Steering Columns And Gears
Chapter 11

ACROSS
3 A spring-loaded _______ and related hardware install through a hole at the back of the steering gear housing to position the rack.
4 If the driver can feel vibration and road shocks through the steering wheel, the condition is called _______.
10 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.
14 In a typical _______, the steering shaft has a short section at the top joined to the rest of the steering shaft either by a U-joint or gears.
17 A U-joint connects the lower end of the steering shaft to a small intermediate shaft, called a _______.
18 The _______ transmits rotary motion from the steering wheel to the steering gear.
19 Gear mesh preload is related to another measurement, called _______.
20 A _______ 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 them.
21 The intermediate shaft is splined to a _______ inside a conventional steering gear.
22 Some steering columns are designed to _______, which means that the top of the steering shaft and jacket can be pulled out toward the driver or pushed in toward the dashboard.

DOWN
1 The _______ steering gear is widely used because it is light in weight and takes less space than a conventional steering gear.
2 Federal law requires that all vehicles sold in the US have steering columns and shafts that collapse, called _______.
5 _______ is what GM calls the gear mesh preload.
6 The sector gear is part of a _______.
7 A _______ consists of two yokes with a steel crosspiece joining them together.
8 Another name for the pitman shaft is the _______.
9 The part of the steering wheel where the airbag is stored is called the _______.
11 As the steering wheel is turned, the movement is transmitted through the steering gear to the _______.
12 Underneath the bearing and housing is a _______ and coil spring that lock the steering shaft into position when the driver removes the ignition key.
13 _______ 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.
15 Most steering gears and some rack-and-pinion steering gears feature a _______.
16 Around the worm gear is a nut with gear teeth that meshes with the teeth on a section of a gear called a _______.

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