

Automotive Technology 7th Edition

Chapter 54 – Driver Information and Navigation Systems

Lesson Plan



CHAPTER SUMMARY:

1. Dash Warning Symbols, Steering Wheel Controls, Voice Activation, and Maintenance Indicators
2. Analog and Digital Displays, Head-Up Display, Night Vision, Electric Displays, and Virtual Display
3. Touch Screens, Speedometers/Odometers, Dash Gauges, Navigation and GPS, and Telematics
4. Backup Camera



OBJECTIVES:

1. Identify the meaning of dash warning symbols.
2. Describe steering wheel controls.
3. Describe voice activation.
4. Describe maintenance indicators.
5. Describe analog and digital displays.
6. Discuss the operation of a head-up display.
7. Discuss the operation of night vision systems.
8. Discuss the operation of electronic displays.
9. Discuss the operation of virtual displays.
10. Discuss the operation of touch screens.
11. Describe how speedometers and odometers work.
12. Discuss the diagnosis of oil pressure lamp, temperature lamp, brake warning lamp, and other analog dash instruments.
13. Describe how a navigation system works.
14. Explain the operation and diagnosis of Telematics systems.
15. Explain the operation of a backup camera.



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

1. Task Sheet: Gauge Diagnosis
2. Task Sheet: Driver Information and Warning Devices
3. Task Sheet: Reset Maintenance Indicator
4. Chapter PowerPoint
5. Crossword Puzzle and Word Search
6. Videos: [\(A6\) Electrical/Electronic Systems Videos](#)
7. Animations: [\(A6\) Electrical/Electronic Systems Animations](#)



ACTIVITIES:

1. Task Sheet: Gauge Diagnosis
2. Task Sheet: Driver Information and Warning Devices
3. Task Sheet: Reset Maintenance Indicator
4. 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.

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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.

NOTES AND EVALUATION:

