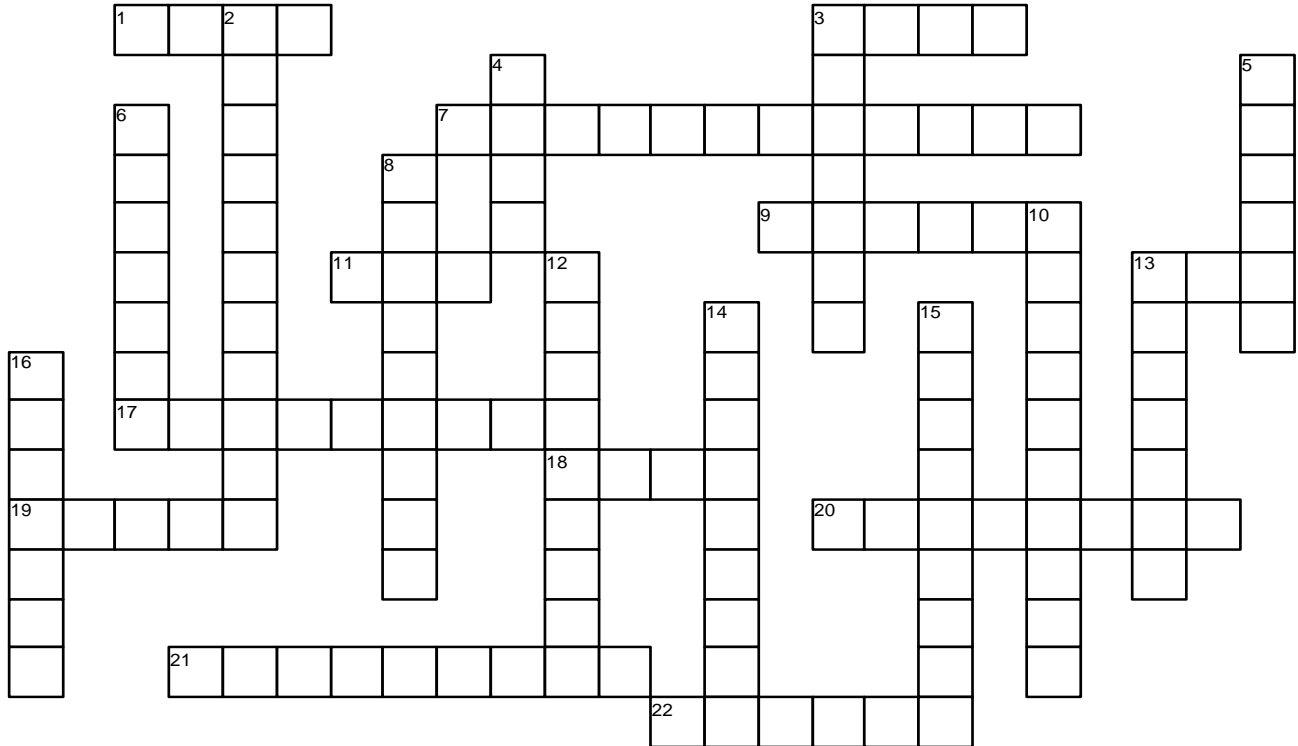


Drive Axles And Differentials

Chapter 125



<http://jameshalderman.com>

ACROSS

- 1 In mesh with the pinion gears are two ____ gears that are splined to the inner ends of the axles.
- 3 The ____ is the end of the slanted ring gear tooth closest to the outside circumference.
- 7 The ring gear is attached to a _____ case that also contains small beveled pinion gears.
- 9 A _____ shaft passes through the two pinion gears in the case.
- 11 On nonhunting and partially nonhunting gears, manufacturers ____ the contacting gear teeth to decrease wear.
- 13 The ____ is the end of the slanted ring gear tooth closest to the ring gear center.
- 17 While a vehicle accelerates, the drive pinion contacts the ring teeth on its ____.
- 18 The tooth ____ is the depression lying between two teeth on the ring gear.
- 19 The ____ is the very top of each tooth on the ring gear.
- 20 The intermediate position between drive and coast, when neither the ring gear nor the pinion is driving each other, is called the _____ position.
- 21 The drive pinion gear of the differential is driven by a flange often called a _____ flange.
- 22 A _____ gear set requires gear lubrication specifically designed for this type of service.

DOWN

- 2 The driveshaft applies torque to the _____ gear that meshes below the center line of a ring gear.
- 3 _____ gear sets are gear sets with final drive ratios expressible in a fraction that cannot be reduced to any lower terms.
- 4 During a differential inspection, use a dial indicator to check ____ gear runout.
- 5 _____ gears are small, beveled gears located inside the differential case.
- 6 ____ is another name for a differential.
- 8 While decelerating, the drive pinion contacts the ring teeth on its _____.
- 10 _____ gear sets are gear sets with final drive ratios expressible as a whole number.
- 12 The gear ratio of the final drive is called the ____.
- 13 The drive pinion nut is tightened further until the _____ torque is within specifications.
- 14 _____ nonhunting gear sets are gear sets with final drive ratios expressible as a reducible fraction not equaling a whole number.
- 15 _____ clutches use two mechanisms to accomplish the limited slip action.
- 16 Differentials can be designed to work on the principle of a _____ coupling.