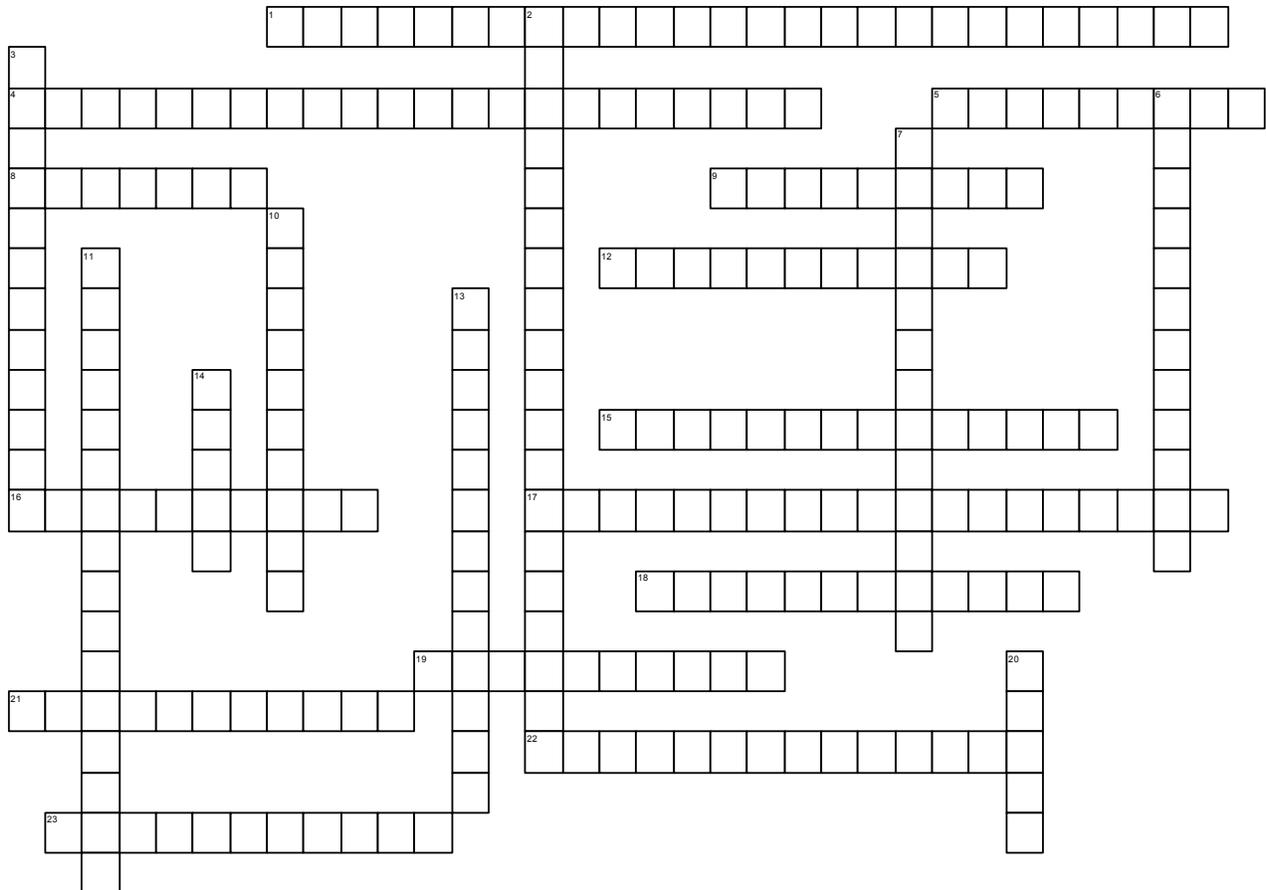


Hydraulic Components And Control Systems

Chapter 128



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ACROSS

- 1 _____ is highly refined oil with a viscosity similar to SAE 20W-20 oil, and is specially designed for use in an automatic transmission.
- 4 Every transmission uses a _____ to control hydraulic pressure.
- 5 A _____ is where most of the valves in a transmission are located.
- 8 The ATF returns to the transmission/transaxle through passages that lubricate the internal moving parts. The returned fluid is called _____.
- 9 Valve bodies have many fluid passages sometimes called _____.
- 12 A _____ is the forward speed that is used if there is a failure in the electronic or computer system.
- 15 The _____ provides rigidity and contains calibrated holes and openings that help manage fluid flow.
- 16 A _____ is a spring-loaded spool valve that controls the transmission upshift

and downshift circuits.

- 17 The _____ consists of a plate, a piston, drum, and snap ring.
- 18 A _____ balances both the spring pressure and the hydraulic pressure.
- 19 The pressure plate and clutch assembly components fit into either a _____ or a machined bore in the transmission case.
- 21 The _____ is the primary flow-directing valve in an automatic transmission.
- 22 The planetary gear set member held is known as a _____.
- 23 A _____ allows fluid to flow in one direction.

DOWN

- 2 Some piston-type accumulators share a bore called an _____ with one of the transmission servos.
- 3 _____ are the mechanical or hydraulic assemblies that provide the force to hold or drive members of a planetary gear set.
- 6 Like a transmission band, a _____

is always a holding device.

- 7 The _____ monitors vehicle road speed and uses that operating signal to develop governor pressure.
- 10 _____ are usually made of steel, but they can be nylon, rubber, or some composite material.
- 11 A _____ stops and holds one planetary gear set member so that another member can react against the held member and develop output motion.
- 13 The piston compresses the clutch plates against a thicker reaction plate known as a _____.
- 14 The piston and cylinder assembly is known as a _____.
- 20 A figure-eight-shaped piece of metal that separates a hub and a drum is called a _____.