

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 133 – Automatic Transmission Transaxle Principles

### Lesson Plan

#### CHAPTER SUMMARY:



1. Torque converters, lockup torque converter, shift modes, and planetary gear sets
  2. Compound planetary gear set, automatic transaxles, and nonplanetary gear automatic transaxles
  3. Continuously variable transmission and dual clutch automatic transmissions
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#### OBJECTIVES:



1. Explain the purpose, function, and operation of torque converters.
  2. Explain the purpose, function, and operation of lockup torque converters.
  3. Describe the various shift modes.
  4. Discuss planetary gear sets and compound planetary gear sets.
  5. Discuss automatic transaxles and nonplanetary gear automatic transaxles.
  6. Discuss the operation and servicing of continuously variable transmission.
  7. Explain how a dual clutch automatic transmission works.
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**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>) Internet access required to hyperlink.



1. Task Sheet ASE (A2-A-2) P-1: Automatic Transmission/Transaxle ID
  2. Task Sheet ASE (A2-A-5) P-1 (MLR only): Identify Drivetrain Components
  3. Chapter PowerPoint
  4. Chapter Crossword Puzzle and Word Search
  5. Videos: [\(A2\) Automatic Transmissions and Transaxles Videos](#)
  6. Animations: [\(A2\) Automatic Transmissions and Transaxles Animations](#)
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#### ACTIVITIES:



1. Task Sheet ASE (A2-A-2) P-1: Have students complete Automatic Transmission/Transaxle ID Task Sheet.
  2. Task Sheet ASE (A2-A-5) P-1 (MLR only): Have students complete Identify Drivetrain Components Task Sheet.
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#### ASSIGNMENTS:



1. Chapter crossword and word search puzzles.
  2. Complete end of chapter 10 question quiz.
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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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