

Automotive Technology 7th Edition
Chapter 37: Electrical Circuits and Ohm's Law
Matching Quiz

Name: _____ Date: _____

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

- | | | |
|---------------------|---|-----------|
| 1. Circuit | A. A complete path that electrons travel from a power source through a load and back. | 1. _____ |
| 2. Open Circuit | B. A circuit fault where there is an unintended connection to ground. | 2. _____ |
| 3. Short-to-Voltage | C. If a wire breaks or a switch is open. | 3. _____ |
| 4. Short-to-Ground | D. The relationship between voltage, current, and resistance. | 4. _____ |
| 5. Ohm's Law | E. This describes the relationship between power, voltage, and current. | 5. _____ |
| 6. Watt's Law | F. A unit of electrical power. | 6. _____ |
| 7. Watt | G. An electrical component that converts electrical energy into other forms. | 7. _____ |
| 8. Electrical Load | H. When a wire has an unintended connection to a power source. | 8. _____ |
| 9. Continuity | I. If 12 volts are applied to a 3-ohm resistance, 4 amperes will flow. | 9. _____ |
| 10. High Resistance | J. This can cause dim lights and slow motor operation. | 10. _____ |

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Answer Key

Answer Key:

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