

Automotive Chassis Systems 8th Edition

Chapter 16 – Machining Brake Drums and Rotors

Lesson Plan



CHAPTER SUMMARY:

1. Brake Drums, Brake Drums and Rotor Damage, and Brake Drum Distortion
2. Removing Drums and “Machine To” versus “Discard”
3. Machining Brake Drums, Disc Brake Rotors, and Disc Brake Rotor Distortion
4. Carbon-Ceramic Rotors and Disc Brake Rotor Thickness
5. When the Rotors Should Be Machined and Rotor Finish
6. Qualifying a Brake Lathe and Machine a Disc Brake Rotor
7. On-The-Vehicle Rotor Machining

OBJECTIVES:



1. Describe the types of brake drums.
2. Explain the factors that cause rotor damage.
3. Discuss brake drum distortion and removal.
4. Explain how to machine a brake drum and when a brake drum should be discarded.
5. Explain the procedure for machining disc brake rotor.
6. Discuss disc brake rotors and causes of rotor distortion.
7. Explain when to machine a disk brake rotor, and discuss rotor thickness and finish.
8. Explain the procedure for qualifying a brake lathe.

RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))



1. Task Sheet: Brake Drum Service
2. Task Sheet: Brake Rotor Service
3. [Crossword Puzzle and Word Search](#)
4. [Videos: ASE A5 Brakes](#)
5. [Animations: ASE A5 Brakes](#)

ACTIVITIES:



1. Task Sheet: Brake Drum Service
2. Task Sheet: Brake Rotor Service

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:

