

Automotive Technology 7th Edition

Chapter 133 – 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, and Reassembling an Automatic Transmission/Transaxle
3. Flushing the Cooler and Torque Converter
4. Dynamometer Testing the Automatic Transmission/Transaxle
5. Reinstalling the Automatic Transmission/Transaxle, and Road Test



OBJECTIVES:

1. Explain how to verify the need for unit repair.
2. Discuss the steps involved in removing the automatic transmission/transaxle.
3. Discuss the steps involved in disassembling the automatic transmission/transaxle.
4. Describe how to reassemble an automatic transmission/transaxle.
5. Discuss how to flush the cooler and torque converter.
6. Discuss dynamometer testing the automatic transmission/transaxle.
7. Describe how to reinstall the automatic transmission/transaxle.
8. Describe road testing.



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

1. Task Sheet: Inspect Converter Flex Plate
2. Task Sheet: Inspect Oil Pump Assembly
3. Task Sheet: Inspect Servo Bore, Piston, and Seals
4. Task Sheet: Clutch Pack Clearance and Air Check
5. Task Sheet: Inspect One-Way Clutches
6. Task Sheet: Thrust Washer and Bearing Inspection
7. Task Sheet: Inspect Oil Delivery Circuits
8. Task Sheet: Bushing Inspection
9. Task Sheet: Planetary Gear Assembly Inspection
10. Task Sheet: Clutch Drum Assembly Inspection
11. Task Sheet: Inspect and Service Valve Body Assembly
12. Task Sheet: Inspect/ Replace Seals and Gaskets
13. Task Sheet: Endplay/Preload Measurement
14. Task Sheet: Remove/Install Auto Transmission/Transaxle
15. Task Sheet: Disassemble Auto Transmission/Transaxle
16. Task Sheet: Assemble Automatic Transmission/Transaxle
17. Crossword Puzzle and Word Search
18. Chapter PowerPoint
19. Videos: [\(A2\) Automatic Transmissions and Transaxles Videos](#)
20. Animations: [\(A2\) Automatic Transmissions and Transaxles Animations](#)

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ACTIVITIES:

1. Task Sheet: Inspect Converter Flex Plate
2. Task Sheet: Inspect Oil Pump Assembly
3. Task Sheet: Inspect Servo Bore, Piston, and Seals
4. Task Sheet: Clutch Pack Clearance and Air Check
5. Task Sheet: Inspect One-Way Clutches
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12. Task Sheet: Inspect/ Replace Seals and Gaskets
13. Task Sheet: Endplay/Preload Measurement
14. Task Sheet: Remove/Install Auto Transmission/Transaxle
15. Task Sheet: Disassemble Auto Transmission/Transaxle
16. Task Sheet: Assemble Automatic Transmission/Transaxle
17. 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.
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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:
