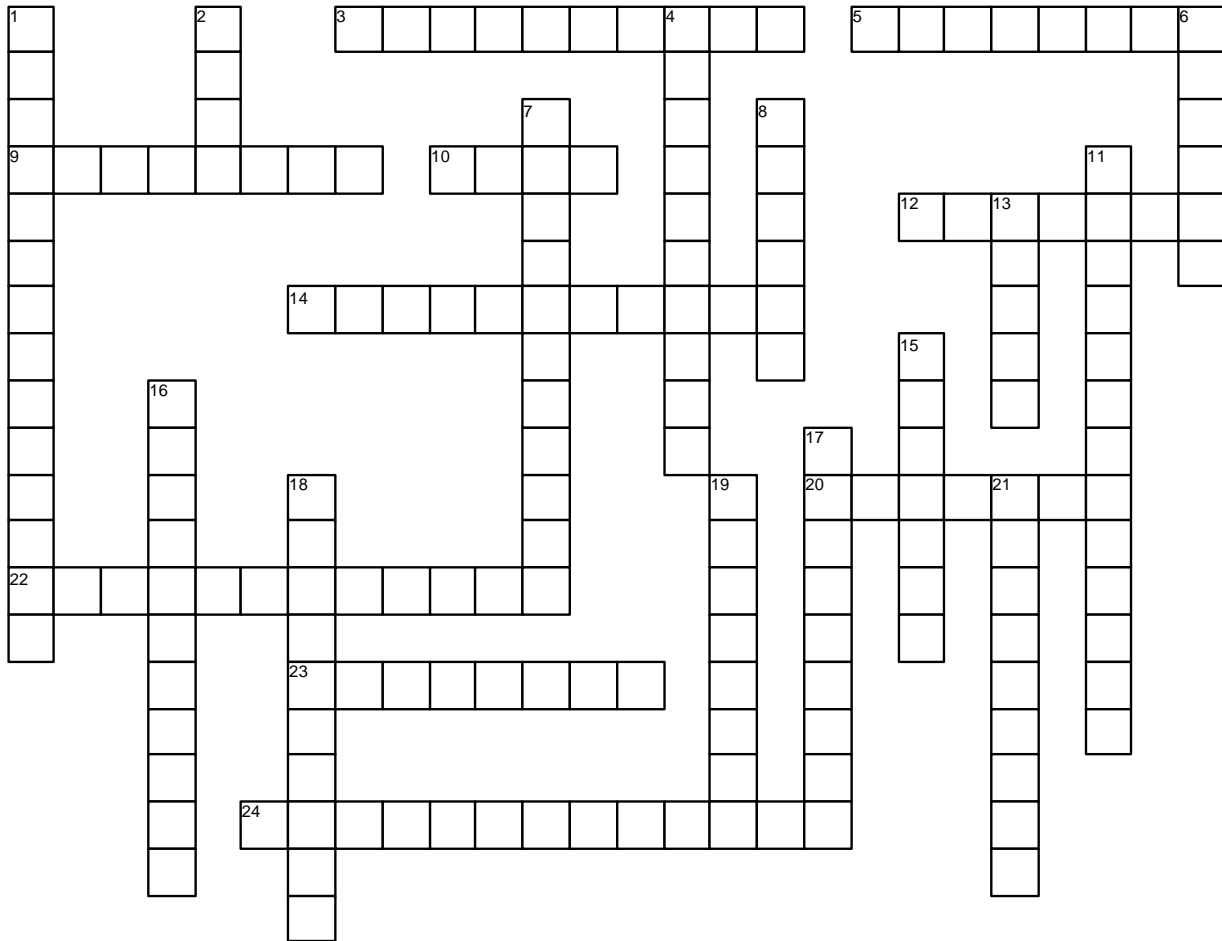


# Tires And Wheels

## Chapter 22



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### ACROSS

- 3 \_\_\_\_-\_\_\_\_\_-resistance tires reduce roll
- 5 When tread depth is down to the legal limit of 2/32 in., bald strips called \_\_\_\_\_ appear across the tread.
- 9 \_\_\_\_\_ is another term that describes a slight pulling force on a vehicle due to tire construction.
- 10 The \_\_\_\_\_ is the foundation of the tire and is located where the tire grips the inside of the wheel rim.
- 12 The \_\_\_\_\_ code requirements include resistance to tire damage that could be caused by curbs, chuckholes, and other common occurrences for a tire used on public roads.
- 14 The point where the majority of these overlaps occur is called the \_\_\_\_\_, which represents the stiffest part of the tire.
- 20 \_\_\_\_-\_\_\_\_ tires are designed to operate without any air for a limited distance.
- 22 \_\_\_\_\_ is when trapped water causes the tires to ride up on a layer of water and lose contact with the ground.
- 23 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.
- 24 All tires use a tire valve, called a \_\_\_\_\_, to hold air in the tire.

### DOWN

- 1 The wheel and tire are \_\_\_\_\_ because they are not

supported by the vehicle's springs.

- 2 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.
- 4 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.
- 6 The \_\_\_\_\_ is another name for the center section of a wheel.
- 7 \_\_\_\_\_ is the distance between the back rim edge and the wheel center section mounting pad.
- 8 \_\_\_\_\_ is a very important variable in wheel design.
- 11 \_\_\_\_-\_\_\_\_ tires 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 \_\_\_\_\_ refers to the part of the tire that contacts the ground.
- 15 \_\_\_\_\_ are used to hold a wheel to the brake disc, brake drum, or wheel bearing assembly.
- 16 The \_\_\_\_-\_\_\_\_\_, designed for use on electric or hybrid vehicles, operates at higher inflation pressures, reduced load percentages, and lower rolling resistance.
- 17 After the tire has been assembled by the tire builder, it is called a \_\_\_\_\_.
- 18 On four-lug axles and wheels, the \_\_\_\_\_ measurement is simply taken from center to center on opposite studs or holes.
- 19 The \_\_\_\_\_ is the part of the tire between the tread and the wheel.
- 21 The \_\_\_\_\_ is an abbreviated method to indicate the load-carrying capabilities of a tire.