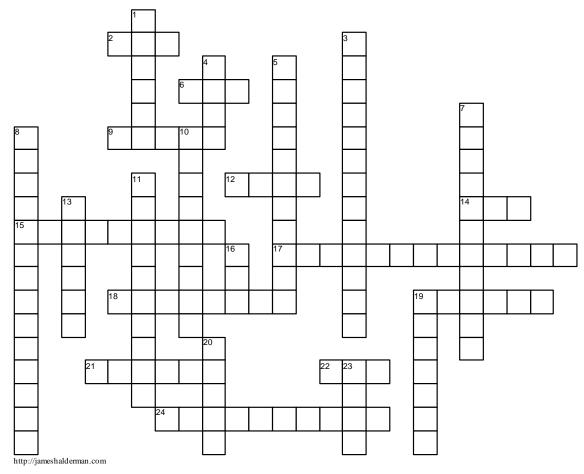
## Wheel Alignment Principles Chapter 124



## **ACROSS**

2 \_\_\_ is the inward tilt of the steering axis. \_ is the difference in distance between the front and rear of the tires. 9 Lead is also called \_\_\_\_\_. 12 A \_\_\_\_ is a minor pull that does not cause a force on the steering wheel that the driver must counteract \_\_\_ is another name for SAI if SLAtype suspension is used. 15 On a two-lane road, the center of the road is often higher than the berms, resulting in a \_\_\_\_\_ **17** The is the SAI added to the camber reading of the front wheels only. 18 A \_\_\_\_\_ dampener is used on many pickup trucks, SUVs, and many luxury vehicles designed with a highpositive-caster setting. \_\_\_\_ is a back-and-forth vibration that can be caused by an out-of-

balance tire or defective wheel or by

an alignment problem.

- 21 A \_\_\_\_\_\_\_ is a condition where constant steering wheel corrections are necessary to maintain a straight-ahead direction on a straight, level road.
  22 \_\_\_\_\_ is the imaginary line drawn through the kingpin as viewed from the front.
  24 Positive caster causes changes in camber during a turn, this condition is called \_\_\_\_\_.
  DOWN
- is the forward or rearward tilt of the steering axis in reference to a vertical line as viewed from the side of the vehicle.
   Positive caster will help with steering wheel \_\_\_\_\_\_ after a turn.
   is determined by the angle of the steering knuckle arms.
   If the vehicle has been involved in an accident, it is possible that the frame

or rear axle mounting could cause \_\_\_\_

7 \_\_\_\_\_\_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.

8 Some manufacturers refer to scrub

- radius as \_\_\_\_\_\_.

  10 \_\_\_\_\_ alignment refers to the checking and/or adjustment of all four wheels.
- 11 The direction the rear wheels are pointed is called the \_\_\_\_\_
- 13 \_\_\_\_\_ is the inward or outward tilt of the wheels from true vertical as viewed from the front or rear of the vehicle.
- 16 SAI is also called ball joint inclination (BJI), if SLA-type suspension is used,
- 19 \_\_\_\_\_ is the angle formed by a line drawn perpendicular to the front axles.
- 20 \_\_\_\_\_ is a vertical-type vibration usually caused by out-of-balance or defective tires or wheels.
- 23 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.

