

Automotive Electricity and Electronics

Chapter 11 – Automotive Wiring and Wire Repair

Lesson Plan



CHAPTER SUMMARY:

1. Automotive Wiring, Ground Wires, Battery Cables, and Jumper Cables
 2. Fuses and Circuit Protection Devices, and Terminals and Connectors
 3. Wire Repair and Electrical Conduit
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OBJECTIVES:

1. Explain automotive wiring and wire gauge systems.
 2. Explain the purpose of ground wires, battery cables, and jumper cables.
 3. Describe how fuses, fusible links, circuit breakers, and PTC circuit protector protect circuits and wiring.
 4. List the steps for removing a terminal from a connector.
 5. List the steps for performing each method of wire repair.
 6. explain the types of electrical conduit.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))

1. Task Sheet: Fusible Links, Circuit Breakers, and Fuses
 2. Task Sheet: Inspect and Test the Switches and Relays
 3. Task Sheet: Wire Repair
 4. Chapter PowerPoint
 5. [Crossword and Word Search Puzzles \(A6\)](#)
 6. [Videos: \(A6\) Electrical/Electronic Systems](#)
 7. [Animations: \(A6\) Electrical/Electronic Systems](#)
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ACTIVITIES:

1. Task Sheet: Fusible Links, Circuit Breakers, and Fuses
 2. Task Sheet: Inspect and Test the Switches and Relays
 3. Task Sheet: Wire Repair
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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.
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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:
