

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

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|---------------------------------------|---|-----------|
| 1. Noid Light | A. The power terminal on a standard automotive relay. | 1. _____ |
| 2. Pressure-Drop Balance Test | B. A method that uses a timing device to pulse injectors and then compares the resulting drop in fuel rail pressure to find uneven fuel delivery. | 2. _____ |
| 3. Injector Voltage-Drop Test | C. A low-resistance injector (1.5-4.0 ohms) that uses a high initial current to open and a lower current to remain open. | 3. _____ |
| 4. Peak-and-hold Injector | D. Components on a gasoline direct injection system that use a ball-fitting and must be replaced if removed, even temporarily. | 4. _____ |
| 5. Saturated Switch Injector | E. The injectors located at the bends and ends of the fuel rail, which are most susceptible to becoming restricted. | 5. _____ |
| 6. Fuel Volume Test | F. A check to confirm the amount of fuel the pump delivers, which is typically specified as one ounce per second. | 6. _____ |
| 7. Injector Tester | G. A procedure that pulses an injector while a multimeter measures the voltage drop across the windings as current is flowing. | 7. _____ |
| 8. GDI High-Pressure Lines | H. A tool that is plugged into an injector's harness connector and designed to flash if the circuit is working correctly. | 8. _____ |
| 9. Relay Terminal 30 | I. A machine that uses nonflammable test fluid to visually check an injector's delivered fuel amount and spray pattern. | 9. _____ |
| 10. Common Clogged Injector Locations | J. A high-resistance injector (12-16 ohms) that uses a constant low current until its magnetic field is strong enough to open it | 10. _____ |

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Answer Key

Answer Key:

1. H
2. B
3. G
4. C
5. J
6. F
7. I
8. D
9. A
10. E