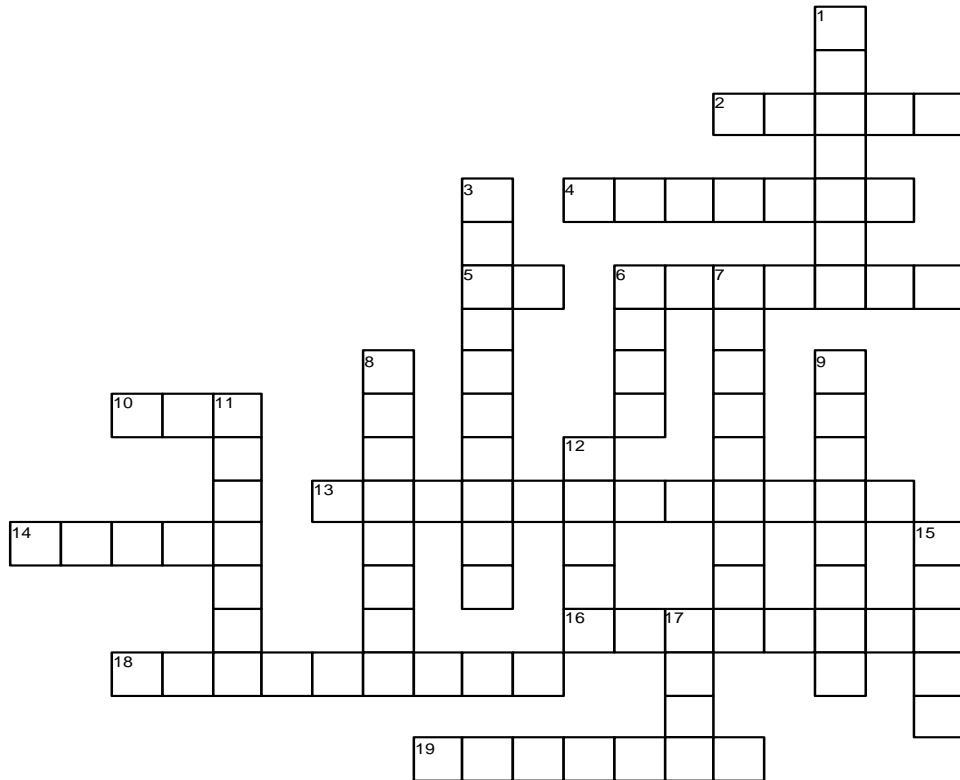


## Automotive Electrical and Engine Performance 9th Edition

### Chapter 6 - Digital Storage Oscilloscopes (DSOs)



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#### ACROSS

- 2 The unit of frequency, representing cycles per second.
- 4 \_\_\_\_\_ level: The voltage level that a signal must reach to start the display of a waveform on an oscilloscope.
- 5 \_\_ coupling: A setting on an oscilloscope that allows both the direct current (DC) and alternating current (AC) components of a signal to pass through.
- 6 \_\_\_\_\_ storage oscilloscope: A type of oscilloscope that captures, stores, and displays signals digitally for later analysis.
- 10 \_\_\_ connector: A type of coaxial connector used for connecting test equipment, including oscilloscopes, to various signal sources.
- 13 An electronic test instrument used to visualize and measure varying signal voltages over time.
- 14 Pulse \_\_\_\_: The duration of the active (on) state of a signal, measured in milliseconds.
- 16 \_\_\_\_\_ trigger: A triggering signal from an external source used to synchronize the display of a waveform on an oscilloscope.
- 18 The number of cycles a signal completes per second, measured in hertz (Hz).
- 19 A signal input on an oscilloscope that displays a waveform. Oscilloscopes may have multiple channels for comparing signals.

#### DOWN

- 1 \_\_\_\_\_ clamp: A device that measures electrical current without direct contact by sensing the magnetic field around a conductor.
- 3 (Pulse-width \_\_\_\_): A technique used to control power delivered to devices by varying the duty cycle of a pulse train.
- 6 \_\_\_\_\_ cycle: The percentage of time a signal is active (on) during a complete cycle, commonly used to measure signals like pulse-width modulation (PWM).
- 7 The grid pattern on an oscilloscope screen used as a reference for measuring time and voltage of displayed waveforms.
- 8 \_\_\_\_\_ transducer: A sensor that converts pressure into an electrical signal for measurement and monitoring.
- 9 AC \_\_\_\_; A setting on an oscilloscope that allows only the alternating current (AC) component of a signal to pass through, blocking any direct current (DC) offset.
- 11 \_\_\_\_\_ ray tube (CRT): A display technology used in older oscilloscopes for visualizing electrical signals on a screen.
- 12 Trigger \_\_\_\_: Determines whether an oscilloscope trigger occurs on the rising or falling edge of a signal.
- 15 \_\_\_\_\_ train: A series of electrical pulses in a waveform, used in signals such as ignition pulses or injector pulses.
- 17 \_\_\_\_\_ base: The horizontal scaling on an oscilloscope, used to adjust the time interval displayed per division.