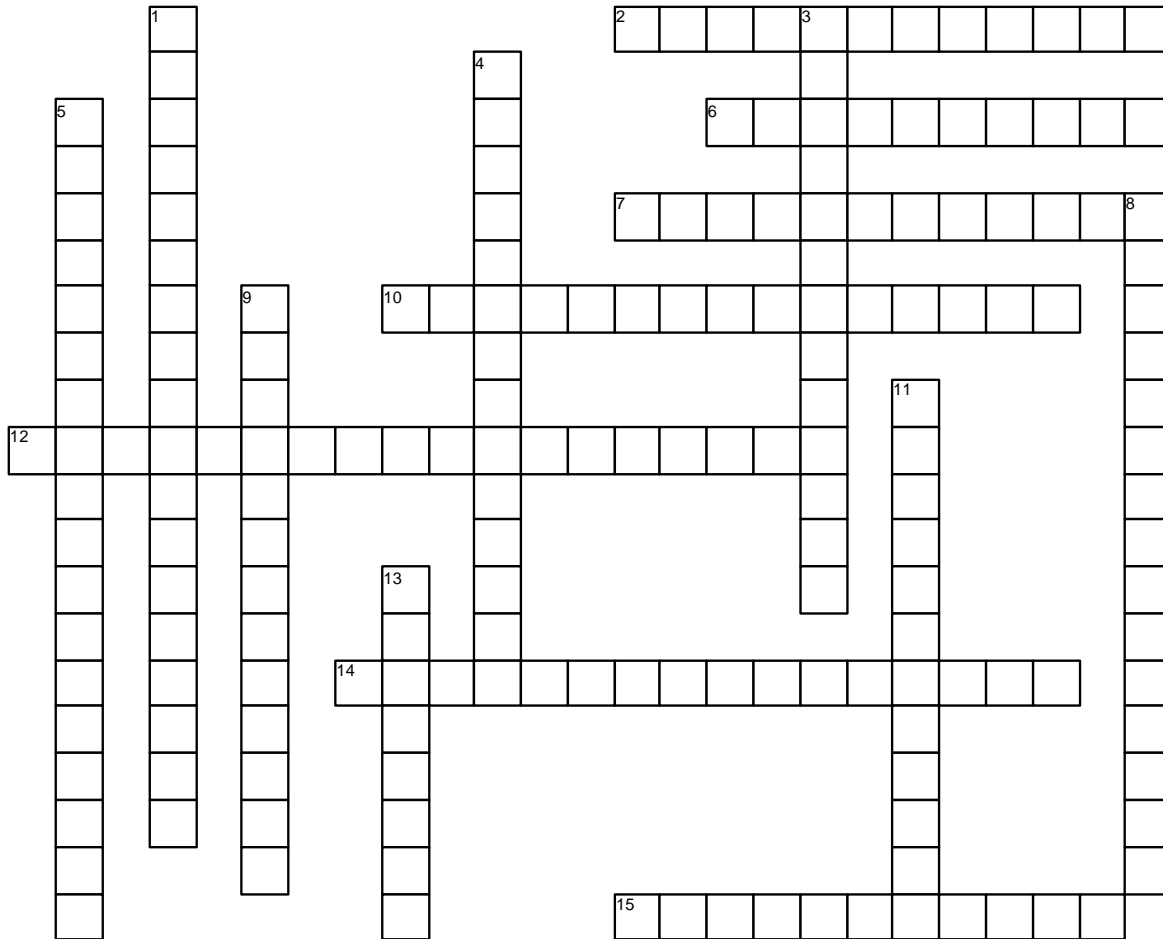


# ABS Components And Operation

## Chapter 18



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### ACROSS

- 2 \_\_\_\_\_ monitoring systems are required on all new vehicles.
- 6 Most \_\_\_\_\_ sensors consist of a magnetic pickup and a toothed sensor ring.
- 7 The pressure decay stage can also be called \_\_\_\_\_ stage, pressure reduction stage, or pressure release stage.
- 10 \_\_\_\_\_ systems help prevent the wheels from locking during sudden braking, especially on slippery surfaces.
- 12 The \_\_\_\_\_ saves the cost for an additional sensor and reduces the complexity of the system by allowing both rear wheels to be controlled simultaneously.
- 14 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.
- 15 The \_\_\_\_\_ is a pressurized storage reservoir.

### DOWN

- 1 \_\_\_\_\_ 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.
- 3 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.
- 4 \_\_\_\_\_ 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.
- 5 Passive wheel speed sensors are often called \_\_\_\_\_ (VR)-type sensor, which uses a magnetic core surrounded by coil windings.
- 8 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.
- 9 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 A \_\_\_\_\_ speed sensor generates its own output signal and can operate without and outside voltage being applied.
- 13 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.