

Automotive Technology 6th Edition

Chapter 40 – Electric Circuits and Ohm’s Law

Lesson Plan



CHAPTER SUMMARY:

1. Circuits and circuit fault types
 2. Ohm’s Law
 3. Watt’s Law
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OBJECTIVES:

1. Identify the parts of a complete circuit.
 2. Describe the characteristics of different types of circuit.
 3. Explain Ohm’s law as it applies to automotive circuits.
 4. Explain Watt’s law as it applies to automotive circuits.
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet:** Electrical Circuits
 2. Chapter PowerPoint
 3. Chapter Crossword Puzzle and Word Search
 4. Animations: Ohm’s Law - Current, Ohm’s Law - Resistance, and Ohm’s Law - Volt
 5. Videos: Ohm’s Law (time 7:09), Voltage drop part 1 (time 2:01), and Voltage drop part 2 (time 2:25)
 6. Videos: Voltage drop part 3 (time 3:16), Voltage drop part 4 (time 2:23), and Ampere draw (time 1:42)
 7. Videos: Basics (time 10:14) and Ohm’s Law Series and Parallel (time 24:04)
 8. Videos: Ohm’s Law explained (time 11:47)
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ACTIVITIES:

1. **Task Sheet:** Have students complete Electrical Circuits 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:
