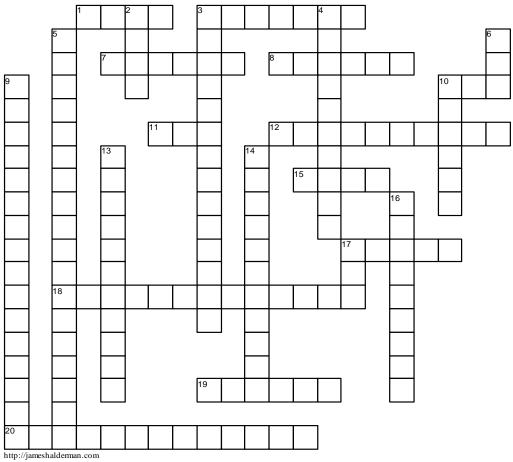
Wheel Alignment Principles

Chapter 19



ACROSS

		17	is a vertical-type vibration	6	is another name for SAI if SLA-
1	A is generally defined as a		usually caused by out-of-balance or		type suspension is used.
	definite tug on the steering wheel		defective tires or wheels.	9	Ais used on
	toward the left or the right while	18	The is the SAI		many pickup trucks, SUVs, and many
	driving straight on a level road.		added to the camber reading of the		luxury vehicles designed with a high-
3	is the angle formed by a line		front wheels only.		positive-caster setting.
	drawn perpendicular to the front	19	is the forward or rearward tilt	10	is a back-and-forth vibration
	axles.		of the steering axis in reference to a		that can be caused by an out-of-
7	A is a condition where		vertical line as viewed from the side		balance tire or defective wheel or by
	constant steering wheel corrections		of the vehicle.		an alignment problem.
	are necessary to maintain a straight-	20	Positive caster will help with steering	13	If the vehicle has been involved in an
	ahead direction on a straight, level		wheel after a turn.		accident, it is possible that the frame
	road.				or rear axle mounting could cause
8	is the inward or outward tilt of	DO	WN		·
	the wheels from true vertical as			14	refers to the distance
	viewed from the front or rear of the	2	A or drift is a milld pull that does		between the line through the steering
	vehicle.		not cause a force on the steering		axis and the centerline of the wheel at
10	is the inward tilt of the steering		wheel that the driver must counteract		the contact point with the road
	axis.	3	Some manufacturers refer to scrub		surface.
11	is the imaginary line drawn		radius as	16	On a two-lane road, the center of the
	through the kingpin as viewed from	4	Positive caster causes changes in		road is often higher than the berms,
	the front.		camber during a turn, this condition is		resulting in a
12	The direction the rear wheels are		called	17	is the difference in distance
	pointed is called the	5	refers to the		between the front and rear of the

checking and/or adjustment of all four

tires.

the steering knuckle arms.



15 ____ is determined by the angle of