COMMON RAIL ASSY (1KD–FTV)

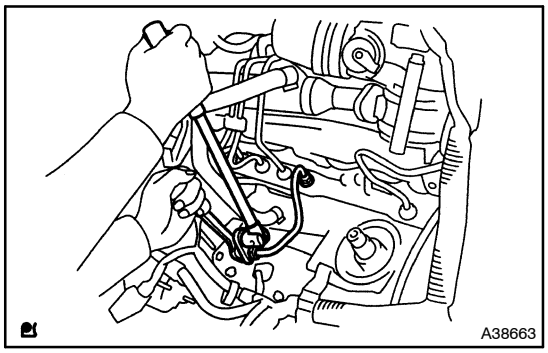
110LL–01

REPLACEMENT

NOTICE:

When removing the injection pipes and fuel inlet pipe, clean them up with a brush and compressed air.

1. **REMOVE INTERCOOLER PROTECTOR (See page 13–30)**
2. **REMOVE INTERCOOLER ASSY (See page 10–31)**
3. **REMOVE OIL FILTER SUB–ASSY (See page 17–79)**
4. **REMOVE CYLINDER HEAD COVER SUB–ASSY NO.2 (See page 14–223)**



5. REMOVE FUEL INLET PIPE SUB–ASSY

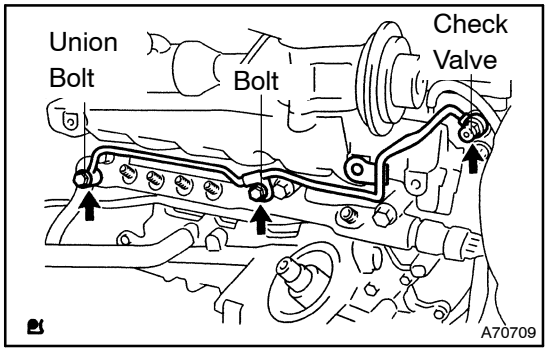
(a) Remove the fuel inlet pipe using SST.

SST 09023–12700

NOTICE:

After removing the fuel pipe, affix the gum tape on the pump, common rail, and the whole injector installation area of the cylinder head cover for preventing dust from coming into them.

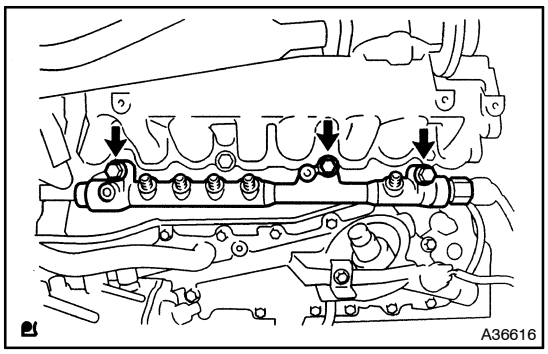
6. REMOVE INJECTION PIPE (See page 11–106)



7. REMOVE NOZZLE LEAKAGE PIPE ASSY NO.2

(a) Pull out the fuel hose.

(b) Remove the check valve, bolt and union bolt, before remove the nozzle leakage pipe assy No. 2.



8. REMOVE COMMON RAIL ASSY

(a) Pull out the fuel pressure sensor connector, and remove the 3 bolts.

(b) Remove the common rail.

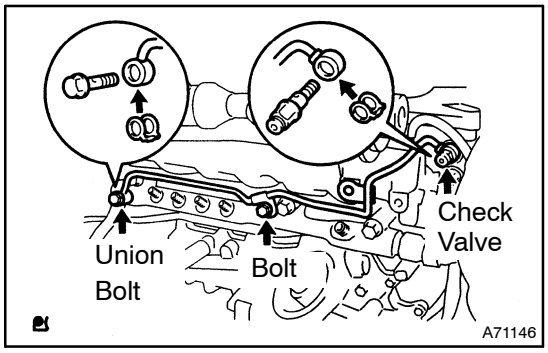
NOTICE:

- **Do not remove the pressure limiter.**
- **Do not reuse the fuel pressure sensor.**

9. INSTALL COMMON RAIL ASSY

(a) Install the common rail and tighten the bolts.
Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)

(b) Connect the fuel pressure sensor connector.



10. INSTALL NOZZLE LEAKAGE PIPE ASSY NO.2

(a) Catch an each ring of the union bolt, check valve and bolt in new gaskets before temporarily installing the nozzle leakage pipe assy No. 2.

(b) Once completed installing the nozzle leakage pipe, tighten the bolts in the specified torque.
Torque:
21 N·m (214 kgf·cm, 16 ft·lbf) for check valve
13 N·m (129 kgf·cm, 9 ft·lbf) for union bolt
13 N·m (129 kgf·cm, 9 ft·lbf) for bolt

(c) Connect the fuel hose.

11. INSTALL INJECTION PIPE (See page 11–106)

NOTICE:

- **Also, if the common rail is replaced, the injection pipe No. 1, No. 2, No. 3 and No. 4 should be replaced.**
- **Beware of sticking dusts, dirt or any other materials onto edges of the injection pipes.**

12. INSTALL FUEL INLET PIPE SUB–ASSY

NOTICE:

- **Also, the common rail is replaced, the fuel inlet pipe should be replaced.**
- **Beware of sticking dusts, dirt or any other materials onto edges of the fuel inlet pipe.**

(a) Temporarily install a new fuel inlet pipe before fix it.

(b) On the completion of the temporary install, tighten the bolt on the common rail side of the fuel inlet pipe first using SST, and tighten another bolt on the supply pump side likewise.
SST 09023–12700
Torque:
32 N·m (326 kgf·cm, 24 ft·lbf) for use with SST
35 N·m (357 kgf·cm, 26 ft·lbf)

13. INSTALL CYLINDER HEAD COVER SUB–ASSY NO.2 (See page 14–223)

14. INSTALL OIL FILTER SUB–ASSY (See page 17–79)

15. INSTALL INTERCOOLER ASSY (See page 10–31)

16. INSTALL INTERCOOLER PROTECTOR

(a) Install the intercooler protector with the 5 bolts.
Torque: 6.0 N·m (61 kgf·cm, 53 in.·lbf)

17. INSPECT ENGINE OIL LEVEL

18. CHECK FUEL LEAK (See page 11–101)