Automotive Technology 7th Edition Chapter 119 – Wheel Alignment Principles Lesson Plan

CHAPTER SUMMARY:



- 1. Definition of a Wheel Alignment, Alignment-Related Problems, Caster, and Toe
- 2. Steering Axis Inclination, Included Angle, Scrub Radius, and Turning Radius (Toe-Out on Turns)
- 3. Setback, Thrust Angle, Tracking, and Four-Wheel Alignment

OBJECTIVES:



- 1. Define wheel alignment.
- 2. Discuss alignment-related problems.
- 3. Discuss camber.
- 4. Discuss caster.
- 5 Discuss toe.
- 6. Discuss steering axis inclination (SAI).
- 7. Discuss included angle.
- 8. Discuss scrub radius.
- 9. Discuss turning radius.
- 10. Discuss setback.
- 11. Discuss thrust angle.
- 12. Discuss tracking.
- 13. Explain the importance of four-wheel alignment.

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

- 1. Task Sheet: Alignment Specification
- 2. Crossword Puzzle and Word Search
- 3. Chapter PowerPoint
- 4. Videos: (A4) Suspension and Steering Videos
- 5. Animations: (A4) Suspension and Steering Animations

DEMO

ACTIVITIES:

- 1. Task Sheet: Alignment Specification
- 2. 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:

