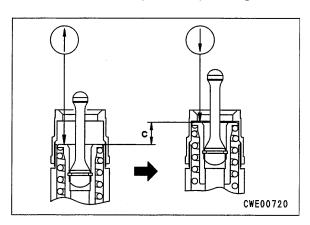
- 8) Crank the crankshaft and measure lift **c** of the plunger at the point where the deflection of the dial gauge is the maximum.
 - ★ Maximum lift c: 20.00 mm
 - ★ If the measurement is not within the standard value, adjust the injector again.



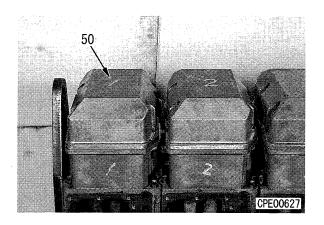
9) Repeat Steps 6) – 8) to check the injectors of each cylinder.

32. Cylinder head covers

Fit O-rings and install 6 cylinder head covers (50).

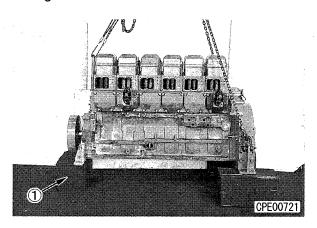
Skgm Mounting bolt:

 $9.8 \pm 1.0 \text{ Nm } \{1 \pm 0.1 \text{ kgm}\}$



33. Suction pipe, oil pan

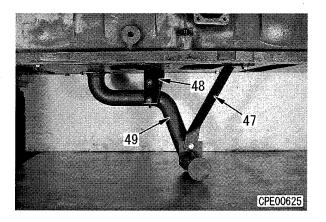
1) Sling engine assembly, set block ① under engine mount, then lower engine assembly again.



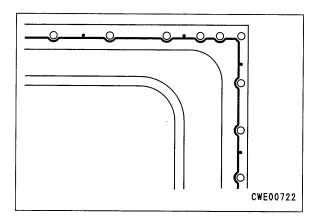
2) Fit O-ring and install suction tube (49), then install brackets (48) and (47).

✓ O-ring: Engine oil (EO30-CD)

- ★ Determine the position of the suction tube and brackets, then tighten the mounting bolts.
- ★ After installing the suction tube, remove all the temporary mounting bolts (inside, outside) of the underplate.

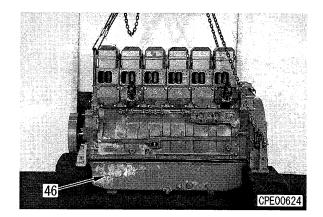


- 3) Coat oil pan with gasket sealant.
 - ✓ Oil pan: Gasket sealant (LG-7)
 - ★ Coat the gasket sealant as shown in the diagram with a line of width \$\phi 2 - 3\$ mm.



- Sling engine assembly again, set oil pan (46) under cylinder block, then lower engine assembly on top of block.
 - ★ The shape of the oil pan differs according to the machine it is mounted on.
- 5) Push oil pan (46) from under with jack, and install mounting bolts.

kg Oil pan: 70 kg



- 6) Install oil pressure sensor (45).
 - **Skgm** Oil pressure sensor:

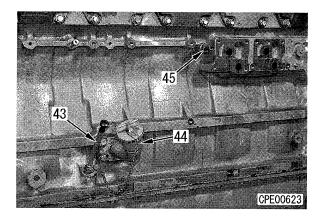
$13.4 \pm 0.8 \text{ Nm } \{1.37 \pm 0.08 \text{ kgm}\}$

- 7) Fit gasket and install oil filler tube (44).
 - ★ The shape of the oil filler tube differs according to the machine it is mounted on.
- 8) Install gauge tube (43) and insert dipstick.
 - ★ Push the gauge tube against the oil pan and tighten the sleeve nut.

Sleeve nut:

44.1 - 58.8 Nm {4.5 - 6 kgm}

★ The shape of the dipstick differs according to the machine it is mounted on.

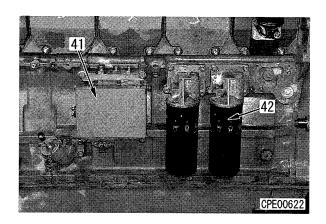


34. Oil filter assembly

Fit O-ring and install 2 oil filter assemblies (42).

35. ECVA & ECM

Install ECVA and ECM (41).



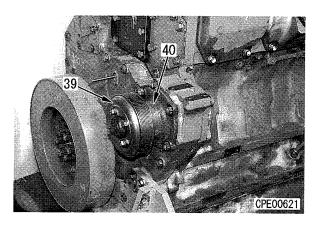
36. Fuel pump assembly

- 1) Fit gasket and install drive assembly (40).
- 2) Install pulley (39).

Skgm Mounting bolt:

59 – 74 Nm {6 – 7.5 kgm}

★ The shape of the pulley differs according to the machine it is mounted on.



3) Temporarily assemble bracket (38) and fuel pump assembly (37) to engine.

kg Fuel pump assembly: 20 kg

4) Tighten connecting bolt of bracket (38) and fuel pump assembly (37).

Skgm Connecting bolt:

98 - 122.5 Nm {10 - 12.5 kgm}

5) Push fuel pump assembly (37) against front and tighten mounting bolts of fuel pump.

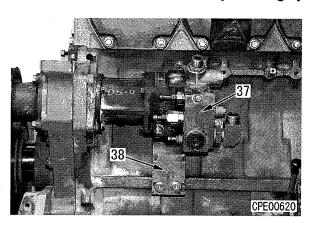
Skgm Mounting bolt:

58.8 - 73.5 Nm {6 - 7.5 kgm}

6) Tighten mounting bolts of bracket (38).

Skgm Mounting bolt:

58.8 - 73.5 Nm {6 - 7.5 kgm}



37. Intake manifold assembly

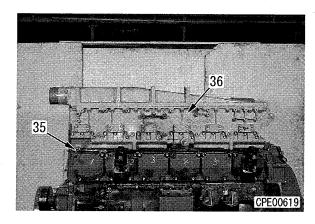
1) Raise intake manifold assembly (36) and install.

kg Intake manifold assembly: 110 kg

- ★ When tightening the mounting bolts, start in the center and move outwards on each side in turn.
- ★ The shape of the intake manifold differs according to the machine it is mounted on.
- 2) Install boost sensor (35).

Skgm Boost sensor:

 $13.4 \pm 0.8 \text{ Nm } \{1.37 \pm 0.08 \text{ kgm}\}$



3) Fit O-ring and install fuel rail tube (34).

5 kgm Eyebolt:

24.5 - 34.3 Nm {2.5 - 3.5 kgm}

Sleeve nut:

24 - 27 Nm {2.4 - 2.8 kgm}

4) Fit O-ring and install timing rail tube (33).

5 kgm Eyebolt:

34.3 - 44.1 Nm {3.5 - 4.5 kgm}

分kgm Sleeve nut:

43 – 47 Nm {4.4 – 4.8 kgm}

5) Fit O-ring and install fuel inlet tube (32).

Sleeve nut:

60 - 68 Nm {6.1 - 6.9 kgm}

