

LUBRICATION

General Description

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1. General Description

A: SPECIFICATION

Lubrication method			Forced lubrication
Oil pump			Pump type Trochoid type
Number of teeth	Inner rotor	9	
	Outer rotor	10	
Outer rotor diameter × thickness			
Tip clearance between inner and outer rotor	STANDARD	78 × 10 mm (3.07 × 0.39 in)	
	LIMIT	0.04 — 0.14 mm (0.0016 — 0.0055 in)	
Side clearance between inner rotor and pump case	STANDARD	0.02 — 0.07 mm (0.0008 — 0.0028 in)	
	LIMIT	0.12 mm (0.0047 in)	
Case clearance between outer rotor and pump case	STANDARD	0.10 — 0.175 mm (0.0039 — 0.0069 in)	
	LIMIT	0.20 mm (0.0079 in)	
Capacity at 80°C (176°F)	600 rpm	Discharge pressure 98 kPa (1.0 kgf/cm ² , 14 psi)	
		Discharge quantity 4.6 ℥ (4.9 US qt, 4.0 Imp qt)/min.	
	5,000 rpm	Discharge pressure 294 kPa (3.0 kgf/cm ² , 43 psi)	
		Discharge quantity 47.0 ℥ (49.7 US qt, 41.4 Imp qt)/min.	
	Relief valve operation pressure		
Oil filter			Type Full-flow filter type
	Filtration area	Diameter 65 mm (2.56 in)	470 cm ² (73 sq in)
		Diameter 68 mm (2.68 in)	800 cm ² (124 sq in)
	By-pass valve opening pressure		
	Outer diameter × width	Diameter 68 mm (2.68 in)	160 kPa (1.63 kgf/cm ² , 23.2 psi)
		Diameter 65 mm (2.56 in)	68 × 65 mm (2.68 × 2.56 in)
	Oil filter to engine thread size		
Oil pressure switch	Type Immersed contact point type		
	Working voltage — wattage 12 V — 3.4 W or less		
	Warning light activation pressure 14.7 kPa (0.15 kgf/cm ² , 2.1 psi)		
	Proof pressure More than 981 kPa (10 kgf/cm ² , 142 psi)		
Oil capacity (at replacement)			4.0 ℥ (4.2 US qt, 3.5 Imp qt)

Recommended oil:

API standard SM with the “Energy Conserving” logo is printed.

ILSAC standard, GF4 “Star burst mark” label is on the container.

SAE (1)						
(°C) -30	-20	-15	0	15	30	40
(°F) -22	-4	5	32	59	86	104
10W-30, 10W-50						
5W-30 (2)						

LU-02250

(1) SAE viscosity No. and applicable temperature

(2) Recommended

The proper viscosity helps vehicle get good cold and hot starting by reducing viscous friction and thus increasing cranking speed.

CAUTION:

When replenishing oil, it does not matter if the oil to be added is a different brand from that in the engine; however, use oil having the API standard and SAE viscosity No. designated by SUBARU.

NOTE:

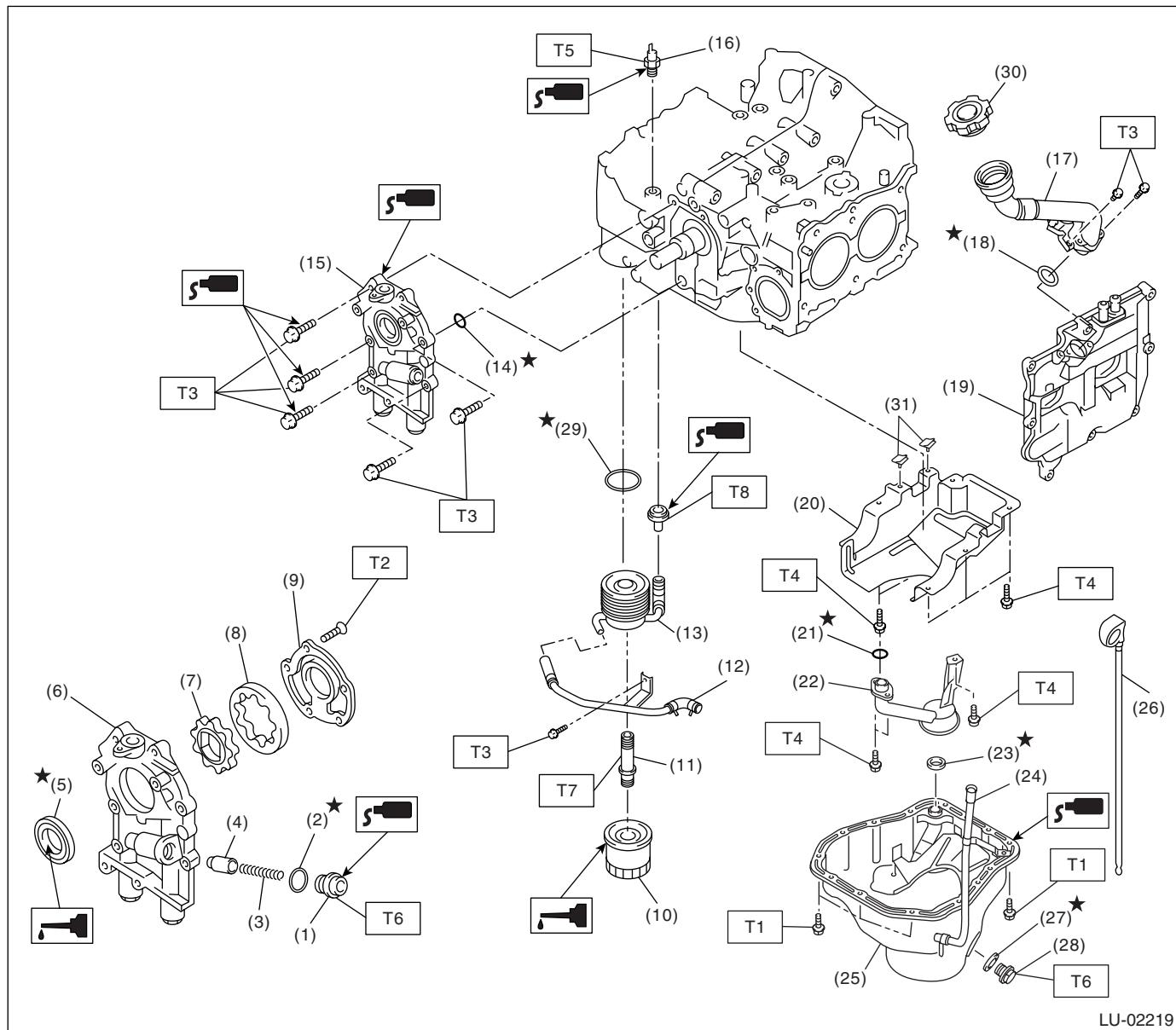
If the vehicle is used in areas with very high temperatures or for other heavy duty applications, the following viscosity oils may be used: API standard: SM or SL

SAE Viscosity No.: 30, 40, 10W-50, 20W-40, 20W-50.

General Description

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B: COMPONENT



LU-02219

- | | |
|---------------------------|----------------------------|
| (1) Plug | (15) Oil pump ASSY |
| (2) Gasket | (16) Oil pressure switch |
| (3) Relief valve spring | (17) Oil filler duct |
| (4) Relief valve | (18) O-ring |
| (5) Oil seal | (19) Rocker cover |
| (6) Oil pump case | (20) Baffle plate |
| (7) Inner rotor | (21) O-ring |
| (8) Outer rotor | (22) Oil strainer |
| (9) Oil pump cover | (23) Gasket |
| (10) Oil filter | (24) Oil level gauge guide |
| (11) Oil cooler connector | (25) Oil pan |
| (12) Water by-pass pipe | (26) Oil level gauge |
| (13) Oil cooler | (27) Metal gasket |
| (14) O-ring | (28) Drain plug |

- | |
|---------------------|
| (29) O-ring |
| (30) Oil filler cap |
| (31) Seal |

Tightening torque: N·m (kgf·m, ft-lb)

T1: 5 (0.5, 3.6)

T2: 5.4 (0.55, 4.0)

T3: 6.4 (0.65, 4.7)

T4: 10 (1.0, 7.2)

T5: 25 (2.5, 18.1)

T6: 44 (4.5, 32.5)

T7: 54 (5.5, 40)

T8: 69 (7.0, 50.9)

C: CAUTION

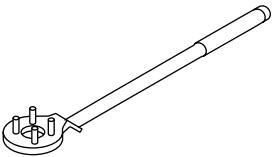
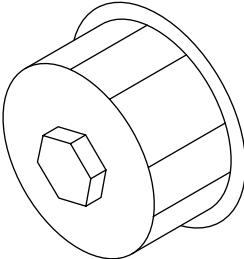
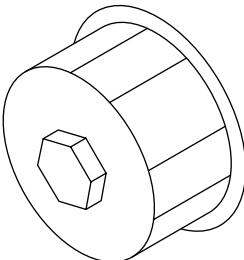
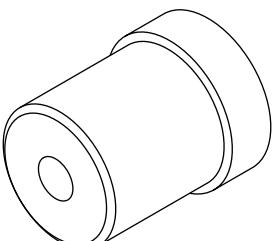
- Wear work clothing, including a cap, protective goggles and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust and dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly and replacement.
- Be careful not to burn your hands, because each part in the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or rigid racks at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the ground cable from battery.

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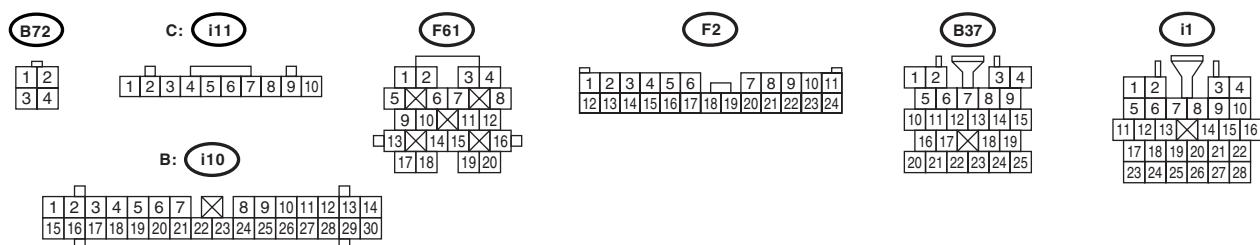
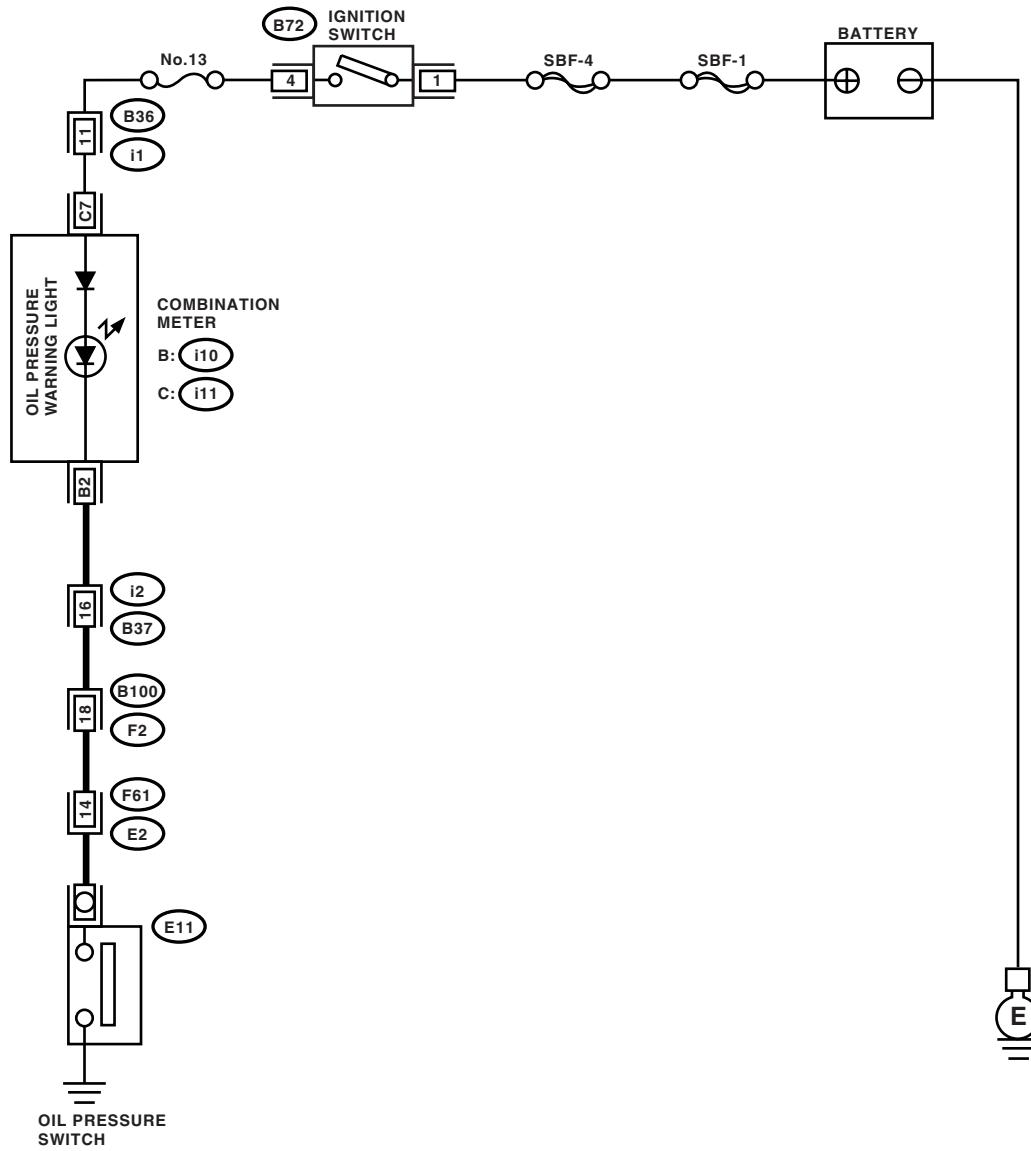
D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499977100	499977100	CRANK PULLEY WRENCH	Used for stopping rotation of crank pulley when loosening and tightening crank pulley bolt.
 ST18332AA000	18332AA000	OIL FILTER WRENCH	Used for removing and installing oil filter. (Outer diameter: 68 mm (2.68 in))
 ST18332AA010	18332AA010	OIL FILTER WRENCH	Used for removing and installing oil filter. (Outer diameter: 65 mm (2.56 in))
 ST-499587100	499587100	OIL SEAL INSTALLER	Used for installing oil seal to oil pump.

2. Oil Pressure System

A: WIRING DIAGRAM



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Oil Pressure System

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B: INSPECTION

Step	Check	Yes	No
1 CHECK COMBINATION METER. 1) Turn the ignition switch to ON. (engine OFF) 2) Check warning lights in the combination meter.	Do the warning lights illuminate?	Go to step 2 .	Repair or replace the combination meter. <Ref. to IDI-3, INSPECTION, Combination Meter System.>
2 CHECK HARNESS CONNECTOR BETWEEN COMBINATION METER AND OIL PRESSURE SWITCH. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from oil pressure switch. 3) Turn the ignition switch ON. 4) Measure the voltage of harness between the combination meter connector and chassis ground. <i>Connector & terminal</i> <i>(E11) No. 1 (+) — Chassis ground (-):</i>	Is the voltage more than 10 V?	Replace the oil pressure switch.	Go to step 3 .
3 CHECK COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Remove the combination meter. 3) Measure the resistance of combination meter. <i>Terminals</i> <i>No. C7 — No. B2:</i>	Is the resistance less than 10 Ω ?	Replace the harness connector between combination meter and oil pressure switch.	Repair or replace the combination meter. <Ref. to IDI-3, INSPECTION, Combination Meter System.>

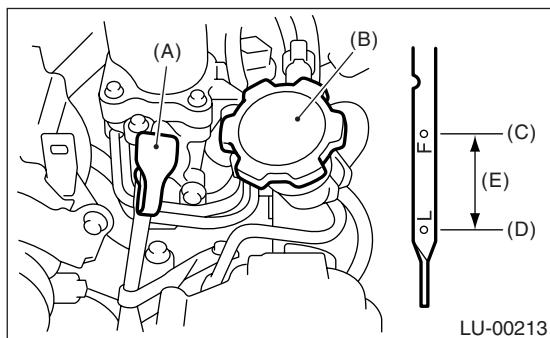
3. Engine Oil

A: INSPECTION

- 1) Park the vehicle on a level surface.
- 2) After turning off the engine, wait a few minutes for oil to drain back into the oil pan before checking the level.
- 3) Just after driving or while the engine is warm, engine oil level may show in the range between the "F" line and notch mark. This is caused by thermal expansion of engine oil.
- 4) Remove the oil level gauge and wipe it clean.
- 5) Reinsert the level gauge all the way. Be sure that the level gauge is correctly inserted and in proper orientation.
- 6) Remove it again and check the engine oil level. If the engine oil level is below the "L" line, add oil to bring the level up to "F" line.

NOTE:

To prevent overfilling the engine oil, do not add oil above "F" line when the engine is cold.



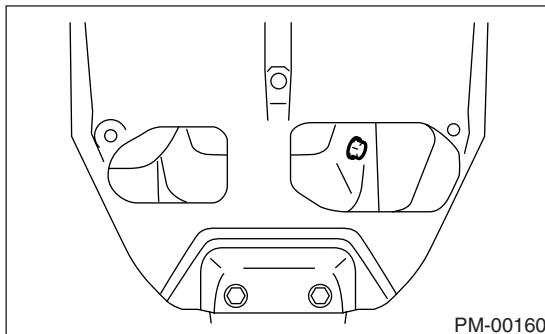
- (A) Oil level gauge
- (B) Engine oil filler cap
- (C) Upper level
- (D) Lower level
- (E) Approx. 1.0 ℥ (1.1 US qt, 0.9 Imp qt)

B: REPLACEMENT

- 1) Open the engine oil filler cap for quick draining of engine oil.
- 2) Lift-up the vehicle.
- 3) Drain the engine oil by loosening the engine oil drain plug.

NOTE:

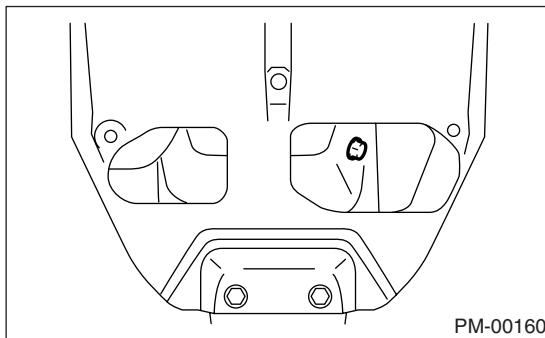
Prepare the container for draining of engine oil.



- 4) Replace the drain plug gasket.
- 5) Tighten the engine oil drain plug after draining engine oil.

Tightening torque:

44 N·m (4.5 kgf·m, 32.5 ft-lb)



- 6) Install the service hole cover.
- 7) Use the engine oil of proper quality and viscosity, fill engine oil through the oil filler duct up to upper level on level gauge. Make sure that the vehicle is placed level when checking oil level.

Recommended oil:

API standard SM with the "Energy Conserving" logo is printed.

ILSAC standard, GF4 "Star burst mark" label is on the container.

Engine Oil

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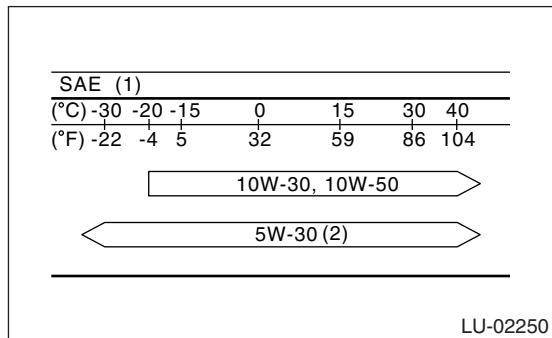
Engine oil capacity:

Upper level

4.0 l (4.2 US qt, 3.5 Imp qt)

Lower level

3.0 l (3.2 US qt, 2.6 Imp qt)



(1) SAE viscosity No. and applicable temperature

(2) Recommended

The proper viscosity helps vehicle get good cold and hot starting by reducing viscous friction and thus increasing cranking speed.

CAUTION:

When replenishing oil, it does not matter if the oil to be added is a different brand from that in the engine; however, use oil having the API standard and SAE viscosity No. designated by SUBARU.

NOTE:

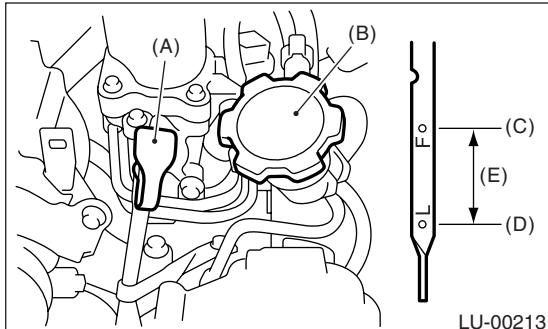
If the vehicle is used in areas with very high temperatures or for other heavy duty applications, the following viscosity oils may be used: API standard: SM or SL

SAE Viscosity No.: 30, 40, 10W-50, 20W-40, 20W-50.

8) Close the engine oil filler cap.

9) Start the engine and warm it up for a time.

10) After the engine stops, recheck the oil level. If necessary, add engine oil up to the upper level on level gauge.



(A) Oil level gauge

(B) Engine oil filler cap

(C) Upper level

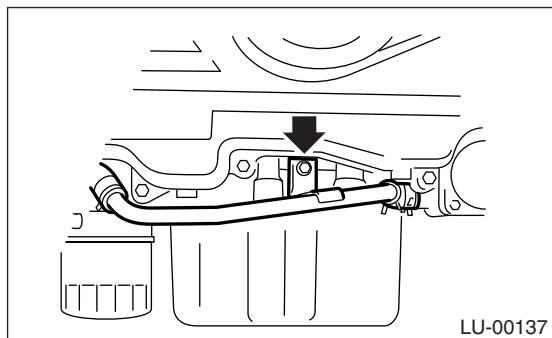
(D) Lower level

(E) Approx. 1.0 l (1.1 US qt, 0.9 Imp qt)

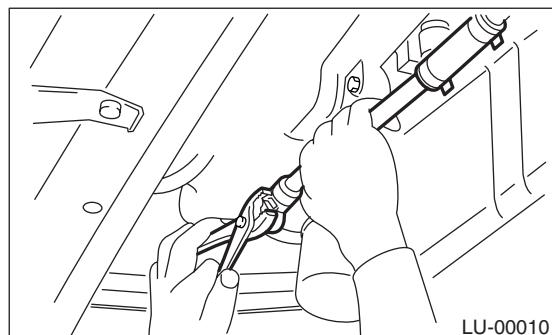
4. Oil Pump

A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Lift-up the vehicle.
- 3) Remove the under cover.
- 4) Remove the bolts which install the water pipe of oil cooler to oil pump.

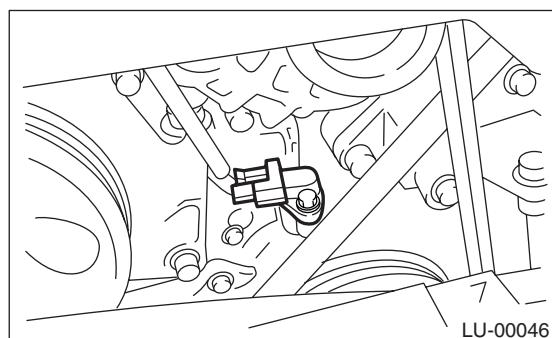


- 5) Remove the water pipe and hoses between oil cooler and water pump.



- 6) Remove the radiator. <Ref. to CO(H4DOTC)-23, REMOVAL, Radiator.>

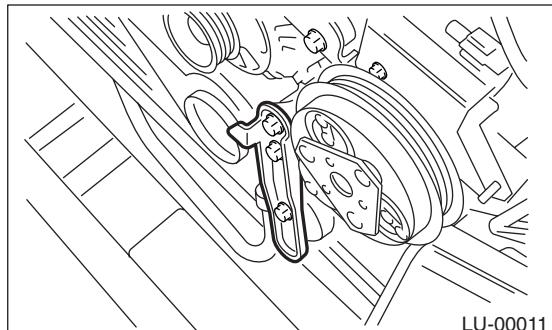
- 7) Remove the crankshaft position sensor.



- 8) Remove the V-belts.

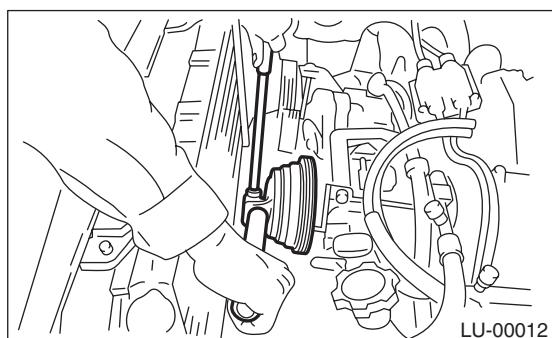
<Ref. to ME(STI)-40, REMOVAL, V-belt.>

- 9) Remove the rear side V-belt tensioner.



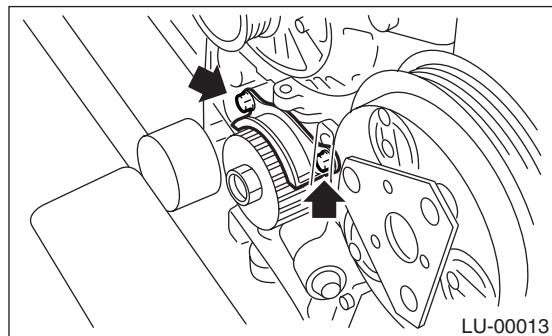
- 10) Remove the crank pulley by using ST. <Ref. to ME(STI)-42, REMOVAL, Crank Pulley.>

ST 499977100 CRANK PULLEY WRENCH



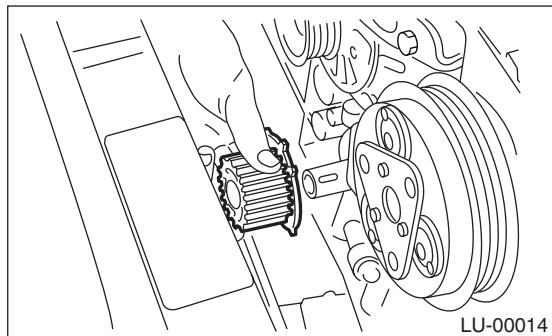
- 11) Remove the timing belt. <Ref. to ME(STI)-44, REMOVAL, Timing Belt.>

- 12) Remove the timing belt guide. (MT model)



- 13) Remove the water pump. <Ref. to CO(H4DOTC)-19, REMOVAL, Water Pump.>

- 14) Remove the crank sprocket.



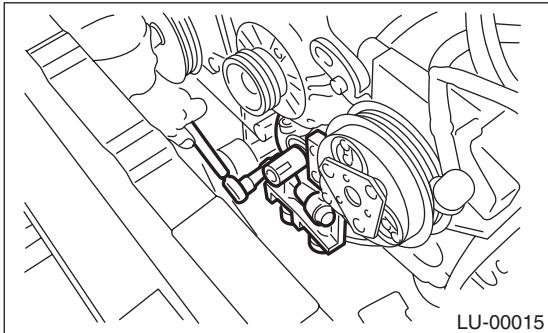
Oil Pump

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15) Remove the bolts which install the oil pump onto cylinder block.

NOTE:

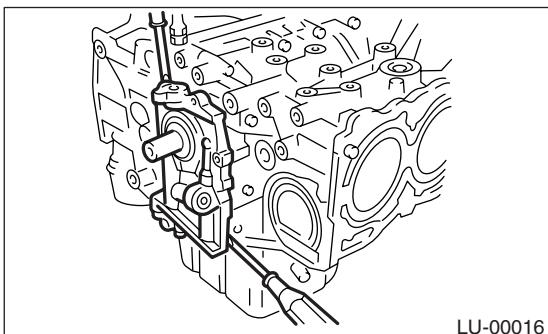
If disassembling or inspecting the oil pump, loosen the plug of relief valve before removing the oil pump.



16) Remove the oil pump using flat tip screwdriver.

CAUTION:

Be careful not to scratch the mating surfaces of cylinder block and oil pump.



B: INSTALLATION

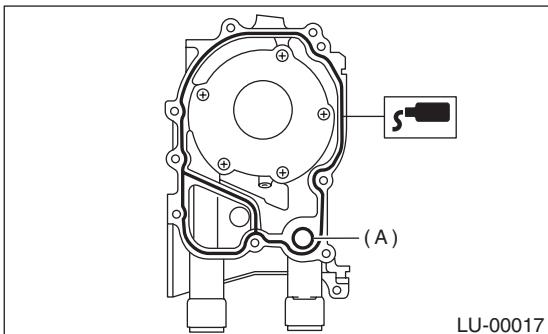
Install in the reverse order of removal.

Do the following:

1) Apply liquid gasket to the matching surfaces of oil pump.

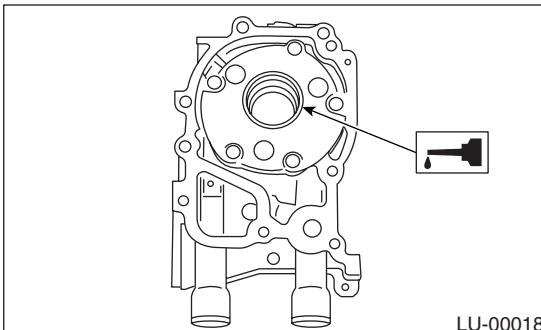
Liquid gasket:

THREE BOND 1215 (Part No. 004403007) or equivalent



2) Replace the O-ring (A) with a new one.

3) Apply a coat of engine oil to the inside of oil seal.



4) Be careful not to scratch the oil seal when installing the oil pump on cylinder block.

5) Position the oil pump, aligning the notched area with crankshaft, and push the oil pump straight.

CAUTION:

- Make sure the oil seal lip is not folded.
- Be careful not to scratch the oil seal when installing oil pump on cylinder block.

6) Install the oil pump.

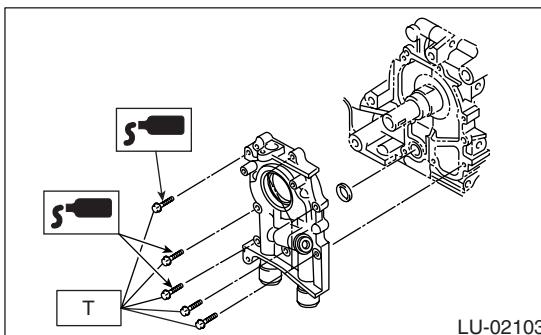
7) Apply liquid gasket to the threaded portion of three bolts. (If to be reuse the bolts.)

Liquid gasket:

THREE BOND 1324 (Part No. 004403042) or equivalent

Tightening torque:

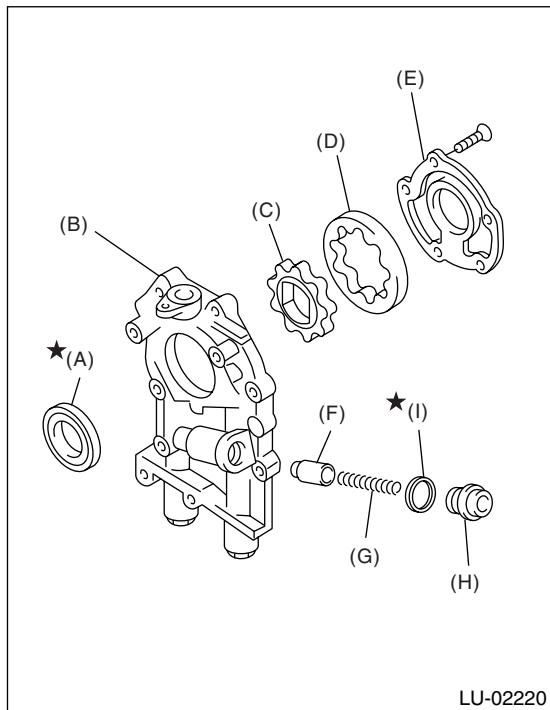
6.4 N·m (0.65 kgf·m, 4.7 ft-lb)



C: DISASSEMBLY

Remove the screws which secure the oil pump cover and disassemble oil pump. Inscribe alignment marks on the inner and outer rotors so that they can be replaced in their original positions during reassembly.

CAUTION:
Before disassembling the oil pump, remove the relief valve.



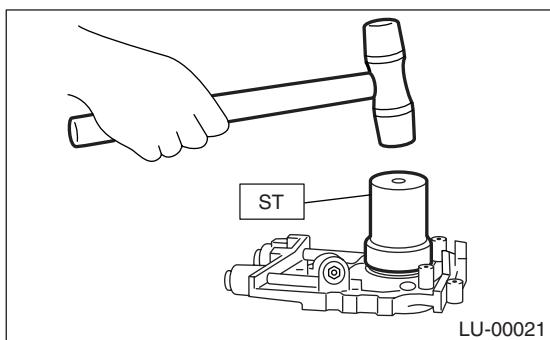
LU-02220

- (A) Oil seal
- (B) Pump case
- (C) Inner rotor
- (D) Outer rotor
- (E) Pump cover
- (F) Relief valve
- (G) Relief valve spring
- (H) Plug
- (I) Gasket

D: ASSEMBLY

1) Install the front oil seal by using ST.
ST 499587100 OIL SEAL INSTALLER

NOTE:
Use a new oil seal.



LU-00021

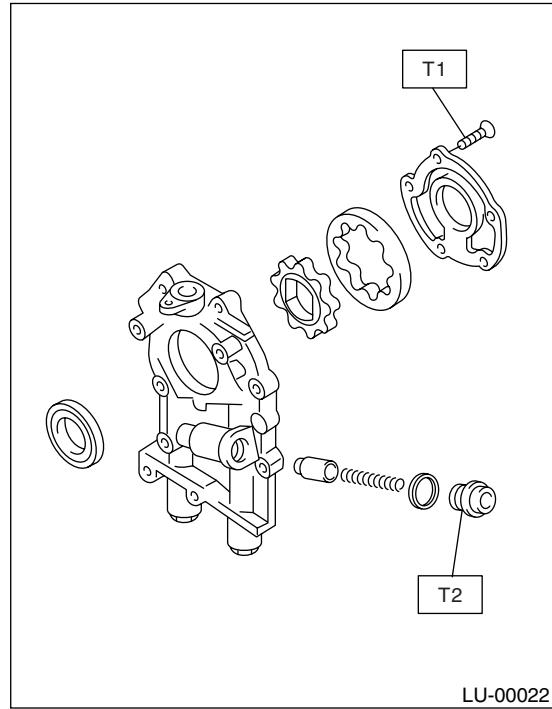
2) Apply a coat of engine oil to the inner and outer rotors.

- 3) Install the inner and outer rotors in their original positions.
- 4) Install the oil relief valve, relief valve spring and plug.

NOTE:
Use a new gasket.
5) Install the oil pump cover.

Tightening torque:

- T1: 5.4 N·m (0.55 kgf-m, 4.0 ft-lb)
T2: 44 N·m (4.5 kgf-m, 32.5 ft-lb)



LU-00022

E: INSPECTION

1. TIP CLEARANCE

Measure the tip clearance of rotors. If clearance exceeds the limit, replace the rotors as a matched set.

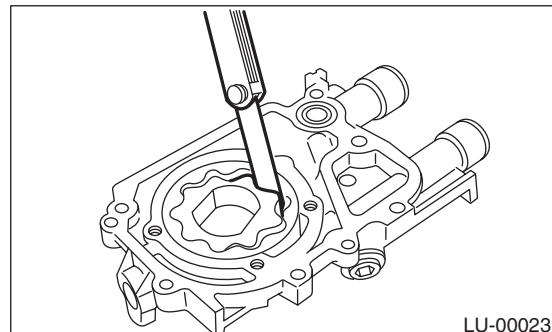
Tip clearance:

Standard

0.04 — 0.14 mm (0.0016 — 0.0055 in)

Limit

0.18 mm (0.0071 in)



LU-00023

Oil Pump

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2. CASE CLEARANCE

Measure the clearance between outer rotor and oil pump rotor housing. If clearance exceeds the limit, replace the rotor.

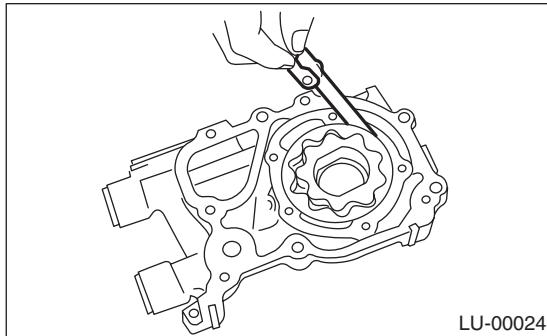
Case clearance:

Standard

0.10 — 0.175 mm (0.0039 — 0.0069 in)

Limit

0.20 mm (0.0079 in)



3. SIDE CLEARANCE

Measure the clearance between the oil pump inner rotor and pump cover. If clearance exceeds the limit, replace the rotor or pump body.

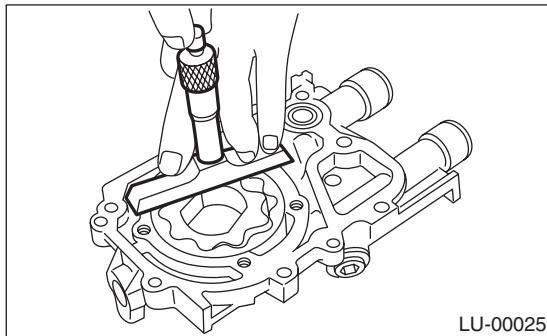
Side clearance:

Standard

0.02 — 0.07 mm (0.0008 — 0.0028 in)

Limit

0.12 mm (0.0047 in)



4. OIL RELIEF VALVE

Check the valve for fitting condition and damage, and the relief valve spring for damage and deterioration. Replace the parts if defective.

Relief valve spring:

Free length

73.7 mm (2.902 in)

Installed length

54.7 mm (2.154 in)

Load when installed

93.1 N (9.49 kgf, 20.88 lbf)

5. OIL PUMP CASE

Check the oil pump case for worn shaft hole, clogged oil passage, worn rotor chamber, cracks, and other faults.

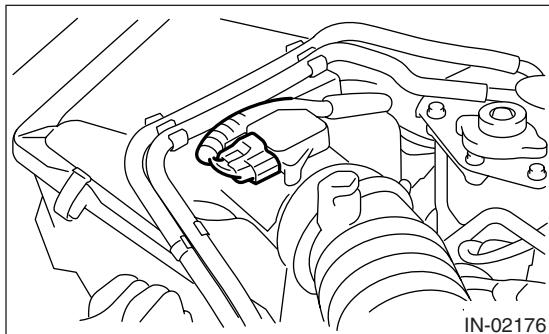
6. OIL SEAL

Check the oil seal lips for deformation, hardening, wear, etc. and replace if defective.

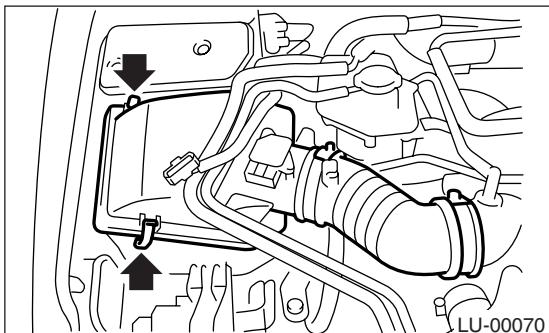
5. Oil Pan and Strainer

A: REMOVAL

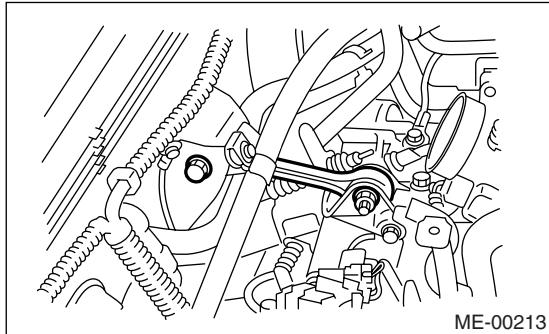
- 1) Set the vehicle on a lift.
- 2) Remove the front wheels.
- 3) Disconnect the ground cable from battery.
- 4) Disconnect the connector from mass air flow and intake air temperature sensor.



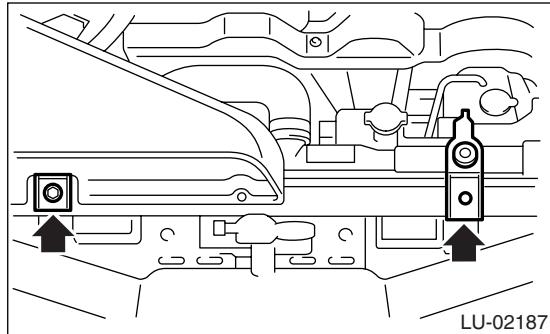
- 5) Remove the air intake boot and air cleaner upper cover.



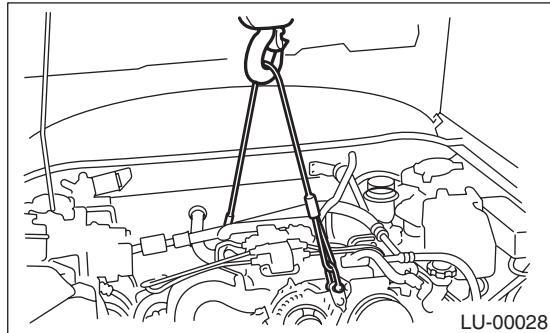
- 6) Remove the intercooler. <Ref. to IN(H4DOTC)-11, REMOVAL, Intercooler.>
- 7) Remove the pitching stopper.



- 8) Remove the radiator upper brackets.



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

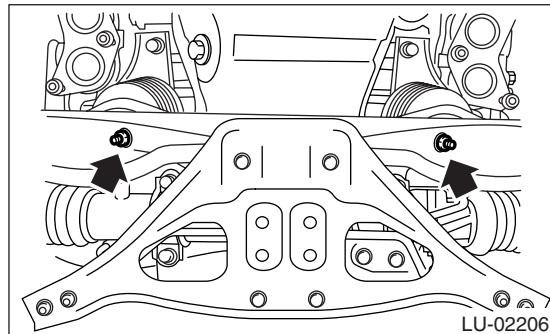


- 10) Lift-up the vehicle.

CAUTION:

When lifting up the vehicle, rise up the wire rope together.

- 11) Remove the under cover.
- 12) Drain the engine oil.
- 13) Remove the front exhaust pipe assembly. <Ref. to EX(H4DOTC)-8, REMOVAL, Front Exhaust Pipe.>
- 14) Remove the nuts which install the front cushion rubber onto front crossmember.



- 15) Remove the bolts which install the oil pan on cylinder block while raising up engine.

- 16) Insert the oil pan cutter blade between cylinder block-to-oil pan clearance.

CAUTION:

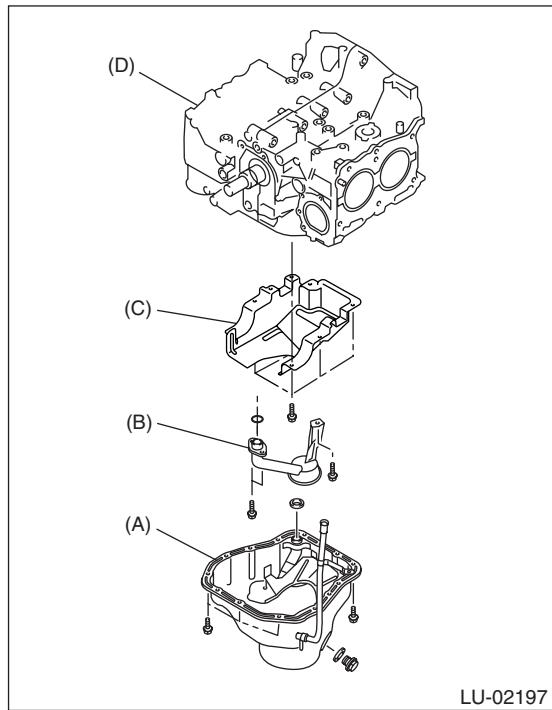
Do not use a screwdriver or similar tool in place of oil pan cutter.

- 17) Remove the oil strainer.

Oil Pan and Strainer

LUBRICATION

18) Remove the baffle plate.



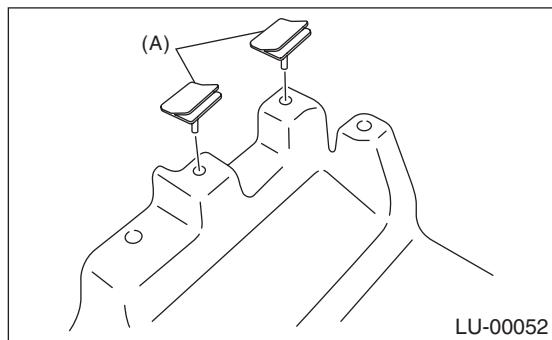
- (A) Oil pan
- (B) Oil strainer
- (C) Baffle plate
- (D) Cylinder block

B: INSTALLATION

CAUTION:

Before installing the oil pan, clean sealant from oil pan and engine block.

1) Check the seal (A) is securely installed in baffle plate in the direction as shown in the figure.



2) Install the baffle plate.

Tightening torque:

6.4 N·m (0.65 kgf-m, 4.7 ft-lb)

3) Install the oil strainer onto baffle plate.

NOTE:

Replace the O-ring with a new one.

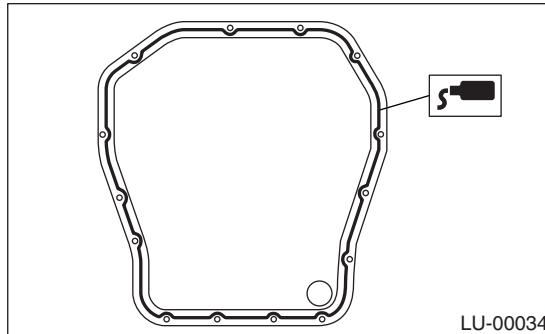
Tightening torque:

10 N·m (1.0 kgf-m, 7.2 ft-lb)

4) Apply liquid gasket to the mating surfaces, and then install the oil pan.

Liquid gasket:

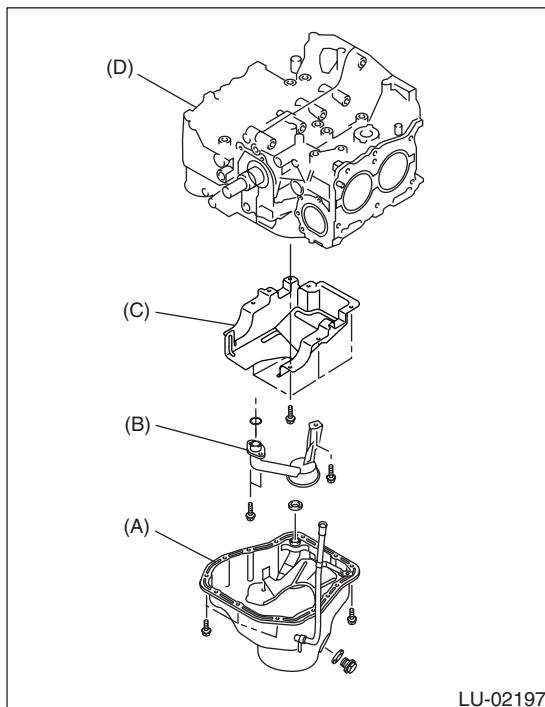
THREE BOND 1207C (Part No. 004403012) or equivalent



5) Tighten the bolts which install the oil pan onto engine block.

Tightening torque:

5 N·m (0.5 kgf-m, 3.6 ft-lb)



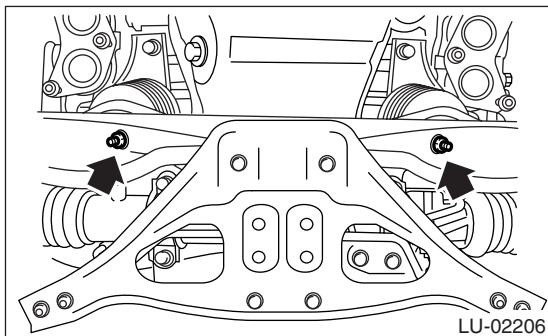
- (A) Oil pan
- (B) Oil strainer
- (C) Baffle plate
- (D) Cylinder block

6) Lower the engine onto front crossmember.

7) Tighten the nuts which install the front cushion rubber onto front crossmember.

Tightening torque:

85 N·m (8.7 kgf-m, 62.7 ft-lb)



8) Install the front exhaust pipe assembly. <Ref. to EX(H4DOTC)-8, INSTALLATION, Front Exhaust Pipe.>

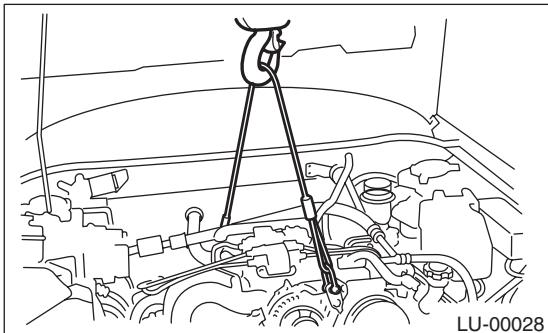
9) Install the under cover.

10) Lower the vehicle.

CAUTION:

When lowering the vehicle, lower the lifting device and wire rope together.

11) Remove the lifting device and wire ropes.

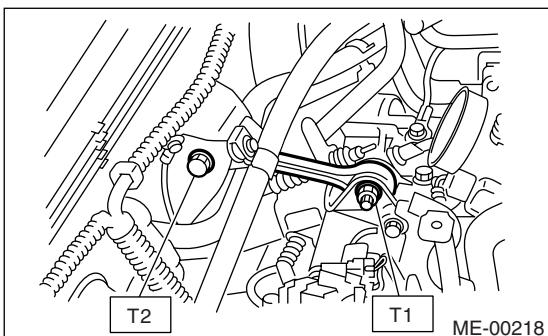


12) Install the pitching stopper.

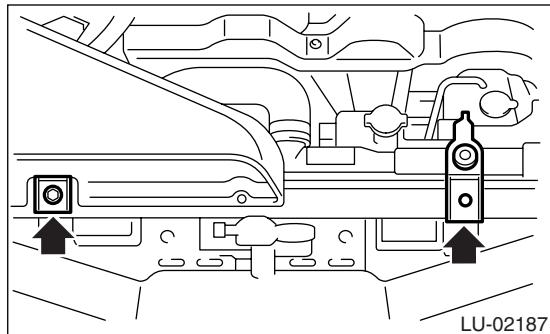
Tightening torque:

T1: 50 N·m (5.1 kgf-m, 36.9 ft-lb)

T2: 58 N·m (5.9 kgf-m, 42.8 ft-lb)

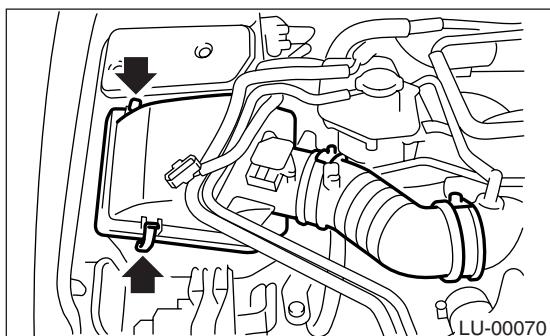


13) Install the radiator upper brackets.

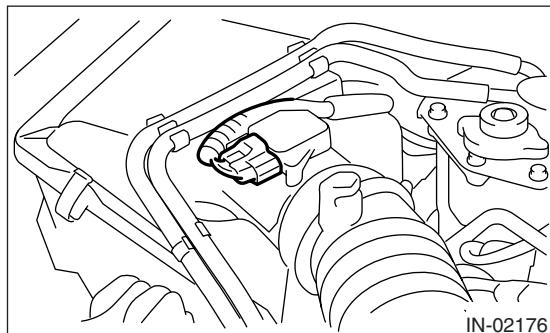


14) Install the intercooler. <Ref. to IN(H4DOTC)-11, INSTALLATION, Intercooler.>

15) Install the air intake boot and air cleaner upper cover.



16) Connect the connector to mass air flow and intake air temperature sensor.



17) Install the front wheels.

18) Connect the battery ground cable to battery.

19) Fill engine oil. <Ref. to LU(STI)-9, INSPECTION, Engine Oil.>

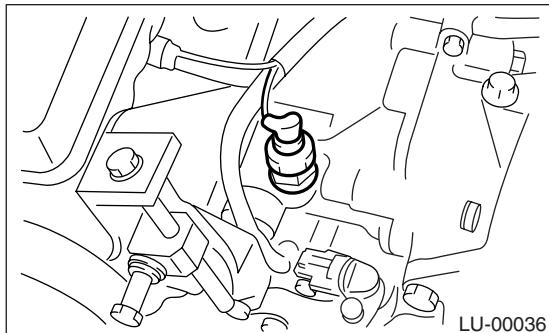
C: INSPECTION

By visual check, make sure the oil pan, oil strainer, oil strainer stay and baffle plate are not damaged.

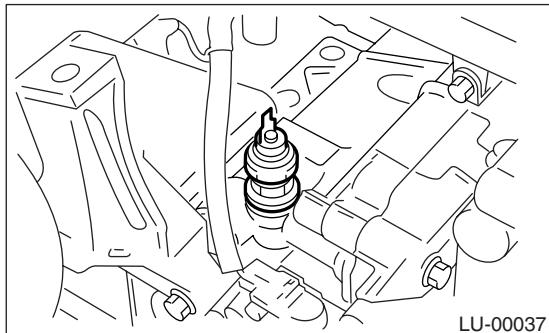
6. Oil Pressure Switch

A: REMOVAL

- 1) Remove the generator from bracket. <Ref. to SC(H4SO)-14, REMOVAL, Generator.>
- 2) Disconnect the terminal from oil pressure switch.



- 3) Remove the oil pressure switch.

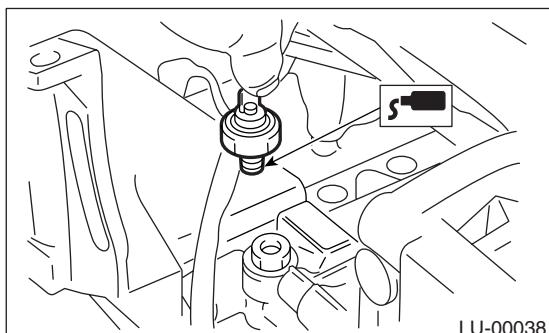


B: INSTALLATION

- 1) Apply liquid gasket to the oil pressure switch threads.

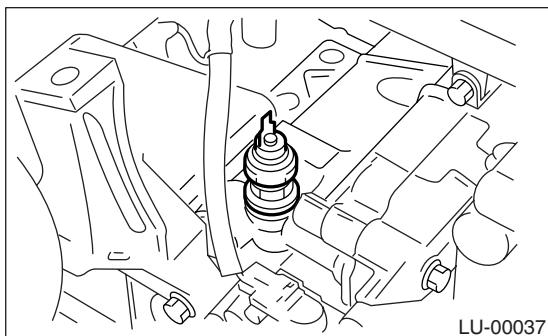
Liquid gasket:

THREE BOND 1324 (Part No. 004403042) or equivalent

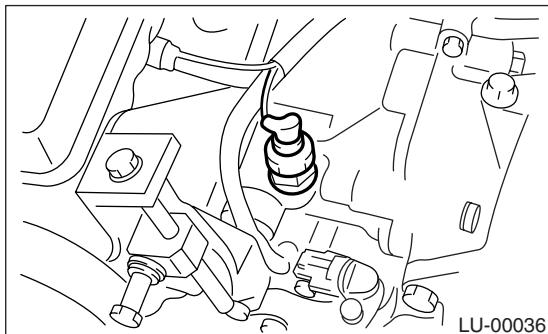


- 2) Install the oil pressure switch onto engine block.

Tightening torque:
25 N·m (2.5 kgf-m, 18.1 ft-lb)



- 3) Connect the terminal of oil pressure switch.



- 4) Install the generator on bracket. <Ref. to SC(H4SO)-14, INSTALLATION, Generator.>

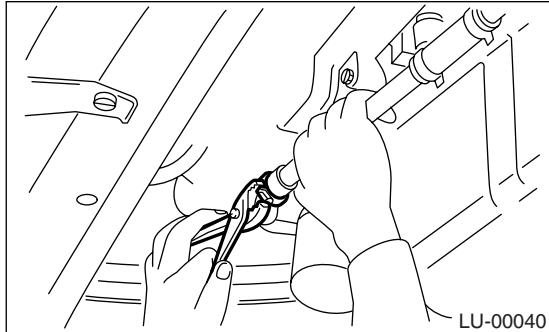
C: INSPECTION

Make sure oil does not leak or seep from where the oil pressure switch is installed.

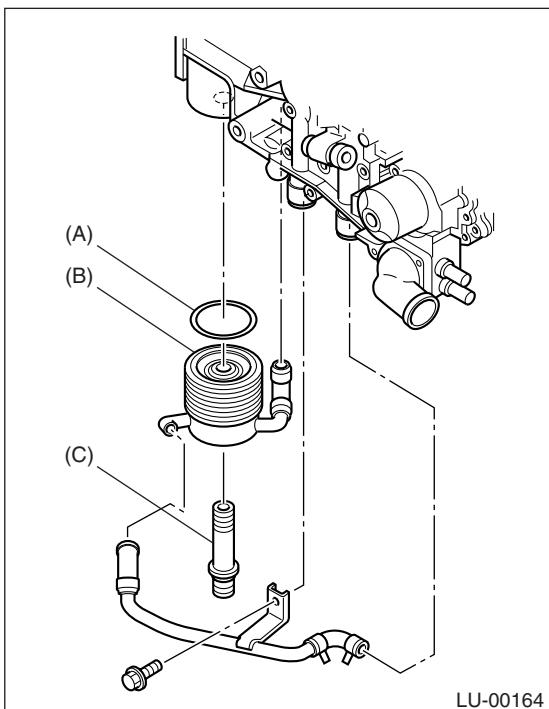
7. Engine Oil Cooler

A: REMOVAL

- 1) Lift-up the vehicle.
- 2) Remove the under cover.
- 3) Drain the engine oil.
- 4) Drain the engine coolant.
- 5) Remove the water by-pass pipe between oil cooler and water pump.



- 6) Remove the engine oil filter. <Ref. to LU(STI)-20, REMOVAL, Engine Oil Filter.>
- 7) Remove the connector, and then remove the oil cooler.



- (A) O-ring
- (B) Oil cooler
- (C) Oil cooler connector

B: INSTALLATION

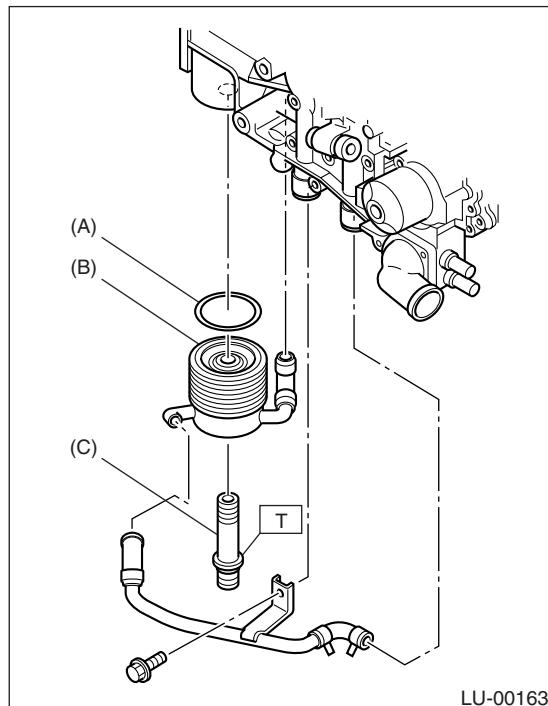
Install in the reverse order of removal.

Tightening torque:

T: 54 N·m (5.5 kgf-m, 40 ft-lb)

NOTE:

Always use a new O-ring.



- (A) O-ring
- (B) Oil cooler
- (C) Oil cooler connector

C: INSPECTION

- 1) Check the coolant passages are not clogged by blowing compressed air.
- 2) Check the mating surfaces of cylinder block, O-ring groove and oil filter for damage.

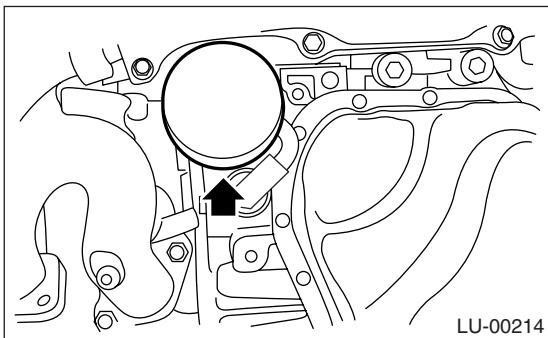
8. Engine Oil Filter

A: REMOVAL

- 1) Lift-up the vehicle.
- 2) Remove the under cover.
- 3) Remove the oil filter with ST.
ST 18332AA000 OIL FILTER WRENCH (Outer diameter: 68 mm (2.68 in))
ST 18332AA010 OIL FILTER WRENCH (Outer diameter: 65 mm (2.56 in))

NOTE:

Standard oil filter is outer diameter of 68 mm (2.68 in). However, SUBARU genuine oil filter having outer diameter of 65 mm (2.56 in) can also be used.



B: INSTALLATION

- 1) Get a new oil filter and apply a thin coat of engine oil to seal rubber.
- 2) Install the oil filter by turning it by hand, being careful not to damage seal rubber.
 - Tighten the oil filter 68 mm (2.68 in) in diameter by approx. 1 rotation more after the seal rubber of oil filter comes in contact with cylinder block or oil cooler. If using a torque wrench, tighten it to 14 N·m (1.4 kgf-m, 10.3 ft-lb).
 - Tighten the oil filter 65 mm (2.56 in) in diameter by approx. 2/3 — 3/4 rotation more after the seal rubber of oil filter comes in contact with cylinder block or oil cooler. If using a torque wrench, tighten it to 12 N·m (1.2 kgf-m, 8.7 ft-lb).

CAUTION:

Do not tighten excessively, or oil may leak.

- 3) Install the under cover.
- 4) Lower the vehicle.

C: INSPECTION

- 1) After installing the oil filter, run the engine and make sure that no oil is leaking around seal rubber.

NOTE:

The filter element and filter case are permanently jointed; therefore, interior cleaning is not necessary.

- 2) Check the engine oil level. <Ref. to LU(STI)-9, INSPECTION, Engine Oil.>

9. Engine Lubrication System Trouble in General

A: INSPECTION

Before performing diagnostics, make sure that the engine oil level is correct and no oil leakage exists.

Symptom	Possible cause		Corrective action
1. Warning light remains on.	1) Oil pressure switch failure	Cracked diaphragm or oil leakage within switch	Replace.
		Broken spring or seized contacts	Replace.
	2) Low oil pressure	Clogged oil filter	Replace.
		Malfunction of oil by-pass valve of oil filter	Clean or replace.
		Malfunction of oil relief valve of oil pump	Clean or replace.
		Clogged oil passage	Clean.
		Excessive tip clearance and side clearance of oil pump rotor and gear	Replace.
		Clogged oil strainer or broken pipe	Clean or replace.
	3) No oil pressure	Insufficient engine oil	Replenish.
		Broken pipe of oil strainer	Replace.
		Stuck oil pump rotor	Replace.
2. Warning light does not turn on.	1) Malfunction of combination meter		Replace.
	2) Poor contact of switch contact points		Replace.
	3) Disconnection of wiring		Repair.
3. Warning light flickers momentarily.	1) Poor contact at terminals		Repair.
	2) Defective wiring harness		Repair.
	3) Low oil pressure		Check for the same possible causes as listed in 1. — 2).

Engine Lubrication System Trouble in General

LUBRICATION
