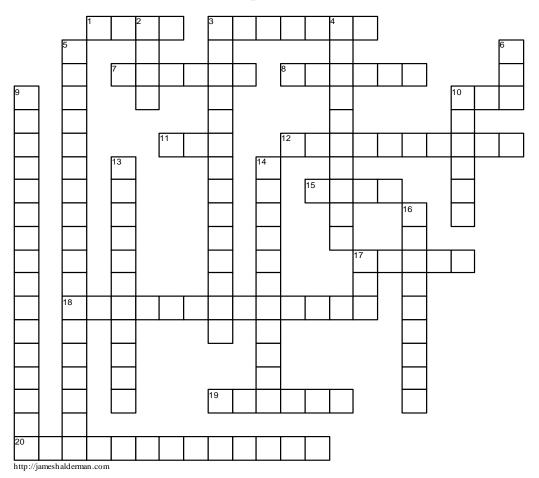
Wheel Alignment Principle

Chapter 35



ACROSS

- 1 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.
- 3 ______ is the angle formed by a line drawn perpendicular to the front axles.
- 7 A _____ is a condition where constant steering wheel corrections are necessary to maintain a straightahead direction on a straight, level road.
- 8 _____ is the inward or outward tilt of the wheels from true vertical as viewed from the front or rear of the vehicle.
- **10** ____ is the inward tilt of the steering axis.
- 11 _____ is the imaginary line drawn through the kingpin as viewed from the front.
- 12 The direction the rear wheels are pointed is called the _____.
- 15 _____ is determined by the angle of



the steering knuckle arms.

- 17 _____ is a vertical-type vibration usually caused by out-of-balance or defective tires or wheels.
- 18 The ______ is the SAI added to the camber reading of the front wheels only.
- 19 _____ is the forward or rearward tilt of the steering axis in reference to a vertical line as viewed from the side of the vehicle.
- 20 Positive caster will help with steering wheel ________after a turn.

DOWN

- 2 A _____ or drift is a milld pull that does not cause a force on the steering wheel that the driver must counteract
- **3** Some manufacturers refer to scrub radius as ______.
- 4 Positive caster causes changes in camber during a turn, this condition is called _____.
- 5 _____ refers to the checking and/or adjustment of all four

wheels.

- 6 ____ is another name for SAI if SLAtype suspension is used.
- 9 A ______ is used on many pickup trucks, SUVs, and many luxury vehicles designed with a highpositive-caster setting.
- **10** _____ is a back-and-forth vibration that can be caused by an out-ofbalance tire or defective wheel or by an alignment problem.
- 13 If the vehicle has been involved in an accident, it is possible that the frame or rear axle mounting could cause
- 14 _____ 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.
- **16** On a two-lane road, the center of the road is often higher than the berms, resulting in a _____.
- 17 ____ is the difference in distance between the front and rear of the tires.