

Name: _____ Date: _____

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

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|--|--|-----------|
| 1. Spark tester | A. Used to test resistance of primary and secondary coil windings. | 1. _____ |
| 2. Ohmmeter | B. Used to check for the presence of changing voltage (pulsed on and off or digital DC) while cranking the engine. | 2. _____ |
| 3. Magnetic sensor test | C. The leftmost vertical (upward) line on an oscilloscope pattern, indicating the voltage required to fire the spark plug. | 3. _____ |
| 4. Hall-effect sensor test | D. A tool that should be set to at least 25,000 volts and connected to a disconnected spark plug wire or coil to check for spark. | 4. _____ |
| 5. Visual inspection (ignition system) | E. The amount of time that current is charging the coil from the transistor-on point to the transistor-off point. | 5. _____ |
| 6. Water spray bottle test | F. The short horizontal line immediately after the firing line on an oscilloscope pattern, representing the voltage to maintain the spark. | 6. _____ |
| 7. Firing line | G. Checking all spark plug wires for proper routing, and ensuring they are clear of metallic objects. | 7. _____ |
| 8. Spark line | H. Used to find intermittent engine misfires caused by a break in a secondary ignition circuit, especially in damp weather conditions. | 8. _____ |
| 9. Intermediate oscillations | I. Also called "ringing" of the coil, these are "bumps" or oscillations that appear on the oscilloscope pattern after the spark has stopped. | 9. _____ |
| 10. Dwell section | J. Involves holding a metal (steel) object against the end of the sensor to check for strong magnetic pull. | 10. _____ |

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Chapter 69: Ignition System Diagnosis and Service
Matching Quiz
Answer Key

Answer Key:

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