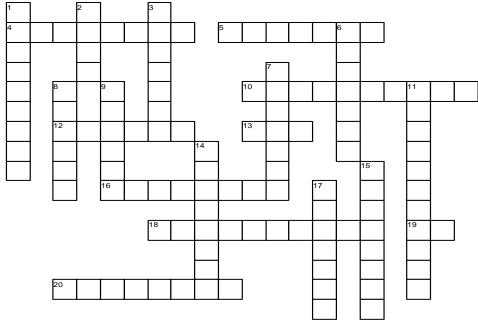


Advanced Engine Performance Diagnosis 8th Edition Chapter 11

Battery, Starting, and Charging, Diagnosis, and Stop-Start



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ACROSS

4	glass mat is a type of battery where the acid
	is absorbed into a glass mat separator, making the
	battery spill-proof and ideal for use in vehicles with stop-
	start systems.
5	Capacity: The amount of time a fully
	charged battery can supply 25 amps before the voltage $$
	drops below a specified level (10.5 volts for a 12-volt
	battery).
10	battery drain test: A test performed to detect
	any excessive parasitic drain from the battery when the
	vehicle is off, which could result in battery discharge.
12	current: The fluctuating current caused by the
	alternator's rectification process, which should be
	minimal in a properly functioning electrical system.
13	State-of-Charge abbreviation.
16	flooded Battery: A type of flooded battery that
	is designed to be more durable and suitable for use in
	stop-start vehicle systems.
18	The component responsible for generating electricity to
	charge the battery.
19	_ ripple voltage is the small AC voltage present on the
	battery terminals due to the rectifying action of the
	alternator. Excessive AC ripple voltage can indicate a
	faulty alternator.
20	amperes: The amount of current a battery
	can provide for cranking the engine at higher
	temperatures (abov e 0°F).

DOWN

1	load: The small electrical load present on the
	battery even when the vehicle is off.
2	cranking amperes: A measurement of a
	battery's ability to start an engine in cold temperatures.
3	safety switch: A safety feature that prevents
	the engine from starting unless the transmission is in
	neutral or park.
6	drop: The reduction in voltage across a
	component or conductor in the vehicle's electrical
	system.
7	lead-acid: A conventional type of battery that
	uses a liquid electrolyte.
8	Cranking is the part of the vehicle's electrical
	system responsible for supplying power to the starter
	motor to crank the engine.
9	hour: A measure of a battery's capacity. It
	indicates how many amps a battery can provide for one
	hour before its voltage drops below a specified level.
11	tester: A diagnostic tool used to test a
	battery's ability to conduct current, which helps
	determine its overall health and capacity.
14	off draw: Refers to the small current draw
	from the battery that occurs when the vehicle is off.
15	circuit: The electrical system responsible for
	maintaining the battery's charge while the vehicle is
	running, typically composed of the alternator, voltage
	regulator, and wiring.
17	A device that provides electrical power for starting the
	engine and other electrical demands that exceed the

alternator's output.