

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



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](#)
7. Animations: [\(A3\) Manual Drive Train Axles Animations](#)



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



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.



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: