

Automotive Technology 7th Edition

Chapter 76 – Gasoline Direct Injection Systems

Lesson Plan



CHAPTER SUMMARY:

1. Direct Fuel Injection, Direct-Injection Fuel Delivery System, Mode of Operation, and Piston Top Designs
2. Port- and Direct- Injection Systems, Engine Start Systems, and GDI Issues



OBJECTIVES:

1. Explain how a direct fuel-injection system works.
2. Describe the direct-injection fuel delivery system.
3. Describe modes of operation.
4. Discuss GDI piston designs.
5. Discuss port/direct injection systems.
6. Discuss engine start systems.
7. Discuss GDI service issues.



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

1. Task Sheet: Gasoline Direct Injection Identification
2. Chapter PowerPoint
3. Crossword Puzzle and Word Search
4. Videos: [\(A8\) Engine Performance Videos](#)
5. Animations: [\(A8\) Engine Performance Animations](#)



ACTIVITIES:

1. Task Sheet: Gasoline Direct Injection Identification
2. 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. Review and group discussion of the five (5) chapter [Review Questions](#).



NOTES AND EVALUATION: