**Automotive Technology 7th Edition**

**Chapter 127 – Vibration and Noise Diagnosis and Correction**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Vibration and Noise, Test Drive, Vibration Speed Ranges, Vibration Frequency, and Driveline Diagnosis

2. Noise

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**OBJECTIVES:**

1. Discuss vibration and noise concerns in vehicles.

2. List the procedures for a test-drive when diagnosing vibration/noise problems.

3. Explain the vibration speed ranges.

4. Explain how to determine the frequency of a vibration.

5. Explain ways to diagnose drive-line vibrations and noise.

6. Discuss how to find and correct noises. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Noise and Vibration Diagnosis

2. Task Sheet: Universal Joint Noise and Vibration Diagnosis

3. Task Sheet: Driveshaft Phasing and Balance

4. Crossword Puzzle and Word Search

5. Chapter PowerPoint

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

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

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**ACTIVITIES:**

1. Task Sheet: Noise and Vibration Diagnosis

2. Task Sheet: Universal Joint Noise and Vibration Diagnosis

3. Task Sheet: Driveshaft Phasing and Balance

4. Crossword Puzzle and Word Search

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**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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