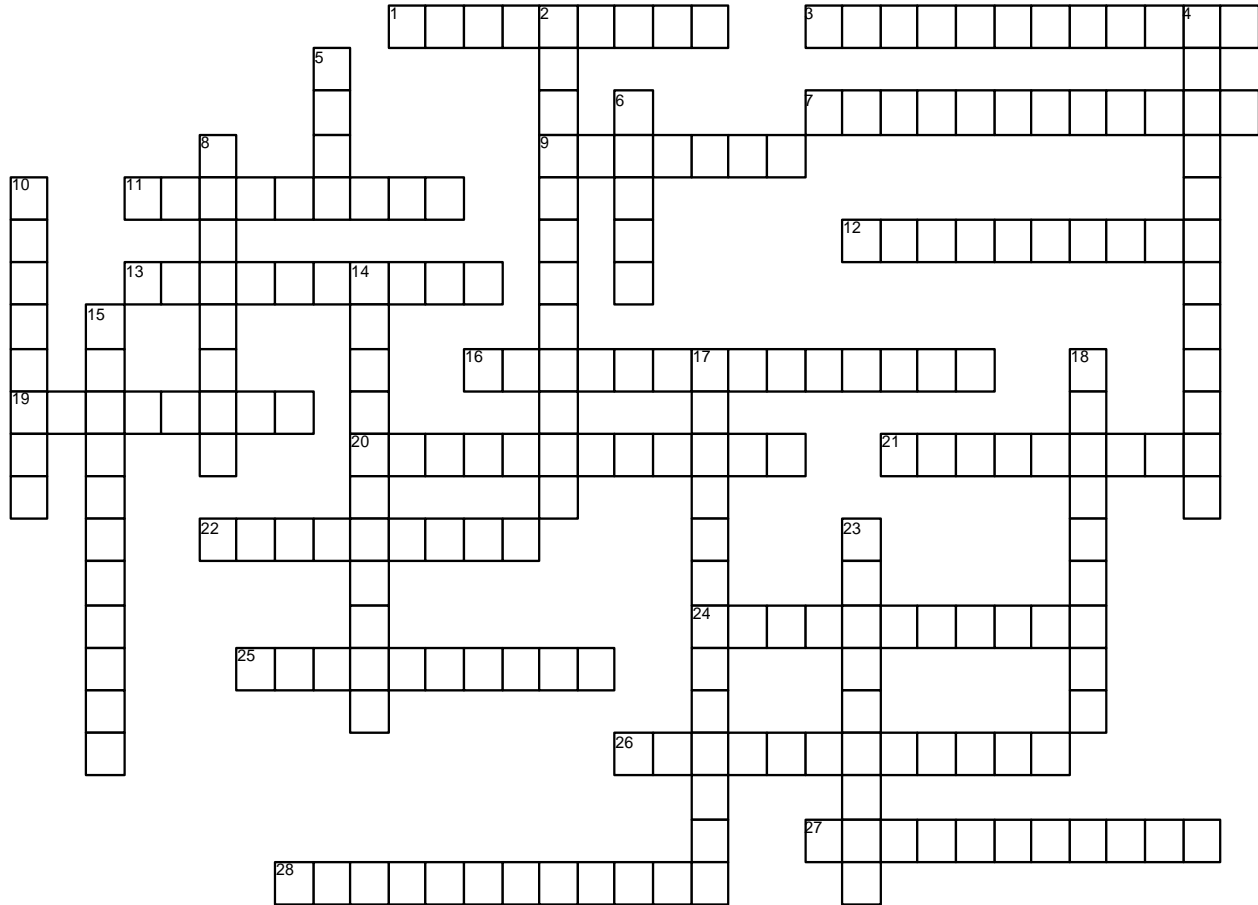


Manual Transmissions/Transaxles

Chapter 127



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ACROSS

- 1 The _____ is splined at the end and transmits engine torque to the drive shaft through a yoke and U-joint.
- 3 With _____-____ gears, the shift linkage moves the 5-reverse synchronizer sleeve away from the fifth speed gear and toward the reverse speed gear when reverse is selected.
- 7 At the front of the transmission is the _____ retainer that supports the clutch throwout bearing and usually houses the grease seal.
- 9 The gears on the countershaft are called _____ gears.
- 11 The rear of the transmission usually includes a separate casting called the _____ housing.
- 12 _____ sets have gear

teeth that are curved much like the teeth of a spiral bevel gear.

- 13 The _____ is splined to the clutch disc.
- 16 With the _____ gear design, the shift linkage slides the reverse idler gear on its shaft until it engages the reverse gears on the countershaft and output shaft gear.
- 19 Spur and helical gears have gear teeth on the outside circumference and are called _____ gears.
- 20 All manual transmissions/transaxles use a _____ to provide the other set of gears necessary to achieve the changes in gear ratios.
- 21 When a driven gear turns faster than its drive gear, you get _____.
- 22 The teeth of a _____ are cut at an angle to the

outside gear surface.

- 24 When the gear ratio is 1:1, you get _____.
- 25 The _____ assembly is another name for the differential assembly.
- 26 Gears having teeth along the inside circumference are called _____ gears.
- 27 The front of the transmission attaches to a separate _____.
- 28 The center transmission housing is usually referred to as the _____ case.

DOWN

- 2 The real "shifting" in a synchromesh transmission takes place in the _____ assemblies, not the gears.
- 4 Small, spring-loaded _____ keys ride in slots on the outer sleeve.
- 5 Another name for the

centerline of a gear is the _____.

- 6 Another name for the front bearing retainer is the _____.
- 8 A _____ sits between the speed gear and the sleeve.
- 10 The simplest type of gear is the _____.
- 14 A _____ has its teeth cut at an angle to the axis of the gear.
- 15 The _____ is another name for the main shaft.
- 17 When driven gear speed is slower than drive gear speed, _____ is provided.
- 18 In _____, the shift linkage slides the 1-2 synchronizer sleeve rearward toward the first speed gear.
- 23 _____ is an angle cut opposite to the chamfer so that spline or tooth narrows just behind the chamfered end.