

CHAPTER 15: BRAKING SYSTEM

Readability Worksheet

Directions

Read the textbook to fill in the missing words from the sentences below.

1. The _____ system is crucial to the safe operation of the vehicle.
2. _____ is the force that resists motion between two touching objects.
3. When applying a _____ on the brake pedal, the system transfers _____ to the brake calipers (used in disc brakes) or wheel cylinders (used in drum brakes).
4. The key principle in a hydraulic system is that fluid is not _____.
5. Always refer to the owner's manual or brake master cylinder cap for the correct _____ of brake fluid.
6. Brake fluid fights _____, lubricates _____, and protects metal, plastic, and rubber components.
7. Many manufacturers recommend changing the brake fluid every _____ to _____ years.
8. The brake pedal is mechanically connected to a hydraulic unit called a _____.
9. The master cylinder reservoir is where _____ is stored.
10. As force is applied to the brake pedal, the brake pads hug the _____ tighter causing more _____.

11. The _____ converts the fluid pressure in the brake lines to the mechanical motion of the pads against each side of the _____.
12. When force is applied to the brake pedal or the parking brake is engaged, the brake _____ are forced out against the brake drum creating _____ to slow and stop the wheels.
13. If a wheel speed sensor indicates that a wheel is about to _____, the ABS hydraulic control unit releases pressure at that one wheel to help the tire maintain road _____.
14. A _____ system (TCS) uses sensors to detect tire slippage during acceleration from a stop or when speeding up, the opposite of _____ (slipping during deceleration).
15. The _____ system uses information from sensors to improve the lateral stability in a vehicle by applying _____ force at any wheel when _____ is detected.
16. _____ (HSA) helps drivers when they are stopped on a slope.
17. _____, lidar (light detection and ranging), _____, sensors, and other technologies are used to identify a possible collision.
18. A _____ warning, also known as forward collision alert, system uses similar technologies found in _____ emergency braking systems to identify a potential collision.
19. Many blind spots exist _____ a vehicle.
20. The parking brake uses a _____ linkage (cable) or motor instead of a _____ linkage (brake fluid).