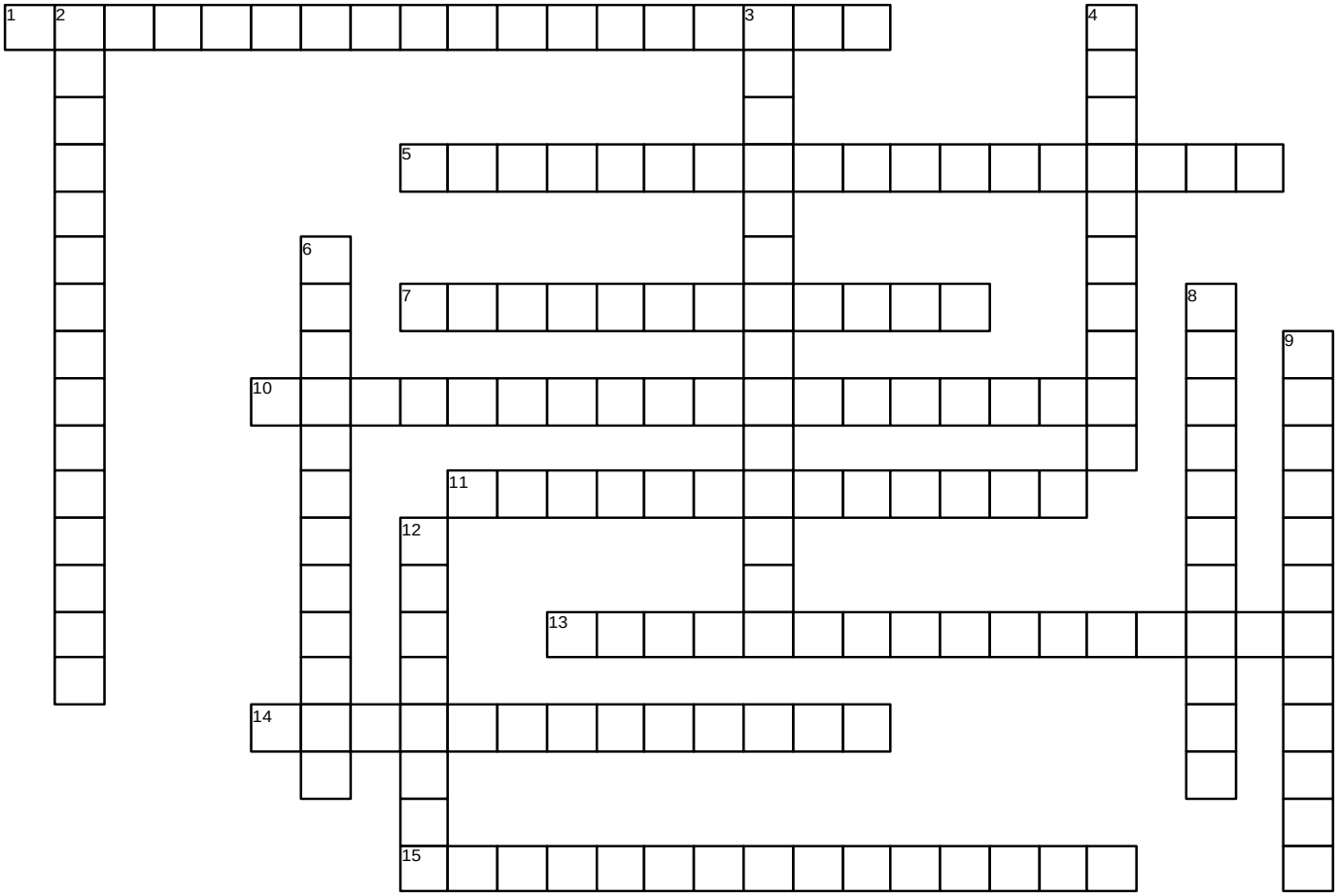
ABS Components And Operation

Chapter 105



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ACROSS

1 Passive wheel speed sensors are often called _____ _____ (VR)-type sensor, which uses a magnetic core surrounded by coil windings.

5 _____ _____ breaking (AEB) is often part of a safety package that includes radar cruise control and will apply the brakes in the event of a possible collision.

7 The pressure decay stage can also be called _____ ____ stage, pressure reduction stage, or pressure release stage.

10 The _____ ___ _____ saves the cost for an additional sensor and reduces the complexity of the system by allowing both rear wheels to be controlled simultaneously.

11 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.

13 During the _____ _____ increase, 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.

14 Releasing pressure in the brake circuit allows the brake to loosen its grip so the wheel can speed up and regain traction. This is called _____ _____ stage.

15 The _____ _____ stage 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.

DOWN

2 _____ _____ systems help prevent the wheels from locking during sudden braking, especially on slippery surfaces.

3 _____ ___ systems, which are sometimes referred to as "add-on" systems, have become the most common type of ABS system because of their lower cost and simplicity.

4 Most _____ _____ sensors consist of a magnetic pickup and a toothed sensor ring.

6 ____ _____ monitoring systems are required on all new vehicles.

8 The _____ is a pressurized storage reservoir.

9 A _____ _____ speed sensor generates its own output signal and can operate without and outside voltage being applied.

12 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.