Automotive Technology 7th Edition Chapter 115 – Steering Columns and Gears Lesson Plan

CHAPTER SUMMARY:



- 1. Steering Wheels, Steering Wheel Removal, Steering Columns, and Conventional Steering Gears
- 2. Recirculating Ball Steering Gear, and Rack-And-Pinion Steering Gear

OBJECTIVES:



- 1. Describe the purpose and function of a steering wheel.
- 2. Explain how to remove a steering wheel.
- 3. Discuss steering columns and intermediate shafts.
- 4. Explain the purpose and function of conventional steering gears.
- 5. Explain how a recirculating ball steering gear works.
- 6. Describe how a rack-and-pinion steering gear works.



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

- 1. Task Sheet: Airbag System and Steering Wheel Service
- 2. Task Sheet: Steering Column Related Diagnosis
- 3. Task Sheet: Steering Gear Adjustment/Replacement
- 4. Task Sheet: Steering Problem Diagnosis
- 5. Crossword Puzzle and Word Search
- 6. Chapter PowerPoint
- 7. Videos: (A4) Suspension and Steering Videos
- 8. Animations: (A4) Suspension and Steering Animations



ACTIVITIES:

- 1. Task Sheet: Airbag System and Steering Wheel Service
- 2. Task Sheet: Steering Column Related Diagnosis
- 3. Task Sheet: Steering Gear Adjustment/Replacement
- 4. Task Sheet: Steering Problem Diagnosis
- 5. Crossword Puzzle and Word Search



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.



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.

NOTES AND EVALUATION:



