Automotive Technology 6th Edition Chapter 115 – Tire and Wheel Service Lesson Plan

CHAPTER SUMMARY:

- 1. Tire service and proper inflation, nitrogen inflation, and tire inspection
- 2. Wheel removal/installation, tire rotation, radial runout, and lateral runout
- 3. Tire replacement, tire balancing, wheel weights, wheel/tire balancers, and tire repair



OBJECTIVES:

- 1. State the importance of proper tire inflation.
- 2. Describe tire inspection.
- 3. Describe the correct 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.

9. This chapter will help prepare for ASE Suspension and Steering (A4) certification content area "E" (Wheel and Tire Diagnosis and Repair).

<u>RESOURCES</u>: (All resources may be found at <u>http://www.jameshalderman.com</u>) Internet access required to hyperlink.

- 1. Task Sheet ASE (A4-F-1) P-1, (A4-F-8) P-1: Tire Inspection and Air Loss
- 2. Task Sheet ASE (A4-F-2) P-2, (A4-F5) P-1: Tire Vibration and Pull Diagnosis
- 3. Task Sheet ASE (A4-F-3) P-1: Tire Rotation
- 4. Task Sheet ASE (A4-F-4) P-2: Tire, Wheel, Axle, and Hub Runout
- 5. Task Sheet ASE (A4-F-6) P-1: Tire Replacement
- 6. Task Sheet ASE (A4-F-9) P-1: Tire Repair
- 7. Chapter PowerPoint
- 8. Chapter Crossword Puzzle and Word Search
- 9. Videos: (A4) Suspension and Steering Videos
- 10. Animations: (A4) Suspension and Steering Animations

ACTIVITIES:

1. Task Sheet ASE (A4-F-1) P-1, (A4-F-8) P-1: Have students complete Tire Inspection and Air Loss Task Sheet.

2. Task Sheet ASE (A4-F-2) P-2, (A4-F5) P-1: Have students complete Tire Vibration and Pull Diagnosis Task Sheet.

- 3. Task Sheet ASE (A4-F-3) P-1: Have students complete Tire Rotation Task Sheet.
- 4. Task Sheet ASE (A4-F-4) P-2: Tire, Wheel, Axle, and Hub Runout Task Sheet.
- 5. Task Sheet ASE (A4-F-6) P-1: Have students complete Tire Replacement Task Sheet.
- 6. Task Sheet ASE (A4-F-9) P-1: Have students complete Tire Repair Task Sheet.





DEMO

Automotive Technology 6th Edition Chapter 115 – Tire and Wheel Service Lesson Plan

ASSIGNMENTS:

- 1. Chapter crossword and word search puzzles.
- 2. Complete end of chapter 10 question quiz.



....

CLASS DISCUSSION:

- 1. Review and group discussion chapter <u>Frequently Asked Questions</u> and <u>Tech Tips</u> sections.
- 2. Review and group discussion of the five (5) chapter <u>Review Questions</u>.



NOTES AND EVALUATION:

