

Automotive Technology 7th Edition
Chapter 116: Steering Linkage and Service
Short Answer Quiz

Name:

Date:

1. What is the significance of ensuring the inner tie rod end is secured with a rivet or set screw after replacement, and what are the potential consequences of not doing so?
2. Explain the role of an inductive heating tool like the Mini-Ductor in the removal of fasteners in the steering system, and why is it preferred over open flame methods?
3. Discuss the concept of "bump steer," its causes, and the implications it has on vehicle handling. How can improper installation of components like the idler arm contribute to this issue?
4. What is the acceptable range of endplay in tie rod ends during a dry park test, and why is it important to maintain this specification?
5. When installing new tie rods, what are the differing opinions of Technician A and Technician B regarding the adjustment of retaining nuts and the alignment of the cotter pin hole, and which is correct?

Automotive Technology 7th Edition
Chapter 116: Steering Linkage and Service
Short Answer Quiz

Name:

Date:

6. Describe the dry park test and its significance in diagnosing steering component issues. What level of steering wheel freeplay indicates the need for further investigation?

7. What are the guidelines for replacing steering linkage components in a parallelogram type steering system, and why is it recommended to replace all defective and marginally good components simultaneously?

8. Explain the correct positioning of the clamp on a tie rod adjusting sleeve and the potential consequences of incorrect placement.

9. What is the articulation test, and how is it performed on inner tie rod ends? What does this test indicate about the condition of the ball socket assembly?

10. Why is it important to install tie rod ends so that the stud is centered in its operating range, and what are the specifications for installing the adjusting sleeve to ensure proper wheel alignment?