

Automotive Technology 6th Edition

Chapter 104 – Drum Brake Diagnosis and Service

Lesson Plan



CHAPTER SUMMARY:

1. Drum brake diagnosis, brake drum removal, and drum brake disassembly
 2. Inspecting the backing plate, drum brake lining inspection, and brake spring inspection
 3. Wheel cylinder inspection, drum brake hardware kit, and inspecting the drum brakes shoes
 4. Brake parts cleaning, lubrication checklist, reassembling the drum brake, adjusting drum brakes
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OBJECTIVES:

1. Discuss the procedures recommended for brake drum diagnosis, removal, and disassembly.
 2. Discuss the procedure for inspecting drum brake parts.
 3. Describe how to clean, lubricate, reassemble, and adjust drum brake parts.
 4. Describe the symptoms of a faulty drum brake.
 5. This chapter will help prepare for the Brakes (A5) ASE certification test content area “B” (Drum Brake Diagnosis and repair).
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RESOURCES: (All resources may be found at <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A5-C-1) P-1:** Drum Brake Problem Diagnosis
 2. **Task Sheet ASE (A5-C-4) P-1, (A5-C-5) P-2, (A5-C-6) P-1:** Drum Brake Service
 3. **Task Sheet ASE (A5-A-4) P-1:** Install Wheel and Torque Lug Nuts
 4. Chapter PowerPoint
 5. Chapter Crossword Puzzle and Word Search
 6. Animations: Disc Brake Apply & Release and Retract Caliper Piston
 7. Animations: Replace Brake Shoes and Drum Brake Operation
 8. Videos: See list at the end of the lesson plan
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ACTIVITIES:

1. **Task Sheet ASE (A5-C-1) P-1:** Have students complete Drum Brake Problem Diagnosis Task Sheet.
 2. **Task Sheet ASE (A5-C-4) P-1, (A5-C-5) P-2, (A5-C-6) P-1:** Have students complete Drum Brake Service Task Sheet.
 3. **Task Sheet ASE (A5-A-4) P-1:** Have students complete Install Wheel and Torque Lug Nuts Task Sheet.
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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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:



Videos: (at <http://www.jameshalderman.com>)

Brake shoe replacement (time 4:43)

Drum Brakes (time 8:09)

Drum Brake (time 1:27)

Drum Brake (time 8:19)

Single spring rear brakes (time 13:04)

Remove brake drums (time 2:21)

Replace drum brakes (time 19:50)

Mustang rear brake repair (time 9:11)

Rear brake (time 6:58)

Removing rear brake shoes and springs (time 1:17)

Rear drum brakes Cavalier (time 9:24)

Drum brake shoe replacement (time 9:40)

Drum brake inspection (time 4:55)

Rear brake job (time 14:00)

Rear brakes Odyssey (time 31:31)

Drum brake inspection (time 2:07)

Rear drum brakes (time 35:31)

Brake shoe replacement (time 4:43)

VW drum brakes (time 0:55)

Rear drum brakes (time 6:25)

Drum brake diagnosis part 1 (time 18:49)

Drum brake diagnosis part 2 (time 17:31)

Brake drum measurement (time 5:20)