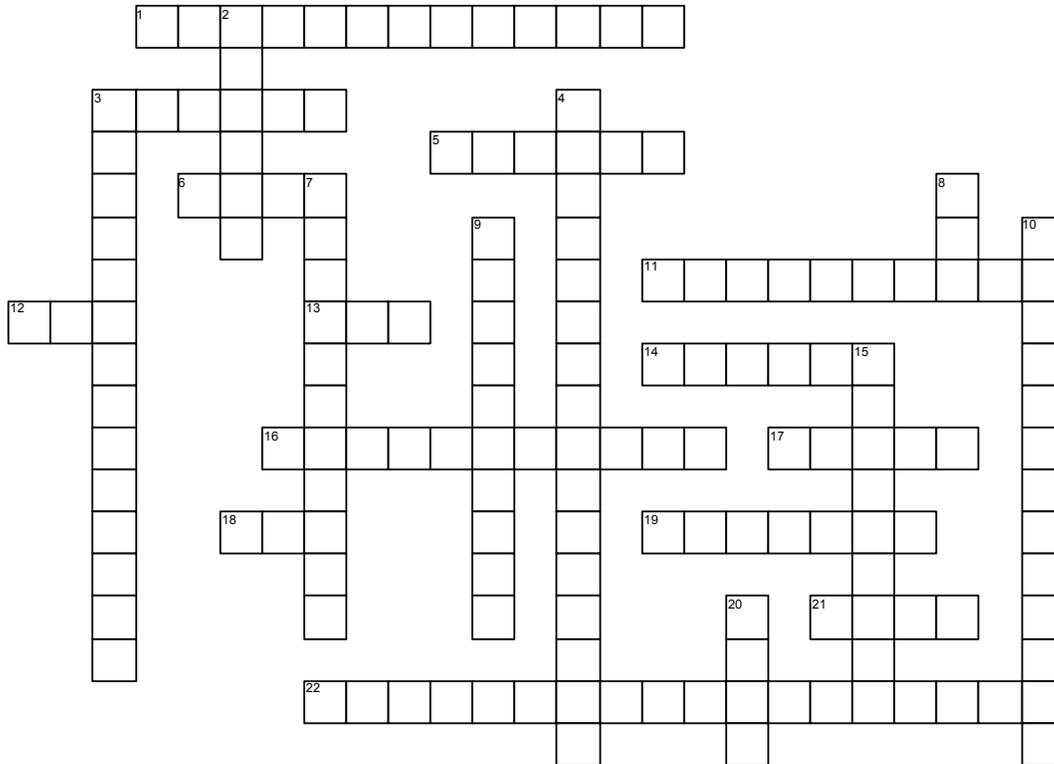


Wheel Alignment Principles

Chapter 119



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ACROSS

- 1 The _____ is the SAI added to the camber reading of the front wheels only.
- 3 _____ is a back-and-forth vibration that can be caused by an out-of-balance tire or defective wheel or by an alignment problem.
- 5 _____ is the forward or rearward tilt of the steering axis in reference to a vertical line as viewed from the side of the vehicle.
- 6 A _____ is a minor pull that does not cause a force on the steering wheel that the driver must counteract.
- 11 The direction the rear wheels are pointed is called the _____.
- 12 _____ is the imaginary line drawn through the kingpin as viewed from the front.
- 13 _____ is the difference in distance between the front and rear of the tires.
- 14 A _____ is a condition where constant steering wheel corrections

are necessary to maintain a straight-ahead direction on a straight, level road.

- 16 _____ refers to the distance between the line through the steering axis and the centerline of the wheel at the contact point with the road surface.
- 17 _____ is a vertical-type vibration usually caused by out-of-balance or defective tires or wheels.
- 18 _____ is the inward tilt of the steering axis.
- 19 _____ is the angle formed by a line drawn perpendicular to the front axles.
- 21 _____ is determined by the angle of the steering knuckle arms.
- 22 _____ refers to the checking and/or adjustment of all four wheels.

DOWN

- 2 _____ is the inward or outward tilt of the wheels from true vertical as viewed from the front or rear of the

vehicle.

- 3 Some manufacturers refer to scrub radius as _____.
- 4 A _____ is used on many pickup trucks, SUVs, and many luxury vehicles designed with a high-positive-caster setting.
- 7 If the vehicle has been involved in an accident, it is possible that the frame or rear axle mounting could cause _____.
- 8 _____ is another name for SAI if SLA-type suspension is used.
- 9 Positive caster causes changes in camber during a turn, this condition is called _____.
- 10 Positive caster will help with steering wheel _____ after a turn.
- 15 On a two-lane road, the center of the road is often higher than the berms, resulting in a _____.
- 20 A _____ is generally defined as a definite tug on the steering wheel toward the left or the right while driving straight on a level road.