Automotive Technology 6th Edition
Chapter 105 - Disc Brakes
Chapter 105

Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What parts are included in a typical disc brake?

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_____

2) How does a low-drag caliper work?

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_____

3) Where are anti-rattle clips used?

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_____

4) What mechanism is used to apply the parking brake on a vehicle equipped with rear disc brakes?

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_____

5) What are the advantages and disadvantages of disc brakes?

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_____

1) A typical disc brake includes the caliper assembly, pads, clips, and mounting hardware.
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2) A low-drag caliper works by retracting the caliper piston further into the caliper bore and away from the rotor. In a low-drag caliper design, the groove for the square-cut
O-ring is V-shaped, allowing for more retraction.
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3) Manufacturers use specific lining materials that damp vibrations, and most calipers have anti-rattle clips or springs that hold the pads in the caliper under tension to help prevent vibration.
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4) A vehicle equipped with rear disc brakes uses either a mechanically actuated drum brake inside the rear rotors or a mechanically activated caliper piston.
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5) Disc brake advantages include: fade resistance, self-adjustment, and freedom from pull. Disadvantages include: lack of self-energizing or servo action, brake noise, brake dust, and poor parking brake performance.
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