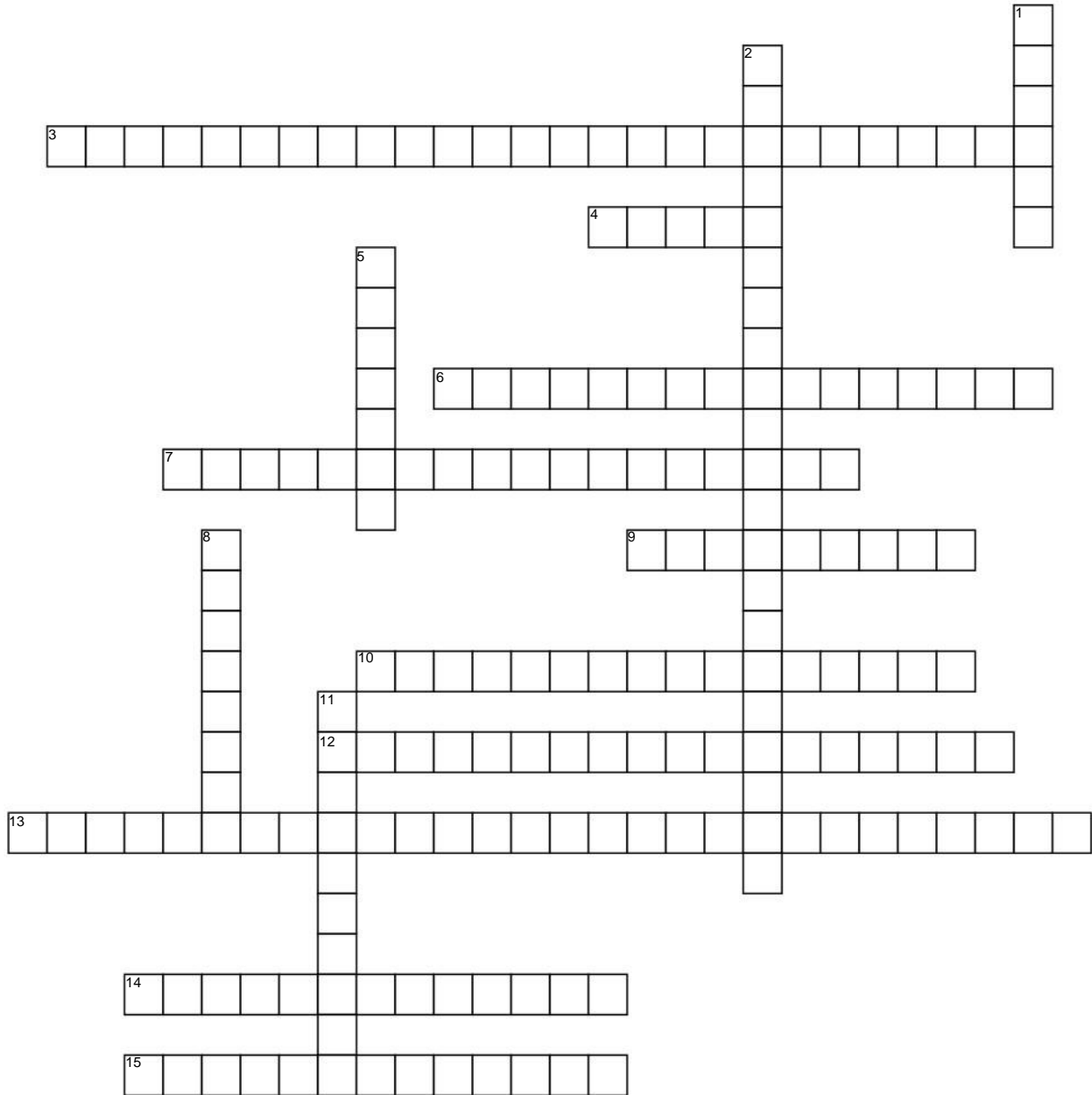


# Hydraulic Valves And Switches

## Chapter 6



<http://jameshalderman.com>

### 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.

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 \_\_\_\_\_.

### DOWN

- 1 If the button is rubber coated,