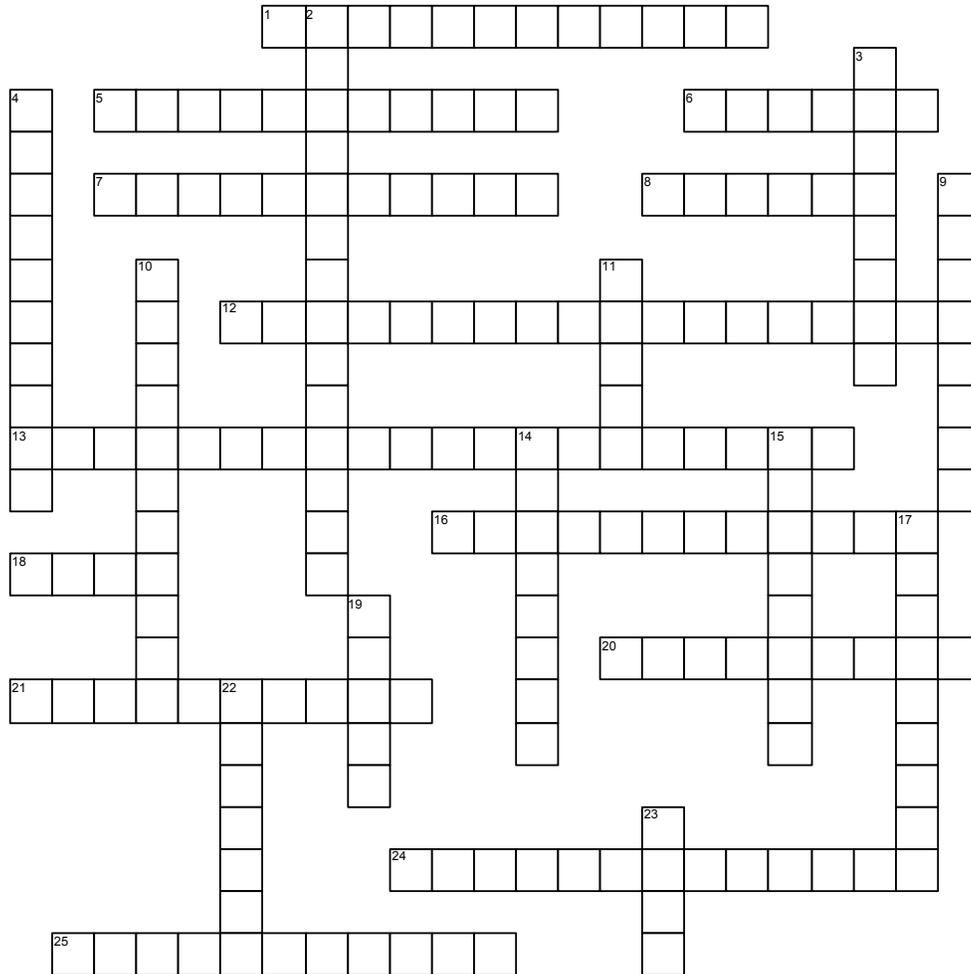


Tires And Wheels

Chapter 45



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ACROSS

- 1 _____ are designed to operate without any air for a limited distance.
- 5 The point where the majority of these overlaps occur is called the _____, which represents the stiffest part of the tire.
- 6 _____ is a very important variable in wheel design.
- 7 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.
- 8 The _____ is another name for the center section of a wheel.
- 12 _____ 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.
- 13 _____ tires reduce roll
- 16 _____ is when trapped water causes the tires to ride up on a layer of water and lose contact with the ground.
- 18 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.
- 20 The _____ is an abbreviated method to indicate the load-carrying capabilities of a tire.
- 21 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.
- 24 All tires use a tire valve, called a _____, to hold air in the tire.
- 25 _____ is the distance between the back rim edge and the wheel center section mounting pad.

DOWN

- 2 The wheel and tire are _____ because they are not supported by the vehicle's springs.
- 3 When tread depth is down to the legal limit of 2/32 in., bald strips called _____ appear across the tread.
- 4 On four-lug axes and wheels, the _____ measurement is simply taken from center to center on opposite studs or holes.
- 9 _____ is another term that describes a slight pulling force on a vehicle due to tire construction.
- 10 The _____, designed for use on electric or hybrid vehicles, operates at higher inflation pressures, reduced load percentages, and lower rolling resistance.
- 11 The US DOT and the NHTSA developed a system of tire grading, the _____, to help customers better judge the relative performance of tires.
- 14 The _____ is the part of the tire between the tread and the wheel.
- 15 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 After the tire has been assembled by the tire builder, it is called a _____.
- 19 _____ refers to the part of the tire that contacts the ground.
- 22 _____ are used to hold a wheel to the brake disc, brake drum, or wheel bearing assembly.
- 23 The _____ is the foundation of the tire and is located where the tire grips the inside of the wheel rim.