

Automotive Steering, Suspension & Alignment

Chapter 6 – Tire and Wheel Service

Lesson Plan



CHAPTER SUMMARY:

1. Tire Service and Proper Inflation, Nitrogen Inflation, Tire Inspection, and Wheel Removal/Installation
 2. Tire Rotation, Radial Runout, Lateral Runout, Tire Replacement, and Tire Balancing
 3. Wheel Weights, Wheel/Tire Balancers, and Tire Repair
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OBJECTIVES:

1. State the importance of proper tire inflation.
 2. Describe tire inspection.
 3. Describe the correct sequence for lug nut removal, tightening procedure, and torque for wheel installation.
 4. State the purpose of tire rotation.
 5. Discuss radial runout and lateral runout.
 6. List the steps for replacing a tire.
 7. Discuss how to balance wheel and tire assembly (static and dynamic).
 8. Discuss how to repair tires using internal patch.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Tire Inspection and Air Loss
 2. Task Sheet: Tire Vibration and Pull Diagnosis
 3. Task Sheet: Tire Rotation
 4. Task Sheet: Tire, Wheel, Axle, and Hub Runout
 5. Task Sheet: Tire Replacement
 6. Task Sheet: Tire Repair
 7. Chapter PowerPoint
 8. [Crossword and Word Search Puzzles \(A4\)](#)
 9. [Videos: \(A4\) Suspension and Steering](#)
 10. [Animations: \(A4\) Suspension and Steering](#)
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ACTIVITIES:

1. Task Sheet: Tire Inspection and Air Loss
 2. Task Sheet: Tire Vibration and Pull Diagnosis
 3. Task Sheet: Tire Rotation
 4. Task Sheet: Tire, Wheel, Axle, and Hub Runout
 5. Task Sheet: Tire Replacement
 6. Task Sheet: Tire Repair
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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:
