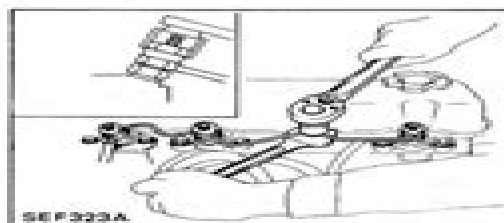


CHECKING ENGINE COMPRESSION PRESSURE

1. Warm up engine.
2. Remove following parts:
 - Injection tube on nozzle side
 - Spill tube assembly.

When removing spill tube, hold nut and nozzle to prevent it from breaking.



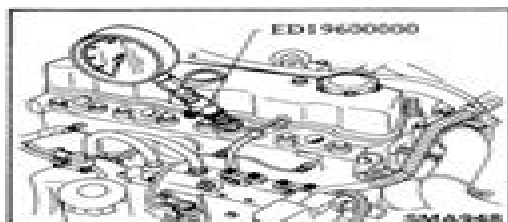
- Nozzle assemblies



- Nozzle gaskets

3. Fit compression gauge adapter to cylinder head. Make sure bleeder of gauge is closed.

① : Compression gauge adapter
76 - 78 N·m
(7.7 - 8.0 kg-m,
56 - 58 ft-lb)

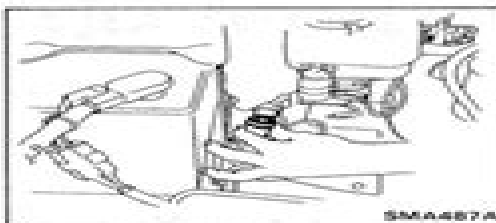


4. Set no fuel injected condition.

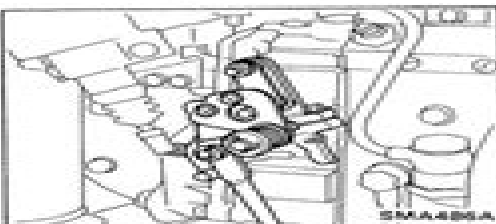
- In-line type

- (1) For model equipped with injection pump controller

- a. Disconnect harness connector between injection pump control unit (D.P.C.) and injection pump controller.

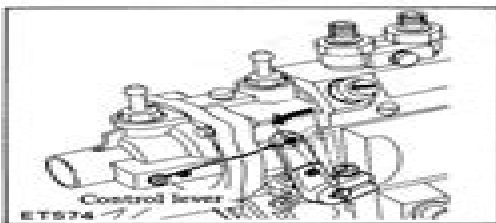


- b. Confirm that injection pump control lever stays in the stop position.

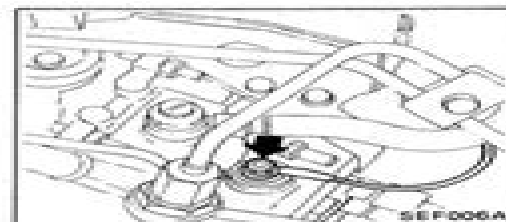


- (2) For model not equipped with injection pump controller

Set control lever of injection pump at zero injection.



- VE and C.A.V.-D.P.A. type
Disconnect or remove fuel cut solenoid wire.



5. Depress accelerator pedal fully and crank engine, then read gauge indication.

- Engine compression measurement should be made as quickly as possible.

Compression pressure:

Unit: kPa (bar, kg/cm², psi)/200 rpm

Standard	2,942 (29.4, 30, 427)
Minimum	2,452 (24.5, 25, 356)
Differential limit between cylinders	294 (2.9, 3, 43)

6. Remove compression gauge adapter and push bleeder. Make sure that bleeder is closed before attempting to check another cylinder.

If cylinder compression in one or more cylinders is low, pour a small quantity of engine oil into cylinders through the nozzle holes and retest compression.

- If adding oil helps the compression pressure, chances are that piston rings are worn or damaged.
- If pressure stays low, valve may be sticking or seating improperly.
- If cylinder compression in any two adjacent cylinders is low, and if adding oil does not help the compression, there is leakage past the gasketed surface.
Oil and water in combustion chambers can result from this problem.

7. Install following parts:

- Nozzle gaskets

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Thirumalaisamy P.
Velavancorresponding



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