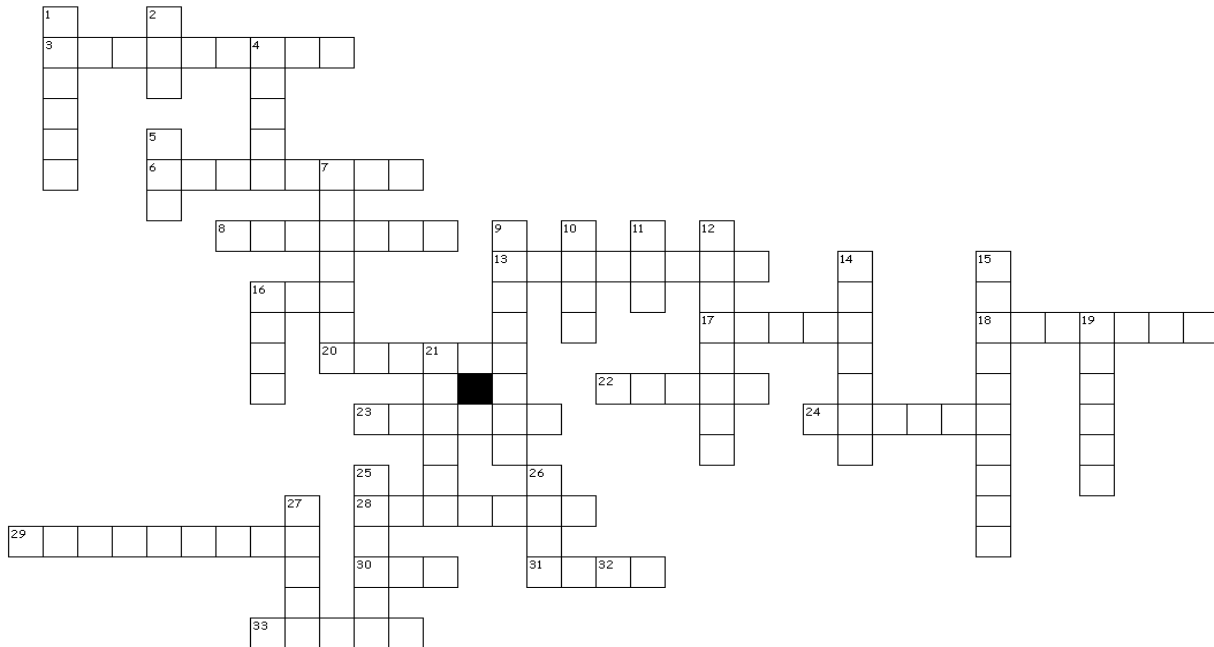


Name _____ Date: _____ Period: _____

Suspension-Steering *Chapter 69*



Across

3. Bar A type of torsion bar that connects the lower suspension to both sides of the frame or body
6. Angle The camber angle plus the steering-axis inclination
8. Radius The difference in the angles of the front wheels in a turn. Also called to--out on turns
13. Arms Suspension linkage supporting wheel assembly aft of a traverse pivot axis
16. Diameter Bead seat diameter (horizontal)
17. Assisted Steering Provides hydraulic power assist to the manual steering system
18. Arm Movable lever fastening steering knuckle to vehicle frame
20. Angle The angle between true vertical and an imaginary line drawn through the upper and lower ball joints, measured in degrees
22. radius Distance between the steering axis pivot and the center of the tire
23. Weight Supported weight above the springs
24. A-arm suspension Uses 2 control arms, one upper and one lower, and a coil spring
28. Puller A tool that allows you to separate the tie rod end's tapered stud from the steering arm
29. Pressure Measurement of compressed air in a tire
30. The measurement by which the front wheel points inward or outward, compared to a true straight-ahead position
31. Spring flat plates or strips of spring steel that are bolted together
33. Bar A straight bar positioned parallel to the rear axle

Down

1. Angle The angle of inward or outward tilt of a wheel, measured in degrees
2. Spring A spring that consists of a cylindrical bag filled with compressed air
4. Offset Location of the wheel's centerline which affects track/turning radius
5. Rod An adjustable length rod that is, as the steering wheels turns, transfers steering force and direction from the steering gear or linkage to the steering arm
7. Balancing Also called spin balancing, very accurate
9. Ratio The number of degrees that the steering wheel must turn to turn the road wheels one degree
10. Joint A lubricated attachment that connects two suspension parts to allow pivoting movement
11. A layer of cord, fiberglass, steel or other material used to create a tire carcass
12. Weight weight of unsupported items - axle, brakes, wheels below the springs
14. Bar Suspension element that functions by twisting
15. Strut Type of front suspension that combines the shock absorber and the coil spring in a single assembly
16. and pinion steering gear Steering gear in which a pinion on the end of the steering shaft meshes with a rack of gear teeth on the major cross member of the steering linkage
19. Angle The relationship between the position of the rear axle and the centerline of the vehicle
21. Amount of force used to tighten wheels
25. Balancing Also called a bubble balancer, inaccurate and outdated
26. Spring A spring made up of elastic metal formed into a wire or bar and wound into a coil
27. Tie Rod End Tool A tool that resembles pliers or a crescent wrench. It grips the tie rod at its adjustment connection
32. measure in degrees, from true vertical, of the inward tilt at the top of the steering axis. provides good driving and handling characteristics