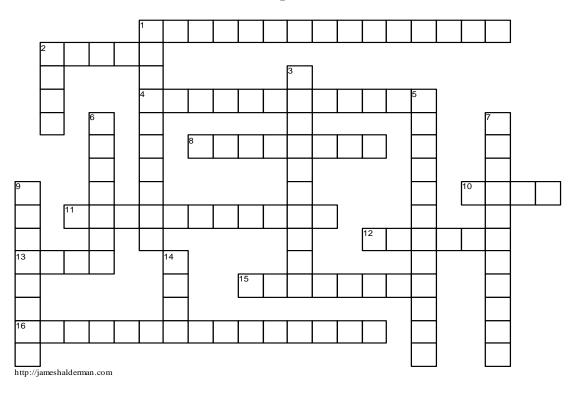
Parallel Circuits

Chapter 7



ACROSS

1 A _____ is a complete circuit that has more than one path for the current to flow. 2 The total resistance of a parallel circuit is always _____ than the smallest resistance in the leg of the circuit. 4 If _____ resistance is needed, Ohm's law can be used to calculate it because voltage and current are known. 8 The separate paths that split and meet at junction points are called ___ 10 A parallel circuit drops from source voltage to ____ (ground) across the resistance in each leg of the circuit. 11 The fractions cannot be added together unless they all have the same _____ 12 Another name for the separate paths that split and meet at junction points are _____ 13 Parallel circuits are used in ____ automotive applications. ____ is R1, and which is R2 is not 15 Which _ important.

16 The only place where electricity takes the path of

there are not other paths for the current to flow.

_____ is in a series circuit where

DOWN

1	When installing extra lighting, the technician
	must determine the proper gauge wire and
	device.
2	Another name for branches are
3	current law states: The current
	flowing into any junction of an electrical circuit is
	equal to the current flowing out of that junction.
5	The can be calculated first by
	treating each leg of the parallel circuit as a
	simple circuit.
6	Additional can flow when resistances
	are added in parallel, because each leg of a
	parallel circuit has its own power and ground and
	the current flowing through each leg is strictly
	dependent on the resistance of that leg.
7	Most circuits in vehicles are parallel circuits and
	each branch is connected to the 12 volt
	·
9	Electronic fuel injector and diesel engine glow
	plug circuits are two of the most
	tested circuits where parallel circuit knowledge is
	required.
14	There are basic methods that can be used
	to calculate the total resistance in a parallel
	circuit.

