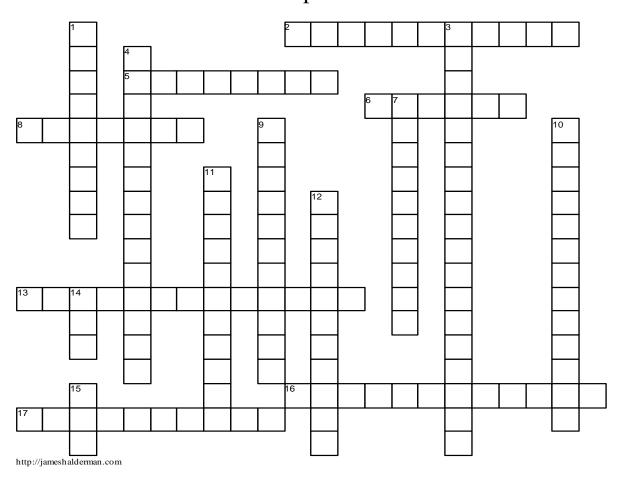
Low-Voltage Batteries and Stop/Start Micro Hybrids Chapter 9



ACROSS

2	Thebatter	y sensor is used to measure
	battery voltage, current, a	nd SOC.
5	One test to determine the condition of any 12-volt	
	battery is the	
6	hour is an older battery rating system that	
	measures how many amperes of current the battery can	
	produce over a period of time.	
8	The capacity ra	ating for batteries is the number
	of minutes for which the battery can produce 25	
	amperes and still have a battery voltage of 1.75 volts pe	
	cell (10.5 volts for a 12-volt battery).	
13	The mo	odule is responsible for
	controlling the electric portion of the powertrain.	
16	Thecont	rol module (TCM) monitors the
	range selector switch to	determine what gear the driver
	has selected.	
17	An mear	ns starting, lighting, and
	ignition, and describes th	e use of a typical automotive
	battery.	

DOWN

1	systems can be categorized as either mild		
	or micro hybrids based on their design and operating		
	voltage.		
3	The main feature of either design is the idle-stop mode,		
	in which the engine (ICE) is		
	stopped, rather than idling while stopped in traffic.		
4	An delivers a quick burst of energy		
	during peak power demands.		
7	A utilizes a stop-start system that operates		
	on a voltage that is greater than normal system voltage.		
9	The module (BCM) monitors the		
	operation of the climate control system as well as the		
	driver's door switch and driver's seat belt.		
10	The module (ECM) is responsible		
	for all engine control systems when the engine is		
	running.		
11	The battery will be either nickel metal		
	hydride or lithium-ion construction.		
12	A utilizes a stop-start system that		
	operates on a 12-volt system and does not contain any		
	high-voltage components.		
14	The belt alternator starter abbreviated system was		
	the most common early stop-start system.		
15	stands for Japanese Industrial Standard.		

