

# Automotive Electrical and Engine Performance - 9th edition

## Ch13: Starting System Parts and Operation

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Cranking Circuit, Push Button Start, Starter Motor Operation, and Starter Motor Components
  2. Gear-Reduction Starters, Starter Drives, Starter Solenoids, and Stop-Start Systems
- 



#### **OBJECTIVES:**

1. Describe the parts and operation of a cranking circuit.
  2. Explain push button starting.
  3. Discuss starter motor operation.
  4. Explain the components of a starter motor.
  5. Describe gear reduction starters.
  6. Describe the function of starter drives.
  7. Describe the function of solenoids.
  8. Discuss stop-start system operation.
- 



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

1. Task Sheet: Starter Relays and Solenoids
  2. Crossword Puzzle and Word Search
  3. Videos: (A6) Electrical/Electronic Systems Videos
  4. Animations: (A6) Electrical/Electronic Systems Animations
- 



#### **ACTIVITIES:**

1. Task Sheet: Starter Relays and Solenoids
  2. Chapter PowerPoint
  3. 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. Ten (10) question end of [Chapter Quiz](#).
  3. Five (5) end of chapter [Review Question](#) for class discussion.
- 



#### **NOTES AND EVALUATION:**

---