

# Automotive Electricity and Electronics

## Chapter 28 – Body Electrical Accessories

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Horns, Horn Diagnosis, Windshield Wipers, Windshield Washers, and Rain-Sense Wipers
2. Blower Motor, Cruise Control, Heated Rear Window Defoggers, and Power Windows
3. Electric Power Door Locks, Trunk/Lift Gate Locks, and Power Sun/Moon Roof
4. Sun Shades, Power Seats, Electrically Heated Seats, and Heated and Cooled Seats
5. Heated Steering Wheel, Heated Mirrors, Adjustable Pedals, and Folding Outside Mirrors
6. Keyless Entry, Garage Door Opener, and Remote Start



#### **OBJECTIVES:**

1. Describe how the horn operates and diagnose faulty horn operation.
2. Explain the testing and diagnosis of windshield wipers and windshield washers.
3. Describe the operation of cruise control.
4. Discuss electrically heated rear window defogger systems.
5. Explain the operation and testing procedures for power windows and locks.
6. Discuss the operation of power sunroofs, moon roofs, and sun shades.
7. Describe the operation of power seats and heated/cooled seats, plus heated steering wheels and mirrors.
8. Explain the operation of adjustable pedals and folding outside mirrors.
9. Describe the operation and diagnosis of remote keyless entry, garage door openers, and remote start systems.



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

1. Task Sheet: Power Windows
2. Task Sheet: Heated Glass Operation
3. Task Sheet: Power Door Locks
4. Task Sheet: Cruise Control
5. Task Sheet: Door Panel
6. Task Sheet: Body Electronic System Diagnosis
7. Task Sheet: Anti-Theft and Keyless Entry Systems
8. Chapter PowerPoint
9. [Crossword and Word Search Puzzles \(A6\)](#)
10. [Videos: \(A6\) Electrical/Electronic Systems](#)
11. [Animations: \(A6\) Electrical/Electronic Systems](#)



#### **ACTIVITIES:**

1. Task Sheet: Power Windows
2. Task Sheet: Heated Glass Operation
3. Task Sheet: Power Door Locks
4. Task Sheet: Cruise Control
5. Task Sheet: Door Panel
6. Task Sheet: Body Electronic System Diagnosis
7. Task Sheet: Anti-Theft and Keyless Entry Systems

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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:**

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