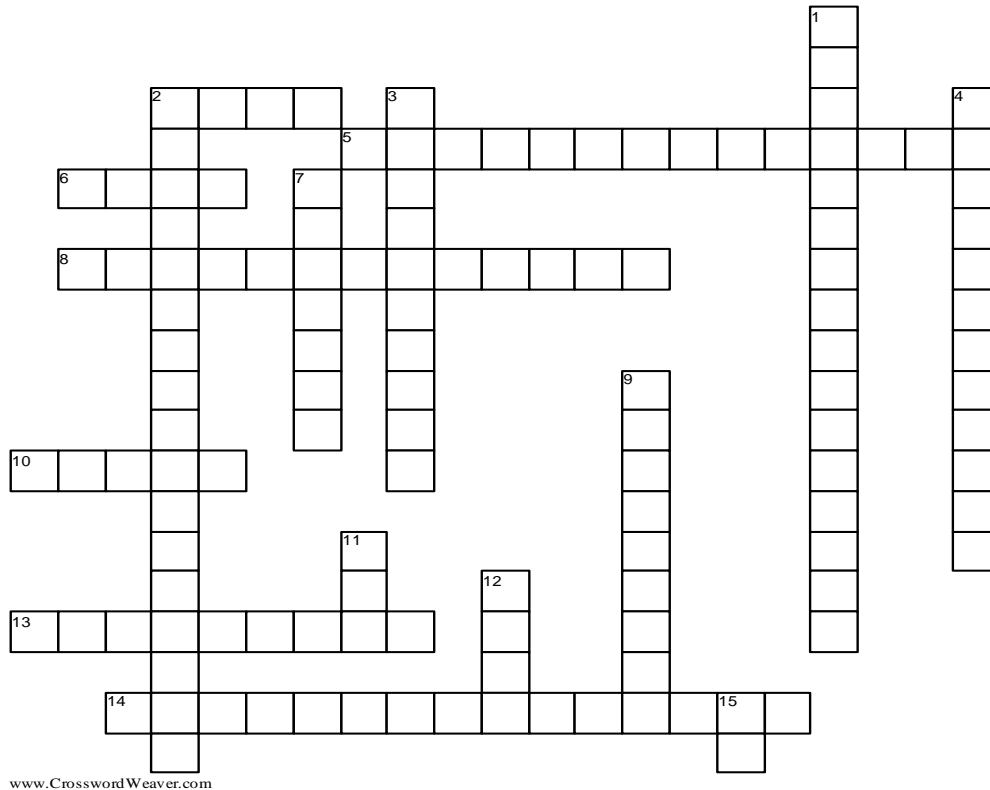


Advanced Engine Performance Diagnosis 8th Edition

Chapter 4

Circuit Testers and Digital Meters



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ACROSS

- 2 A term for a DMM, highlighting its function to measure volts and ohms (abbreviation).
- 5 A method used in some meters to accurately measure the true effective value of alternating current (AC) waveforms.
- 6 A prefix used to denote 1,000,000 units. For example, 1 megohm (M?) is 1,000,000 ohms.
- 8 Refers to how close the reading of a meter is to the actual value.
- 10 A prefix meaning 1/1,000 of a unit. For example, 1 millivolt (mV) is 0.001 volts.
- 13 High-_____ test meter is a meter with a high internal resistance (typically 10 megohms or more), which prevents drawing too much current from a circuit, making it suitable for measuring sensitive computer circuits.
- 14 Refers to how small or fine a measurement a meter can display.

DOWN

- 1 A device that measures current flow by detecting the magnetic field around a conductor, without direct electrical contact.
- 2 An electronic test tool used to measure voltage, current, and resistance. It has a high impedance, meaning it prevents excessive current draw during measurements, especially useful for testing sensitive electronic circuits.
- 3 A diagnostic tool used to test digital circuits. It can detect whether a circuit is in a high or low (on or off) state.
- 4 A test light that uses LEDs (light-emitting diodes) to indicate the presence of voltage in a circuit.
- 7 An AC/DC _____ DMM is a type of digital multimeter that can measure both AC and DC current without needing to break the circuit.
- 9 A simple diagnostic tool used to check for the presence of voltage in a circuit. It lights up when voltage is detected.
- 11 A global organization that sets international standards for electrical and electronic technologies (abbreviation).
- 12 A prefix that denotes 1,000 units. For example, 1 kilohm (k?) is 1,000 ohms.
- 15 A display reading on digital multimeters indicating that the resistance is too high to measure (the circuit is open) or the measured value exceeds the meter's capacity.