

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?

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?

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?

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

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.

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

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?

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.

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?