

Automotive Technology 6th Edition

Chapter 8 – Fasteners and Thread Repair

Lesson Plan

CHAPTER SUMMARY:



1. Threaded fasteners, metrics bolts, grades of bolts, tensile strength, and nuts
 2. Taps and dies
 3. Thread pitch gauge, sheet metal screws, washers, snaps rings, and clips
 4. Broken fastener removal and thread repair inserts
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OBJECTIVES:



1. Identify bolts and explain the strength ratings of threaded fasteners.
 2. Discuss the purpose of nuts, taps, dies, thread pitch gauges, screws, and washers.
 3. Discuss how snap rings and clips are used.
 4. Explain how to avoid broken fasteners.
 5. Compare the different types of thread repair inserts.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)



1. **Task Sheet ASE (A1-A-7) P-1:** Thread Repair
 2. Chapter PowerPoint
 3. Chapter Crossword Puzzle and Word Search
 4. Animations: Bolt Threads
 5. Animations: Bolt Size
 6. Animations: Measuring Thread Pitch
 7. Animations: Installing a Thread Insert
 8. Videos: Removing Broken Fasteners (time 29:18)
 9. Videos: Removing Plastic Auto Body Fasteners (time 2:03)
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ACTIVITIES:



1. **Task Sheet NATEF (A1-A-7) P-1:** Have students complete Thread Repair Task Sheet.
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ASSIGNMENTS:



1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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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:

