**Manual Drivetrains and Axles 9th Edition**

**Chapter 11 –** **Wheel and Axle Bearings**

**CHAPTER SUMMARY:**

1. Antifriction Bearings, Bearing Grease, Seals, Bearing Diagnosis, and Wheel Bearing Service

2. Sealed Bearing Replacement, Rear Axle Bearing and Seal Replacement, and Bearing Failure Analysis

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**OBJECTIVES:**

1. Describe the types of antifriction bearings, bearing greases, and seals.

2. Explain the diagnosis of defective wheel bearings.

3. Describe wheel bearing service and sealed bearing replacement.

4. Discuss rear drive axle classifications.

5. Describe rear axle bearing and seal replacement.

6. State the reasons for bearing failure. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Wheel Bearing Service

2. Chapter PowerPoint

3. Crossword Puzzle and Word Search

4. Videos: [(A4) Manual Drive Train Axles 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: Wheel Bearing Service

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.

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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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