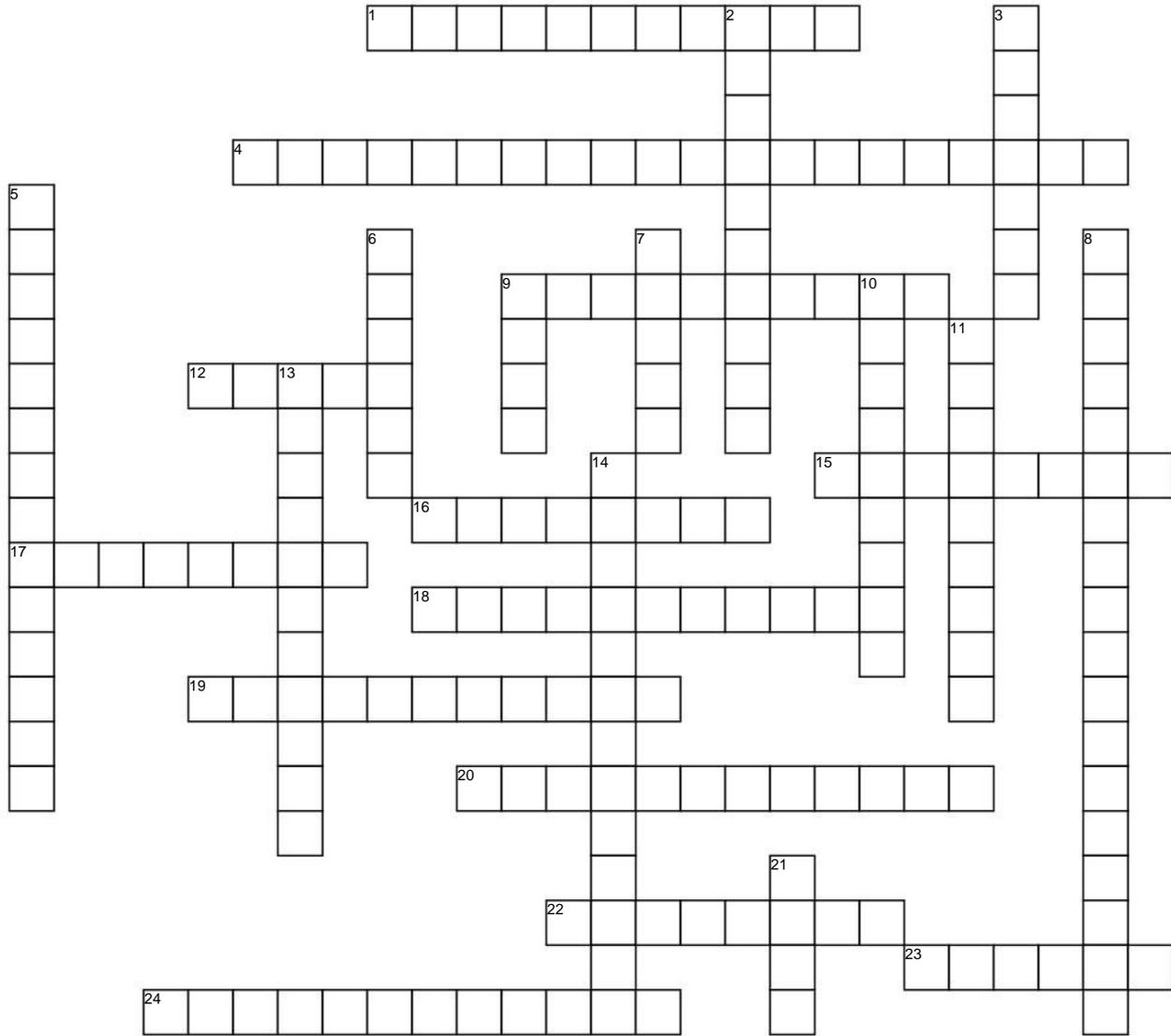


Tires And Wheels

Chapter 21



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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.