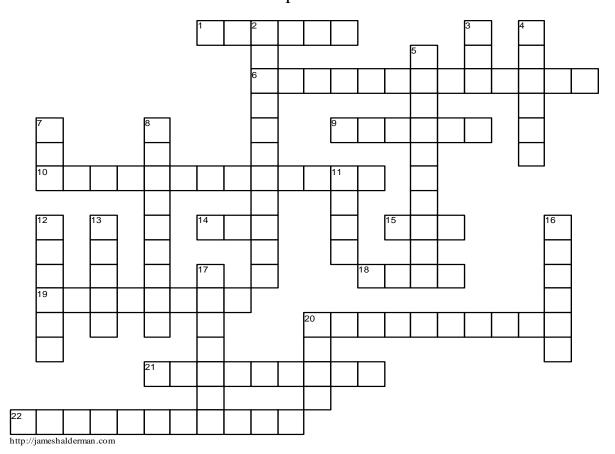
## **Wheel Alignment Principles**

Chapter 119



### ACROSS

# 1 \_\_\_\_\_ 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 Positive caster will help with steering wheel
  - \_\_\_\_\_after a turn.
- g \_\_\_\_\_ is the inward or outward tilt of the wheels from true vertical as viewed from the front or rear of the vehicle.
- **10** The \_\_\_\_\_ is the SAI added to the camber reading of the front wheels only.
- 14 \_\_\_ is the inward tilt of the steering axis.
- 15 \_\_\_ is the difference in distance between the front and rear of the tires.
- **18** 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.
- 19 A steering \_\_\_\_\_ is used on many pickup trucks, SUVs, and many luxury vehicles designed with a high-positive-caster setting.
- The direction the rear wheels are pointed is called the
- 21 On a two-lane road, the center of the road is often higher than the berms, resulting in a \_\_\_\_\_.
- 22 If the vehicle has been involved in an accident, it is possible that the frame or rear axle mounting could

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### DOWN

arms.

2	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.
3	is the imaginary line drawn through the kingpin as
	viewed from the front.
4	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	Positive caster causes changes in camber during a turn,
	this condition is called
7	is another name for SAI if SLA-type suspension is
	used.
8	alignment refers to the checking and/or
	adjustment of all four wheels.
11	A or drift is a mild pull that does not cause a force
	on the steering wheel that the driver must counteract
12	A is a condition where constant steering wheel
	corrections are necessary to maintain a straight-ahead
	direction on a straight, level road.
13	is a vertical-type vibration usually caused by out-
	of-balance or defective tires or wheels.
16	Some manufacturers refer to scrub radius as steering
	<del>.</del>
17	is the angle formed by a line drawn
	perpendicular to the front axles.
20	is determined by the angle of the steering knuckle