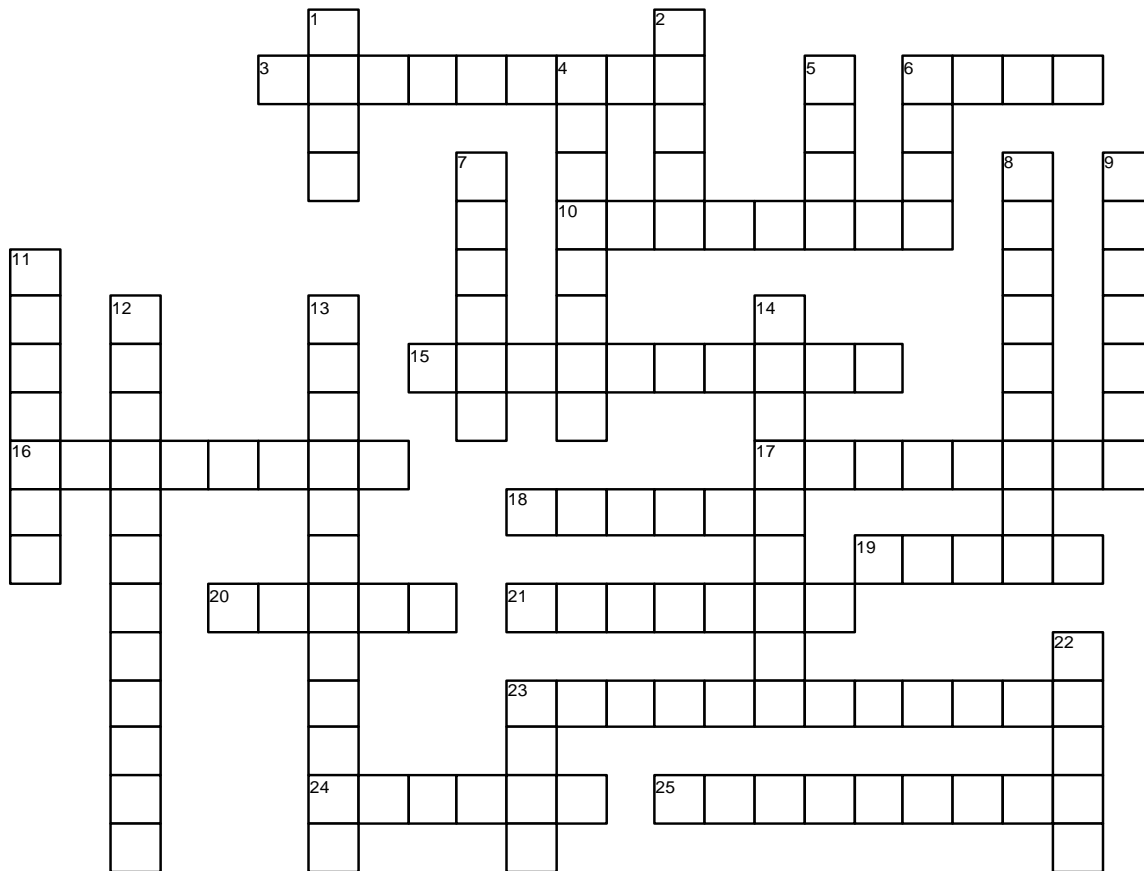


Manual Transmissions/Transaxles

Chapter 122



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ACROSS

- 3 The rear of the transmission usually includes a separate casting called the _____ housing.
- 6 _____ taper is an angle cut opposite to the chamfer so that spline or tooth narrows just behind the chamfered end.
- 10 Spur and helical gears have gear teeth on the outside circumference and are called _____ gears.
- 15 The _____ assembly is another name for the differential assembly.
- 16 With _____-mesh 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.
- 17 A _____ sits between the speed gear and the sleeve.
- 18 When the gear ratio is 1:1, you get _____ drive.
- 19 The teeth of a _____ gear are cut at an angle to the outside gear surface.
- 20 Another name for the front bearing retainer is the _____.
- 21 The gears on the countershaft are called _____ gears.
- 23 The real "shifting" in a synchromesh transmission takes place in the _____ assemblies, not the gears.
- 24 The _____ shaft is another name for the main shaft.
- 25 When driven gear speed is slower than drive gear speed, gear _____ is provided.

DOWN

- 1 Another name for the centerline of a gear is the _____.

- 2 The _____ shaft is splined to the clutch disc.
- 4 Gears having teeth along the inside circumference are called _____ ring gears.
- 5 The _____ shaft is splined at the end and transmits engine torque to the drive shaft through a yoke and U-joint.
- 6 The front of the transmission attaches to a separate _____ housing.
- 7 _____ gear sets have gear teeth that are curved much like the teeth of a spiral bevel gear.
- 8 When a driven gear turns faster than its drive gear, you get _____.
- 9 With the _____ reverse 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.
- 11 A _____ gear has its teeth cut at an angle to the axis of the gear.
- 12 All manual transmissions/transaxles use a _____ to provide the other set of gears necessary to achieve the changes in gear ratios.
- 13 The center transmission housing is usually referred to as the _____ case.
- 14 In _____, the shift linkage slides the 1-2 synchronizer sleeve rearward toward the first speed gear.
- 22 At the front of the transmission is the _____ bearing retainer that supports the clutch throwout bearing and usually houses the grease seal.
- 23 The simplest type of gear is the _____ gear.