

11. Oil Pipe

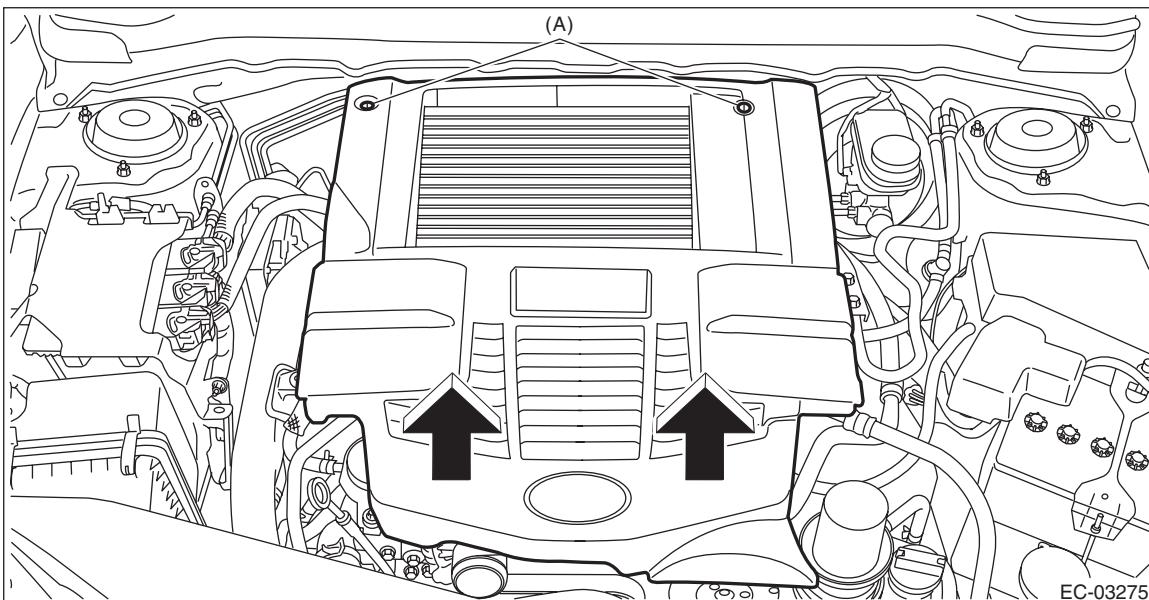
A: REMOVAL

NOTE:

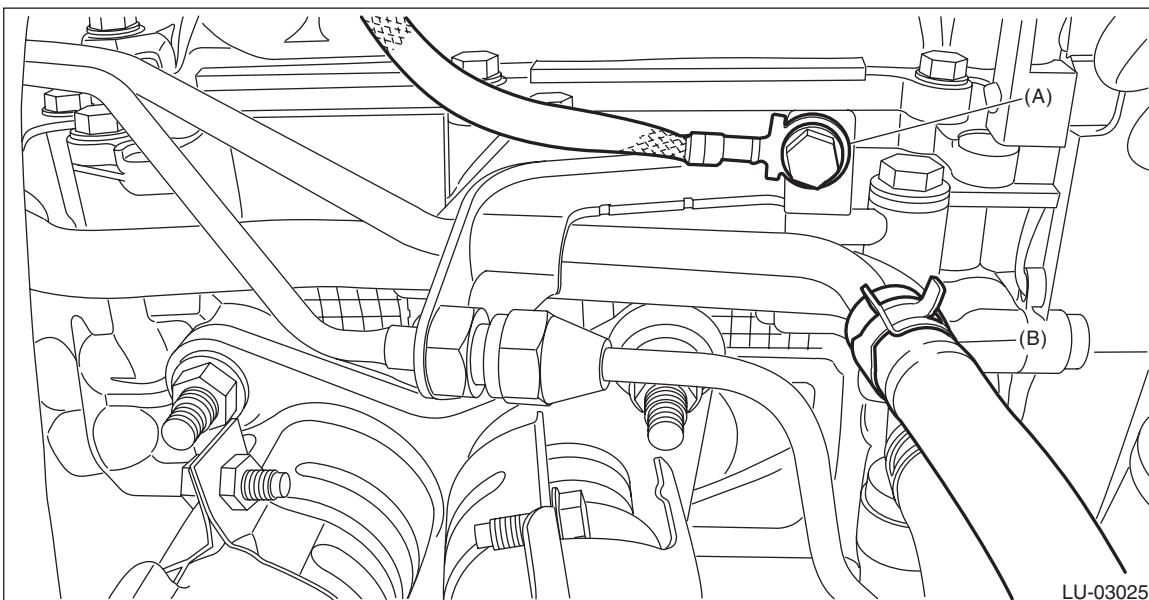
Turbo model is equipped with the oil pump assembly and oil pipe.

1. OIL PIPE ASSEMBLY

- 1) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.



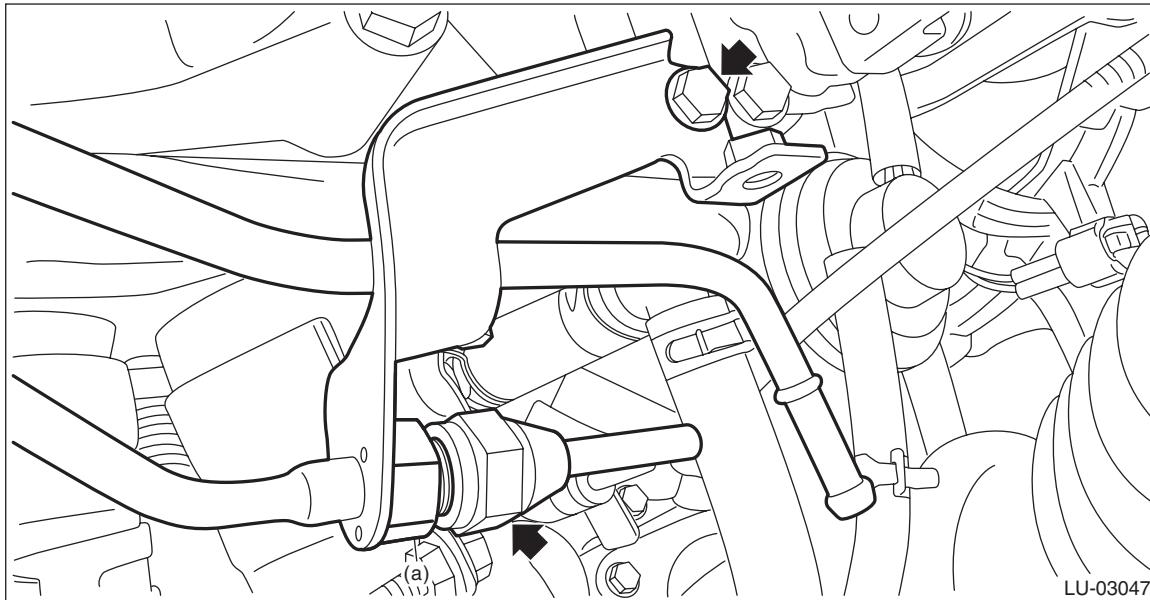
- 2) Disconnect the ground cable from battery.
- 3) Remove the intercooler. <Ref. to IN(H4DOTC)-35, REMOVAL, Intercooler.>
- 4) Remove the intake duct No. 2. <Ref. to IN(H4DOTC)-22, INTAKE DUCT NO. 2, REMOVAL, Intake Duct.>
- 5) Lift up the vehicle.
- 6) Remove the under cover. <Ref. to EI-22, REMOVAL, Front Under Cover.>
- 7) Remove the ground cable (A) from the oil pipe assembly, and disconnect the oil outlet hose (B) from the oil pipe assembly.



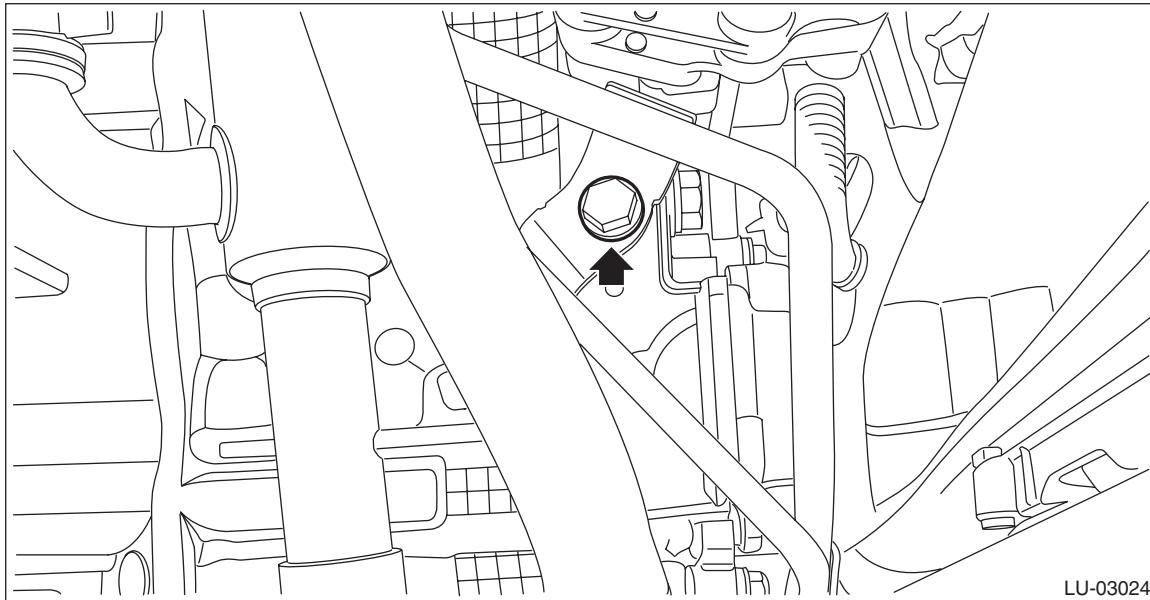
8) Disconnect the union screw pipe assembly from the oil pipe assembly, and remove the bolt which holds the oil pipe assembly.

CAUTION:

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



9) Remove the bolt which secures the oil pipe assembly to the cam carrier RH.

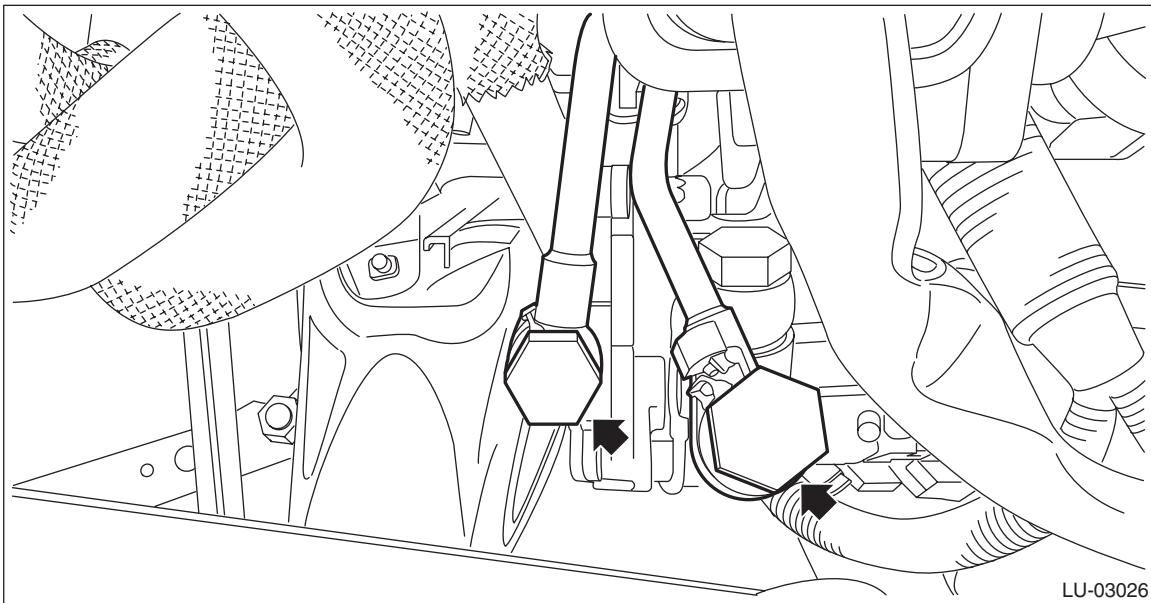


10) Lower the vehicle.

Oil Pipe

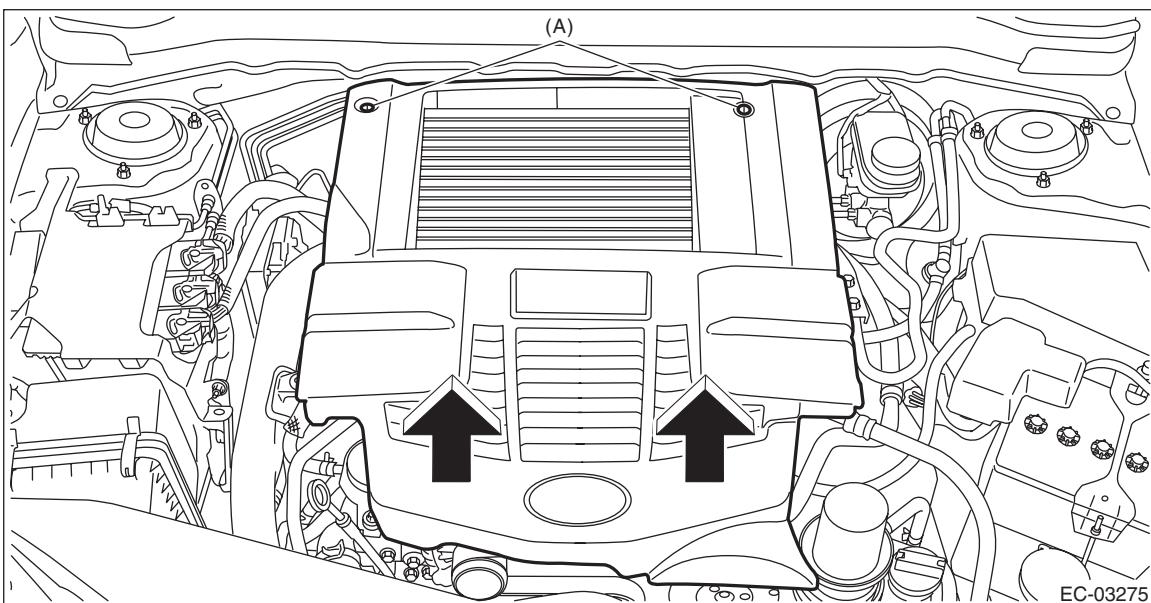
LUBRICATION

11) Remove the union bolts which secure the oil pipe assembly from the scavenge pump and the intake rear camshaft cap RH, and remove the oil pipe assembly.



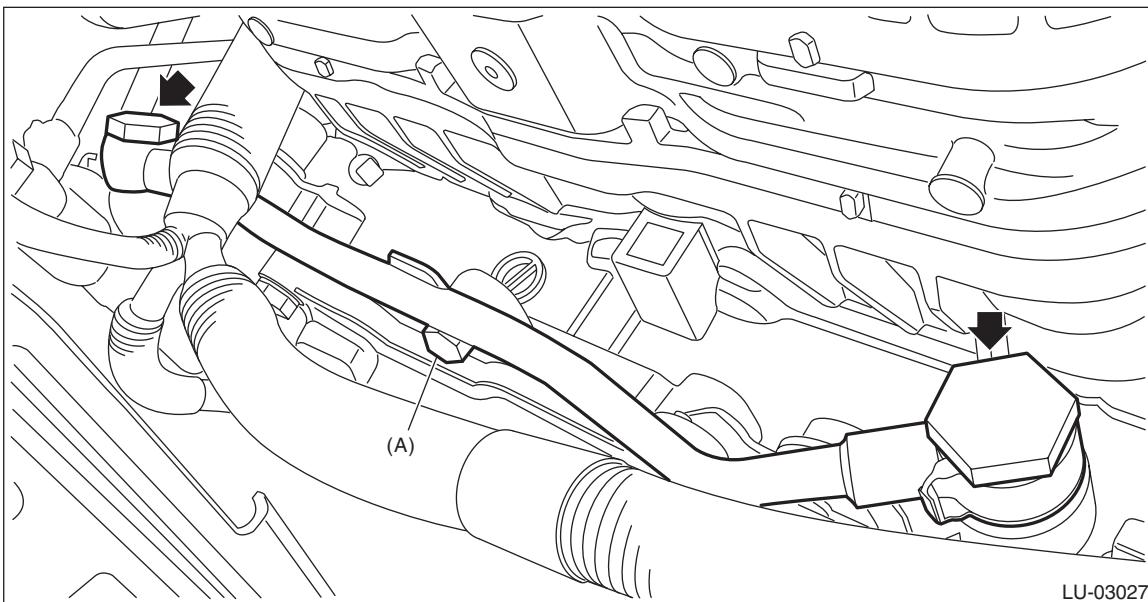
2. OIL PIPE

1) Remove the clip (A), lift the front of the collector cover in the direction of arrow, and then remove the collector cover.



2) Remove the intake duct No. 2. <Ref. to IN(H4DOTC)-22, INTAKE DUCT NO. 2, REMOVAL, Intake Duct.>

3) Remove the bolt (A) which secures the oil pipe to the cam carrier RH. Remove the union bolts which secure the oil pipe from the intake rear camshaft cap RH and the cam carrier RH.



B: INSTALLATION

1. OIL PIPE ASSEMBLY

1) Temporarily install the oil pipe assembly.

(1) Temporarily tighten the union bolts (B) and (C) which secure the oil pipe assembly (A) to the scavenge pump and the intake rear camshaft cap RH.

NOTE:

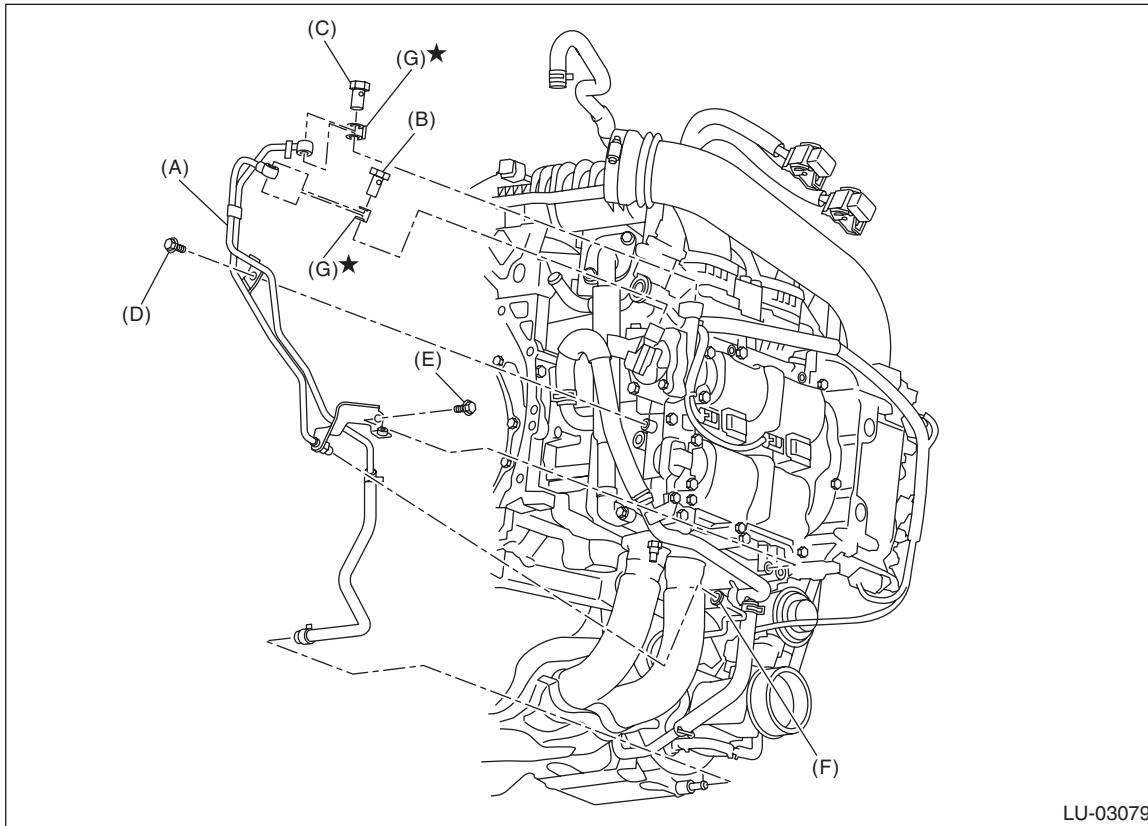
Use a new gasket.

(2) Temporarily tighten the bolts (D) and (E) which secure the oil pipe assembly (A) to the cam carrier RH.

Oil Pipe

LUBRICATION

(3) Temporarily tighten the union screw pipe assembly (F) to the oil pipe assembly (A).

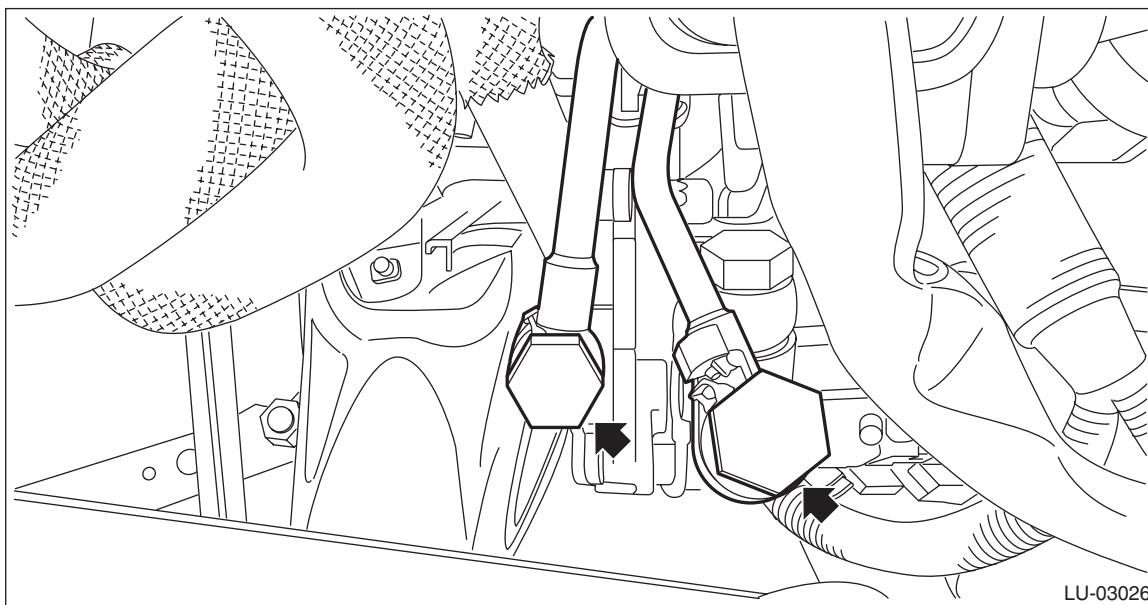


| | | |
|-------------------|----------------|---------------------------|
| (A) Oil pipe ASSY | (B) Union bolt | (C) Union bolt |
| (D) Bolt | (E) Bolt | (F) Union screw pipe ASSY |
| (G) Gasket | | |

2) Tighten the union bolts which secure the oil pipe assembly to the scavenge pump and the intake rear cam-shaft cap RH.

Tightening torque:

29 N·m (3.0 kgf·m, 21.4 ft-lb)

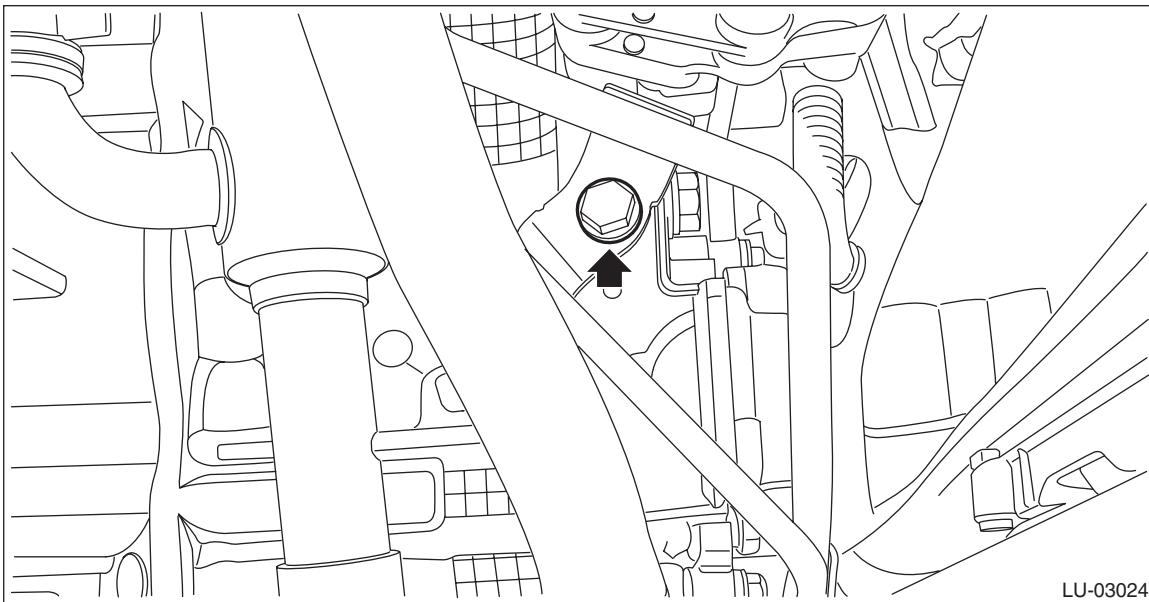


3) Lift up the vehicle.

4) Tighten the bolt which secures the oil pipe assembly to the cam carrier RH.

Tightening torque:

6.4 N·m (0.7 kgf-m, 4.7 ft-lb)



5) Install the bolt which secures the oil pipe assembly, and install the union screw pipe assembly to the oil pipe assembly.

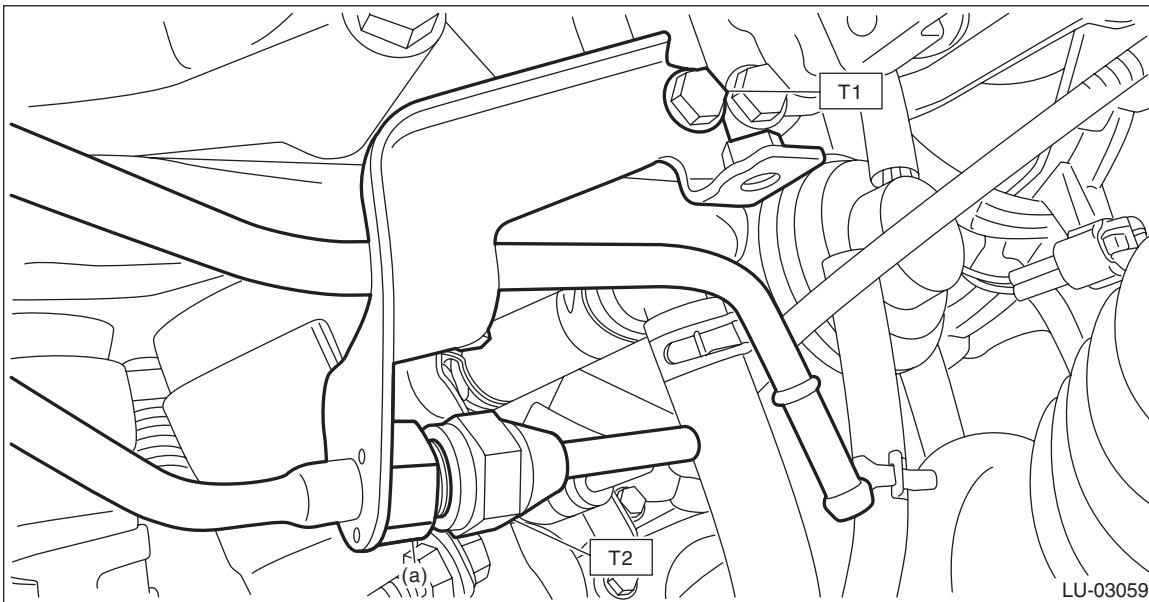
CAUTION:

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

Tightening torque:

T1: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

T2: 20 N·m (2.0 kgf-m, 14.8 ft-lb)



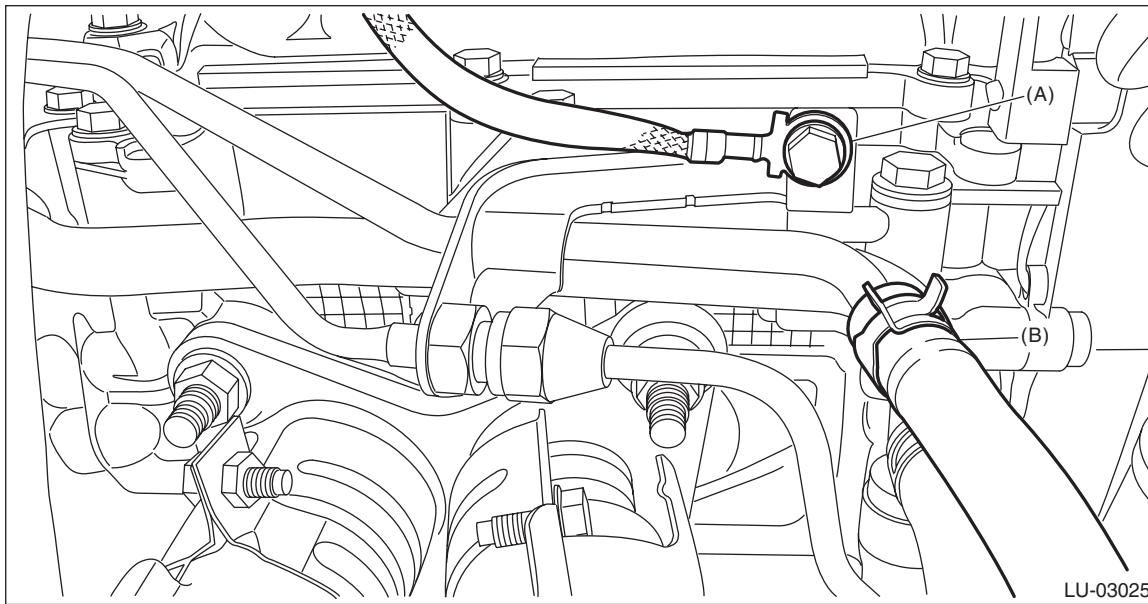
Oil Pipe

LUBRICATION

- 6) Connect the oil outlet hose (B) to the oil pipe assembly, and install the ground cable (A) to the oil pipe assembly.

Tightening torque:

7 N·m (0.7 kgf·m, 5.2 ft-lb)



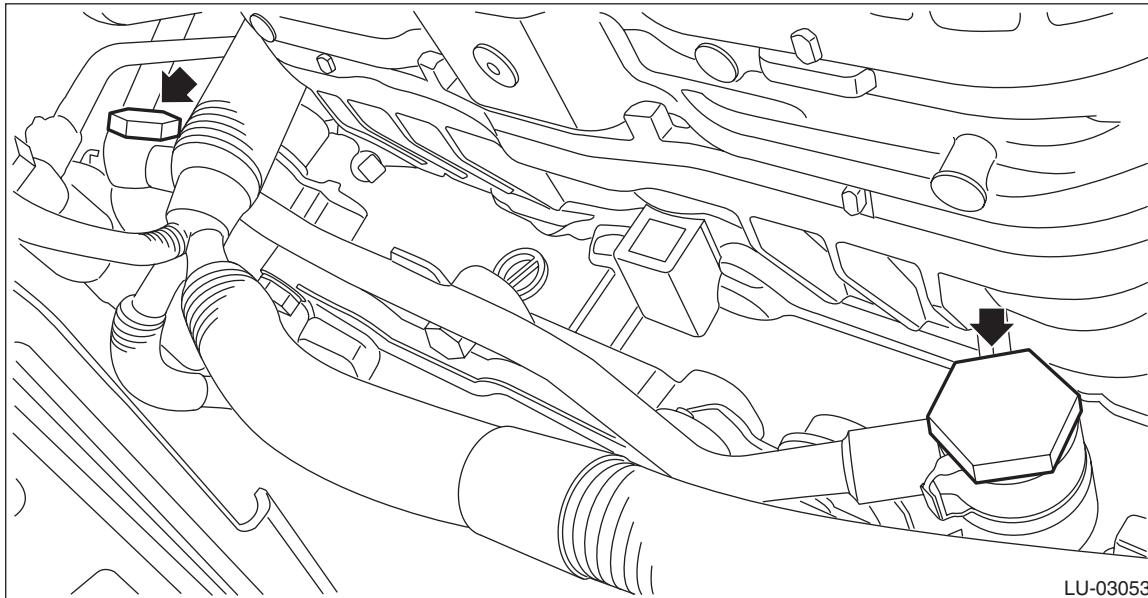
- 7) Install the under cover. <Ref. to EI-22, INSTALLATION, Front Under Cover.>
- 8) Lower the vehicle.
- 9) Install the intake duct No. 2. <Ref. to IN(H4DOTC)-29, INTAKE DUCT NO. 2, INSTALLATION, Intake Duct.>
- 10) Install the intercooler. <Ref. to IN(H4DOTC)-37, INSTALLATION, Intercooler.>
- 11) Connect the battery ground terminal.
- 12) Install the collector cover.

2. OIL PIPE

- 1) Temporarily tighten the union bolts which secure the oil pipes to the intake rear camshaft cap RH and the cam carrier RH.

NOTE:

Use a new gasket.

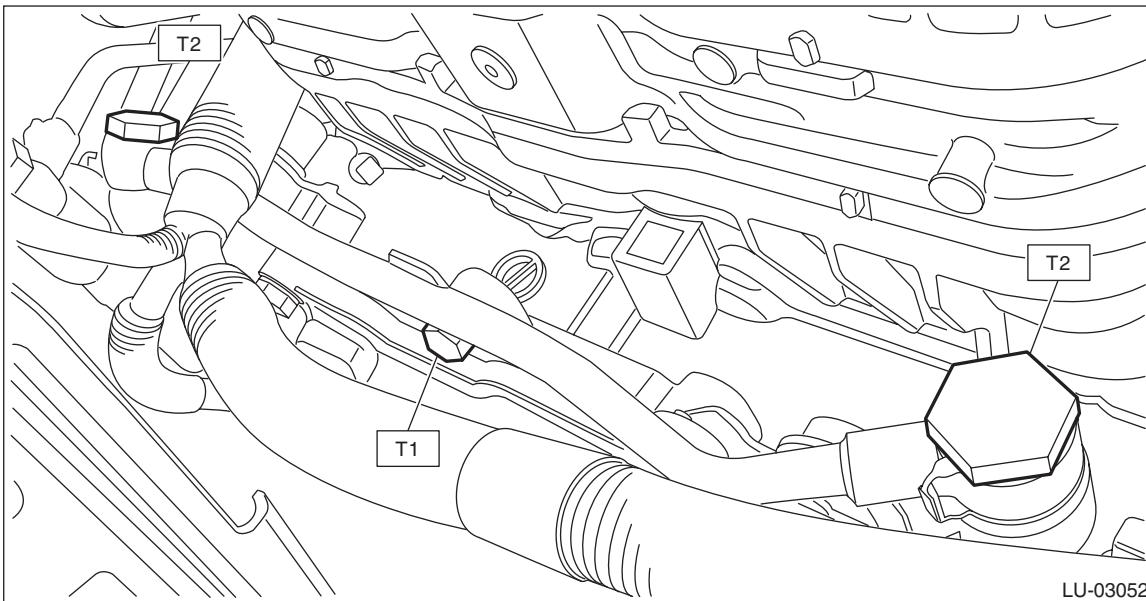


2) Install the bolt which secures the oil pipe to the cam carrier RH. Tighten the union bolts which secure the oil pipes to the intake rear camshaft cap RH and the cam carrier RH.

Tightening torque:

T1: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

T2: 31 N·m (3.2 kgf-m, 22.9 ft-lb)



3) Install the intake duct No. 2. <Ref. to IN(H4DOTC)-29, INTAKE DUCT NO. 2, INSTALLATION, Intake Duct.>

4) Install the collector cover.

C: INSPECTION

- 1) Check that the oil pipe assembly, oil pipes, and the union bolts have no deformation, cracks and other damages.
- 2) Check that there are no oil leaks or oil oozing from the areas where the oil pipe assembly and oil pipes are installed.