

Name \_\_\_\_\_

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

1) Explain Pascal's Law.

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2) Discuss the difference between a front / rear split and a diagonal split master cylinder?

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3) What are some master cylinder fault symptoms?

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4) What is the difference between checking for venting (compensation) and bypassing?

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5) How does a master cylinder work?

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## Answer Key

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1) Pascal's Law states that when force is applied to a confined liquid, the pressure is equally transmitted undiminished and in every direction.

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2) A front/rear split hydraulic system separates the two front wheel brakes into one circuit and the two rear wheel brakes into another circuit whereas, a diagonally split system separates the brakes into right front and left rear on one circuit and left front and right rear on the other circuit.

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3) Some common master cylinder fault symptoms include:

- Spongy brake pedal.
- Lower-than-normal brake pedal
- Sinking brake pedal

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4) Venting occurs every time the brake pedal is depressed, which forces a small amount of brake fluid up into the master cylinder reservoir as the primary piston is moving forward. Bypassing is a fault where brake fluid from the rear circuit is forced into the front brake circuit.

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5) The force of the driver's foot on the brake pedal compresses brake fluid in the master cylinder using two pistons, one for each circuit.

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