Manual Drivetrains and Axles 9th Edition Chapter 5 – Manual Transmissions Parts and Operation

CHAPTER SUMMARY:



- 1. Purpose of Manual Transmissions, Construction, Reverse, Speed Hears, and Synchronizers
- 2. Five-Speed Transmission Torque Flow, Shift Mechanisms, and Manual Transmission Gears
- 3. Transmission Case and Bearing and Manual Transmission Lubrication

OBJECTIVES:



- 1. Explain the construction of a manual transmission.
- 2. Discuss synchronizer operation.
- 3. Explain five-speed transmission torque flow.
- 4. Discuss shifter operation.
- 5. Explain the construction of manual transmission gears.
- 6. Discuss the purpose of transmission cases and bearings.



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

- 1. Task Sheet: Manual Transmission/ Transaxle Identification
- 2. Chapter PowerPoint
- 3. Crossword Puzzle and Word Search
- 4. Videos: (A3) Manual Drive Train Axles Videos
- 5. Animations: (A3) Manual Drive Train Axles Animations

DEMO

ACTIVITIES:

- 1. Manual Transmission/ Transaxle Identification
- 2. Crossword Puzzle and Word Search



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.



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.



NOTES AND EVALUATION:

