**Automotive Technology 7th Edition**

**Chapter 123 – Driveshafts and Half Shafts**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Driveshafts, Driveshaft Balance, U-Joint Design and Operation, and Double-Cardan Joints

2. Constant Velocity Joints

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**OBJECTIVES:**

1. Describe driveshaft design.

2. Describe driveshaft balance.

3. Describe the function and operation of U-joints.

4. Discuss double-Cardan joints.

5. Discuss the two types of CV joints and how they work. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: CV Joint Noise and Vibration Diagnosis

2. Task Sheet: Disassemble and Reassemble Transmission/Transaxle

3. Crossword Puzzle and Word Search

4. Chapter PowerPoint

5. Videos: [(A3) Manual Drive Train Axles Videos](https://jameshalderman.com/a3_vid_lib_page/)

6. Animations: [(A3) Manual Drive Train Axles Animations](https://jameshalderman.com/a3_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: CV Joint Noise and Vibration Diagnosis

2. Task Sheet: Disassemble and Reassemble Transmission/Transaxle

3. 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.

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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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