ABS Components And Operation
Chapter 106

ACROSS
1. The __________ is a pressurized storage reservoir.  
5. Most ______________ consist of a magnetic pickup and a toothed sensor ring.  
7. Electronically operated _______ _______ are used to hold, release, and reapply hydraulic pressure to the brakes.  
9. If the wheel speed sensor continues to indicate the wheel is slowing too quickly and is starting to lock, the same solenoid or a second _______ _______ is energized to open a vent port that releases pressure from the brake circuit.  
10. If one wheel starts to slow at a faster rate than the others, or at a faster rate than that which is programmed in the antilock _______ _______, it indicates a wheel is starting to slip and is in danger of losing traction and locking.  
11. GM and Chrysler call their version of a single-channel rear-wheel-only ABS system _____________.  
12. The __________ is when the solenoid is electrically closed, it becomes hydraulically closed, which blocks off the line and prevents any further pressure from the master cylinder reaching the brake.  
14. The __________ saves the cost for an additional sensor and reduces the complexity of the system by allowing both rear wheels to be controlled simultaneously.  
15. _______ systems combine the brake master cylinder and ABS hydraulic modulator, electric pump, and accumulator into one assembly.  
16. Preventing brake lock up is important because of the adverse effect a locked wheel has on tire _________.  
17. _______ _______ _______ help prevent the wheels from locking during sudden braking, especially on slippery surfaces.  
20. _______ _______ _______ are required on all new vehicles.  
21. The ABS warning light is also used for diagnostic purposes when retrieving _______ _______ from the ABS module.

DOWN
2. Ford's version of a single-channel rear-wheel-only ABS system is called _____________.  
3. During the ___________, the release and/or isolation solenoids are closed and/or the additional solenoid energized so pressure can be reapplied to the brake from the master cylinder or accumulator to reapply the brake.  
4. Traction is defined in terms of _______ _______, which is the difference between the actual speed and the rate at which the tire tread moves across the road.  
6. The first step in the standard ABS control strategy is to hold or isolate the pressure in a given brake circuit by closing an ___________.  
8. A digital wheel speed sensor is also called an _______ _______.  
13. ___________ systems combine the brake master cylinder and ABS hydraulic modulator, electric pump, and accumulator into one assembly.  
15. The term _______ always refers to the number of separate or individually controlled ABS hydraulic circuits in an ABS system, not the number of wheel speed sensor electrical circuits.  
18. Another name for a toothed sensor ring is the ____ _____.  
19. The distance or _____ _______ between the end of the sensor and its ring is critical.