

Name \_\_\_\_\_

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

1) Explain how to gravity bleed a brake hydraulic system.

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2) Describe how to vacuum bleed a brake hydraulic system.

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3) What are the equipment and the procedures needed to pressure bleed a brake hydraulic system?

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4) Describe how to bench bleed a master cylinder.

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5) What steps are necessary to manually bleed a brake hydraulic system?

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## Answer Key

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1) To gravity bleed a brake hydraulic system, simply open a bleeder(s) and allow gravity to force brake fluid downward and out of the open bleeder valve. Any trapped air will escape before the fluid flows.

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2) A vacuum pump is attached to the open bleeder valve and brake fluid is drawn from the wheel brake until all of the foam and air have been removed.

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3) A pressure bleeder and adapter are needed to pressure bleed a hydraulic brake system. Do not exceed 20 psi or the pressure specified by the vehicle manufacturer and follow the specified bleeding sequence.

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4) A master cylinder is bench bled by clamping the ears (not the housing) in a vise and stroking the master cylinder with tubes installed at the outlet until all of the air is bled from the unit.

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5) The steps necessary to manually bleed a hydraulic brake system includes: opening the bleeder, having an assistant slowly depress the brake pedal, closing the bleeder valve, having an assistant slowly release the brake pedal, and then wait 15 seconds.

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