

Automotive Technology 7th Edition

Chapter 129 – Continuously Variable and Dual-Clutch Automatic Transmissions Lesson Plan



CHAPTER SUMMARY:

1. Continuously Variable Transmission (CVT), Construction, and CVT Electronic Controls
2. CVT Operation, Pressure Testing a CVT, CVT Fluid, and CVT-Related Diagnostic Trouble Codes
3. Dual-Clutch Automatic Transmissions, Dual Clutch Transaxle, and Diagnosis and Service



OBJECTIVES:

1. Describe the function, advantages, and disadvantages of a continuously variable transmission.
2. Describe the construction of a continuously variable transmission.
3. Discuss the electronic controls of a CVT.
4. Discuss the operation of a CVT.
5. Explain CVT pressure testing.
6. Discuss CVT fluid.
7. Discuss CVT-related DTCs.
8. Discuss the parts and operation of a dual-clutch automatic transmission.
9. Discuss the dual-clutch transaxle.
10. Describe the diagnostic and service procedures for a dual clutch transmission/transaxle system.



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

1. Task Sheet: Continuously Variable Transmission
2. Crossword Puzzle and Word Search
3. Chapter PowerPoint
4. Videos: [\(A2\) Automatic Transmissions and Transaxles Videos](#)
5. Animations: [\(A2\) Automatic Transmissions and Transaxles Animations](#)



ACTIVITIES:

1. Task Sheet: Continuously Variable Transmission
2. 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: