

# Automotive Technology 6<sup>th</sup> 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>) Internet access required to hyperlink.

1. **Task Sheet ASE (A1-A-7) P-1:** Thread Repair
  2. Chapter PowerPoint
  3. Chapter Crossword Puzzle and Word Search
  4. Videos: [\(A0\) Automotive Fundamentals Videos](#)
  5. Animations: [\(A0\) Automotive Fundamentals Animations](#)
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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:**

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