

Automotive Technology 7th Edition

Chapter 8 – Fasteners and Thread Repair

Lesson Plan



CHAPTER SUMMARY:

1. Threaded Fasteners, Bolts, Tensile Strength, Nuts, Tap and Dies, and Sheet Metal Screws
- 2., Washers, Snap Rings and Clips, Broken Fastener Removal, and Thread Repair Inserts



OBJECTIVES:

1. Explain the strength ratings of threaded fasteners.
2. Discuss metric bolts and grades of bolts.
3. Define tensile strength.
4. Discuss the purpose of nuts.
5. Discuss how taps and dies are used.
6. Discuss how sheet metal screws are used.
7. Discuss how washers are used.
8. Discuss how snap rings and clips are used.
9. Explain how to avoid broken fasteners.
10. Compare the different types of thread repair inserts.



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

1. Task Sheet: Thread Repair
2. Chapter PowerPoint
3. Crossword Puzzle and Word Search
4. Videos: [\(A0\) Automotive Fundamentals Videos](#)
5. Animations: [\(A0\) Automotive Fundamentals Animations](#)



ACTIVITIES:

1. Task Sheet: Thread Repair
2. Crossword Puzzle and Word Search



ASSIGNMENTS:

1. Chapter crossword and word search puzzles from the website.
2. Complete end of chapter quiz from the textbook.
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: