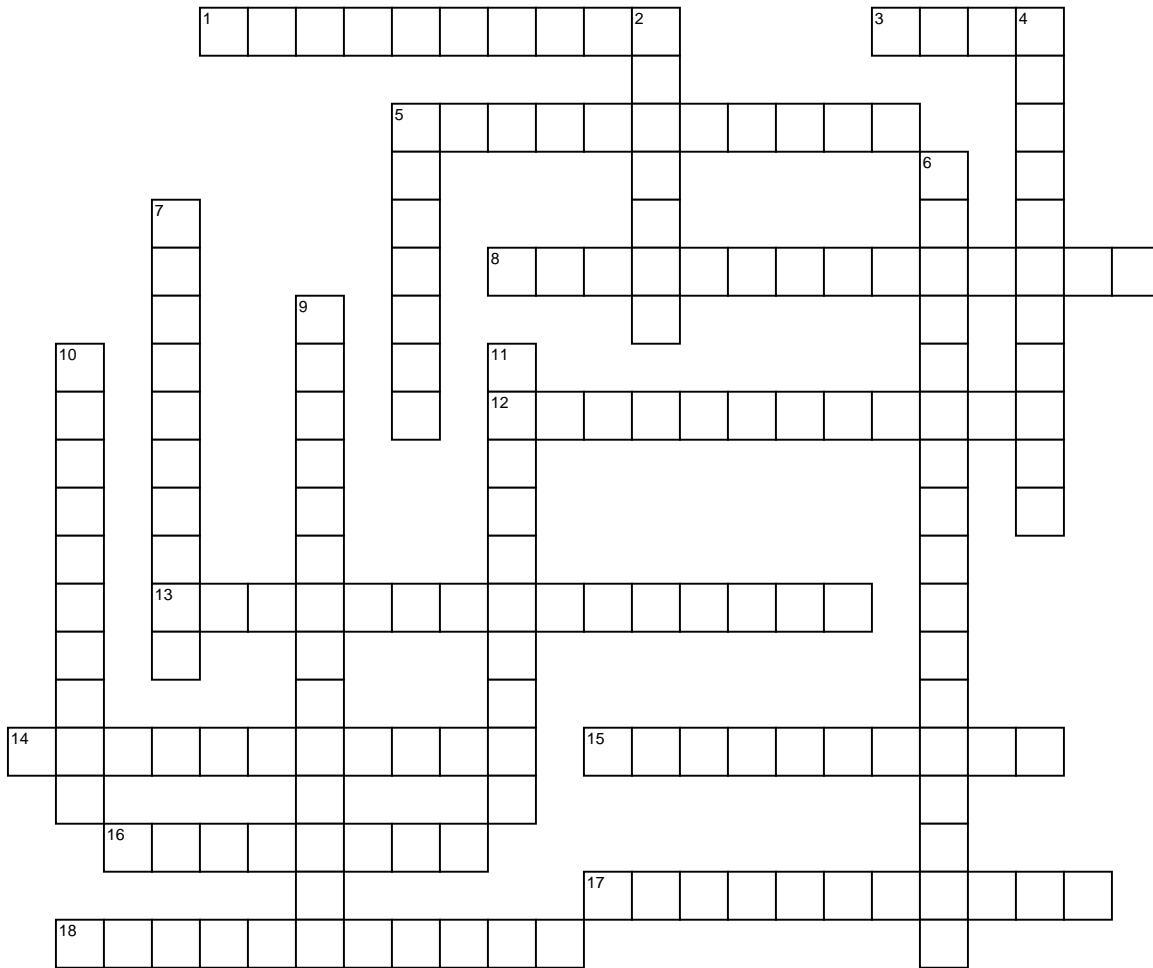


Automatic Transmission/Transaxle Hydraulic System

Chapter 4



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ACROSS

- 1 A _____ gets its name because it looks similar to the spool that holds sewing thread.
- 3 The hydraulic force exerted by a valve is simply the valve _____ area multiplied by fluid pressure.
- 5 A _____ controls fluid flow into the different circuits and is also called a flow control valve.
- 8 Some transmissions use a _____ valve to release excess pressure that might occur under certain operating conditions.
- 12 Another name for mainline pressure is _____.
- 13 The valve body supplies the hydraulic force to apply the clutches, bands, and the valves that _____ and direct the fluid for automatic shifts.
- 14 The _____ is the only hydraulic valve in the transmission

that is "manually" controlled by the driver.

- 15 A _____ is used to move another valve. Some operate switch valves and some help control pressure regulator valves.
- 16 Pressure-regulated fluid is often called _____ pressure or supply pressure.
- 17 Units that include the TCM within the transmission/transaxle are commonly called a _____.
- 18 The detent cam is commonly called a _____.

DOWN

- 2 The term _____ refers to fluid flow back to the pan to empty or drain a circuit.
- 4 A _____ has a difficult job because one of the surfaces to be sealed is moving relative to the seal.

- 5 _____ - _____-wire allows for effortless shifting between drive, park, neutral and reverse, and completely eliminates any wear-and-tear that used to occur in the mechanical connection between the shifter and transmission.
- 6 Transmission oil pumps are capable of creating an excessive amount of pressure quickly and therefore, every transmission uses a _____ valve to control hydraulic pressure.
- 7 _____ is a method of transmitting motion and/or force using a fluid.
- 9 One of the three valve categories that is used to control fluid pressure is _____.
- 10 A _____ is used to seal the space between two parts that are stationary relative to each other.
- 11 _____ is another name for hydraulics.