Hydraulic Valves And Switches
Chapter 6

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 ________________ system 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 ________.