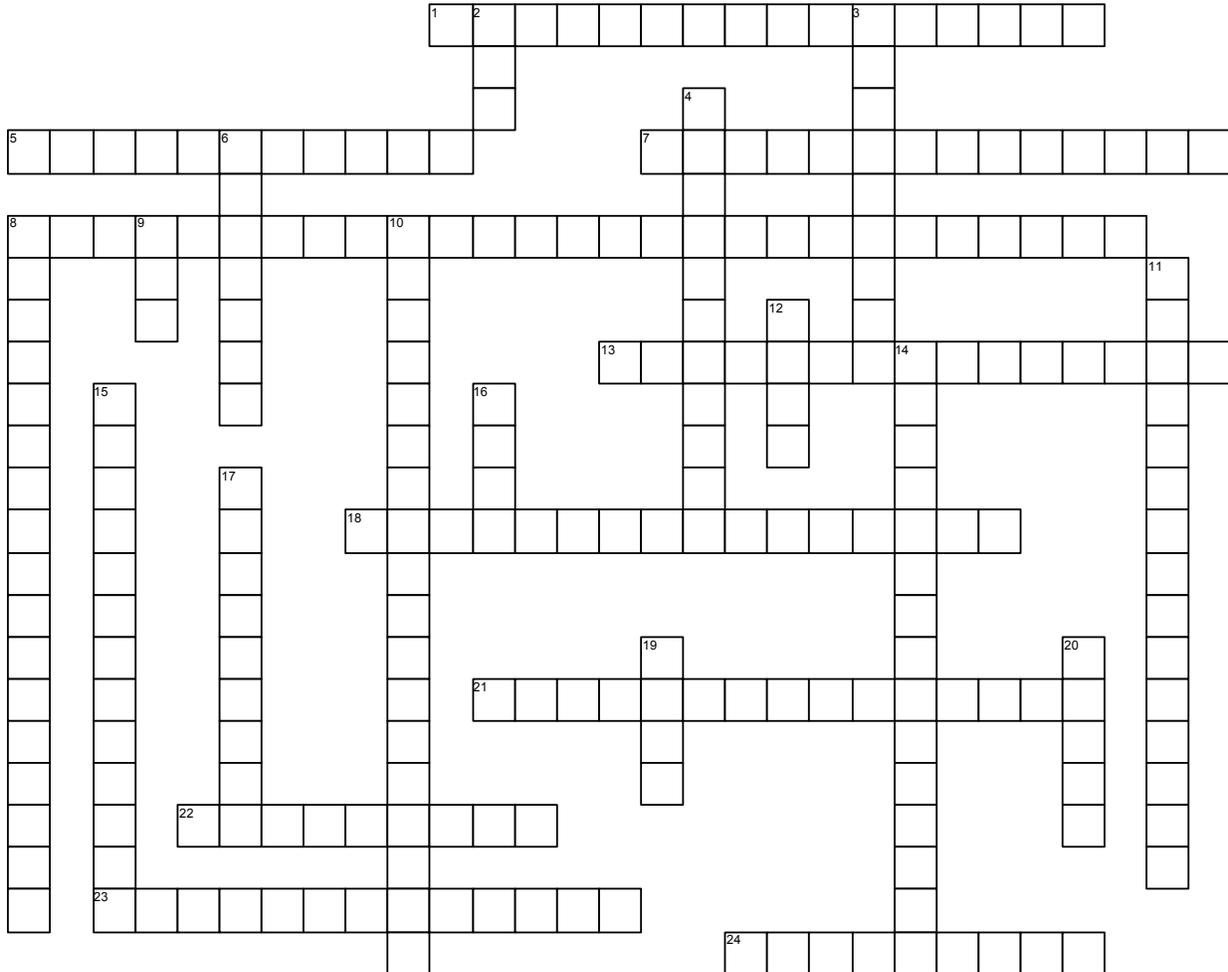


Drive Axles and Differentials

Chapter 125



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ACROSS

- 1 The intermediate position between drive and coast, when neither the ring gear nor the pinion is driving each other, is called the _____.
- 5 _____ are small, beveled gears located inside the differential case.
- 7 During a differential inspection, use a dial indicator to check _____.
- 8 _____ are gear sets with final drive ratios expressible as a reducible fraction not equaling a whole number.
- 13 Differentials can be designed to work on the principle of a _____.
- 18 The ring gear is attached to a _____ that also contains small beveled pinion gears.
- 21 The driveshaft applies torque to the _____ that meshes below the center line of a ring gear.
- 22 While decelerating, the drive pinion contacts the ring teeth on its _____.
- 23 The drive pinion nut is tightened further until the _____ is within specifications.
- 24 While a vehicle accelerates, the drive pinion contacts the ring teeth on its _____.

DOWN

- 2 On nonhunting and partially nonhunting gears, manufacturers _____ the contacting gear teeth to decrease wear.

- 3 In mesh with the pinion gears are two _____ that are splined to the inner ends of the axles.
- 4 A _____ passes through the two pinion gears in the case.
- 6 _____ is another name for a differential.
- 8 _____ use two mechanisms to accomplish the limited slip action.
- 9 The _____ is the end of the slanted ring gear tooth closest to the ring gear center.
- 10 _____ are gear sets with final drive ratios expressible as a whole number.
- 11 _____ are gear sets with final drive ratios expressible in a fraction that cannot be reduced to any lower terms.
- 12 The tooth _____ is the depression lying between two teeth on the ring gear.
- 14 The drive pinion gear of the differential is driven by a flange often called a _____.
- 15 A _____ requires gear lubrication specifically designed for this type of service.
- 16 _____ is the simple abbreviation for a differential.
- 17 The gear ratio of the final drive is called the _____.
- 19 The _____ is the end of the slanted ring gear tooth closest to the outside circumference.
- 20 The _____ is the very top of each tooth on the ring gear.