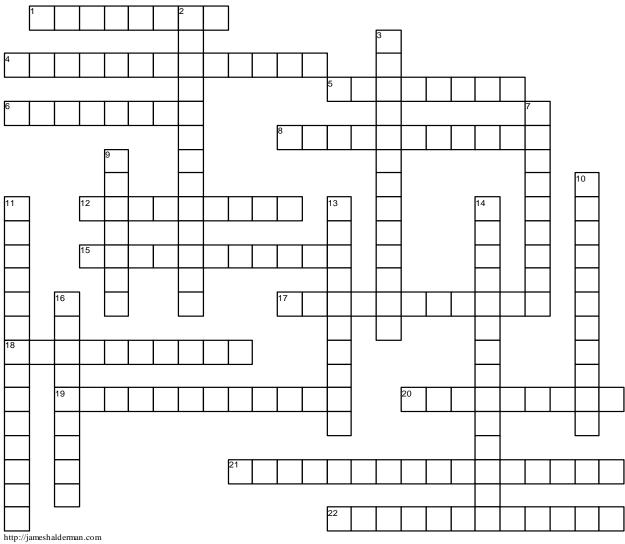
Steering Columns And Gears

Chapter 115



section of a gear called a _

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		19	is a meas	urement of how
1	Gear mesh preload is related to another		much turning force is nee	eded at the input
	measurement, called		shaft for the pinion to over	rcome the
4	Most steering gears and some rack-and-		resistance of the rack and move it.	
	pinion steering gears feature a	20	As the steering wheel is t	turned, the
			movement is transmitted t	through the
5	If the driver can feel vibration and road		steering gear to the	·
	shocks through the steering wheel, the	21	A is a	simple device
	condition is called		made of rubber, or rubber	r reinforced with
6	The intermediate shaft is splined to a		fabric, that is placed betw	een two shafts to
	inside a conventional steering gear.		allow for a change in ang	le between them.
8	The sector gear is part of a	22	In a typical column, the	
12	Some steering columns are designed to		steering shaft has a short section at the top	
	, which means that the top of the		joined to the rest of the steering shaft either	
	steering shaft and jacket can be pulled out		by a U-joint or gears.	
	toward the driver or pushed in toward the			
	dashboard.	DO	DW N	
15	Federal law requires that all vehicles sold in			
	the US have steering columns and shafts	2	Thetran	smits rotary
	that collapse, called columns.		motion from the steering	wheel to the
17	Another name for the pitman shaft is the		steering gear.	
	·	3	The ste	eering gear is
18	Around the worm gear is a nut with gear		widely used because it is	light in weight and
	teeth that meshes with the teeth on a		takes less space than a c	onventional

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	steering gear.
7	A U-joint connects the lower end of the
	steering shaft to a small intermediate shaft
	called a
9	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.
10	A spring-loaded and related
	hardware install through a hole at the back
	of the steering gear housing to position the
	rack
11	A consists of two yokes
	with a steel crosspiece joining them
	together.
13	adjustment is what GM calls
	the gear mesh preload.
14	The part of the steering wheel where the
	airbag is stored is called the
	·
16	Underneath the bearing and housing is a
	and coil spring that lock the
	steering shaft into position when the driver

removes the ignition key.