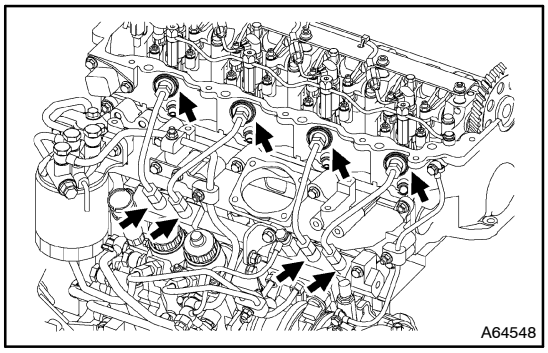
110DK–03

REPLACEMENT

1. DISCONNECT BATTERY NEGATIVE TERMINAL
2. DRAIN FUEL
3. DISCONNECT ENGINE WIRE
4. REMOVE CYLINDER HEAD COVER
5. REMOVE INTAKE AIR CONNECTOR



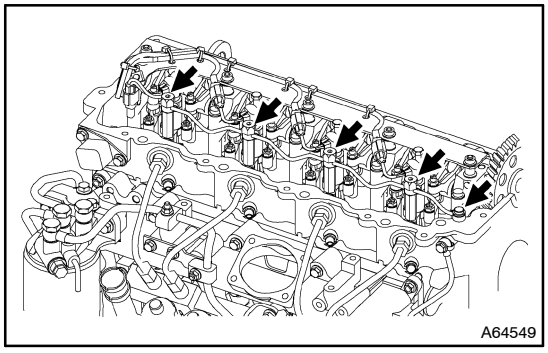
6. REMOVE INJECTION PIPE SET

(a) Loosen the 4 union nuts from the 4 injector.

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.**

7. REMOVE NOZZLE HOLDER SEAL



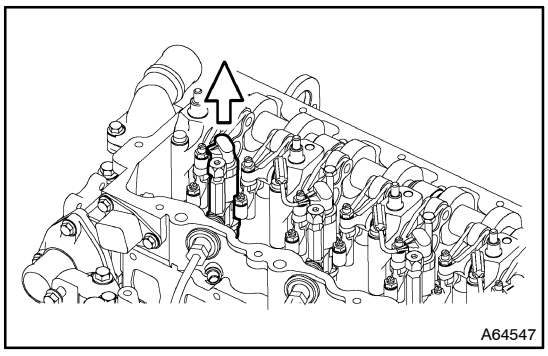
8. REMOVE NOZZLE LEAKAGE PIPE NO.1

(a) Remove the 5 joint bolts, fuel return pipe and 5 gaskets.

9. REMOVE INJECTOR HARNESS BRACKET

(a) Disconnect the injector connectors.

(b) Remove the 5 nuts and injector harness bracket.



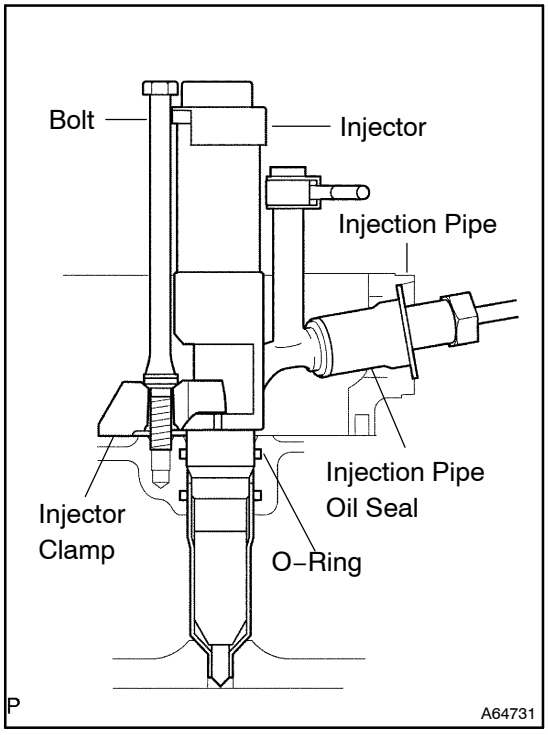
10. REMOVE INJECTOR ASSY

(a) Remove the 4 bolts, 4 injector clamps and 4 injectors.

(b) Remove the O–rings 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)).



11. INSTALL INJECTOR ASSY

(a) Install a new O–ring into the groove of the cylinder head, and then insert the injector.

NOTICE:

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

(b) Install the injector clamp, and install the injector temporarily.

NOTICE:

Do not fix the injector clamp before the injection pipe is temporarily installed.

(c) Cover the injector with a new injection pipe oil seal, and then install the plate and nut.

NOTICE:

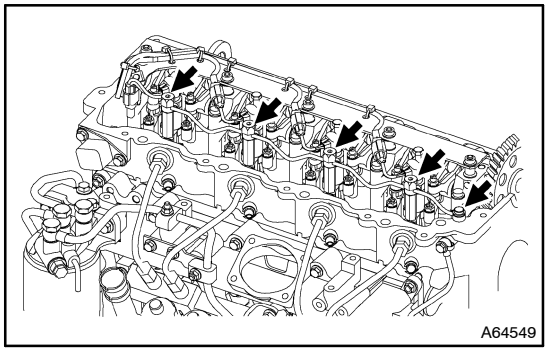
Be careful not to put excessive force to the injector when applying the injection pipe oil seal to it If the injection pipe oil seal and injector are moved even slightly, it may cause oil leakage or faulty assembling of the injection pipe.

(d) Assemble the injection pipe temporarily, and tighten the installation bolt of the injector clamp.
Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

12. INSTALL INJECTOR HARNESS BRACKET

(a) Install the injector harness bracket with the 5 nuts.

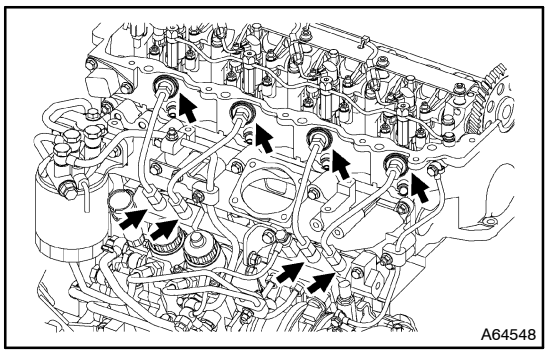
(b) Connect the connectors.



13. INSTALL NOZZLE LEAKAGE PIPE NO.1

(a) Install 5 new gaskets and the return pipe with the 5 joint bolts.
Torque: 12.3 N·m (125 kgf·cm, 9 ft·lbf)

14. INSTALL NOZZLE HOLDER SEAL



15. INSTALL INJECTION PIPE SET

(a) Tighten the 4 union nuts to the 4 injection pipes.
Torque: 44 N·m (450 kgf·cm, 32 ft·lbf)

16. INSTALL CYLINDER HEAD COVER
17. INSTALL INTAKE AIR CONNECTOR
18. INSTALL ENGINE WIRE
19. ADD FUEL
20. BLEED FUEL (See page 11–156)
21. INSTALL BATTERY NEGATIVE TERMINAL
22. INSPECT FOR FUEL LEAKS