Wheel Alignment Principles
Chapter 18

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.