

Automotive Technology 7<sup>th</sup> Edition  
Chapter 102: Parking Brake Operation, Diagnosis, and Service  
Short Answer Quiz

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. How does the parking brake system on a vehicle with rear drum brakes typically function, and what are the key components involved in its operation?

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2. Can you describe the mechanism by which an integral rear disc brake system's parking brake operates, particularly how it interacts with the caliper and piston?

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3. What is the proper procedure for adjusting a parking brake cable, and why is it crucial to ensure the rear brakes are inspected and adjusted before making cable adjustments?

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4. What are the two main types of electric parking brakes, and how do they differ in terms of their operation and components?

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5. What are the potential issues indicated by a swollen parking brake cable, and what steps should be taken to diagnose and resolve such a problem?

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6. Discuss the "Parking Brake Click" test, including how it is performed and what it can indicate about the condition of a vehicle's rear brakes.

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7. Explain the function of the vacuum servo in automatic parking brake release mechanisms and how it interacts with the parking brake release lever.

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8. What are the federal regulations regarding parking brake standards, and how did the introduction of dual or tandem master cylinders change the requirements for parking brake systems?

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9. Describe the process and importance of adjusting the parking brake at the equalizer, and how this adjustment relates to the overall brake system performance.

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10. In the context of electric parking brakes, how do computer-controlled motors attached to the calipers function differently from systems that use an electric motor to pull on the parking brake cable?

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