**Automatic Transmissions and Transaxles 8th Edition**

**Chapter 19 –** **Transmission/Transaxle Assembly and Installation**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Component Cleaning, Brushing, Bearing, and Thrust Washers Service, and Friction Material Service

2. Internal Seal and Ring Service, Subassemblies, Case Service, Pump Service, and Clutch Service

3. One-Way Clutch Service, Gear Set Service, Air Testing, Final Assembly, and Dynamometer Testing

4. Transmission Installation

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**OBJECTIVES:**

1. Identify the different methods of component cleaning.

2. Explain bushing, bearing, and thrust washer service.

3. Discuss friction material service.

4. Explain internal seal and ring service.

5. Describe the procedure for performing case and pump service.

6. Explain the procedure for clutch disassembly and assembly.

7. Discuss gear set service and air testing.

8. Explain the procedure to perform a final transmission assembly.

9. List the steps involved in installing a transmission/transaxle. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Inspect Seals and Gaskets

2. Task Sheet: Assemble Automatic Transmission/Transaxle

3. Task Sheet: Endplay/Preload Measurement

4. Task Sheet: Relearn Procedures

5. Chapter PowerPoint

6. Crossword Puzzle and Word Search

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

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

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**ACTIVITIES:**

1. Task Sheet: Inspect Seals and Gaskets

2. Task Sheet: Assemble Automatic Transmission/Transaxle

3. Task Sheet: Endplay/Preload Measurement

4. Task Sheet: Relearn Procedures

5. 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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