

Automotive Electrical and Engine Performance - 9th edition

Ch20: Airbag and Pretensioner Circuits

Lesson Plan



CHAPTER SUMMARY:

1. Safety Belts and Retractors, Front Airbags, and Airbag Diagnosis Tools and Equipment
2. Airbag System Service and Driver Side Airbag Module Replacement
3. Safety When Manually Deploying Airbags and Occupant Detection Systems
4. Seat and Side Curtain Airbags and Event Data Recorders

OBJECTIVES:



1. Explain how safety belts and retractors function.
2. Explain the operation of front airbags.
3. Describe the procedures to diagnose common faults in airbag systems.
4. Describe the procedures to repair common faults in airbag systems.
5. Discuss driver side airbag module replacement.
6. Discuss safety issues when manually deploying airbags.
7. Explain how the passenger presence system works.
8. Describe how seat and side curtain airbags function.
9. Describe the data recorded by an event data recorder when an airbag is deployed.

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



1. Task Sheet: Disarm and Enable Airbags
2. Task Sheet: Airbag Diagnosis
3. Crossword Puzzle and Word Search
4. Videos: (A6) Electrical/Electronic Systems Videos
5. Animations: (A6) Electrical/Electronic Systems Animations

ACTIVITIES:



1. Task Sheet: Disarm and Enable Airbags
2. Task Sheet: Airbag Diagnosis
3. Crossword Puzzle and Word Search
4. Chapter PowerPoint
5. 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.

CLASS DISCUSSION:



1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
 2. Ten (10) question end of [Chapter Quiz](#).
 3. Five (5) end of chapter [Review Question](#) for class discussion.
-

Automotive Electrical and Engine Performance - 9th edition
Ch20: Airbag and Pretensioner Circuits
Lesson Plan

NOTES AND EVALUATION:


