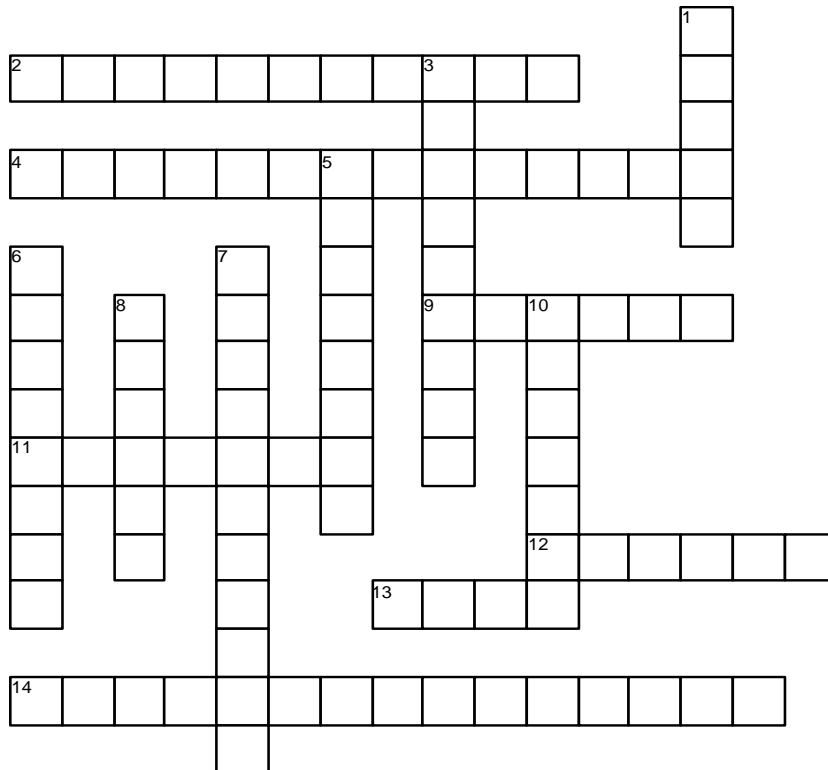


# Series-Parallel Circuits

## Chapter 8



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### ACROSS

- 2 If there are two loads or \_\_\_\_\_ in series within a parallel branch or leg, then the circuit can be made simpler if the two are first added together before attempting to solve the parallel section.
- 4 A \_\_\_\_\_-\_\_\_\_\_ circuits includes both parallel loads or resistances, plus additional loads or resistances that are electrically connected in series.
- 9 A headlight switch is usually connected in \_\_\_\_\_ with a dimmer switch and in parallel with the dash light dimmer resistors.
- 11 The key to solving series-parallel circuit problems is to \_\_\_\_\_ or simplify as much as possible.
- 12 A fault in a series portion of a series-parallel circuit would affect the \_\_\_\_\_ circuit operation if the series part was in the power side or the ground side of the parallel portion of the circuit.
- 13 There are two basic types of series-parallel circuits. One type is a circuit where the \_\_\_\_\_ is in series with other loads in parallel.
- 14 A series-parallel circuit may also be called a \_\_\_\_\_.

### DOWN

- 1 A \_\_\_\_\_ in one leg of a series-parallel circuit will affect just the component(s) in that one leg.
- 3 The added resistance, due to \_\_\_\_\_ or other similar cause, would create a voltage drop.
- 5 Added resistance can create a series-parallel circuit that was originally just a simple \_\_\_\_\_ circuit.
- 6 There are two basic types of series-parallel circuits. One type is a circuit where a parallel circuit contains resistors or loads, which are in series with one or more \_\_\_\_\_.
- 7 \_\_\_\_\_ circuit is another name for the series-parallel circuit.
- 8 If added resistance occurred in a part of the circuit that fed both taillights, then both taillights would be \_\_\_\_\_ than normal.
- 10 If a conventional parallel circuit, such as a taillight circuit, had an electrical fault that increased the resistance in one branch of the circuit, then the amount of current flow through that branch will be \_\_\_\_\_.