Manual Drivetrains and Axles 9th Edition Chapter 12 – Drive Axles and Differentials

CHAPTER SUMMARY:



- 1. Drive Axle Terminology, Drive Axle Assembly, Axle Designs, and Ring and Pinion Gears
- 2. Differential Carriers, Differentials, and Limited Slip Differentials

OBJECTIVES:



- 1. Discuss the different drive axle designs.
- 2. Explain the features of ring and pinion gears.
- 3. Discuss the types of differential carriers.
- 4. State the purpose of differentials and identify the parts of a differential assembly.
- 5. Identify the different types of limited slip differentials.



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

- 1. Task Sheet: Drive Axle Identification
- 2. Chapter PowerPoint
- 3. Crossword Puzzle and Word Search
- 4. Videos: (A3) Manual Drive Train Axles Videos
- 5. Animations: (A3) Manual Drive Train Axles Animations

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ACTIVITIES:

- 1. Task Sheet: Drive Axle Identification
- 2. Crossword Puzzle and Word Search

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ASSIGNMENTS:

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



