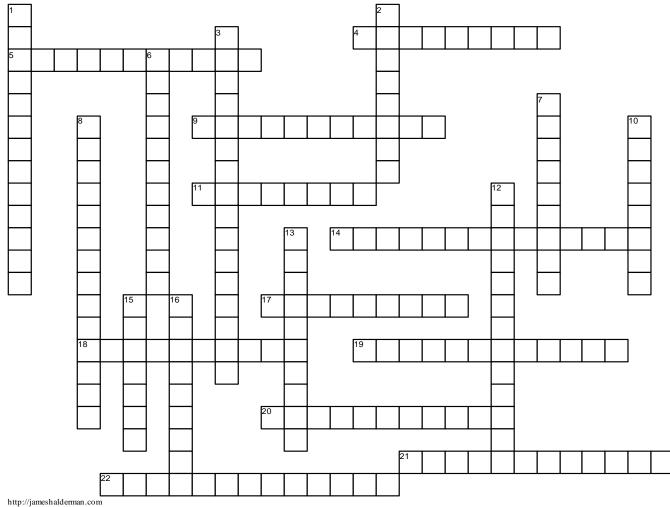
Steering Columns And Gears

Chapter 12



4 As the steering wheel is column, the steering shaft has turned, the movement is a short section at the top transmitted through the joined to the rest of the steering gear to the _ steering shaft either by a Ujoint or gears. 5 Federal law requires that all 20 A spring-loaded vehicles sold in the US have and related hardware install steering columns and shafts through a hole at the back of that collapse, called the steering gear housing to position the rack __ columns. 9 The sector gear is part of a 21 is a measurement of how much 11 Gear mesh preload is related turning force is needed at the to another measurement, input shaft for the pinion to called overcome the resistance of the 14 The part of the steering wheel rack and move it. where the airbag is stored is 22 The called the _ transmits rotary motion from 17 A U-joint connects the lower the steering wheel to the end of the steering shaft to a steering gear. small intermediate shaft, DOW N called a 18 adjustment is

preload.

- ____ steering

19 In a typical

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

or pushed in toward the

of two yokes with a steel

dashboard.

steering shaft and jacket can

be pulled out toward the driver

consists

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 som
	rack-and-pinion steering gear
	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	e naci near are bearing and
	housing is a and
	coil spring that lock the
	steering shaft into position
	when the driver removes the
	ignition key.



what GM calls the gear mesh