

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

## Chapter 136 – Automatic Transmission/Transaxle Unit Repair

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Verify the need for unit repair and removing the automatic transmission/transaxle for service
  2. Automatic transmission/transaxle disassembly
  3. Reassembling an automatic transmission/transaxle and flushing the cooler and torque converter
  4. Dynamometric testing the automatic transmission/transaxle
  5. Reinstalling the automatic transmission/transaxle and road test
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#### **OBJECTIVES:**

1. Discuss the steps involved in removing and disassembling the automatic transmission/transaxle.
  2. Describe how to reassemble, reinstall, and test an automatic transmission/transaxle.
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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-B-2) P-2: Replace Seals and Gaskets
  2. Task Sheet ASE (A2-C-1) P-2: Remove/Install Auto Transmission/Transaxle
  3. Task Sheet ASE (A2-C-6) P-1: Disassemble Auto Transmission/Transaxle
  4. Task Sheet ASE (A2-C-7) P-2: Inspect and Service Valve Body Assembly
  5. Task Sheet ASE (A2-C-8) P-2: Inspect Servo Bore, Piston, and Seals
  6. Task Sheet ASE (A2-C-9) P-1: Assemble Automatic Transmission/Transaxle
  7. Task Sheet ASE (A2-B-2) P-2: Flush Cooler Lines
  8. Task Sheet ASE (A2-C-3) P-2: Inspect Converter Flex Plate
  9. Task Sheet ASE (A2-C-1) P-2: Install Torque Converter
  10. Task Sheet ASE (A2-C-10) P-2: Inspect Oil Pump Assembly
  11. Task Sheet ASE (A2-C-11) P-1: Endplay/Preload Measurement
  12. Task Sheet ASE (A2-C-12) P-2: Thrust Washer and Bearing Inspection
  13. Task Sheet ASE (A2-C-13) P-2: Inspect Oil Seals and Grooves
  14. Task Sheet ASE (A2-C-14) P-2: Bushing Inspection
  15. Task Sheet ASE (A2-C-15) P-2: Planetary Gear Assembly Inspection
  16. Task Sheet ASE (A2-C-16) P-2: Auto Transmission/Transaxle Case Inspection
  17. Task Sheet ASE (A2-C-17) P-2: Transaxle Drive Chain Inspection
  18. Task Sheet ASE (A2-C-18) P-2: Transaxle Final Drive Inspection
  19. Task Sheet ASE (A2-C-19) P-2: Clutch Drum Assembly Inspection
  20. Task Sheet ASE (A2-C-20) P-1, (A2-C-21) P-1: Clutch Pack Clearance and Air Check
  21. Task Sheet ASE (A2-C-22) P-2: Inspect One-Way Clutches
  22. Task Sheet ASE (A2-C-4) P-3: Continuously Variable Transmission
  23. Task Sheet ASE (A2-C-5) P-3: Hybrid Vehicle Drive Train
  24. Chapter PowerPoint
  25. Chapter Crossword Puzzle and Word Search
  26. Videos: [\(A2\) Automatic Transmissions and Transaxles Videos](#)
  27. Animations: [\(A2\) Automatic Transmissions and Transaxles Animations](#)
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#### **ACTIVITIES:**

1. **Task Sheet ASE (A2-B-2) P-2:** Have students complete Replace Seals and Gaskets Task Sheet.
  2. **Task Sheet ASE (A2-C-1) P-2:** Have students complete Remove/Install Auto Transmission/Transaxle Task Sheet.
  3. **Task Sheet ASE (A2-C-6) P-1:** Have students complete Disassemble Auto Transmission/Transaxle Task Sheet.
  4. **Task Sheet ASE (A2-C-7) P-2:** Have students complete Inspect and Service Valve Body Assembly Task Sheet.
  5. **Task Sheet ASE (A2-C-8) P-2:** Have students complete Inspect Servo Bore, Piston, and Seals Task Sheet.
  6. **Task Sheet ASE (A2-C-9) P-1:** Have students complete Assemble Automatic Transmission/Transaxle Task Sheet.
  7. **Task Sheet ASE (A2-B-2) P-2:** Have students complete Flush Cooler Lines Task Sheet.
  8. **Task Sheet ASE (A2-C-3) P-2:** Have students complete Inspect Converter Flex Plate Task Sheet.
  9. **Task Sheet ASE (A2-C-1) P-2:** Have students complete Install Torque Converter Task Sheet.
  10. **Task Sheet ASE (A2-C-10) P-2:** Have students complete Inspect Oil Pump Assembly Task Sheet.
  11. **Task Sheet ASE (A2-C-11) P-1:** Have students complete Endplay/Preload Measurement Task Sheet.
  12. **Task Sheet ASE (A2-C-12) P-2:** Have students complete Thrust Washer and Bearing Inspection Task Sheet.
  13. **Task Sheet ASE (A2-C-13) P-2:** Have students complete Inspect Oil Seals and Grooves Task Sheet.
  14. **Task Sheet ASE (A2-C-14) P-2:** Have students complete Bushing Inspection Task Sheet.
  15. **Task Sheet ASE (A2-C-15) P-2:** Have students complete Planetary Gear Assembly Inspection Task Sheet.
  16. **Task Sheet ASE (A2-C-16) P-2:** Have students complete Auto Transmission/Transaxle Case Inspection Task Sheet.
  17. **Task Sheet ASE (A2-C-17) P-2:** Have students complete Transaxle Drive Chain Inspection Task Sheet.
  18. **Task Sheet ASE (A2-C-18) P-2:** Have students complete Transaxle Final Drive Inspection Task Sheet.
  19. **Task Sheet ASE (A2-C-19) P-2:** Have students complete Clutch Drum Assembly Inspection Task Sheet.
  20. **Task Sheet ASE (A2-C-20) P-1, (A2-C-21) P-1:** Have students complete Clutch Pack Clearance and Air Check Task Sheet.
  21. **Task Sheet ASE (A2-C-22) P-2:** Have students complete Inspect One-Way Clutches Task Sheet.
  22. **Task Sheet ASE (A2-C-4) P-3:** Have students complete Continuously Variable Transmission Task Sheet.
  23. **Task Sheet ASE (A2-C-5) P-3:** Have students complete Hybrid Vehicle Drive Train 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:**

