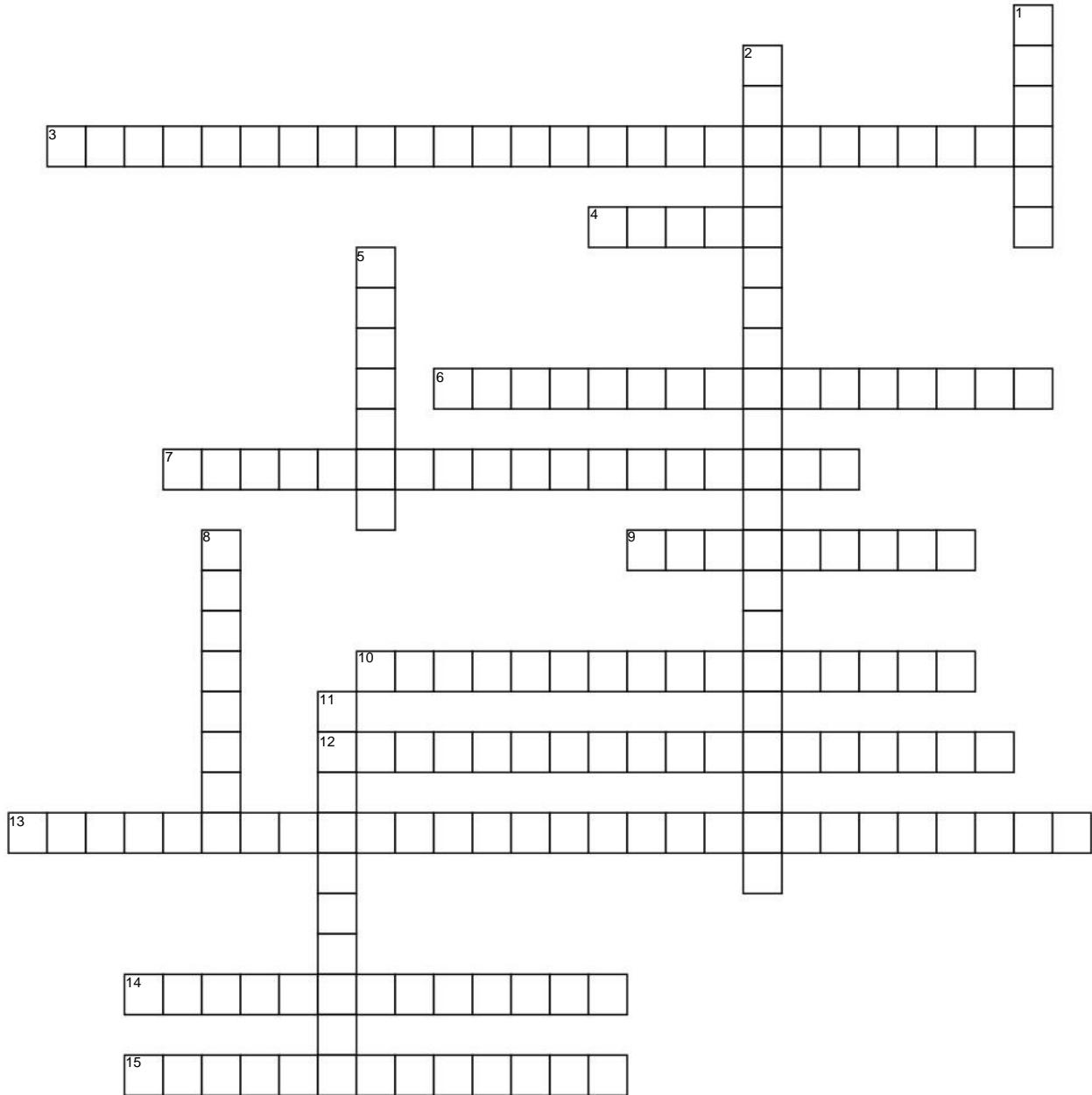


Hydraulic Valves And Switches

Chapter 6



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ACROSS

- 3 A _____-_____ is used on all vehicles built after 1967 with dual master cylinders to warn the driver of a loss of pressure in one of the two separate systems by lighting the dashboard red brake warning indicator lamp.
- 4 Brake engineers refer to the ratio of front to rear brake pressure proportioning as the _____.
- 6 Most vehicle manufacturers combine the function of a proportioning valve with one or more other valves into one unit called a _____.
- 7 A _____ has been used on some drum brake

systems to keep a slight amount of pressure, about 5 to 12 PSI, on the entire hydraulic system for drum brakes.

- 9 A metering valve consists of a piston controlled by a strong spring and a _____ controlled by a weak spring.
- 10 The job of the _____ is to turn on the brake lights at the back of the vehicle when the brakes are applied.
- 12 A _____ improves brake balance during hard stops by limiting hydraulic pressure to the rear brakes.
- 13 _____ in the antilock braking system is accomplished by monitoring front- and rear-

wheel speeds, and reducing pressure to the rear brakes as needed using the ABS solenoids when there is a difference in wheel deceleration rates.

- 14 A _____ is used on all front-disc, rear-drum-brake-equipped vehicles.
- 15 Many vehicles use a proportioning valve that varies the amount of pressure that can be sent to the rear brakes depending on the height of the rear suspension, this type of valve is called a _____-_____ proportioning valve.

DOWN

- 1 If the button is rubber coated,

then you _____.

- 2 Many master cylinders, especially systems that are diagonal split, usually use a _____ or _____ switch in the master cylinder reservoir.
- 5 If the button is steel, then _____.
- 8 The residual check valve has been eliminated by equipping the wheel cylinder internal spring with a sealing cup _____ to prevent sealing cup lip collapse.
- 11 Before proportioning action will begin, brake system hydraulic pressure must reach a minimum level called the _____.