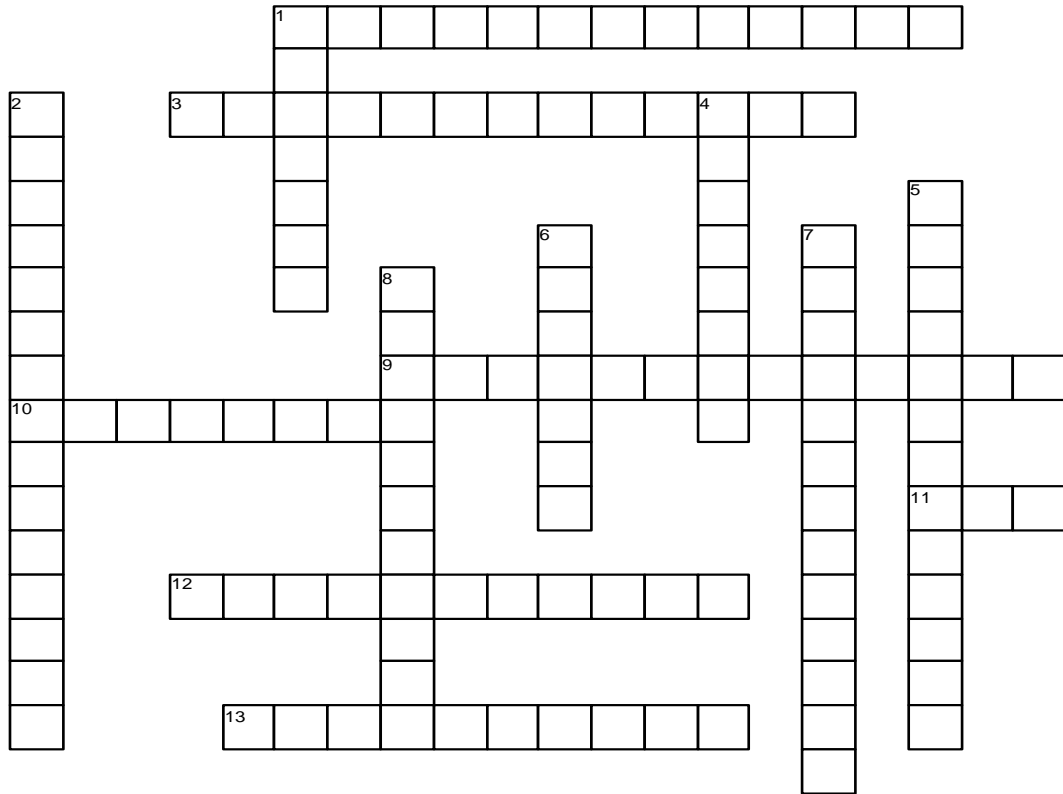


Starting and Charging Systems Diagnosis

Chapter 13



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ACROSS

- 1 The amount of AC current in amperes flowing from the alternator to the battery is called _____.
- 3 The acid used in an _____ mat battery is totally absorbed into the separator, making the battery leak-proof and spill proof.
- 9 Many automobile manufacturers use a _____ switch that opens the circuit between the ignition switch and the starter to prevent motor operation unless the gear selector is in neutral or park.
- 10 In an alternator, the _____ is a front ball bearing that is pressed into the front housing to provide the support and friction reduction necessary for the belt-driven rotor assembly.
- 11 Abbreviation for cold-cranking amperes.
- 12 _____-_____ is the drop in voltage that occurs when current is flowing through resistance.
- 13 The _____ is how many amperes can be discharged from the battery before dropping to 10.5 volts over a 20 hour period.

DOWN

- 1 The _____ capacity rating for batteries is the number of minutes for which a battery can produce 25 amperes and still have a battery voltage of 1.75 volts per cell (10.5 volts for a 12 volt battery).
- 2 An _____ battery is a flooded battery (not an absorbed glass mat battery) that is optimized to work with start/stop vehicle systems.
- 4 _____ voltage is the AC part of the DC charging voltage produced by the alternator.
- 5 If the _____-_____-_____ of a battery is low, it must be recharged.
- 6 The primary purpose of an automotive _____ is to provide a source of electrical power for starting and for electrical demands that exceed alternator output.
- 7 Another term for ignition off-draw (IOD).
- 8 A _____ tester uses its internal electronic circuitry to determine the state of charge and capacity of the battery by measuring the voltage and conductance of the plates.