Name\_\_\_\_\_

## SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

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1) What is wrong if a fuel injector measures 100 ohms of resistance?

2) What does an injector voltage drop test indicate?

3) List the steps necessary to test a fuel-pressure regulator.

4) Why would fuel injectors at the bends and ends of the fuel rail tend to become clogged?

5) List the ways fuel injectors can be tested.

## Answer Key Testname: AEEP8 SHORT40

- This resistance value is much higher than any fuel injector resistance specification. This high level of resistance would cause less than normal current to flow and the injector would not likely be able to open. Page Ref: 613
- 2) The voltage drop across each injector should be within 0.1 volt of each other. If an injector has a higher-than-normal voltage drop, the injector windings have

higher-than-normal resistance.

Page Ref: 615

3) To test a fuel pressure regulator, the following steps will be necessary.

Step #1 – Connect a fuel pressure gauge.

Step #2 – Start the engine and observe the fuel pressure.

Step #3 – Disconnect the vacuum line from the fuel pressure regulator and observe the pressure gauge. The pressure should increase about 10 psi.

Step #4 – Using a hand-operated vacuum pump, test to see that the fuel pressure regulator can hold vacuum. Step #5 – Replace the rubber vacuum hose with a clean hose and start the engine. Check to see if there is fuel flowing through the clean hose, which would indicate a leak in the fuel pressure regulator. Page Ref: 609

4) The fuel injectors at the end of the fuel rail or located at bends in the fuel rail tend to become clogged because the fuel tends to slow down at these points and any dirt or varnish in the fuel tends to fall and partially clog the injector filter basket.

Page Ref: 621

5) Fuel injectors can be tested for proper resistance, voltage drop, and pressure drop, as well as observed on a DSO for proper waveform, using both voltage and current. Page Ref: 613-616