**Automotive Technology 6th Edition**

**Chapter 124 –** **Wheel Alignment Principles**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Definition of a wheel alignment, alignment-related problems, camber, caster, and toe

2. Steering axis inclination, included angle, scrub radius, and turning radius

3. Setback, thrust angle, tracking, and four-wheel alignment

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**OBJECTIVES:**

1. Define wheel alignment and discuss alignment-related problems.

2. Define camber, caster, toe, and SAI.

3. Discuss included angle, scrub radius, turning radius, setback, thrust angle, and tracking.

4. explain the importance of four-wheel alignment.

5. This chapter will help prepare for ASE suspension and steering (A4) certification test content area “D” (Wheel Alignment Diagnosis, Adjustment, and repair).

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

**1.** **Task Sheet ASE (****A4-E-2) P-1**: Alignment Specification

2. Chapter PowerPoint

3. Chapter Crossword Puzzle and Word Search

4. Videos: [(A4) Suspension and Steering Videos](https://jameshalderman.com/a4_vid_lib_page/)

5. Animations: [(A4) Suspension and Steering Animations](https://jameshalderman.com/a4_anim_lib_page/)

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**ACTIVITIES:**

**1.** **Task Sheet** **ASE (A4-E-2) P-1:** Have students complete Alignment Specification Task Sheet.

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**ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.

2. Complete end of chapter 10 question quiz.

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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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