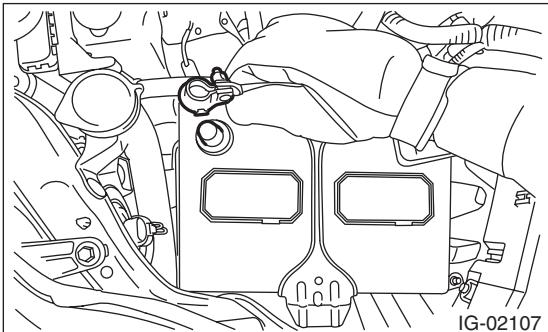


5. Oil Pan and Strainer

A: REMOVAL

1. OIL PAN

1) Disconnect the ground cable from battery.



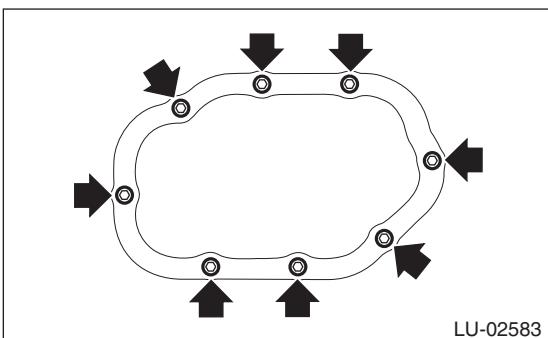
2) Lift up the vehicle.

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

4) Drain the engine oil. <Ref. to LU(H4SO)-13, 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.

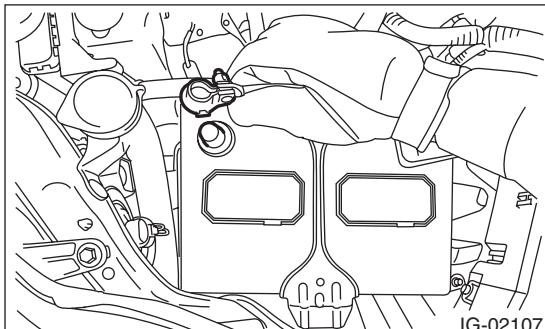
CAUTION:

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)

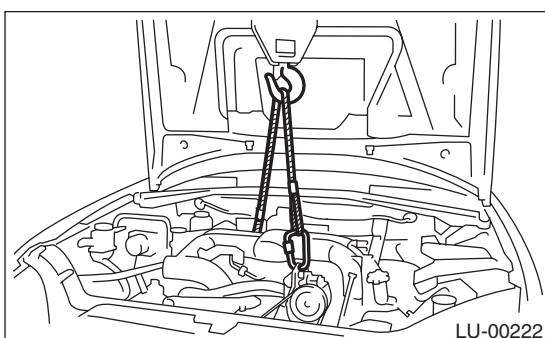
2) Disconnect the ground cable from battery.



3) Remove the air intake boot assembly. (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.

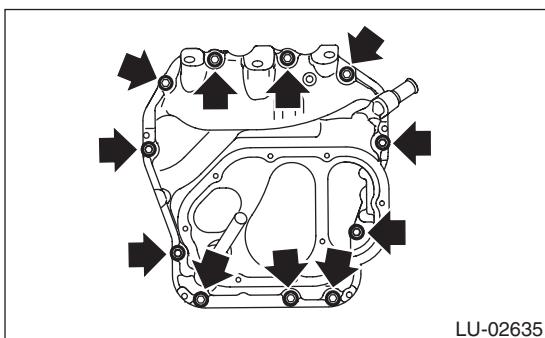
CAUTION:

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

7) Remove the oil pan. <Ref. to LU(H4SO)-19, OIL PAN, REMOVAL, Oil Pan and Strainer.>

8) Remove the engine mounting. <Ref. to ME(H4SO)-38, REMOVAL, Engine Mounting.> <Ref. to ME(H4DOTC)-37, REMOVAL, Engine Mounting.>

9) Remove the bolt which secures the cylinder block lower to the cylinder block.



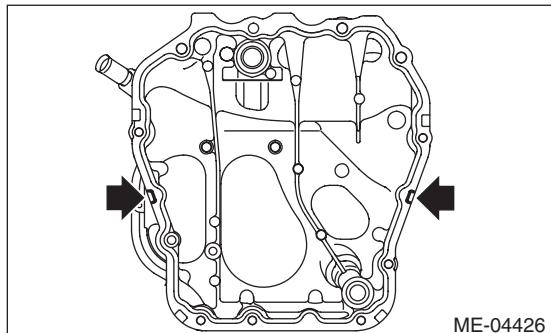
10) Use a flat tip screwdriver through the gap between the cylinder block and cylinder block lower to remove the cylinder block lower.

Oil Pan and Strainer

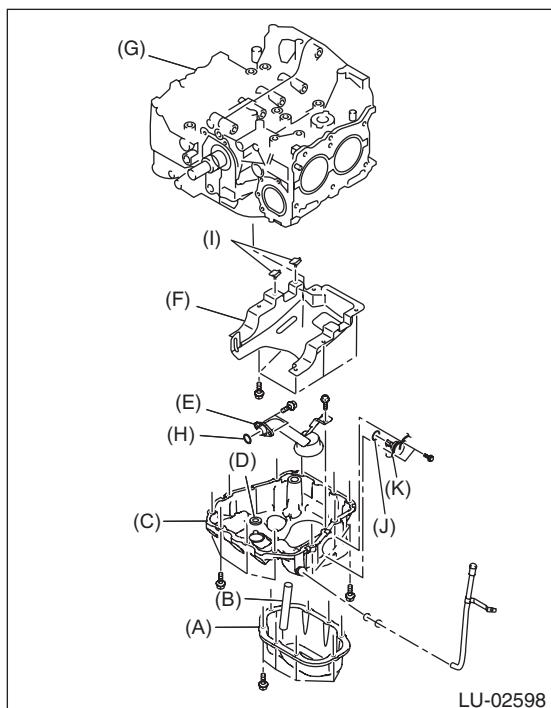
LUBRICATION

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 the cylinder block lower.
- 12) Remove the oil level switch from the cylinder block lower. <Ref. to LU(H4SO)-35, REMOVAL, Oil Level Switch.>
- 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.

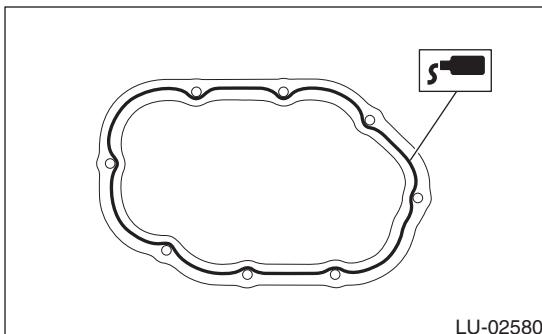
- 1) Apply liquid gasket to the mating surfaces of oil pan, and install the oil pan.

NOTE:

Install within 5 min. after applying liquid gasket.

Liquid gasket:

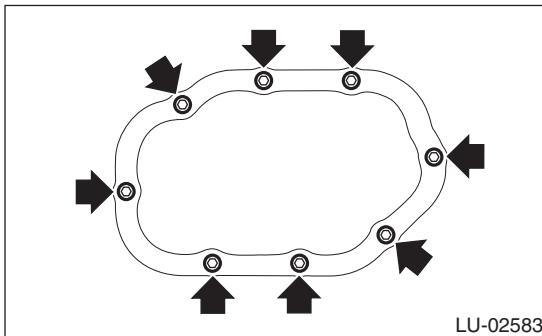
THREE BOND 1217G (Part No. K0877Y0100) or equivalent



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

Tightening torque:

5 N·m (0.5 kgf·m, 3.7 ft-lb)

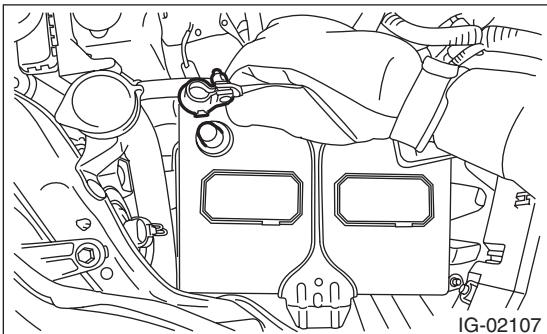


- 3) Install the front exhaust pipe. <Ref. to EX(H4SO)-5, INSTALLATION, Front Exhaust Pipe.> <Ref. to EX(H4DOTC)-7, INSTALLATION, Front Exhaust Pipe.>

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

- 5) Lower the vehicle.

6) Connect the battery ground terminal.



7) Refill the engine oil. <Ref. to LU(H4SO)-13, REPLACEMENT, Engine Oil.>

2. CYLINDER BLOCK LOWER

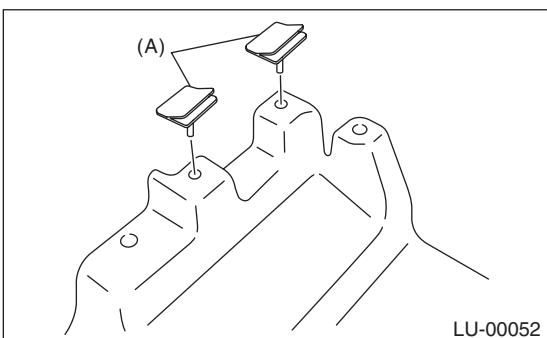
NOTE:

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:

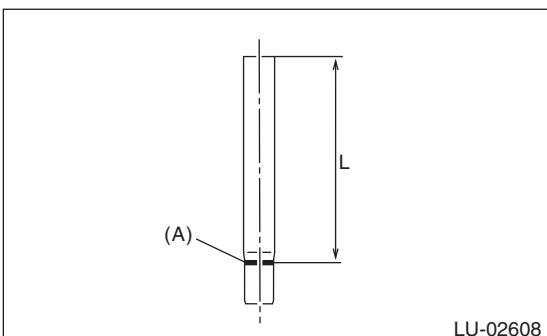
6.4 N·m (0.7 kgf-m, 4.7 ft-lb)

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

(1) Draw a reference line (A) on the oil drain pipe using a marker as shown in the figure.

Oil drain pipe protrusion L:

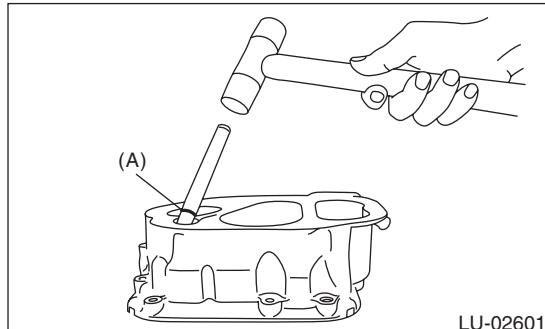
90.0 mm (3.54 in)



(2) Insert the oil drain pipe up to the reference line (A) using a plastic hammer.

NOTE:

Be careful not to deform the oil drain pipe.

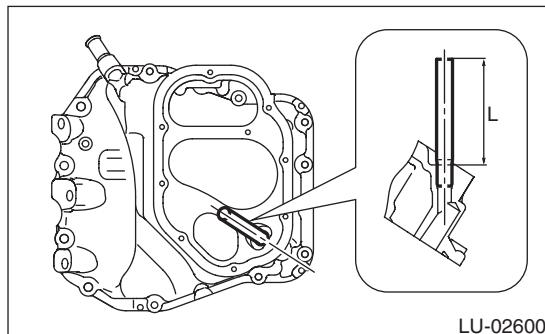


(3) Measure the oil drain pipe protrusion "L" and check that the value is within the specified range.

Oil drain pipe protrusion L:

Standard

89.0 — 91.0 mm (3.50 — 3.58 in)



4) Install the oil level switch to the cylinder block lower. <Ref. to LU(H4SO)-36, INSTALLATION, Oil Level Switch.>

5) Install the oil strainer to the cylinder block lower.

NOTE:

Use new O-rings.

Tightening torque:

10 N·m (1.0 kgf-m, 7.4 ft-lb)

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

NOTE:

- Use new O-rings.
- Install the O-ring with the metal side facing upward.

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

CAUTION:

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

NOTE:

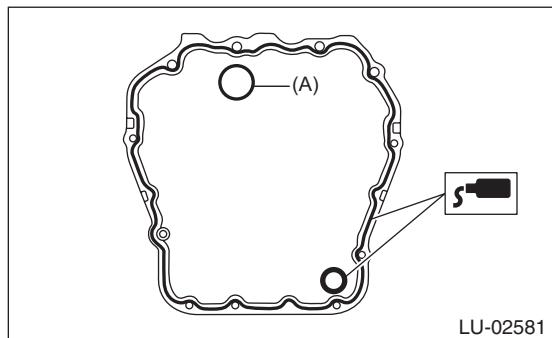
Install within 5 min. after applying liquid gasket.

Oil Pan and Strainer

LUBRICATION

Liquid gasket:

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

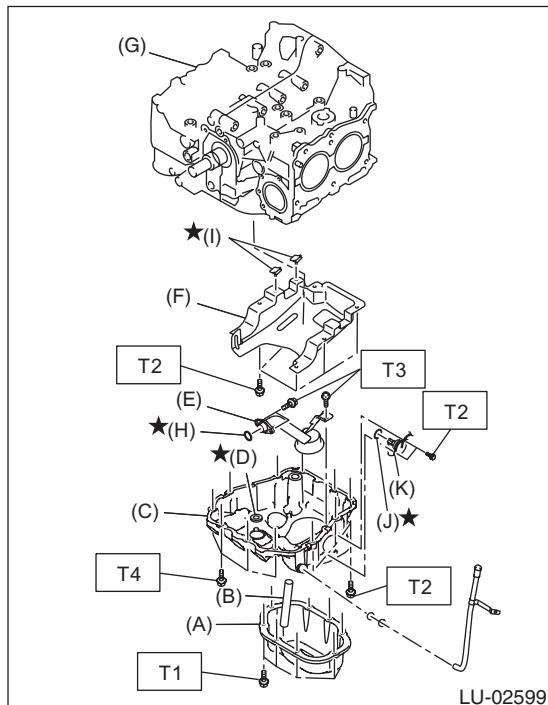


(A) O-ring

- 8) Tighten the bolts to install the cylinder block lower to the 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)**



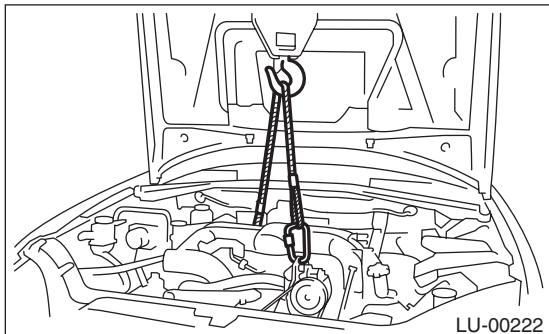
(A) Oil pan
(B) Oil drain pipe
(C) Cylinder block lower
(D) O-ring
(E) Oil strainer
(F) Baffle plate
(G) Cylinder block
(H) O-ring
(I) Seal
(J) O-ring
(K) Oil level switch

- 9) Install the engine mount. <Ref. to ME(H4SO)-39, INSTALLATION, Engine Mounting.> <Ref. to ME(H4DOTC)-38, INSTALLATION, Engine Mounting.>
- 10) Install the oil pan. <Ref. to LU(H4SO)-20, OIL PAN, INSTALLATION, Oil Pan and Strainer.>
- 11) Lower the vehicle.

CAUTION:

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

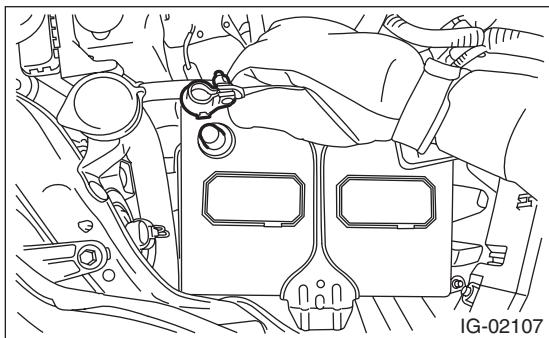
12) Remove the lifting device and wire ropes.



13) Install the intercooler. (turbo model) <Ref. to IN(H4DOTC)-18, INSTALLATION, Intercooler.>

14) Install the air intake boot assembly. (non-turbo model) <Ref. to IN(H4SO)-8, INSTALLATION, Air Intake Boot.>

15) Connect the battery ground terminal.



16) Install the collector cover. (turbo model)

17) Refill the engine oil. <Ref. to LU(H4SO)-13, REPLACEMENT, Engine Oil.>

C: INSPECTION

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