

Name: _____ Date: _____

1. What causes a variable-ratio steering gear to be able to change the ratio as the steering wheel is turned?

- A. Using two or three different sector gears depending on design
- B. Using a variable-length pitman arm
- C. Changing the number of teeth on the worm gear
- D. Changing the length of the teeth on the sector gear

2. The sector shaft used in most conventional steering gears rides on two bushings in order to _____.

- A. Provide for a variable ratio
- B. Keep the steering wheel centered
- C. Reduce friction
- D. Help provide feedback to the driver regarding the road surface

3. The steering wheel is attached to the steering shaft using a _____.

- A. Bolt and clamp
- B. Bolt or nut
- C. Clockspring
- D. Snap-ring

4. On a rack-and-pinion steering gear, the inner tie rods are protected by _____.

- A. Boots
- B. Gaskets
- C. O-rings
- D. Flanges

5. What is the purpose and function of the air tube connecting the two end boots in a rack-and-pinion steering gear?

- A. To transfer air from one boot to the other when the wheels are turned
- B. To move grease from one boot to the other to equalize the amount of grease in each boot
- C. To prevent water from entering the boots
- D. To keep any fluid from escaping

6. What is the role of the toe plate in the steering column assembly?

- A. To cover the shaft opening and protect the interior from noise, drafts, and dirt
- B. To provide a mounting point for the steering gear
- C. To act as a pivot point for the steering linkage
- D. To adjust the height of the steering column

7. What is contained within the lock housing of the steering column?

- A. Ignition lock cylinder and several electrical switches
- B. Steering shaft bearing and a snap ring
- C. Multifunction switch for various controls
- D. All of the above

8. What is the function of the snap ring in the steering column?

- A. To secure the bearing housing to the steering shaft
- B. To hold the steering wheel in place
- C. To lock the steering column when the ignition is off
- D. To adjust the tilt of the steering wheel

9. What is the purpose of the silencer found in the steering column assembly?

- A. To reduce noise from the steering gear
- B. To dampen vibrations in the steering wheel
- C. To silence the turn signal click
- D. To muffle the sound of the ignition lock

10. What does the knee bolster do in relation to the steering column?

- A. Provides a rest for the driver's knees
- B. Protects the driver from sliding forward during a collision
- C. Adjusts the steering wheel angle
- D. Covers the steering column for aesthetic purposes

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Chapter 115

Multiple Choice Quiz B

Answer Key

1. D

2. C

3. B

4. A

5. C

6. A

7. D

8. A

9. A

10. B