

Automotive Technology 7th Edition
Chapter 115: Steering Columns and Gears
Short Answer Quiz

Name:

Date:

1. What is the purpose of the air tube connecting the two end boots in a rack-and-pinion steering gear?
2. How does the sector shaft function in most conventional steering gears?
3. What is the significance of the mounting points having rubber cushions in the housing of a steering gear?
4. Explain the process and significance of the steering wheel's rotation in relation to the front wheels' rotation in terms of steering gear ratio.
5. Describe the function of the rack support in a rack-and-pinion steering gear.

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6. What is the purpose of the collapsible section in a steering column?

7. How is the motion transferred from the driver turning the steering wheel to the front wheels in a conventional steering gear?

8. What are the consequences of a damaged collapsible steering column?

9. Explain the purpose and function of a pitman arm in a steering system.

10. What is the role of the boots in a rack-and-pinion steering gear?