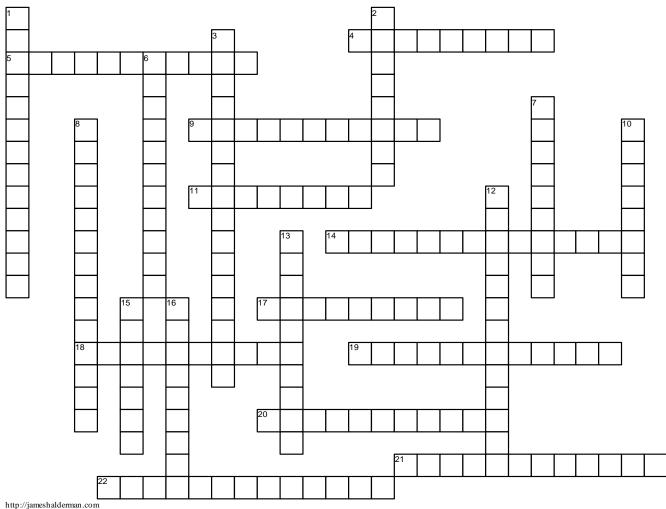
Steering Columns And Gears

Chapter 29



18

- 4 As the steering wheel is turned, the movement is transmitted through the steering gear to the _ 5 Federal law requires that all vehicles sold in the US have steering columns and shafts that collapse, called _ columns. 9 The sector gear is part of a 11 Gear mesh preload is related to another measurement, called 14 The part of the steering wheel where the airbag is stored is called the 17 A U-joint connects the lower end of the steering shaft to a small intermediate shaft, called a
- 19 In a typical column, the steering shaft has a short section at the top joined to the rest of the steering shaft either by a Ujoint or gears. 20 A spring-loaded and related hardware install through a hole at the back of the steering gear housing to position the rack. 21 is a measurement of how much turning force is needed at the input shaft for the pinion to overcome the resistance of the rack and move it. transmits rotary motion from the steering wheel to the steering gear. DOW N

steering

preload.

is light in weight and takes less space than a conventional steering gear. 2 If the driver can feel vibration and road shocks through the steering wheel, the condition is called_ is a simple device made of rubber, or rubber reinforced with fabric, that is placed between two shafts to allow for a change in angle between 6 Another name for the pitman shaft is the 7 Some steering columns are designed to _ means that the top of the steering shaft and jacket can be pulled out toward the driver or pushed in toward the dashboard. consists

of two yokes with a steel

gear is widely used because it

crosspiece joining them together. 10 The intermediate shaft is splined to a ____ inside a conventional steering gear. 12 Most steering gears and some rack-and-pinion steering gears feature a_ 13 Around the worm gear is a nut with gear teeth that meshes with the teeth on a section of a gear called a_ 15 Worm bearing preload is a measurement of how much force is required to turn the steering gear input shaft against the _ that the thrust bearings apply to the worm gear and shaft. 16 Underneath the bearing and housing is a _ coil spring that lock the steering shaft into position when the driver removes the

ignition key.



adjustment is

what GM calls the gear mesh