

Automotive Technology 7th Edition
Chapter 113: Rear Suspension and Service
Short Answer Quiz

Name:

Date:

1. What is the role of the center bolt in a leaf spring assembly, and what potential issue can arise from the hole made for this bolt?

2. Explain the significance of the "witness marks" found on a broken spring during a routine under-vehicle visual inspection.

3. Describe the process and safety considerations for replacing leaf springs in the rear of a rear-wheel-drive vehicle.

4. What is "dog tracking" in the context of vehicle suspension, and what could be a potential cause of it?

5. How does a solid axle impact the unsprung weight of a vehicle, and what are the consequences of this on handling?

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6. Discuss the advantages of an independent rear suspension (IRS) over a solid rear axle in terms of ride and handling.

7. What is axle windup, and why is it a concern particularly with solid, driven rear axles?

8. How does the Hotchkiss drive control axle windup, and what components are typically involved in this system?

9. What are the steps involved in replacing a steering knuckle, and why is each step important?

10. Compare and contrast the use of different types of springs in semi-trailing arm rear suspensions and their impact on vehicle dynamics.