

# Automotive Technology 7<sup>th</sup> Edition

## Chapter 110 – 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. Discuss nitrogen inflation.
3. Describe tire inspection.
4. Describe the correct sequence for lug nut removal, tightening procedure, and torque for wheel installation.
5. State the purpose of tire rotation.
6. Discuss radial runout.
7. Discuss lateral runout.
8. List the steps for replacing a tire.
9. Discuss tire balancing.
10. Discuss wheel weights.
11. Discuss wheel/tire balancers.
12. Discuss how to repair tires using internal patch.

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#### **RESOURCES:** (All resources may be found at jameshalderman.com)



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

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#### **ACTIVITIES:**



1. Task Sheet: Tire Inspection and Air Loss
  2. Task Sheets: Tire Vibration and Pull Diagnosis
  3. Task Sheets: Tire Rotation
  4. Task Sheets: Tire, Wheel, Axle, and Hub Runout
  5. Task Sheets: Tire Replacement
  6. Task Sheets: Tire Repair
  7. Crossword Puzzle and Word Search
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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:**

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