

OIL AND FILTER

1. CHECK ENGINE OIL QUALITY

Check the oil for deterioration, entry of water, discoloring or thinning.

If the quality is visibly poor, replace the oil.

Oil grade:

API grade SJ, Energy–Conserving or ILSAC multigrade engine oil. SAE 5W–30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather.

2. CHECK ENGINE OIL LEVEL

After warming up the engine and then 5 minutes after the engine stop, oil level should be between "L" and "F" of the dipstick. If low, check for leakage and add oil up to "F" mark.



Oil Pressure Gauge

NOTICE:

S05298

P13638

Adhesive

- ★ Do not fill with engine oil above the "F" mark.
- ★ When inserting the oil dipstick, insert the curved tip of the dipstick facing the same direction as the curve of the guide.
- ★ If the dipstick gets caught while inserting it, do not force it in. Reconfirm the direction of the dipstick.
- 3. REMOVE OIL PRESSURE SWITCH AND INSTALL OIL PRESSURE GAUGE

4. WARM UP ENGINE

Allow the engine to warm up to normal operating temperature.

5. CHECK OIL PRESSURE Oil pressure:

At idle	29 kPa (0.3 kgf/cm ² , 4.3 psi) or more	
At 3,000 rpm	245 – 490 kPa (2.5 – 5.0 kgf/cm ² , 36 – 71 psi)	

- 6. REMOVE OIL PRESSURE GAUGE AND REINSTALL OIL PRESSURE SWITCH
- (a) Remove the oil pressure gauge.
- (b) Apply adhesive to 2 or 3 threads of the oil pressure switch. Adhesive:

Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

(c) Reinstall the oil pressure switch.

7. START ENGINE AND CHECK FOR OIL LEAKS



LU03H-03

CAUTION:

★ Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer.

LU03I-03

- ★ Care should be taken, therefore, when changing engine oil to minimize the frequency and length of time your skin is exposed to used engine oil. Protective clothing and gloves that cannot be penetrated by oil should be worn. The skin should be thoroughly washed with soap and water, or use water–less hand cleaner, to remove any used engine oil. Do not use gasoline, thinners, or solvents.
- ★ In order to preserve the environment, used oil and used oil filters must be disposed of only at designated disposal sites.
- 1. DRAIN ENGINE OIL
- (a) Remove the oil filler cap.
- (b) Remove the oil drain plug, and drain the oil into a container.



S05319

- 2. REPLACE OIL FILTER
- (a) Using SST, remove the oil filter. SST 09228–06501
- (b) Clean the oil filter contact surface on the oil filter mounting.
- (c) Lubricate the filter rubber gasket with clean engine oil.
- (d) Tighten the oil filter by hand until the rubber gasket contacts the seat of the filter mounting.



- (e) Using SST, give it an additional 3/4 turn to seat the filter. SST 09228–06501
- 3. FILL WITH ENGINE OIL
- (a) Clean and install the oil drain plug with a new gasket.Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)
- (b) Fill with new engine oil.

Capacity:

Drain and refill	w/ Oil filter change w/o Oil filter change	3.6 liters (3.8 US qts, 3.2 lmp. qts) 3.4 liters (3.6 US qts, 3.0 lmp. qts)
Dry fill	w/ Oil cooler w/o Oil cooler	4.3 liters (4.5 US qts, 3.8 lmp. qts) 4.2 liters (4.4 US qts, 3.7 lmp. qts)

- (c) Reinstall the oil filler cap.
- 4. START ENGINE AND CHECK FOR OIL LEAKS
- 5. RECHECK ENGINE OIL LEVEL

OIL PUMP COMPONENTS

LU03J-03





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REMOVAL

HINT:

When repairing the oil pump, the oil pan and strainer should be removed and cleaned.

- 1. DRAIN ENGINE OIL
- **REMOVE FRONT EXHAUST PIPE (See page EM–69)** 2.
- 3. **REMOVE NO.2 EXHAUST MANIFOLD STAY AND LH** STIFFENER PLATE (See page EM-69)
- **REMOVE EXHAUST PIPE BRACKET, OIL PAN INSU-**4. LATOR AND NO.2 REAR END PLATE (See page EM-69)



REMOVE OIL PAN

- Remove the oil dipstick. (a)
- (b) Remove the 17 bolts and 2 nuts.



Insert the blade of SST between the cylinder block and oil (c) pan, and cut off applied sealer and remove the oil pan. 09032-00100 SST

NOTICE:

S05928

- Do not use SST for the oil pump body side and rear oil ★ seal retainer.
- Be careful not to damage the oil pan flange. ★



Remove the bolt, 2 nuts, oil strainer and gasket.

- **REMOVE TIMING BELT (See page EM-17)** 7.
- 8. **REMOVE NO.2 IDLER PULLEY**

Remove the bolt and idler pulley.

- 9. **REMOVE CRANKSHAFT TIMING PULLEY** (See page EM-17)
- 10. **REMOVE OIL PUMP PULLEY (See page EM–17)**



LU03K-03



11. REMOVE OIL PUMP Remove the 12 bolts, oil pump and gasket.



DISASSEMBLY

1. REMOVE RELIEF VALVE

- (a) Using snap ring pliers, remove the snap ring.
- (b) Remove the retainer, spring and relief valve.

2. REMOVE DRIVE AND DRIVEN ROTORS

Remove the 2 bolts, pump body cover, O-ring, the drive and driven rotors.



LU03L-03

2.



INSPECTION

1. INSPECT RELIEF VALVE

Coat the valve with engine oil and check that it falls smoothly into the valve hole by its own weight.

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If it doesn't, replace the relief valve. If necessary, replace the oil pump assembly.



INSPECT DRIVE AND DRIVEN ROTORS

(a) Inspect the rotors for body clearance.Using a feeler gauge, measure the clearance between

the driven rotor and body.

Standard body clearance:

0.10 – 0.16 mm (0.0039 – 0.0063 in.) Maximum body clearance: 0.20 mm (0.0079 in.)

If the body clearance is greater than maximum, replace the rotors as a set. If necessary, replace the oil pump assembly.

(b) Inspect the rotors for tip clearance. Using a feeler gauge, measure the clearance between the drive and driven rotor tips.

Standard tip clearance:

0.04 – 0.16 mm (0.0016 – 0.0063 in.)

Maximum tip clearance: 0.20 mm (0.0079 in.)

If the tip clearance is greater than maximum, replace the rotors as a set.





- REPLACEMENT
- 1. REPLACE OIL PUMP OIL SEAL
- (a) Using a screwdriver, pry out the oil seal.

- (b) Using SST and a hammer, tap in a new oil seal until its surface is flush with the oil pump cover edge.
 - SST 09950-60010 (09951-00350), 09950-70010 (09951-07100)
- (c) Apply MP grease to the oil seal lip.
- 2. REPLACE CRANKSHAFT FRONT OIL SEAL (See page EM-104)



LU03N-03



REASSEMBLY

1. INSTALL DRIVE AND DRIVEN ROTORS

- (a) Place the drive and driven rotors into pump body with the mark on the driven rotor facing the pump body side.
- (b) Install a new O-ring to the oil pump body.
- **V**
- (c) Install the oil pump body cover with the 2 bolts. Torque: 8.8 N·m (90 kgf·cm, 78 in.·lbf)

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2. INSTALL RELIEF VALVE

- (a) Insert the relief valve, spring and retainer into the oil pump body hole.
- (b) Using snap ring pliers, install the snap ring.

LU03P-03



INSTALLATION

1. INSTALL OIL PUMP

Install a new gasket and the oil pump with the 12 bolts. Uniformity tighten the bolts in several passes.

Torque: 8.8 N·m (90 kgf·cm, 78 in.·lbf)

HINT: Each bolt length is indicated in the illustration.

Bolt length:

25 mm (0.98 in.) for A

35 mm (1.38 in.) for B

- 2. INSTALL OIL PUMP PULLEY (See page EM–23)
- 3. INSTALL CRANKSHAFT TIMING PULLEY (See page EM-23)
- 4. INSTALL NO.2 IDLER PULLEY (See page EM–23)
- 5. INSTALL TIMING BELT (See page EM-23)



6. INSTALL OIL STRAINER

Install a new gasket and the oil strainer with the bolt and 2 nuts. Torque: 5.4 N-m (55 kgf-cm, 48 in.-lbf)

Seal Width C^{+} 3-5 mm A B C C 5 mm (0.20 in.)LU0420

7. INSTALL OIL PAN

- (a) Remove any old seal packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the oil pan and cylinder block.
 - ★ Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing groove.
 - ★ Thoroughly clean all components to remove all the loose material.
 - ★ Using a non-residue solvent, clean both sealing surface.

NOTICE:

Do not use a solvent which will affect the painted surfaces.

- (b) Apply seal packing to the oil pan shown in the illustration. Seal packing: Part No. 08826–00080 or equivalent
 - ★ Install a nozzle that has been cut to a 3 5 mm (0.12 0.20 in.) opening.
 - ★ Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.

- ★ Immediately remove nozzle from the tube and reinstall the cap.
- (c) Install the oil pan with the 17 bolts and 2 nuts. Uniformly tighten the bolts and nuts in several passes.
- (d) Install the dipstick.
- 8. INSTALL NO.2 REAR END PLATE, OIL PAN INSULA-TOR AND EXHAUST PIPE BRACKET (See page EM-75)
- 9. INSTALL LH STIFFENER PLATE AND NO.2 EXHAUST MANIFOLD STAY (See page EM-23)
- 10. INSTALL FRONT EXHAUST PIPE (See page EM-75)
- 11. FILL WITH ENGINE OIL
- 12. START ENGINE AND CHECK FOR OIL LEAKS
- 13. RECHECK ENGINE OIL LEVEL

OIL COOLER COMPONENTS



LU03Q-03

1661

REMOVAL

- 1. DRAIN ENGINE COOLANT
- 2. REMOVE OIL FILTER (See page LU–2)



REMOVE OIL COOLER

- (a) Disconnect the 2 water bypass hoses from the oil cooler.
- (b) Remove the union bolt and plate washer.
- (c) Remove the nut and oil cooler.
- (d) Remove the O-ring from the oil cooler.

LU03R-03



INSPECTION INSPECT OIL COOLER Check the oil cooler for damage or clogging. If necessary, replace the oil cooler.



INSTALLATION

1. INSTALL OIL COOLER

- (a) Clean the oil cooler contact surface on the oil cooler mounting.
- (b) Install a new O-ring to the oil cooler.



- (c) Temporarily install the oil cooler with the nut.
- (d) Apply a light coat of engine oil on the threads and under the head of the union bolt.
- (e) Install the plate washer and union bolt.
 Torque: 78.5 N-m (800 kgf-cm, 58 ft-lbf)
 (f) Tighten the nut.
 - Tighten the nut. Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)
- (g) Connect the 2 water bypass hoses to the oil cooler.
- 2. INSTALL OIL FILTER (See page LU–2)
- 3. FILL WITH ENGINE COOLANT
- 4. START ENGINE AND CHECK FOR LEAKS
- 5. CHECK ENGINE OIL LEVEL





OIL AND FILTER

1. CHECK ENGINE OIL QUALITY

Check the oil for deterioration, entry of water, discoloring or thinning.

If the quality is visibly poor, replace the oil.

- Oil grade:
- API grade SJ, Energy–Conserving or ILSAC multigrade engine oil.

SAE 5W - 30 is the best choice for your vehicle, for good fuel economy, and good starting in cold weather.

2. CHECK ENGINE OIL LEVEL

After warm up the engine and then 5 minutes after the engine stop, oil level should be between the low level and full level marks on the dipstick.

If low, check for leakage and add oil up to the full level mark. **NOTICE:**

Do not fill with engine oil above the full level mark.

- 3. REMOVE OIL PRESSURE SWITCH, AND INSTALL OIL PRESSURE GAUGE
- (a) Using SST, remove the oil pressure switch. SST 09816–30010



(b) Install the oil pressure gauge.

4. WARM UP ENGINE

Allow the engine to warm up to normal operating temperature. **5. CHECK OIL PRESSURE**

Oil pressure:

At idle	29 kPa (0.3 kgf/cm ² , 4.3 psi) or more	
At 3,000 rpm	294 – 539 kPa (3.0 – 5.5 kgf/cm ² , 43 – 78 psi)	

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REMOVE OIL PRESSURE GAUGE AND REINSTALL OIL PRESSURE SWITCH

(a) Remove the oil pressure gauge.

 Apply adhesive to 2 or 3 threads of the oil pressure switch.
 Adhesive: Part No. 08833–00080, THREE BOND 1344, LOCTITE 242 or equivalent

- (c) Using SST, install the oil pressure switch. SST 09816–30010
- Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)
- 7. START ENGINE AND CHECK FOR LEAKS

LU026-03

REPLACEMENT

CAUTION:

- ★ Prolonged and repeated contact with mineral oil will result in the removal of natural fats from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer.
- ★ Exercise caution in order to minimize the length and frequency of contact of your skin to used oil. Wear protective clothing and gloves. Wash your skin thoroughly with soap and water, or use water–less hand cleaner, to remove any used engine oil. Do not use gasoline, thinners, or solvents.
- ★ In order to preserve the environment, used oil and used oil filter must be disposed of only at designated disposal sites.



SST

P12580

DRAIN ENGINE OIL

- (a) Remove the oil filler cap.
- (b) Remove the oil drain plug, and drain the oil into a container.

2. REPLACE OIL FILTER

- (a) Using SST, remove the oil filter. SST 09228–07501
- (b) Check and clean the oil filter installation surface.
- (c) Apply clean engine oil to the gasket of a new oil filter.



- (d) Lightly screw the oil filter into place, and tighten it until the gasket contacts the seat.
- (e) Using SST, tighten it an additional 3/4 turn. SST 09228–07501

3. REFILL WITH ENGINE OIL

- (a) Clean and install the oil drain plug with a new gasket.Torque: 45 N·m (460 kgf·cm, 33 ft·lbf)
- (b) Fill with fresh engine oil.

Capacity:

Drain and refill	w/ Oilfilter change w/o Oilfilter change	4.7 liters (5.0 US qts, 4.1 lmp. qts) 4.5 liters (4.8 US qts, 4.0 lmp. qts)
Dry fill		5.2 liters (5.5 US qts, 4.6 lmp. qts)

(c) Install the oil filler cap.

- 4. START ENGINE AND CHECK FOR OIL LEAKS
- 5. RECHECK ENGINE OIL LEVEL

OIL PUMP COMPONENTS

Engine Moving Control Rod **RH** Fender Apron Seal 64 (650, 47) **Generator Drive** 32 (320, 23) Belt 64 (650, 47) **RH Engine Mounting Stay** Ground Strap No.2 RH Engine Mounting Bracket PS Pump Drive Belt **PS Pump Drive Belt** Adjusting Strut No.2 RH Engine Mounting Stay (M/T) Radiator Reservoir Hose A/C Compressor Connector A/C Compressor **Generator Drive Belt** Adjusting Bar Bracket Bracket 21 (210, 15) 56 (570, 41) Gasket Gasket-Front Exhaust Pipe 62 (630, 46) Bracket Stay -33 (330, 24) 33 (330, 24) N·m (kgf·cm, ft·lbf) : Specified torque 62 (630, 46) Non-reusable part B06398

LU027-04

1669







REMOVAL

HINT:

When repairing the oil pump, the oil pan and strainer should be removed and cleaned.

- 1. REMOVE RH FRONT WHEEL
- 2. REMOVE RH FENDER APRON SEAL
- 3. DRAIN ENGINE OIL
- 4. REMOVE FRONT EXHAUST PIPE (See page EM-32)
- 5. REMOVE FRONT EXHAUST PIPE BRACKET FROM NO.1 OIL PAN
- 6. REMOVE GENERATOR DRIVE BELT (See page CH-6)
- 7. DISCONNECT A/C COMPRESSOR FROM ENGINE (See page AC-41)
- Pivot Bolt Adjusting Strut Adjusting Bolt



- (a) Loosen the pivot and adjusting bolts, and remove the drive belt.
- (b) Remove the bolt, nut and adjusting strut.
- 9. REMOVE TIMING BELT (See page EM–15)
- 10. REMOVE TIMING PULLEYS (See page EM-15)
- 11. REMOVE NO.3 TIMING BELT COVER (See page EM–32)
- 12. REMOVE A/C COMPRESSOR HOUSING BRACKET

Remove the 3 bolts and housing bracket.



B01015

13. REMOVE NO.2 OIL PAN

(a) Remove the 10 bolts and 2 nuts.

LU028-03

LU–9





SST 09032-00100

NOTICE:

- ★ Be careful not to the damage the No.2 oil pan contact surface of the No.1 oil pan.
- ★ Be careful not to damage the No.2 oil pan flange.

14. REMOVE OIL STRAINER

Remove the bolt, 2 nuts, oil strainer and gasket.





15. REMOVE NO.1 OIL PAN

- (a) Remove the 2 bolts, exhaust pipe support stay and flywheel housing under cover.
- (b) Remove the 19 bolts (or 17 bolts and 2 nuts).





Using a screwdriver, remove the oil pan by prying the portions between the cylinder block and oil pan.
 NOTICE:

Be careful not to damage the contact surfaces of the cylinder block and oil pan.

- 16. REMOVE BAFFLE PLATE FROM NO.1 OIL PAN
- 17. REMOVE CRANKSHAFT POSITION SENSOR

18. REMOVE OIL PUMP

- (a) Remove the 9 bolts.
- (b) Remove the oil pump by prying a screwdriver between the oil pump and main bearing cap.
- (c) Remove the O-ring.

1.



REMOVE RELIEF VALVE

DISASSEMBLY



2. REMOVE DRIVE AND DRIVEN ROTORS

Remove the plug, gasket, spring and relief valve.

Remove the 9 screws, pump body cover, drive and driven rotors.

LU029-03



INSPECTION

INSPECT RELIEF VALVE 1.

Coat the valve with engine oil and check that it falls smoothly into the valve hole by its own weight.

LU02A-03

If it does not, replace the relief valve. If necessary, replace the oil pump assembly.



PLACE DRIVE AND DRIVEN ROTORS INTO OIL PUMP 2. BODY

Place the drive and driven rotors into the oil pump body with the mark facing upward.



3. INSPECT ROTOR SIDE CLEARANCE

Using a feeler gauge and precision straight edge, measure the clearance between the rotors and precision straight edge.

Standard side clearance:

0.030 - 0.090 mm (0.0012 - 0.0035 in.)

Maximum side clearance: 0.15 mm (0.0059 in.)

If the side clearance is greater than maximum, replace the rotors as a set. If necessary, replace the oil pump assembly.



INSPECT ROTOR TIP CLEARANCE 4.

Using a feeler gauge, measure the clearance between the drive and driven rotor tips.

Standard tip clearance:

0.110 - 0.240 mm (0.0043 - 0.0094 in.)

If the tip clearance is greater than maximum, replace the rotors as a set.

INSPECT ROTOR BODY CLEARANCE 5.

Using a feeler gauge, measure the clearance between the driven rotor and body.

Standard body clearance:

0.100 - 0.175 mm (0.0039 - 0.0069 in.)

Maximum body clearance: 0.30 mm (0.0118 in.)

If the body clearance is greater than maximum, replace the rotors as a set. If necessary, replace the oil pump assembly.





LU02B-03

LU-13

REPLACEMENT

REPLACE CRANKSHAFT FRONT OIL SEAL HINT:

There are 2 methods ((a) and (b)) to replace the oil seal which are as follows:

- P12413
- SST P12392
- Cut Position



(a) If the oil pump is removed from the cylinder block.(1) Using a screwdriver, pry out the oil seal.

- (2) Using SST and a hammer, tap in a new oil seal until its surface is flush with the oil pump body edge.
- SST 09223-00010
- (3) Apply MP grease to the oil seal lip.

- (b) If the oil pump is installed to the cylinder block.
 - (1) Using a knife, cut off the oil seal lip.
 - (2) Using a screwdriver, pry out the oil seal.

NOTICE:

Be careful not to damage the crankshaft. Tape the screwdriver tip.

- (3) Apply MP grease to a new oil seal lip.
- (4) Using SST and a hammer, tap in the oil seal until its surface is flush with the oil pump body edge.

SST 09223-00010





REASSEMBLY

1. INSTALL DRIVE AND DRIVEN ROTORS

- (a) Place the drive and driven rotors into pump body with the marks facing the pump body cover side.
- (b) Install the pump body cover with the 9 screws.

2. INSTALL RELIEF VALVE

Insert the relief valve and spring into the pump body hole, and install the plug with a new gasket.

Torque: 36.8 N·m (375 kgf·cm, 37 ft·lbf)

INSTALLATION

- 1. INSTALL OIL PUMP
- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the oil pump and cylinder block.
 - ★ Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing grooves.
 - ★ Thoroughly clean all components to remove all the loose material.
 - ★ Using a non-residue solvent, clean both sealing surfaces.

A B C Seal Width C D C C



(b) Apply seal packing to the oil pump as shown in the illustration.

Seal packing: Part No. 08826-00080 or equivalent

★ Install a nozzle that has been cut to a 2-3 mm (0.08 -0.12 in.) opening.

HINT:

Avoid applying an excessive amount to the surface.

- ★ Parts must be assembled within 3 minutes of application. Otherwise the material must be removed and reapplied.
- ★ Immediately remove nozzle from the tube and reinstall cap.

(c)

Place a new O-ring on the cylinder block.



- (d) Engage the spline teeth of the oil pump drive gear with the large teeth of the crankshaft, and slide the oil pump on the crankshaft.
- (e) Install the oil pump with the 9 bolts. Uniformly tighten the bolts in several passes.

Torque:

10 mm head: 8 N·m (80 kgf·cm, 69 in.·lbf) 12 mm head: 19.5 N·m (200 kgf·cm, 14 ft·lbf)

- 2. INSTALL CRANKSHAFT POSITION SENSOR
- 3. INSTALL BAFFLE PLATE TO NO.1 OIL PAN
 - Torque: 8 N·m (80 kgf·cm, 69 in.·lbf)
- 4. INSTALL NO.1 OIL PAN
- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the oil pan, oil pump and cylinder block.
 - ★ Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing grooves.
 - ★ Thoroughly clean all components to remove all the loose material.
 - ★ Using a non-residue solvent, clean both sealing surfaces.



(b) Apply seal packing to the oil pan as shown in the illustration.

Seal packing: Part No. 08826–00080 or equivalent Region "X" is at the outer side of the bolt hole. Region "Y" is at the inner side of the bolt hole.

★ Install a nozzle that has been cut to a 4 – 5 mm (0.16 – 0.20 in.) (Type A) or 3 – 4 mm (0.12 – 0.16 in.) (Type B) opening.

HINT:

Avoid applying an excessive amount to the surface.

- ★ Parts must be assembled within 3 minutes of application. Otherwise the material must be removed and reapplied.
- ★ Immediately remove nozzle from the tube and reinstall cap.
- Install the oil pan with the 19 bolts (or 17 bolts and 2 nuts).
 Uniformly tighten the bolts and nuts in several passes.
 Torque:

10 mm head: 8 N·m (80 kgf·cm, 69 in.-lbf) 12 mm head: 19.5 N·m (200 kgf·cm, 14 ft·lbf) 14 mm head: 37.2 N·m (380 kgf·cm, 27 ft·lbf)

(d) Install the flywheel housing under cover and exhaust pipe support stay with the 2 bolts.

Torque: 7.8 N·m (80 kgf·cm, 69 in.-Ibf)

5. INSTALL OIL STRAINER

Install a new gasket and the oil strainer with the bolt and 2 nuts. Torque: 8 N·m (80 kgf·cm, 69 in.-lbf)

6. INSTALL NO.2 OIL PAN

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surface of the No.1 and No.2 oil pans.
 - ★ Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing grooves.
 - ★ Thoroughly clean all components to remove all the loose material.
 - ★ Using a non-residue solvent, clean both sealing surfaces.

NOTICE:

Do not use a solvent which will affect the painted surfaces.



(b) Apply seal packing to the No.2 oil pan as shown in the illustration.

Seal packing:

Part No. 08826-00080 or equivalent

★ Install a nozzle that has been cut to a 4-5 mm (0.16 -0.20 in.) opening.

HINT:

Avoid applying an excessive amount to the surface.

- ★ Parts must be assembled within 3 minutes of application. Otherwise the material must be removed and reapplied.
- ★ Immediately remove nozzle from the tube and reinstall cap.
- Install the No.2 oil pan with the 10 bolts and 2 nuts. Uniformly tighten the bolts and nuts in several passes.
 Torque: 8 N-m (80 kgf-cm, 69 in.-lbf)
- 7. INSTALL A/C COMPRESSOR HOUSING BRACKET Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)
- 8. INSTALL NO.3 TIMING BELT COVER (See page EM-21)
- 9. INSTALL TIMING PULLEYS (See page EM–21)
- 10. INSTALL TIMING BELT (See page EM-21)
- 11. INSTALL ADJUSTING STRUT AND PS PUMP DRIVE BELT
- (a) Temporarily install the adjusting strut with the bolt and the nut.
- (b) Install the drive belt with the pivot and adjusting bolts. Torque: 43.1 N-m (440 kgf-cm, 32 ft-lbf)
- (c) Tighten the nut. Torque: 43.1 N·m (440 kgf·cm, 32 ft·lbf)
- 12. INSTALL A/C COMPRESSOR (See page AC-47)
- 13. INSTALL GENERATOR DRIVE BELT (See page CH–16)
- 14. INSTALL FRONT EXHAUST PIPE BRACKET TO NO.1 OIL PAN Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)
- 15. INSTALL FRONT EXHAUST PIPE (See page EM-76)
- 16. REMOVE RH FENDER APRON SEAL
- 17. REMOVE RH FRONT WHEEL
- 18. FILL ENGINE WITH OIL
- **19. START ENGINE AND CHECK FOR LEAKS**
- 20. RECHECK ENGINE OIL LEVEL