

Automotive Chassis Systems 8th Edition

Chapter 30 – Steering Linkage Service

Lesson Plan



CHAPTER SUMMARY:

1. Steering Linkage and Rack-and-Pinion Inner Tie Rod End
 2. Front Steer Versus Rear Steer and Four-Wheel Steering Systems
 3. Steering Linkage Lubrication, Dry Park Test, Common Wear Items, and Under-Vehicle Inspection
 4. Steering Linkage Replacement
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OBJECTIVES:

1. Identify steering linkage components.
 2. Describe rack-and-pinion inner tie rod ends.
 3. Describe four-wheel steering systems.
 4. Discuss steering linkage lubrication.
 5. Describe the purpose and procedure for performing a dry park test.
 6. List common wear items in steering systems.
 7. Describe the steps for under-vehicle inspection of steering systems.
 8. Explain how to replace steering linkage parts.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Steering Problem Diagnosis
 2. Task Sheet: Inner Tie Rod Ends and Bellows Boots
 3. Task Sheet: Inspect and Replace Steering Components
 4. Task Sheet: Tie-Rod End Inspection and Replacement
 5. [Crossword Puzzle and Word Search](#)
 6. [Videos: ASE A4 Suspension and Steering](#)
 7. [Animations: ASE A4 Suspension and Steering](#)
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ACTIVITIES:

1. Task Sheet: Steering Problem Diagnosis
 2. Task Sheet: Inner Tie Rod Ends and Bellows Boots
 3. Task Sheet: Inspect and Replace Steering Components
 4. Task Sheet: Tie-Rod End Inspection and Replacement
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles from the website.
 2. Complete end of chapter quiz from the textbook.
 3. Complete multiple choice and short answer quizzes downloaded from the website.
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CLASS DISCUSSION:

1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
 2. Review and group discussion of the five (5) chapter [Review Questions](#).
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NOTES AND EVALUATION:
