**Automatic Transmissions and Transaxles 8th Edition**

**Chapter 4 –** **Automatic Transmission/Transaxle Hydraulic System**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. The Hydraulic System, Hydraulic Principles, Pumps, Hydraulic Valves, and Valve Body

2. Pressure Regulation, Manual Valve, and Hydraulic Seals

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**OBJECTIVES:**

1. Discuss hydraulic principles and Pascal’s law.

2. Describe the types and operation of automatic transmission/transaxle pumps.

3. Explain the different methods for controlling fluid flow and regulating pressure.

4. Identify the types of hydraulic seals. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**RESOURCES:** (All resources may be found at http://www.jameshalderman.com)

1. Task Sheet: Inspect Oil Pump Assembly

2. Chapter PowerPoint

3. Crossword Puzzle and Word Search

4. Videos: [(A2) Automatic Transmissions and Transaxles Videos](https://jameshalderman.com/a2_vid_lib_page/)

5. Animations: [(A2) Automatic Transmissions and Transaxles Animations](https://jameshalderman.com/a2_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Inspect Oil Pump Assembly

2. Crossword Puzzle and Word Search

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**ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.

2. Complete end of chapter 10 question quiz.

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:**

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