

Automotive Technology 7th Edition
Chapter 78: Fuel-Injection System Diagnosis and Service
Short Answer Quiz

Name:

Date:

1. How do short-term and long-term fuel trims assist in diagnosing fuel system issues, and what are the ideal readings at idle and 3,000 RPM?

2. What steps should be taken to diagnose a potential problem if there is a significant pressure drop in the fuel system after reenergizing the electric fuel pump?

3. What is the significance of using the vehicle's own gasoline for fuel system service as opposed to shop gasoline?

4. Explain the process and purpose of flushing the fuel rail and upper fuel-injector screens, including the fuel-pressure regulator.

5. Describe the pulse-width modulated type of injector drive circuit and its significance for fuel control.

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6. What are the implications of a noid light that flashes dimly during an injector pulse test?

7. What does measuring the resistance of fuel injectors indicate and how should this test be conducted?

8. What are the possible causes for a noid light that is on but does not flash when the engine is cranked?

9. Discuss the purpose of the injector pressure-drop balance test and how it is performed.

10. What symptoms might indicate that the throttle plate needs to be cleaned, and how does this affect engine operation?