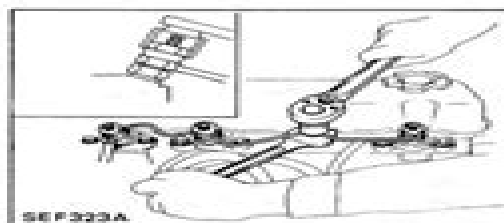


CHECKING ENGINE COMPRESSION PRESSURE

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.



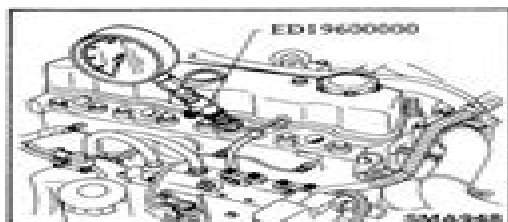
- Nozzle assemblies



- 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)

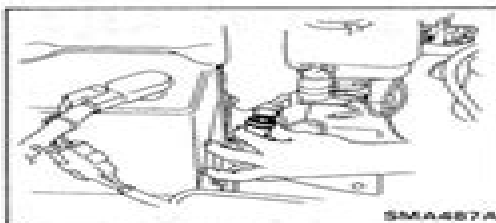


4. Set no fuel injected condition.

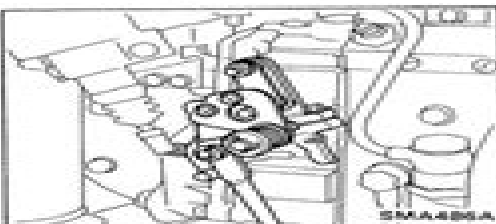
- In-line type

- (1) For model equipped with injection pump controller

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

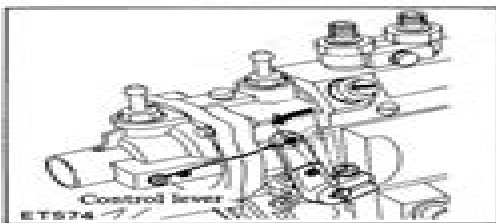


- b. Confirm that injection pump control lever stays in the stop position.

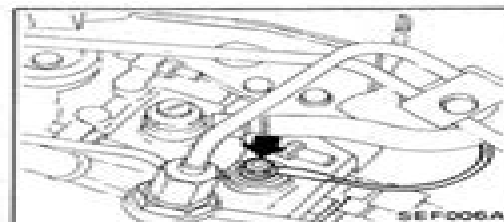


- (2) For model not equipped with injection pump controller

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, 42.7)
Minimum	2,452 (24.5, 25, 35.6)
Differential limit between cylinders	294 (2.9, 3, 4.3)

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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M Lipman



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1. Understanding the eBook Sd 23 Engine Workshop Manual
 - The Rise of Digital Reading Sd 23 Engine Workshop Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Sd 23 Engine Workshop Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sd 23 Engine Workshop Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sd 23 Engine Workshop Manual
 - Personalized Recommendations
 - Sd 23 Engine Workshop Manual User Reviews and Ratings
 - Sd 23 Engine Workshop Manual and Bestseller Lists
5. Accessing Sd 23 Engine Workshop Manual Free and Paid eBooks
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- Sd 23 Engine Workshop Manual Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Sd 23 Engine Workshop Manual Compatibility with Devices
 - Sd 23 Engine Workshop Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sd 23 Engine Workshop Manual
 - Highlighting and Note-Taking Sd 23 Engine Workshop Manual
 - Interactive Elements Sd 23 Engine Workshop Manual
- 8. Staying Engaged with Sd 23 Engine Workshop Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sd 23 Engine Workshop Manual
- 9. Balancing eBooks and Physical Books Sd 23 Engine Workshop Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sd 23 Engine Workshop Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sd 23 Engine Workshop Manual
 - Setting Reading Goals Sd 23 Engine Workshop Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sd 23 Engine Workshop Manual
 - Fact-Checking eBook Content of Sd 23 Engine Workshop Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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