

Automotive Electrical and Engine Performance - 9th edition

Ch39: Turbocharging and Supercharging

Lesson Plan



CHAPTER SUMMARY:

1. Forced Induction Principles, Super Chargers, Turbochargers, Turbocharger Failures, and Boost Control
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OBJECTIVES:

1. Discuss airflow requirements and volumetric efficiency of engines.
 2. Explain forced induction principles.
 3. Discuss superchargers.
 4. Discuss turbochargers.
 5. Discuss turbocharger failures.
 6. Explain boost control.
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RESOURCES: (All resources may be found at jameshalderman.com)

1. Task Sheet: Test Operation of Turbocharger/Supercharger
 2. Crossword Puzzle and Word Search
 3. Videos: (A8) Engine Performance Videos
 4. Animations: (A8) Engine Performance Animations
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ACTIVITIES:

1. Task Sheet: Test Operation of Turbocharger/Supercharger
 2. Chapter PowerPoint
 3. 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. Ten (10) question end of [Chapter Quiz](#).
 3. Five (5) end of chapter [Review Question](#) for class discussion.
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NOTES AND EVALUATION:
