**Automatic Transmissions and Transaxles 8th Edition**

**Chapter 7 –** **Power Flow Through Transmission Gears**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Planetary Gear Sets, Park Position, Transmission Schematics, and Simpson Gear Train Types

2. Ravigneaux Gear Sets, LePelletier Gear Train, GM 4L60-E and Others, 4T60/AX4N, and Ford CD4E

3. GM 6T70/Ford 6F50, Ratio Spread and Nonplanetary Gear Sets

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**OBJECTIVES:**

1. Explain how power can be transferred through planetary gear sets to produce the various ratios.

2. Discuss the Simpson gear set and identify the different types of Simpson gear trains.

3. Discuss the Ravigneaux gear set.

4. Explain the operation of the LePelletier gear train. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Automatic Transmission/Transaxle Identification

2. Task Sheet: Transmission/Transaxle Power Flow Principles

3. Chapter PowerPoint

4. Crossword Puzzle and Word Search

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

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

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**ACTIVITIES:**

1. Task Sheet: Automatic Transmission/Transaxle Identification

2. Task Sheet: Transmission/Transaxle Power Flow Principles

3. 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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