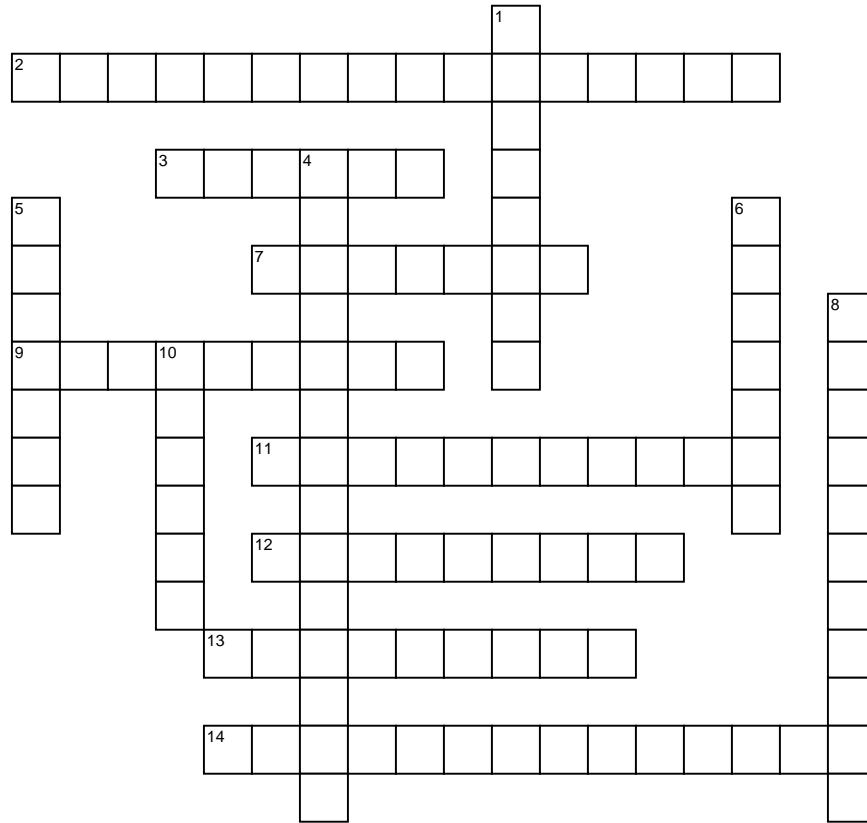


Drive Axle and Differential Diagnosis and Service

Chapter 13



<http://jameshalderman.com>

ACROSS

- 2 _____ clearance is usually checked by using a dial indicator with the stylus on a side gear tooth.
- 3 A bearing _____ will be either a collapsible crush sleeve or a fixed-length solid spacer.
- 7 A leaking pinion shaft seal can be replaced in-vehicle without removing the pinion shaft from the carrier or drive axle/carrier from the vehicle. The driveshaft flange is removed and then the seal is removed and replaced. An important requirement while performing this operation is to not disturb the drive pinion bearing _____.
- 9 Most drive axle problems are related to noise, _____, leaks, and failure to transmit power.
- 11 A bearing spacer will be either a collapsible _____ or a fixed-length solid spacer.
- 12 The _____ count is the most accurate method of determining gear ratios.
- 13 Because gear run-out will cause backlash to change, it is sometimes referred to as backlash _____.
- 14 A tooth _____ test is an excellent method for checking proper drive pinion depth as well as proper backlash between the drive pinion and the ring gear.

DOWN

- 1 A drivetrain clunk during a power change can be caused by too much internal _____.
- 4 _____ preload places enough pressure on the carrier bearings to hold the ring gear in proper mesh with the pinion gear without putting unnecessary load and drag on the bearings.
- 5 The production shims are normally replaced with a fixed-size _____ spacer and a selective-size shim when the carrier is adjusted.
- 6 A vibration or noise as the vehicle turns a corner, especially after prolonged straight driving. This noise is often called _____, commonly caused by a stick/slip condition at the clutch plates of a limited slip differential.
- 8 _____ compound is available from some gear or vehicle manufacturers (GM gear marking compound, for example is part number 1052351).
- 10 Ring gear _____ is checked if there is evidence of damage to the ring gear.