Wheel Alignment Principles
Chapter 119

ACROSS

1. The ________ _____ is the SAI added to the camber reading of the front wheels only.
2. ________ in a back-and-forth vibration that can be caused by an out-of-balance tire or defective wheel or by an alignment problem.
3. ________ is the forward or rearward tilt of the steering axis in reference to a vertical line as viewed from the side of the vehicle.
4. A ________ ________ is used on many pickup trucks, SUVs, and many luxury vehicles designed with a high-positive-caster setting.
5. If the vehicle has been involved in an accident, it is possible that the frame or rear axle mounting could cause ________.
6. ________ is another name for SAI if SLA-type suspension is used.
7. Positive caster causes changes in camber during a turn, this condition is called ________.
8. Positive caster will help with steering wheel ________ after a turn.
9. On a two-lane road, the center of the road is often higher than the berms, resulting in a ________.

10. 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.
11. The direction the rear wheels are pointed is called the ________ ________.
12. ________ is the imaginary line drawn through the knuckle 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.
15. ________ 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. ________ is a vertical-type vibration usually caused by out-of-balance or defective tires or wheels.
17. ________ is the inward tilt of the steering axis.
18. ________ is the angle formed by a line drawn perpendicular to the front axes.
19. ________ is determined by the angle of the steering knuckle arms.
20. ________ refers to the checking and/or adjustment of all four wheels.

DOWN

1. ________ is the inward or outward tilt of the wheels from true vertical as viewed from the front or rear of the vehicle.
2. Some manufacturers refer to scrub radius as ________ ________.
3. ________ ________ is used on many pickup trucks, SUVs, and many luxury vehicles designed with a high-positive-caster setting.
4. ________ ________ is another name for SAI if SLA-type suspension is used.
5. Positive caster causes changes in camber during a turn, this condition is called ________.
6. Positive caster will help with steering wheel ________ after a turn.
7. On a two-lane road, the center of the road is often higher than the berms, resulting in a ________.