Automotive Electrical and Engine Performance - 9th edition Ch39: Turbocharging and Supercharging Lesson Plan

CHAPTER SUMMARY:

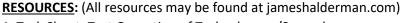


1. Forced Induction Principles, Super Chargers, Turbochargers, Turbocharger Failures, and Boost Control

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.





- 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

ACTIVITIES:



- 1. Task Sheet: Test Operation of Turbocharger/Supercharger
- 2. Chapter PowerPoint
- 3. 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 <u>Frequently Asked Questions</u> and <u>Tech Tips</u> sections.
- 2. Ten (10) question end of Chapter Quiz.
- 3. Five (5) end of chapter <u>Review Question</u> for class discussion.

NOTES AND EVALUATION:



