**Automotive Technology 7th Edition**

**Chapter 103 – Machining Brake Drums and Rotors**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Brake Drums, Brake Drum and Rotor Damage, Brake Drum Distortion, and Removing Drums

2. “Machine To” Versus “Discard”, Machining Brake Drums, and Disc Brake Rotors

3. Disc Brake Rotor Distortion, Carbon-Ceramic Rotors, and Disc Brake Rotor Thickness

4. When the Rotors Should be Machined, Rotor Finish, and Qualifying a Brake Lathe

5. Machining a Disc Brake Rotor, and On-The-Vehicle Rotor Machining

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**OBJECTIVES:**

1. Describe the types of brake drums.

2. Explain the factors that cause drum and rotor damage.

3. Discuss brake drum distortion.

4. Discuss brake drum removal.

5. Discuss “machine to” versus “discard.”

6. Explain how to machine a brake drum.

7. Discuss disc brake rotors.

8. Discuss disc brake rotor distortion.

9. Discuss carbon-ceramic rotors.

10. Discuss disc brake rotor thickness.

11. Discuss when the rotors should be machined.

12. Describe rotor surface finish.

13. Explain the procedure for qualifying a brake lathe.

14. Discuss machining a disc brake rotor.

15. Discuss on-the-vehicle rotor machining. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Brake Drum Service

2. Task Sheet: Brake Rotor Service

3. Crossword Puzzle and Word Search

4. Chapter PowerPoint

5. Videos: [(A5) Brakes Videos](https://jameshalderman.com/a5_vid_lib_page/)

6. Animations: [(A5) Brakes Animations](https://jameshalderman.com/a5_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Brake Drum Service

2. Task Sheet: Brake Rotor Service

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. Review and group discussion of the five (5) chapter Review Questions.

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**NOTES AND EVALUATION:**

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