

Automotive Technology 6th Edition

Chapter 134 – Hydraulic Components and Control Systems

Lesson Plan



CHAPTER SUMMARY:

1. Automatic transmission fluid, automatic transmission fluid cooler, and transmission oil pump
 2. Apply or holding devices, bands, multiple-plate clutches, accumulators, and one-way clutches
 3. Valve body and hydraulically controlled transmission valves
 4. Electronically controlled transmissions and typical torque flow
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OBJECTIVES:

1. Discuss the different types of automatic transmission fluid.
 2. Explain the function of automatic transmission fluid coolers, pumps, and apply/holding devices.
 3. Discuss bands, multi-plate clutches, accumulators, and one-way clutches.
 4. Explain the construction of a valve body and discuss the operation of hydraulically controlled transmission valves.
 5. Explain electronically controlled transmissions and discuss the typical torque flow in these transmissions.
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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-12) P-2:** Diagnose Hydraulic Pressure Concerns
 2. **Task Sheet ASE (A2-B-2) P-2:** Inspect Seals and Gaskets
 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-12) P-2:** Have students complete Diagnose Hydraulic Pressure Concerns Task Sheet.
 2. **Task Sheet ASE (A2-B-2) P-2:** Have students complete Inspect Seals and Gaskets 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:
