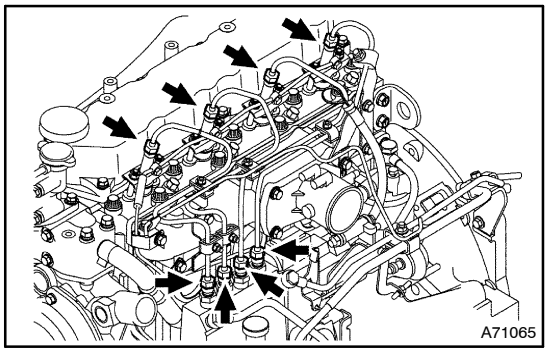
NOZZLE HOLDER AND NOZZLE SET (W04D–J)

110QS–01

REPLACEMENT

1. DISCONNECT BATTERY NEGATIVE TERMINAL

2. DRAIN FUEL

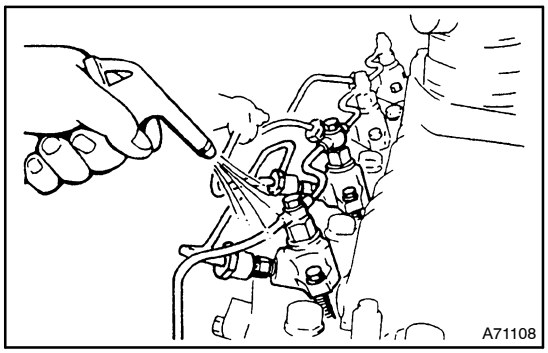


3. REMOVE INJECTION PIPE SET

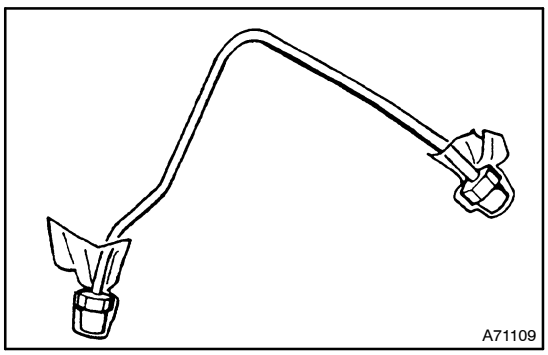
(a) Loosen the 4 union nuts from the 4 nozzle holders and nozzle set.

NOTICE:

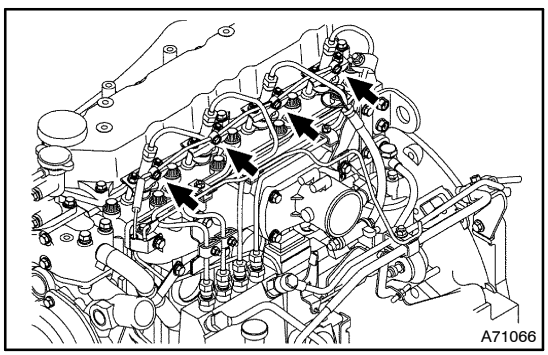
- **After removing the fuel pipe, affix the gum tape to the common rail for preventing dust.**
- **After removing the fuel pipe, put a vinyl bag and rubber band to prevent mixing foreign objects over the injectors inlet.**



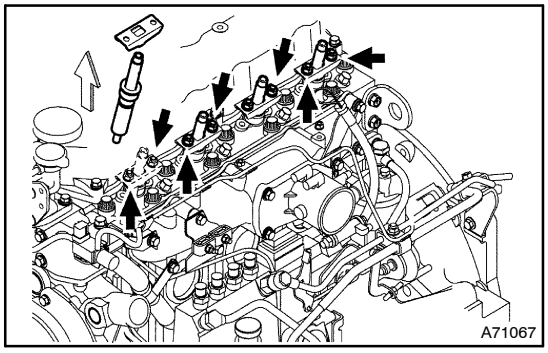
- **If foreign matter is allowed to enter the combustion chamber, engine trouble may result.**



- **Cover open ends of the pipes and fuel injection pump to prevent entry of dirt.**



(b) Remove the 4 joint bolts, fuel return pipe and 4 gaskets.



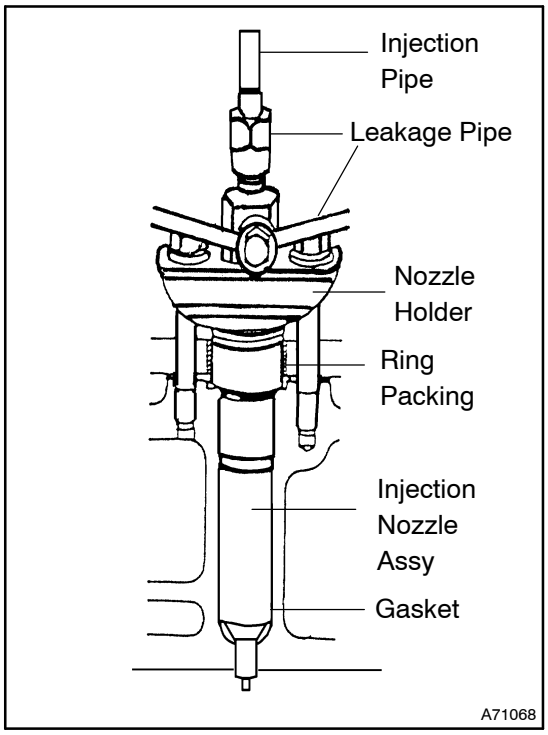
4. REMOVE NOZZLE HOLDER AND NOZZLE SET

(a) Remove the 8 bolts, 4 nozzle holder and 4 nozzle sets.

(b) Remove the 4 shims, 4 ring packings and 4 gaskets from the cylinder head.

NOTICE:

- **Start the operation after the fuel is cooled off because the fuel temperature in the injector return pipe right after driving the vehicle may be extremely high (approx. 100°C (212°F)).**
- **After removal of the nozzle holder, cover the nozzle holder with cloth. Also cover the cylinder head with a cloth to prevent dust from getting in.**



5. INSTALL NOZZLE HOLDER AND NOZZLE SET

(a) Install a new gasket, the packing ring and shim into the groove of the cylinder head, and then insert the nozzle holder and nozzle set.

NOTICE:

Apply engine oil to the O–ring , sob that the O–ring will not be caught.

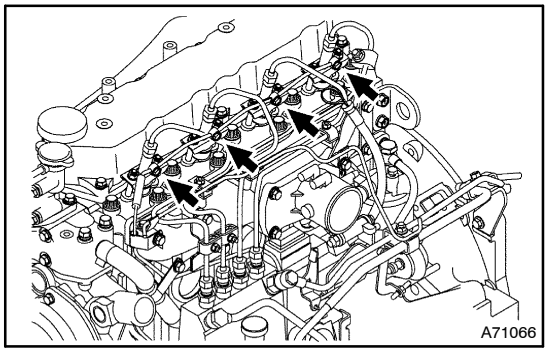
(b) Install the nozzle holder, and install the nozzle set temporarily.

NOTICE:

- **Do not fix the injector clamp before the injection pipe is temporarily installed.**
- **Be careful not to put excessive force to the injector when applying the injection pipe oil seal to it If the injection pipe oil seal and injector are moved even slightly, it may cause oil leakage or faulty assembling of the injection pipe.**

(c) Assemble the injection pipe temporarily, and tighten the installation bolt of the nozzle holder.

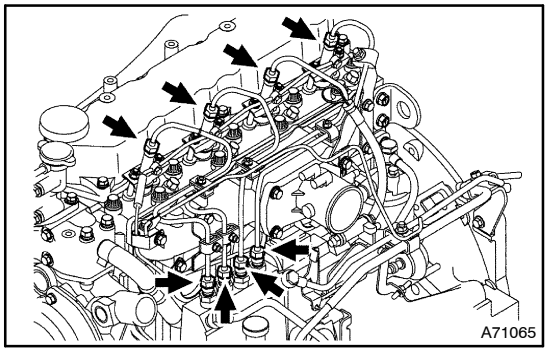
Torque: 15 N·m (150 kgf·cm, 11 ft·lbf)



6. INSTALL INJECTION PIPE SET

(a) Install 4 new gaskets and the leakage pipe with the 4 joint bolts.

Torque: 11.3 N·m (115 kgf·cm, 8 ft·lbf)



(b) Tighten the 4 union nuts to the 4 injection pipes.
Torque: 19.6 N·m (200 kgf·cm, 14.5 ft·lbf)

7. **ADD FUEL**
8. **BLEED FUEL (See page 11–177)**
9. **CONNECT BATTERY NEGATIVE TERMINAL**
10. **INSPECT FOR FUEL LEAKS**