

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
-

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).
-

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](#)
 5. Animations: [\(A4\) Suspension and Steering Animations](#)
-

ACTIVITIES:



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

ASSIGNMENTS:



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

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:

