

Brake bleeding #2

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) The usual maximum pressure that should be used when pressure bleeding a brake system is \_\_\_\_\_ 1) \_\_\_\_\_  
A) 30 psi B) 70 psi C) 50 psi D) 20 psi
- 2) In an overall bleeding sequence, which part should be bled first? 2) \_\_\_\_\_  
A) Master cylinder B) Brake calipers  
C) Combination valve D) Wheel cylinders
- 3) The brake bleeding procedure usually specified for a rear-wheel vehicle with a dual split master cylinder is \_\_\_\_\_. 3) \_\_\_\_\_  
A) RF, LR, LF, RR B) RR, LR, RF, LF C) LF, RF, LR, RR D) LR, RR, LF, RF

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

- 4) When bleeding wheel brakes, the bleeder screw is usually loosened one-half turn. 4) \_\_\_\_\_
- 5) Discharge the power brake booster before manually bleeding the brakes. 5) \_\_\_\_\_

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- 6) Two technicians are discussing how to loosen bleeder valves. Technician A says that a shock is usually necessary to break the taper at the base of the valve. Technician B says to apply steady, loosening torque to the bleeder valve using a 6-point wrench. Which technician is correct? 6) \_\_\_\_\_  
A) Technician A only B) Technician B only  
C) Both Technicians A and B D) Neither Technician A nor B
- 7) How does a bleeder valve seal? 7) \_\_\_\_\_  
A) Lip seal B) O-ring C) By the threads D) Tapered end
- 8) The brake fluid flushing procedure includes all of these EXCEPT \_\_\_\_\_. 8) \_\_\_\_\_  
A) Removing the old brake fluid B) Bleeding at all four wheels  
C) Adding new brake fluid D) Changing brake fluid filter
- 9) Manual brake bleeding \_\_\_\_\_. 9) \_\_\_\_\_  
A) Is the most commonly used method B) Requires two people  
C) Requires no special equipment or tools D) All of the above
- 10) While bleeding brakes, how long should you wait between strokes? 10) \_\_\_\_\_  
A) 10 seconds B) 30 seconds C) 5 seconds D) 15 seconds
- 11) The proper brake bleeding sequence for a front/rear split hydraulic system is \_\_\_\_\_. 11) \_\_\_\_\_  
A) Right rear, left rear, right front, left front B) Right front, right rear, left front, left rear  
C) Left front, left rear, right front, right rear D) Right rear, left front, right front, left rear

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

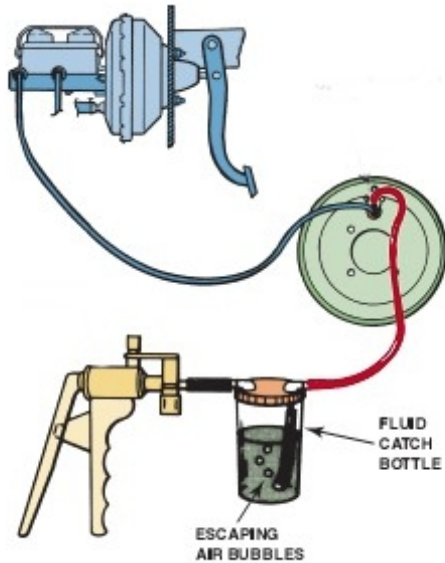
- 12) Pressure bleeders are charged to approximately 300 psi (2069 kPa). 12) \_\_\_\_\_

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- 13) Air in the brake hydraulic system can cause all of these EXCEPT \_\_\_\_\_. 13) \_\_\_\_\_  
A) Lower than normal brake pedal  
B) Hard brake pedal  
C) May require the driver to "pump up" the brakes before they will stop the vehicle  
D) Spongy brake pedal
- 14) Technician A says a bleeder screw wrench is needed to manually bleed brakes. Technician B says a length of plastic hose and clear jar should be used when manually bleeding brakes. Which technician is correct? 14) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both Technicians A and B  
D) Neither Technician A nor B
- 15) Why shouldn't a service technician depress a brake pedal all the way down when bleeding brakes? 15) \_\_\_\_\_  
A) It builds too much pressure  
B) The sealing cups would uncover the compensating port  
C) The brake pedal could bind  
D) The sealing cups can be damaged
- 16) The button on the \_\_\_\_\_ valve should be held when bleeding the brakes. 16) \_\_\_\_\_  
A) Pressure-differential  
B) Residual check  
C) Metering  
D) Proportioning
- 17) The bleeder is opened at a caliper and no brake fluid flows out. Technician A says that this is normal and that brake fluid should not flow or drip out of an open bleeder valve. Technician B says that the vent port in the master cylinder may be blocked. Which technician is correct? 17) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both Technicians A and B  
D) Neither Technician A nor B
- 18) The automated bleeding procedure purges air from \_\_\_\_\_. 18) \_\_\_\_\_  
A) The hybrid cooling system  
B) The electronic brake hydraulic unit  
C) The reservoir  
D) The scan tool
- 19) Technician A says vacuum bleeding can be done by a single technician. Technician B says vacuum bleeding may draw air into the hydraulic system past the bleeder valve. Which technician is correct? 19) \_\_\_\_\_  
A) Technician A only  
B) Technician B only  
C) Both Technicians A and B  
D) Neither Technician A nor B

20) What method of brake bleeding is illustrated below?

20) \_\_\_\_\_



- A) Pressure bleeding
- B) Manual bleeding
- C) Vacuum bleeding
- D) Gravity bleeding

21) Which one is NOT a method of brake bleeding?

21) \_\_\_\_\_

- A) Pressure
- B) Manual
- C) Release
- D) Vacuum

22) Vacuum is applied where during vacuum bleeding?

22) \_\_\_\_\_

- A) At the metering valve end of the combination valve
- B) At each wheel brake bleeder valve
- C) At the master cylinder reservoir
- D) At the vacuum booster check valve

23) Technician A says the wheel brake farthest from the master cylinder is generally bled first. Technician B says the wheel brake closest to the master cylinder is generally bled first. Which technician is correct?

23) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both Technicians A and B
- D) Neither Technician A nor B

24) Pressure bleeding requires \_\_\_\_\_.

24) \_\_\_\_\_

- A) A special adapter to fit the master cylinder
- B) No special tools or adapters
- C) A special adapter to fit the wheel cylinders
- D) Only two technicians

25) Technician A says that the brake pedal should be depressed with as much force as possible during the normal bleeding procedure. Technician B says that the brake pedal should be pumped rapidly during this manual bleeding procedure to force the air down toward the bleeder valve(s). Which technician is correct?

25) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both Technicians A and B
- D) Neither Technician A nor B

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26) When manually bleeding the wheel brakes, press the brake pedal rapidly to the floor. 26) \_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

27) Technician A says that all bleeder valves must be located at the highest part of the caliper or wheel cylinder. Technician B says that all bleeder valves have a hole in the center. Which technician is correct? 27) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both Technicians A and B
- D) Neither Technician A nor B

28) Two technicians are discussing bench bleeding a master cylinder. Technician A says that the front (nose end) of the master cylinder should be bled first. Technician B says that rear (brake pedal end) should be bled first. Which technician is correct? 28) \_\_\_\_\_

- A) Technician A only
- B) Technician B only
- C) Both Technicians A and B
- D) Neither Technician A nor B

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29) Bleeding is complete when a stream of fluid free of air bubbles flows from the bleeder screw. 29) \_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

30) Gravity bleeding is most effective \_\_\_\_\_. 30) \_\_\_\_\_

- A) On systems that trap small pockets of air
- B) When speed is important
- C) On systems that have residual pressure check valves
- D) On antilock systems