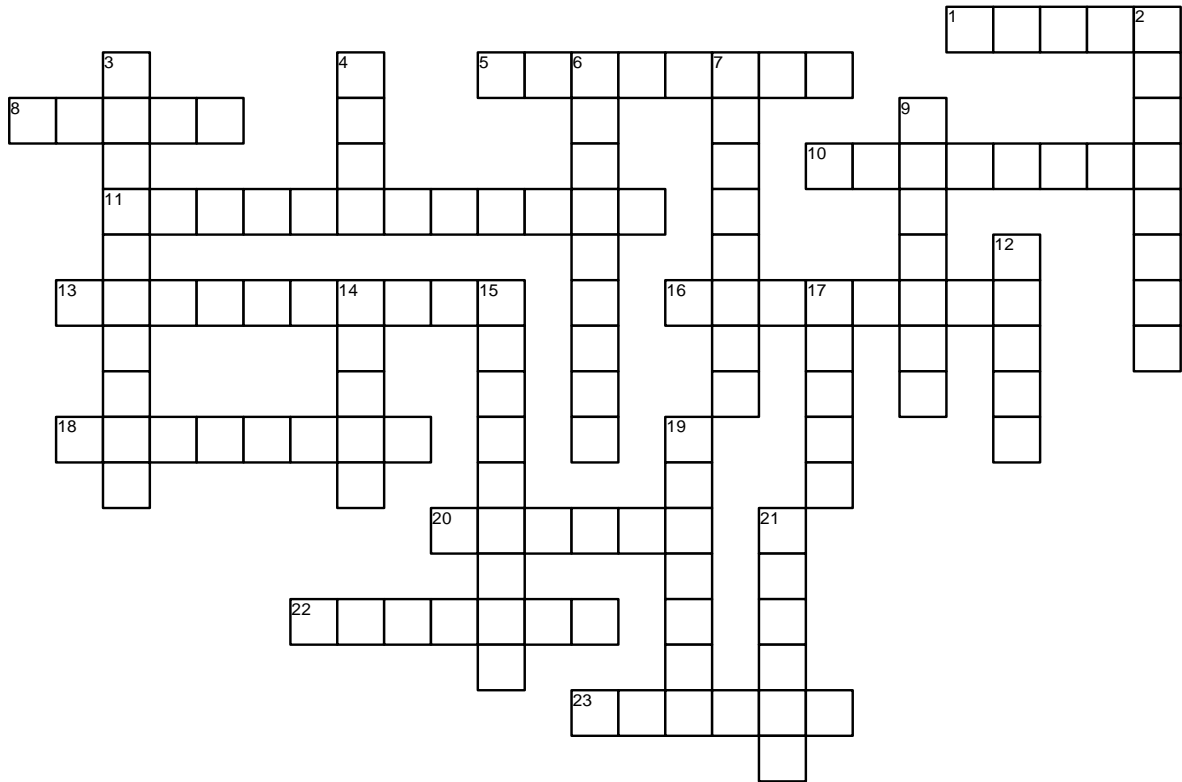


Hydraulic Components And Control Systems

Chapter 130



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ACROSS

- 1 A figure-eight-shaped piece of metal that separates a hub and a drum is called a ____.
- 5 The planetary gear set member held is known as a _____ member.
- 8 A ____ body is where most of the valves in a transmission are located.
- 10 The piston compresses the clutch plates against a thicker reaction plate known as a _____ plate.
- 11 A _____ band stops and holds one planetary gear set member so that another member can react against the held member and develop output motion.
- 13 _____ are usually made of steel, but they can be nylon, rubber, or some composite material.
- 16 Every transmission uses a _____ regulator valve to control hydraulic pressure.
- 18 The _____-plate clutch consists of a plate, a piston, drum, and snap ring.
- 20 The _____ valve is the primary flow-directing valve in an automatic transmission.
- 22 The ATF returns to the transmission/transaxle through passages that lubricate the internal moving parts. The returned fluid is called ____.
- 23 A ____-__ valve allows fluid to flow in one direction.
- 2 The _____ valve monitors vehicle road speed and uses that operating signal to develop governor pressure.
- 3 The pressure plate and clutch assembly components fit into either a _____ or a machined bore in the transmission case.
- 4 Valve bodies have many fluid passages sometimes called ____ holes.
- 6 _____ transmission fluid is highly refined oil with a viscosity similar to SAE 20W-20 oil, and is specially designed for use in an automatic transmission.
- 7 Some piston-type accumulators share a bore called an _____ accumulator with one of the transmission servos.
- 9 A _____ gear is the forward speed that is used if there is a failure in the electronic or computer system.
- 12 The piston and cylinder assembly is known as a ____.
- 14 _____ devices are the mechanical or hydraulic assemblies that provide the force to hold or drive members of a planetary gear set.
- 15 The _____ plate provides rigidity and contains calibrated holes and openings that help manage fluid flow.
- 17 A ____ valve is a spring-loaded spool valve that controls the transmission upshift and downshift circuits.
- 19 A _____ valve balances both the spring pressure and the hydraulic pressure.
- 21 Like a transmission band, a ____-__ clutch is always a holding device.

DOWN

- 2 The _____ valve monitors vehicle road speed and uses that