

# Automotive Technology 7<sup>th</sup> Edition

## Chapter 57 – 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 Window
3. Electric Power Door Locks, Trunk/Lift Gate Locks, Power Sun Roof/Moon Roof, and Sun Shades
4. Power Seats, Heated and Cooled Seats, and Heated Steering Wheel, and Heated Mirrors
5. Adjustable Pedals, Folding Outside Mirrors, Keyless Entry, Garage Door Opener, and Remote Start
6. Body Electrical Systems Diagnosis



#### **OBJECTIVES:**

1. Describe how the horn operates.
2. Diagnose faulty horn operation.
3. Explain the testing and diagnosis of windshield wipers.
4. Explain the testing and diagnosis of windshield washers.
5. Describe how rain-sense wipers operate and are serviced.
6. Describe the operation of the blower motor.
7. Describe the operation of cruise control.
8. Discuss electrically heated rear window defogger systems.
9. Explain the operation and testing procedures for power windows.
10. Discuss electric power door locks and trunk/lift gate locks.
11. Discuss the operation of power sun roofs/moon roofs and sun shades.
12. Describe the operation of power seats.
13. Describe the operation of electrically heated seats and cooled seats.
14. Describe the operation of heated steering wheels.
15. Describe the operation of heated mirrors.
16. Explain the operation of adjustable pedals and folding outside mirrors.
17. Describe the operation and diagnosis of remote keyless entry.
18. Describe the operation and diagnosis of garage door openers.
19. Discuss remote start systems.
20. Explain the diagnosis of body electrical communications systems and describe the process to reprogram electronic modules.



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

1. Task Sheet: Horns – Operation & Diagnosis
2. Task Sheet: Windshield Wiper/Washer Operation
3. Task Sheet: Power Window Diagnosis
4. Task Sheet: Remove Door Panel
5. Task Sheet: Body Electronic Diagnosis with Scan Tool
6. Task Sheet: Comfort and Convenience Accessories
8. Chapter PowerPoint
9. Crossword Puzzle and Word Search
10. Videos: [\(A6\) Electrical/Electronic Systems Videos](#)
11. Animations: [\(A6\) Electrical/Electronic Systems Animations](#)

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#### **ACTIVITIES:**

1. Task Sheet: Horns – Operation & Diagnosis
2. Task Sheet: Windshield Wiper/Washer Operation
3. Task Sheet: Power Window Diagnosis
4. Task Sheet: Remove Door Panel
5. Task Sheet: Body Electronic Diagnosis with Scan Tool
6. Task Sheet: Comfort and Convenience Accessories
7. Crossword Puzzle and Word Search



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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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