

# Automotive Technology 6<sup>th</sup> Edition

## Chapter 59 – Immobilizer Systems

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Vehicle security systems and immobilizer systems
  2. Chrysler immobilizer system, Ford PATS system, and GM antitheft system
  3. Testing immobilizer systems
- 



#### **OBJECTIVES:**

1. Describe the purpose and function of a security system.
  2. Explain how an immobilizer system works and identify its major component.
  3. Compare immobilizer systems in Chrysler, Ford, and General Motors vehicles.
  4. Explain how to diagnose a fault with an immobilizer system.
- 



**RESOURCES:** (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A6-G-4) P-2:** Power Accessory Diagnosis
  2. **Task Sheet:** Door Panel
  3. **Task Sheet ASE (A6-G-5) P-2, A6-G-6) P-2:** Body and Module Communication Diagnosis
  4. **Task Sheet ASE (A6-G-2) P-2:** Keyless Entry and Anti-Theft Diagnosis
  5. Chapter PowerPoint
  6. Chapter Crossword Puzzle and Word Search
  7. Animations: Antitheft System, Oil Pressure Gauge, Power Door Locks, and Power Seat Control
  8. Animations: Power Window Regulator, Power Windows, and Radar Cruise Control
  9. Videos: See list at the end of the lesson plan.
- 



#### **ACTIVITIES:**

1. **Task Sheet ASE (A6-G-4) P-2:** Have students complete Power Accessory Diagnosis Task Sheet.
  2. **Task Sheet:** Have students complete Door Panel Task Sheet.
  3. **Task Sheet ASE (A6-G-5) P-2, A6-G-6) P-2:** Have students complete Body and Module Communication Diagnosis Task Sheet.
  4. **Task Sheet ASE (A6-G-2) P-2:** Have students complete Keyless Entry and Anti-Theft Diagnosis Task Sheet.
- 



#### **ASSIGNMENTS:**

1. Chapter crossword and word search puzzles.
  2. Complete end of chapter 10 question quiz.
- 



#### **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](#).
-

**Automotive Technology 6<sup>th</sup> Edition**  
**Chapter 59 – Immobilizer Systems**  
**Lesson Plan**

**NOTES AND EVALUATION:**



---

**Videos:** (at <http://www.jameshalderman.com>)

Cruise control and wiring diagram (time 3:33)  
Power locks and wiring diagrams (time 3:47)  
Power windows and wiring diagrams part 1 (time 6:47)  
Power windows and wiring diagrams part 2 (time 6:01)  
RAP relay (time 9:03)  
Chevy power window (time 9:50)  
Power sliding door inoperative (time 5:22)  
Radio removal (time 4:06)  
Rear window defogger (time 3:17)  
RKE receiver (time 2:40)  
Cigarette lighter removal (time 4:23)  
Anti-theft (time 4:28)  
Power window diagnosis (time 12:27)  
Power Door Lock Troubleshooting (time 1:51)  
Disabling an Airbag (time 8:25)  
Door Panel Removal (time 3:07)  
Wiper Blade Replacement (time 3:18)