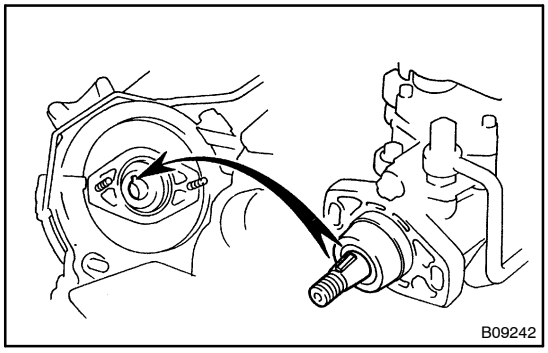
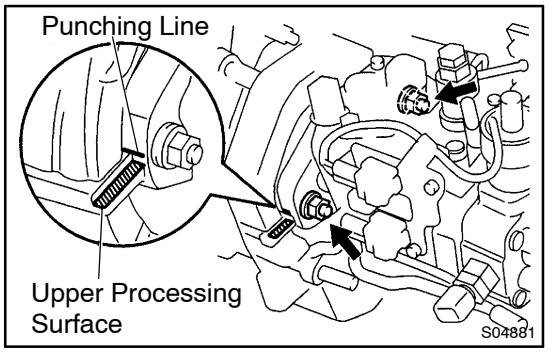
FU070–01

INSTALLATION

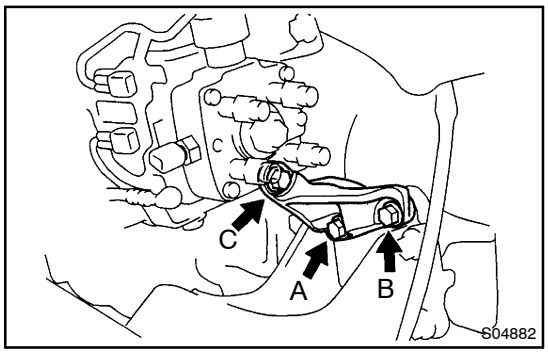


1. INSTALL INJECTION PUMP

(a) Install a new O–ring to the pump.
(b) Apply a light coat of engine oil on the O–ring.
(c) Align the set key on the drive shaft and groove of the injection pump drive gear.



(d) Hold the injection pump with hands and press the injection pump drive gear to the backward and weld it with the injection pump drive shaft.
(e) Align the punching line of the injection pump flange and the upper processing surface of the timing gear case, and then temporarily install the 2 nuts.
(f) Tighten the 2 nuts holding the injection pump to the timing gear case.
Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

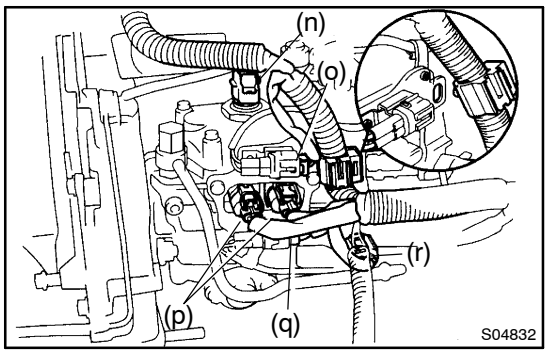


(g) Temporarily install the injection pump stay with the 2 bolts (A, B).
(h) Install the injection pump set C bolt.
Torque: 32 N·m (330 kgf·cm, 24 ft·lbf)
(i) Torque the A and B bolts.
Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

NOTICE:
Before tightening to the standard torque, check whether the pump stay is up against the injection pump.

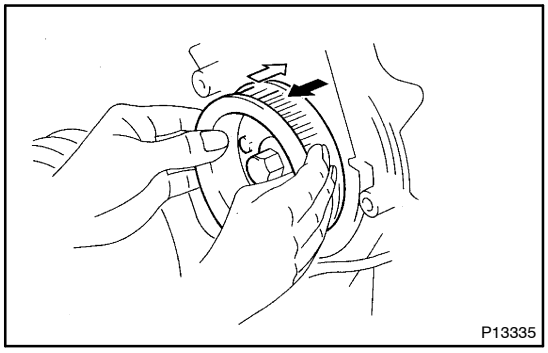
(j) Install the cylinder block insulator.
(k) Install a new O–ring to the injection pump drive gear.
(l) Install the injection pump drive gear set nut.
(m) Hold the crankshaft pulley, and torque the set nut.
Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)

NOTICE:
Do not turn the crankshaft pulley. The valve heads will hit against the piston top.



(n) Connect the engine speed sensor connector.
(o) Connect the spill control valve connector.
(p) Connect the 2 correction resistor connectors.
(q) Connect the timing control valve connector.
(r) Connect the fuel temperature sensor connector.
(s) Connect the engine wire clamp and fuel hose.

2. INSTALL NO.2 CAMSHAFT TIMING PULLEY (See page EM–18)



3. CHECK INJECTION PUMP DRIVE SHAFT THRUST CLEARANCE

Move the No.2 camshaft timing pulley back and forth to check that the injection pump drive shaft has sufficient thrust clearance.

Thrust clearance (Reference):
0.15 – 0.55 mm (0.0059 – 0.0217 in.)

If the thrust clearance is not sufficient, loosen the 2 injection pump nuts and the 3 pump stay bolts, than retighten them.
If the thrust clearance is still not sufficient, remove the timing gear cover and then reinstall it.

4. INSTALL TIMING BELT (See page EM–18)
5. INSTALL INJECTION PIPES (See page FU–13)
6. INSTALL INTAKE PIPE (See page EM–64)