Wheel Alignment Principles
Chapter 34

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.