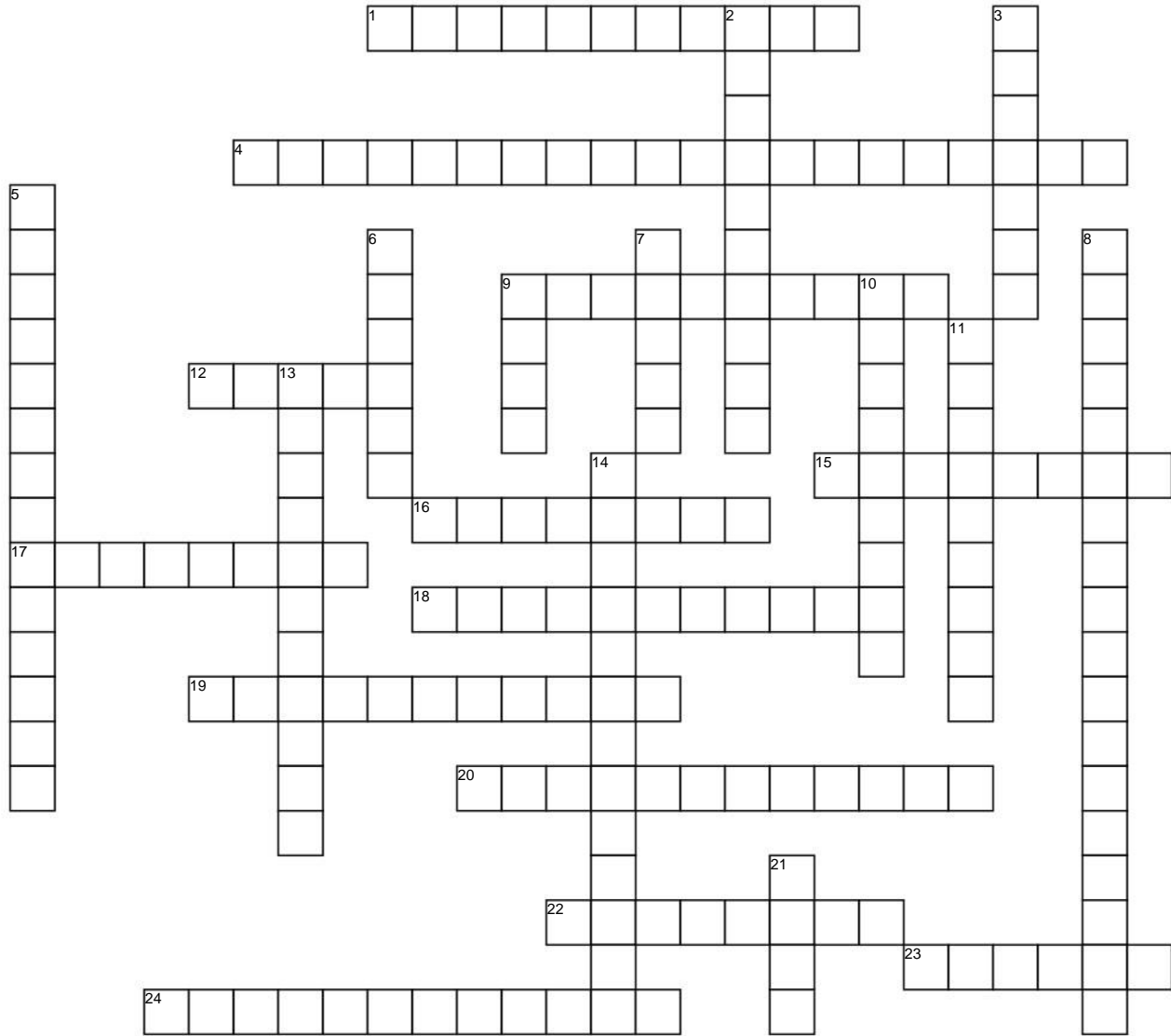


# Tires And Wheels

## Chapter 3



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### ACROSS

- 1 \_\_\_\_\_ is the distance between the back rim edge and the wheel center section mounting pad.
- 4 \_\_\_\_\_ tires reduce roll
- 9 On four-lug axles and wheels, the \_\_\_\_\_ measurement is simply taken from center to center on opposite studs or holes.
- 12 \_\_\_\_\_ refers to the part of the tire that contacts the ground.
- 15 The \_\_\_\_\_ is the part of the tire between the tread and the wheel.
- 16 Tire \_\_\_\_\_ can occur during the construction of any radial or belted tire when the parts of the tire are badly positioned, causing the tire to be smaller in diameter on one side.
- 17 When tread depth is down to the legal limit of 2/32 in., bald strips called \_\_\_\_\_ appear across the tread.
- 18 The point where the majority of these overlaps occur is called the \_\_\_\_\_, which represents the stiffest part of the tire.
- 19 The \_\_\_\_\_ requirements include resistance to tire damage that could be caused by curbs, chuckholes, and other common occurrences for a tire used on public roads.
- 20 \_\_\_\_\_ is when trapped water causes the tires to ride up on a layer of water and lose contact with the ground.
- 22 \_\_\_\_\_ is another term that describes a slight pulling force on a vehicle due to tire construction.
- 23 \_\_\_\_\_ is a very important variable in wheel design.
- 24 \_\_\_\_\_ are designed to operate without any air for a limited distance.

### DOWN

- 2 The \_\_\_\_\_ is the soft rubber lining on the inside of the tire that protects the body plies and helps provide for self-sealing of small punctures.
- 3 \_\_\_\_\_ are used to hold a wheel to the brake disc, brake drum, or wheel bearing assembly.
- 5 The wheel and tire are \_\_\_\_\_ because they are not supported by the vehicle's springs.
- 6 The \_\_\_\_\_ is another name for the center section of a wheel.
- 7 The US DOT and the NHTSA developed a system of tire grading, the \_\_\_\_\_, to help customers better judge the relative performance of tires.
- 8 \_\_\_\_\_ for light trucks are designed to give improved off-road performance on sand, mud, and soft soil and still provide acceptable hard-road surface performance.
- 9 The \_\_\_\_\_ is the foundation of the tire and is located where the tire grips the inside of the wheel rim.
- 10 The \_\_\_\_\_ is an abbreviated method to indicate the load-carrying capabilities of a tire.
- 11 After the tire has been assembled by the tire builder, it is called a \_\_\_\_\_.
- 13 The \_\_\_\_\_, designed for use on electric or hybrid vehicles, operates at higher inflation pressures, reduced load percentages, and lower rolling resistance.
- 14 All tires use a tire valve, called a \_\_\_\_\_, to hold air in the tire.
- 21 A tire \_\_\_\_\_ is two or more layers of material applied over the body plies and under the tread only, to stabilize the tread and increase tread life and handling.