

Automotive Technology 7th Edition
Chapter 123: DriveShafts and Half Shafts
Short Answer Quiz

Name:

Date:

1. Explain the significance of driveshaft balance and the acceptable balance tolerance in terms of percentage of the driveshaft weight.
2. Describe the operational limits of a regular U-joint in terms of angularity and compare it with the angularity limits of a double-Cardan joint.
3. Discuss the reasons why aluminum or composite driveshafts can be longer than steel tube driveshafts without requiring a center support bearing.
4. What are the consequences of a dented driveshaft and why should it be replaced rather than repaired?
5. How do unequal-length driveshafts contribute to torque steer in front-wheel-drive vehicles, and what design feature is used to mitigate this effect?

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6. What are the two important movements that inner CV joints must accommodate, and why are these movements critical for vehicle operation?

7. Describe the process and challenges involved in replacing a CV joint boot without removing the drive axle shaft from the vehicle.

8. Why is it important to inspect boot seals regularly, and what are the potential consequences of a torn CV boot on a CV joint?

9. Explain the function of dampener weights on drive axle shafts and their role in vehicle dynamics.

10. Discuss the variations in driveshaft availability by make, model, and year of the vehicle, and what specific information is necessary to obtain a replacement driveshaft.