Automotive Technology 7th Edition
Chapter 127: Vibration and Noise Diagnosis and Correction
Short Answer Quiz

Name: Date:

1. How can a driveshaft be checked for proper balance, and what tool is used to spot the point of imbalance?

2. What is the maximum allowable driveshaft runout, and why is it important to maintain within this limit?

3. Describe the process of measuring driveshaft U-joint phasing and its significance in driveline operation.

4. Explain the typical causes of low-frequency vibrations in a vehicle and how they can be identified.

5. Discuss the steps involved in performing a neutral run-up test and the type of vibrations it can help detect.

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6. How does the frequency of a vibration relate to the diagnosis of driveline issues, and what tools can be used to measure it?

7. What is the significance of the rolling circumference of tires on the same axle in a four-wheel-drive vehicle, and what are the acceptable limits?

8. Describe the relationship between engine RPM and the frequency of engine-related vibrations.

9. Explain the concept of vibration order and how it relates to the diagnosis of vibrations in a vehicle.

10. What is a common diagnostic approach to determine if a vibration is related to the driveline or the engine during a test drive?