

Automotive Technology 7th Edition
Chapter 126: Four-Wheel Drive and All-Wheel Drive
Short Answer Quiz

Name:

Date:

1. What is the primary function of a mode shift in a vehicle's drive system?
2. Describe the mechanism and purpose of a viscous coupling in a full-time four-wheel-drive system.
3. Explain the role of the oil pump within most transfer cases.
4. Discuss the potential causes of a transfer case being extremely noisy in all selections when the vehicle is moving.
5. Describe the difference between a range shift and a mode shift in a transfer case.

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6. What is the significance of ensuring the correct differential fluid viscosity in vehicle performance?

7. Explain the advantage of mounting the engine longitudinally in the frame of a vehicle.

8. Describe the principle involved in brake-controlled traction control as used on the Mercedes M4 SUV.

9. Explain the difference between four-wheel drive and all-wheel drive.

10. Why do part-time four-wheel-drive vehicles use locking front hubs, and what is their function?