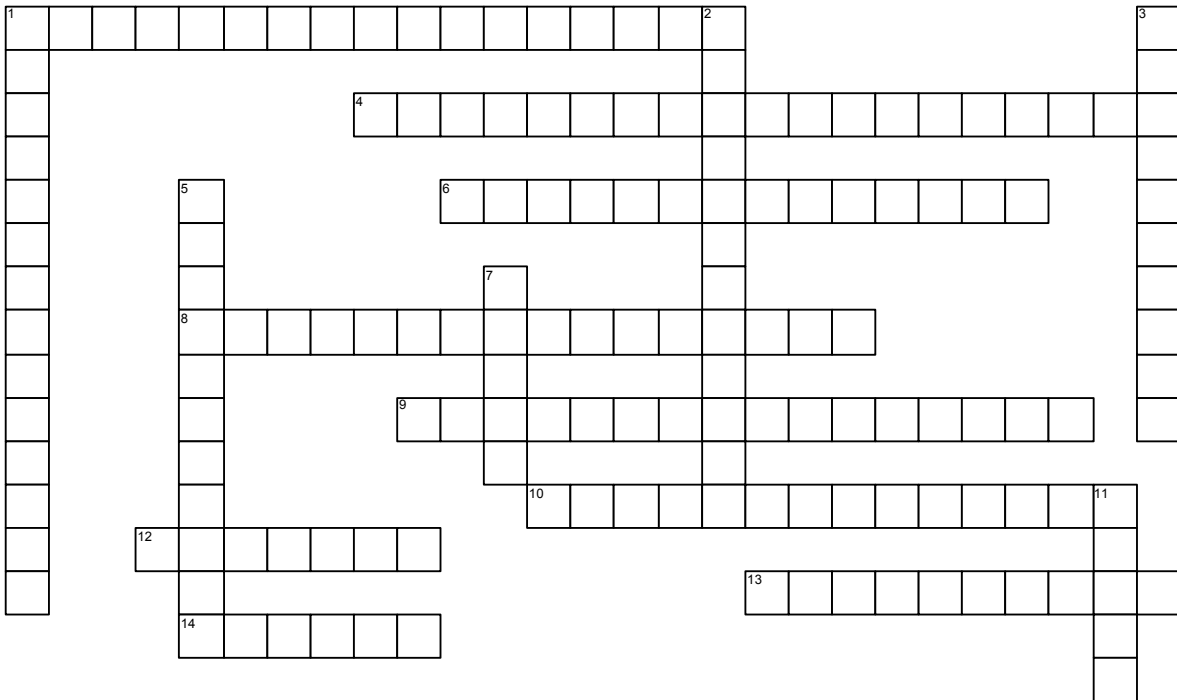


# Horn, Wiper, And Blower Motor Circuits

## Chapter 58



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### ACROSS

- 1 A momentary contact switch, which is often part of a steering column-mounted \_\_\_\_\_ assembly, energizes the washer pump.
- 4 The \_\_\_\_\_ - \_\_\_\_\_ use an electronic circuit with a variable resistor that controls the time of the charge and discharge of a capacitor.
- 6 A typical combination wiper and washer system includes a \_\_\_\_\_.
- 8 The \_\_\_\_\_ - \_\_\_\_\_ is where one speed of a special two-speed electric motor is achieved for windshield wiper motors.
- 9 \_\_\_\_\_ are used to keep the viewing area of the windshield clear of rain.
- 10 \_\_\_\_\_ systems use a sensor located at the top of the windshield on the inside to detect rain droplets.
- 12 The \_\_\_\_\_ has an additional linkage arm to provide depressed parking for hidden wipers.
- 13 The \_\_\_\_\_ is where one speed of a special two-speed electric motor is achieved for windshield wiper motors.
- 14 Without a horn relay, the high current of the horns must flow through the steering wheel horn \_\_\_\_\_.

### DOWN

- 1 The first step in \_\_\_\_\_ is to make sure the fuse or fusible link is good before attempting to troubleshoot the circuit.
- 2 Depressed wipers is another name for \_\_\_\_\_.
- 3 Most vehicles use a positive-displacement or centrifugal-type \_\_\_\_\_ located in the washer reservoir.
- 5 Another name for variable-delay wipers is \_\_\_\_\_.
- 7 \_\_\_\_\_ are electric devices that emit a loud sound used to alert other drivers or persons in the area.
- 11 Most vehicles use a horn \_\_\_\_\_ to control the horn circuit.