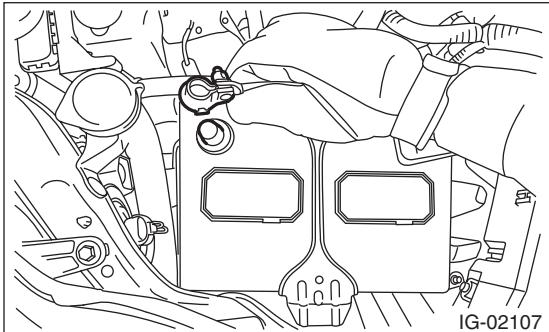


5. Oil Pan and Strainer

A: REMOVAL

1. OIL PAN

1) Disconnect the ground cable from battery.



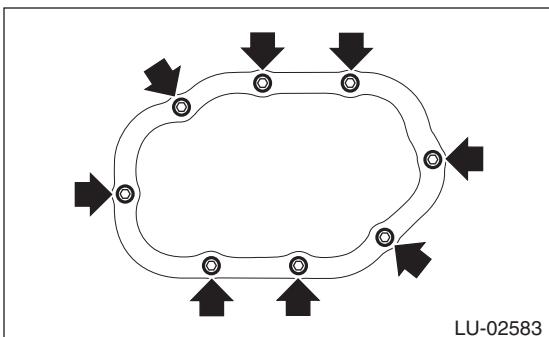
2) Lift up the vehicle.

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

4) Drain the engine oil. <Ref. to LU(H4SO)-12, REPLACEMENT, Engine Oil.>

5) Remove the front exhaust pipe. <Ref. to EX(H4SO)-4, REMOVAL, Front Exhaust Pipe.> <Ref. to EX(H4DOTC)-5, REMOVAL, Front Exhaust Pipe.>

6) Remove the bolts which secure the oil pan to the cylinder block lower.



7) Insert an oil pan cutter blade into the gap between cylinder block lower and oil pan, and remove the oil pan.

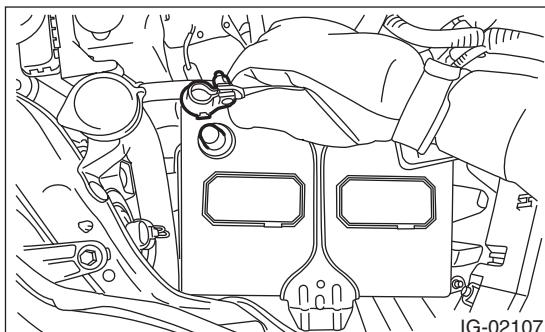
CAUTION:

Do not use a screwdriver or similar tool in place of oil pan cutter.

2. CYLINDER BLOCK LOWER

1) Remove the collector cover. (turbo model)

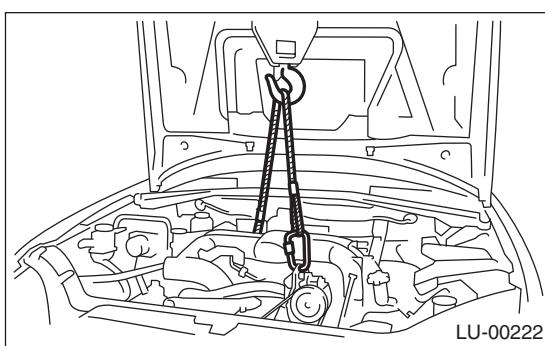
2) Disconnect the ground cable from battery.



3) Remove the air intake boot assembly. (2.5 L non-turbo model) <Ref. to IN(H4SO)-8, REMOVAL, Air Intake Boot.>

4) Remove the intercooler. (turbo model) <Ref. to IN(H4DOTC)-17, REMOVAL, Intercooler.>

5) Support the engine with a lifting device and wire ropes.



6) Lift up the vehicle.

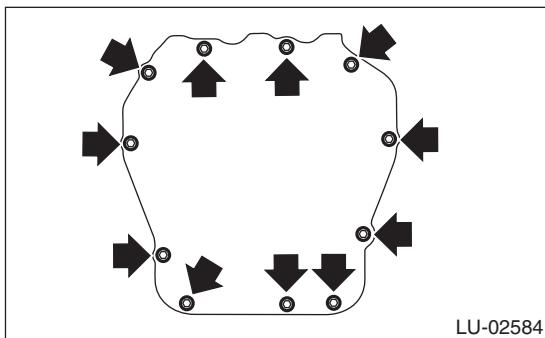
CAUTION:

When lifting up the vehicle, raise up wire ropes at the same time.

7) Remove the oil pan. <Ref. to LU(H4SO)-18, OIL PAN, REMOVAL, Oil Pan and Strainer.>

8) Remove the engine mounting. <Ref. to ME(H4SO)-38, REMOVAL, Engine Mounting.> <Ref. to ME(H4DOTC)-38, REMOVAL, Engine Mounting.>

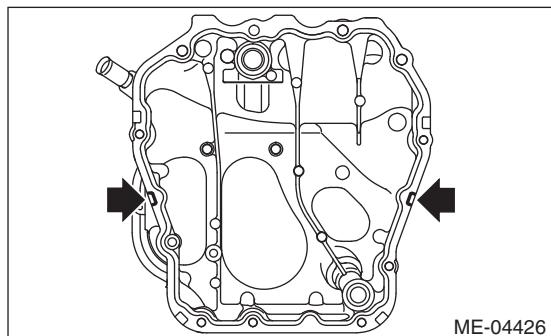
9) Remove the bolts which secure the cylinder block lower to the cylinder block.



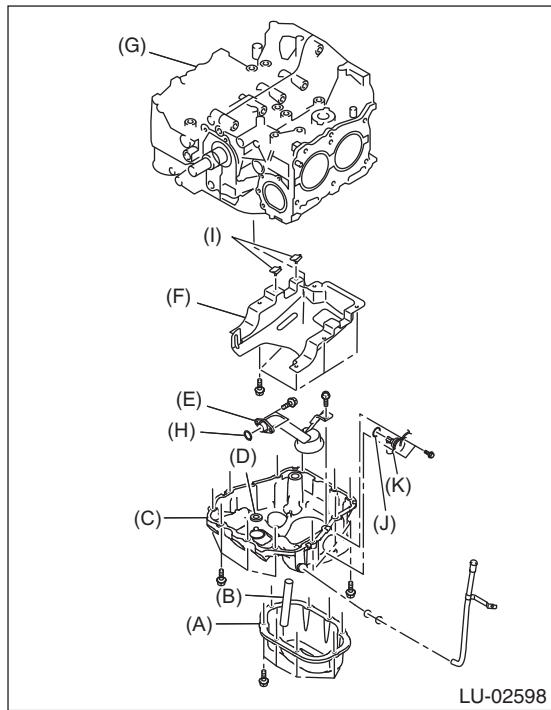
10) Insert a flat tip screwdriver into the gap between cylinder block and cylinder block lower, and remove the cylinder block lower.

CAUTION:

Insert the flat tip screwdriver to the position shown in the figure, and be careful not to damage the mating surface of the cylinder block and cylinder block lower.



- 11) Remove the oil strainer from cylinder block lower.
- 12) Remove the oil level switch from cylinder block lower.
- 13) Remove the baffle plate.



- (A) Oil pan
- (B) Oil drain pipe
- (C) Cylinder block lower
- (D) O-ring
- (E) Oil strainer
- (F) Baffle plate
- (G) Cylinder block
- (H) O-ring
- (I) Seal
- (J) O-ring
- (K) Oil level switch

B: INSTALLATION**1. OIL PAN****NOTE:**

Before installing the oil pan, clean the mating surface of oil pan and cylinder block.

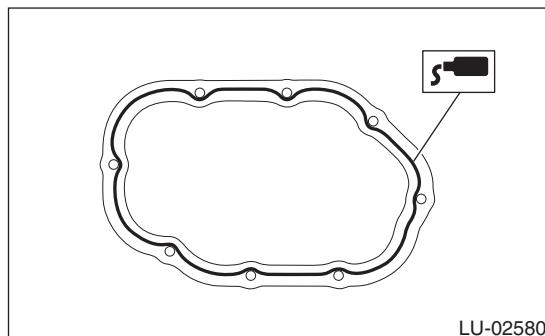
- 1) Apply liquid gasket to the mating surfaces of oil pan, and install the oil pan.

NOTE:

Install within 5 min. after applying liquid gasket.

Liquid gasket:

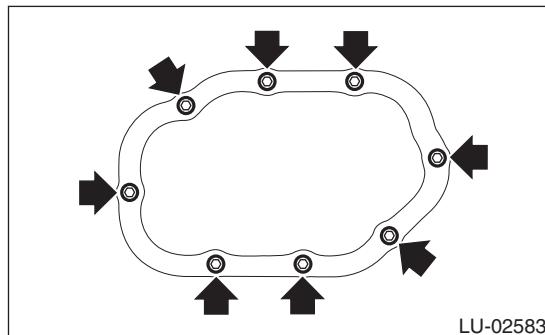
THREE BOND 1217G (Part No. K0877Y0100) or equivalent



- 2) Tighten the bolts which install oil pan to cylinder block lower.

Tightening torque:

5 N·m (0.5 kgf·m, 3.7 ft-lb)



- 3) Install the front exhaust pipe. <Ref. to EX(H4SO)-5, INSTALLATION, Front Exhaust Pipe.> <Ref. to EX(H4DOTC)-7, INSTALLATION, Front Exhaust Pipe.>

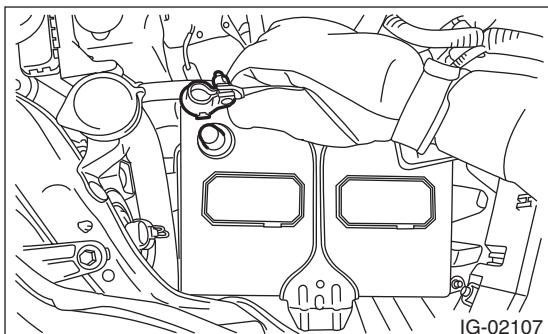
- 4) Install the under cover. <Ref. to EI-35, REMOVAL, Front Under Cover.>

- 5) Lower the vehicle.

Oil Pan and Strainer

LUBRICATION

6) Connect the ground cable to battery.



7) Refill the engine oil. <Ref. to LU(H4SO)-12, REPLACEMENT, Engine Oil.>

2. CYLINDER BLOCK LOWER

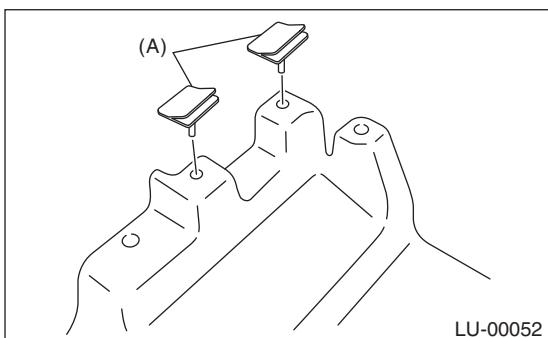
NOTE:

Before installing the cylinder block lower, clean the mating surface of cylinder block lower and cylinder block.

1) Make sure that the seals (A) are installed securely on the baffle plate in a direction as shown in the figure below.

NOTE:

Use a new seal.



2) Install the baffle plate.

Tightening torque:

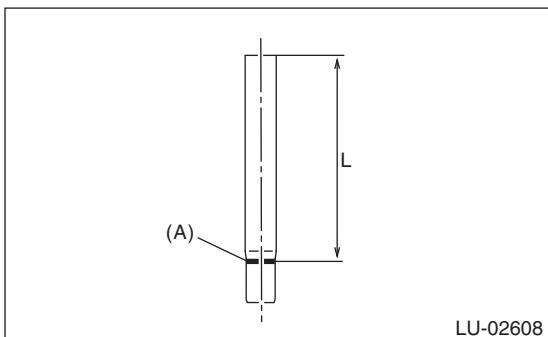
6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

3) Install the oil drain pipe to cylinder block lower.

(1) Use a marker to draw reference line (A) on oil drain pipe as shown in the figure.

Protrusion amount L of oil drain pipe:

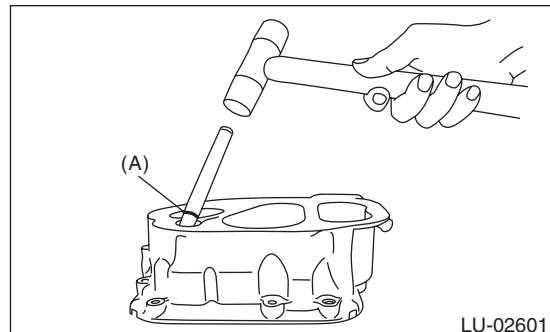
90.0 mm (3.54 in)



(2) Using a tool such as plastic hammer, insert oil drain pipe to the reference line (A).

NOTE:

Be careful not to deform the oil drain pipe.

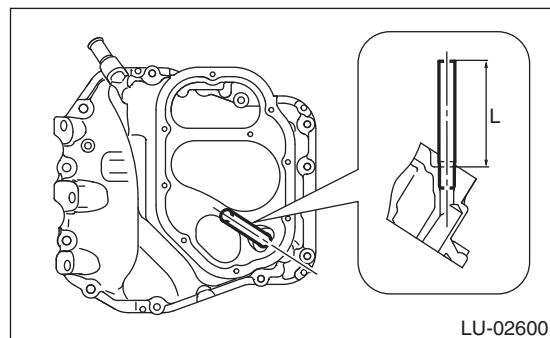


(3) Measure protrusion amount "L" of oil drain pipe shown in the figure to ensure that it is within the standard.

Protrusion amount L of oil drain pipe:

Standard

89.0 — 91.0 mm (3.50 — 3.58 in)



4) Install the oil strainer to cylinder block lower.

NOTE:

Use new O-rings.

Tightening torque:

10 N·m (1.0 kgf-m, 7.4 ft-lb)

5) Install the O-ring to the cylinder block lower.

NOTE:

- Use new O-rings.
- Install the O-ring with the steel area facing up.

6) Apply liquid gasket to the mating surfaces of oil pan, and install the cylinder block lower.

CAUTION:

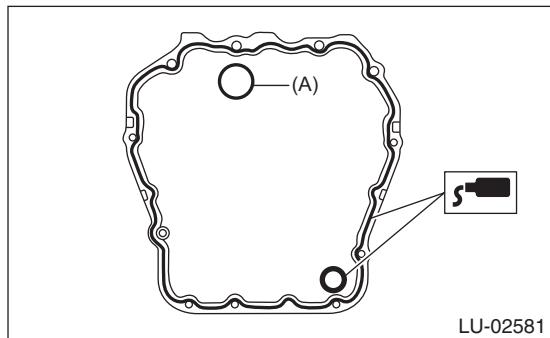
Be careful not to apply any liquid gasket to the O-ring (A).

NOTE:

Install within 5 min. after applying liquid gasket.

Liquid gasket:

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



(A) O-ring

7) Tighten the bolts which install cylinder block lower to cylinder block.

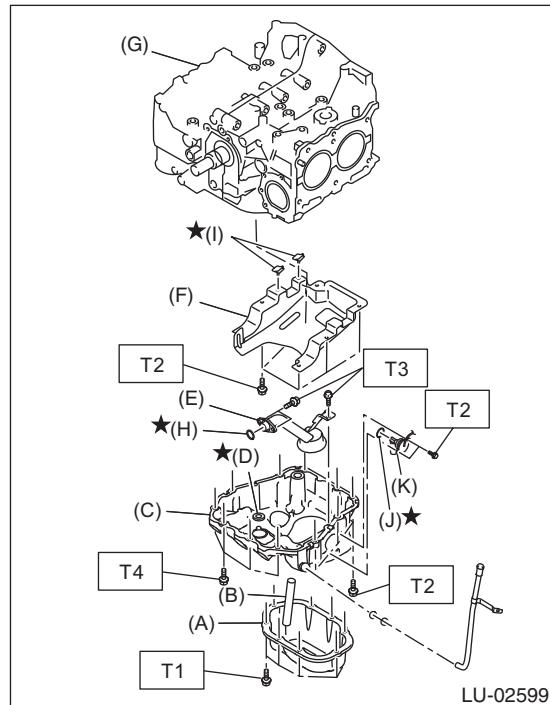
Tightening torque:

T1: 5 N·m (0.5 kgf-m, 3.7 ft-lb)

T2: 6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

T3: 10 N·m (1.0 kgf-m, 7.4 ft-lb)

T4: 16 N·m (1.6 kgf-m, 11.8 ft-lb)



(A) Oil pan

(B) Oil drain pipe

(C) Cylinder block lower

(D) O-ring

(E) Oil strainer

(F) Baffle plate

(G) Cylinder block

(H) O-ring

(I) Seal

(J) O-ring

(K) Oil level switch

8) Install the engine mounting. <Ref. to ME(H4SO)-39, INSTALLATION, Engine Mounting.> <Ref. to ME(H4DOTC)-39, INSTALLATION, Engine Mounting.>

9) Install the oil pan. <Ref. to LU(H4SO)-19, OIL PAN, INSTALLATION, Oil Pan and Strainer.>

10) Lower the vehicle.

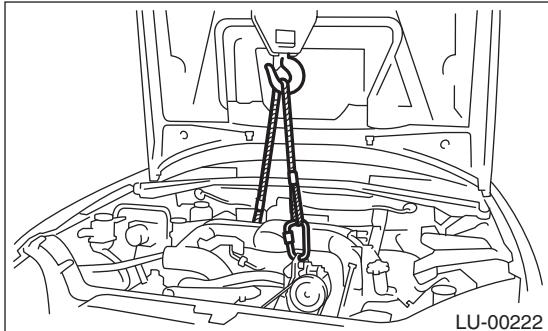
CAUTION:

When lowering the vehicle, lower the lift up device and wire ropes at the same time.

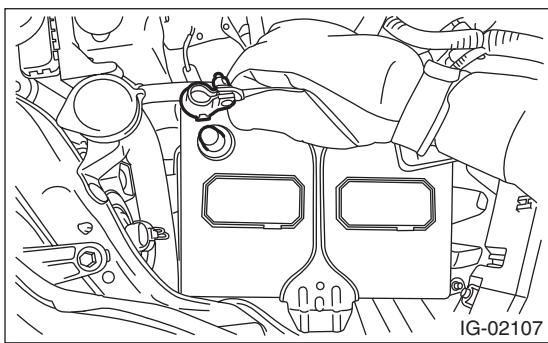
Oil Pan and Strainer

LUBRICATION

- 11) Remove the lifting device and wire ropes.



- 12) Install the intercooler. (turbo model) <Ref. to IN(H4DOTC)-18, INSTALLATION, Intercooler.>
- 13) Install the air intake boot assembly. (2.5 L non-turbo model) <Ref. to IN(H4SO)-8, INSTALLATION, Air Intake Boot.>
- 14) Connect the ground cable to battery.



- 15) Install the collector cover. (turbo model)
- 16) Refill the engine oil. <Ref. to LU(H4SO)-12, REPLACEMENT, Engine Oil.>

C: INSPECTION

Check that the oil pan, oil strainer and baffle plate do not have deformation, cracks or damage.