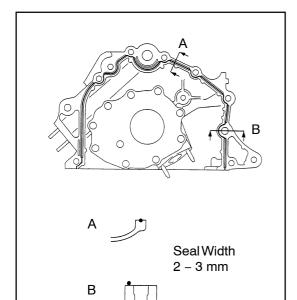
LU0D8-01



V B00960

INSTALLATION

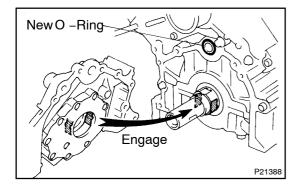
1. INSTALL OIL PUMP

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surface 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 groove.
 - 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 pump as shown in the illustration.

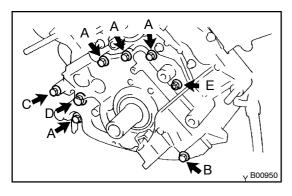
Seal packing: Part No. 08826 -00080 or equivalent NOTICE:

Avoid applying an excessive amount to the surface. Be particularly careful near oil passage.

- Install a nozzle that has been cut to a 2 3 mm (0.08 0.12 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 cap.



- (c) Install a new O -ring to 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 8 bolts. Uniformly tighten the bolts in several passes.

Torque:

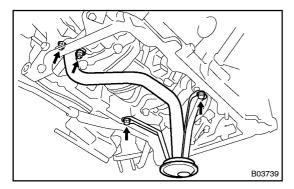
15.5 N·m (160 kgf·cm, 11 ft·lbf) for 12 mm head and 6 mm hexagon head 30.5 N·m (3 10 kgf·cm, 22 ft·lbf) for 14 mm head

HINT:

- Use a 6 mm hexagon wrench for the hexagon head bolt.
- Each bolt length is indicated in the illustration. Bolt length:

2UZ-FEENGINE (RM630E)

35 mm (1.38 in.) for A of 12 mm head 50 mm (1.97 in.) for B of 12 mm head 106 mm (4. 17 in.) for C of 12 mm head 44 mm (1.73 in.) for D of 14 mm head 28 mm (1.10 in.) for E of 6 mm hexagon head



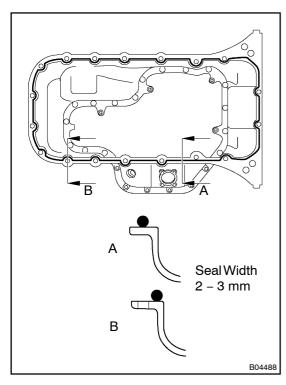
2. INSTALL OIL STRAINER

Install a new gasket and the oil strainer with the 2 bolts and 2 nuts.

Torque: 7.5 N·m (80 kgf·cm, 66 in.·lbf)

HINT:

Use bolt 12 mm (0.47 in.) in length.

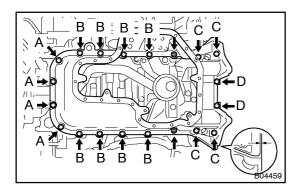


3.INSTALLNO. 1 OILPAN

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of the No.
 1 oil pan, cylinder block, oil pump and rear oil seal retainer.
 - 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.
- (b) Apply seal packing to the No. 1 oil pan as 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 cap.



(c) Temporarily install the No. 1 oil pan with the 18 bolts, stud bolt and 2 nuts.

HINT:

Each bolt length is indicated in the illustration.

Bolt Length:

20 mm (0.79 in.) for A of 10 mm head 25 mm (0.98 in.) for B of 12 mm head 60 mm (2.36 in.) for C of 12 mm head 35 mm (1.38 in.) for D of 10 mm head

(d) Set the No. 1 oil pan as shown in the illustration.

NOTICE:

Make sure the clearance between the rear ends of the No. oil pan and cylinder block is 0.2 mm (0.008 in.) or less. If the clearance is more than 0.2 mm (0.008 in.), the No. 1 oil pan will be stretched.

(e) Uniformly tighten the bolts, stud bolts and nuts in several passes.

Torque:

7.5 N·m (80 kgf·cm, 66 in.·lbf) for 10 mm head 28 N·m (290 kgf·cm, 2 1 ft·lbf) for 12 mm head

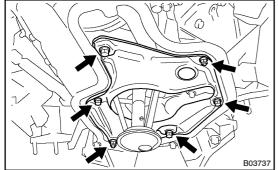
4. INSTALL OIL PAN BAFFLE PLATE

Install the baffle plate with 4 bolts and 2 nuts.

Torque: 7.5 N·m (80 kgf·cm, 66 in.·lbf)

HINT:

Use bolts 12 mm (0.47 in.) in length.



5. INSTALL NO.2 OIL PAN

- (a) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of 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 groove.
 - Thoroughly clean all components to remove all the loose material.
 - Using a non -residue solvent, clean both sealing surfaces.

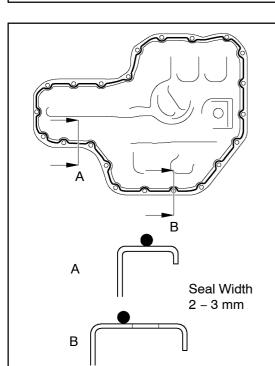
NOTICE:

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 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 cap.
- (c) Install the No.2 oil pan with the 20 bolts and 2 nuts. Uniformly tighten the bolts and nuts in several passes.

Torque: 7.5 N·m (80 kgf·cm, 66 in.·lbf)

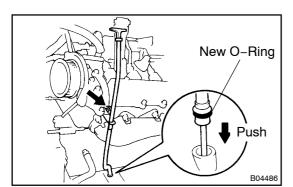
HINT:

Use bolts 14 mm (0.55 in.) in length

- 6. INSTALL CRANKSHAFT POSITION SENSOR (See page IG-14)
- 7. INSTALL OIL FILTER, OIL COOLER AND FILTER BRACKET ASSEMBLY
- (a) Install a new gasket to the oil filter bracket.
- (b) Install the oil filter, oil cooler and filter bracket assembly with the stud bolt, bolt and nut.

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

(c) Connect the oil pressure switch connector.



8. INSTALL OIL DIPSTICK AND DIPSTICK

- (a) Install a new O -ring to the dipstick guide.
- (b) Apply soapy water to the O -ring.
- (c) Push in the dipstick guide end into the guide hole of the No.1 oil pan.
- (d) Install dipstick guide with the bolt.

Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)

(e) Install the dipstick.

9. INSTALL CRANKSHAFT TIMING PULLEY

(See page EM-23)

- 10. INSTALL NO.1 IDLER PULLEY (See page EM-23)
- 11. INSTALL NO.2 IDLER PULLEY (See page EM-23)
- 12. INSTALL TIMING BELT (See page EM-23)