
Use a new gasket.



- 13) Tighten the oil inlet pipe of the turbocharger.

CAUTION:

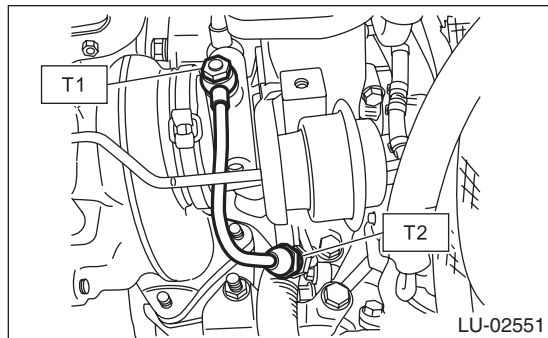
In order to prevent damaging the oil pipe on the cylinder head side, fix the section (a) shown in the figure when tightening the oil inlet pipe flare nut, and avoid the part from rotating together while tightening the nut.



Tightening torque:

T1: 16 N·m (1.6 kgf-m, 11.8 ft-lb)

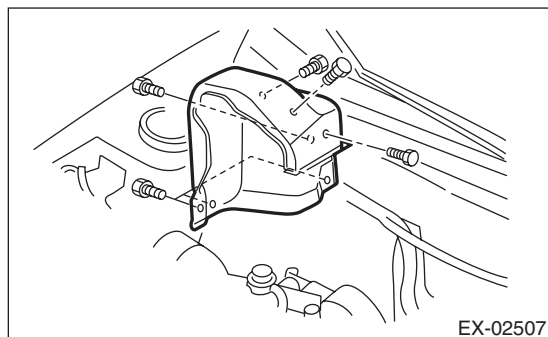
T2: 20 N·m (2.0 kgf-m, 14.8 ft-lb)



14) Install the turbocharger upper cover.

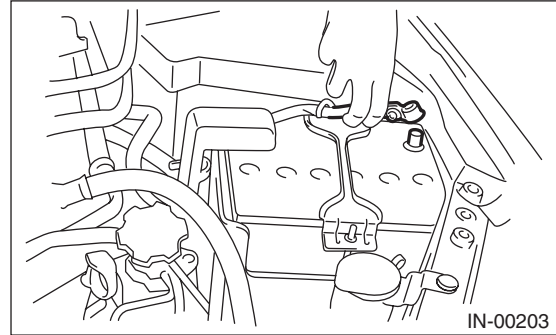
Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



15) Install the intercooler. <Ref. to IN(H4DOTC)-13, INSTALLATION, Intercooler.>

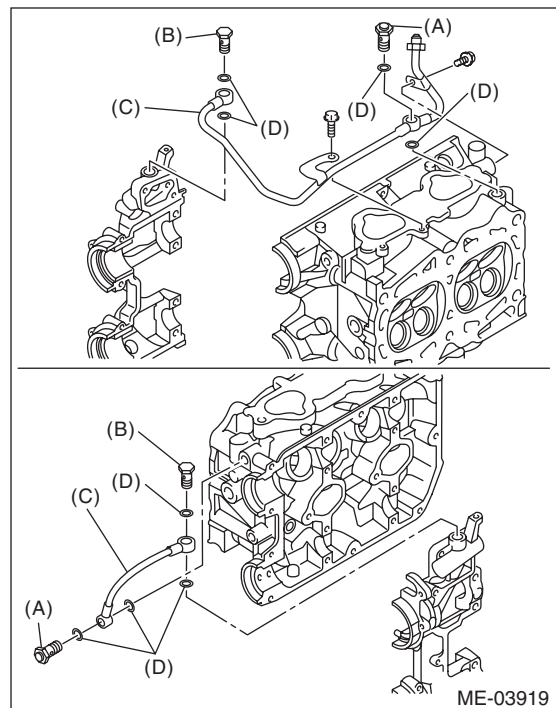
16) Connect the ground cable to battery.



C: INSPECTION

1. INSPECTING UNION SCREW WITH FILTER

Check the filter part of union screw for clogging or damage, and if defective, replace the union screw with filter with a new part.



- (A) Union screw with filter (with protrusion)
- (B) Union screw without filter (without protrusion)
- (C) Oil pipe
- (D) Gasket

2. OTHER INSPECTIONS

- 1) Check that the oil pipe and union screw have no deformation, cracks and other damages.
- 2) Check that there are no oil leaks or oil oozing from the oil pipe attachment section.