

Automotive Technology 7th Edition

Chapter 41 – Automotive Wiring and Wire Repair

Lesson Plan



CHAPTER SUMMARY:

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



OBJECTIVES:

1. Explain automotive wiring and wire gauge systems.
2. Explain the purpose of ground wires.
3. Explain the purpose of battery cables.
4. Explain the purpose of jumper cables.
5. Describe how fuses, fusible links, circuit breakers, and PTC devices protect circuits and wiring.
6. List the steps for removing a terminal from a connector.
7. List the steps for performing each method of wire repair.
8. Explain the types of electrical conduit. Explain automotive wiring and wire gauge systems.



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

1. Task Sheet: Fusible Links, Circuit Breakers, and Fuses
2. Task Sheet: Inspect Wiring and Connectors
3. Task Sheet: Wire Harness and Connector Repair
4. Task Sheet: Solder Wire Repair
5. Chapter PowerPoint
6. Crossword Puzzle and Word Search
7. Videos: [\(A6\) Electrical/Electronic Systems Videos](#)
8. Animations: [\(A6\) Electrical/Electronic Systems Animations](#)



ACTIVITIES:

1. Task Sheet: Fusible Links, Circuit Breakers, and Fuses
2. Task Sheet: Inspect Wiring and Connectors
3. Task Sheet: Wire Harness and Connector Repair
4. Task Sheet: Solder Wire Repair
5. 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: