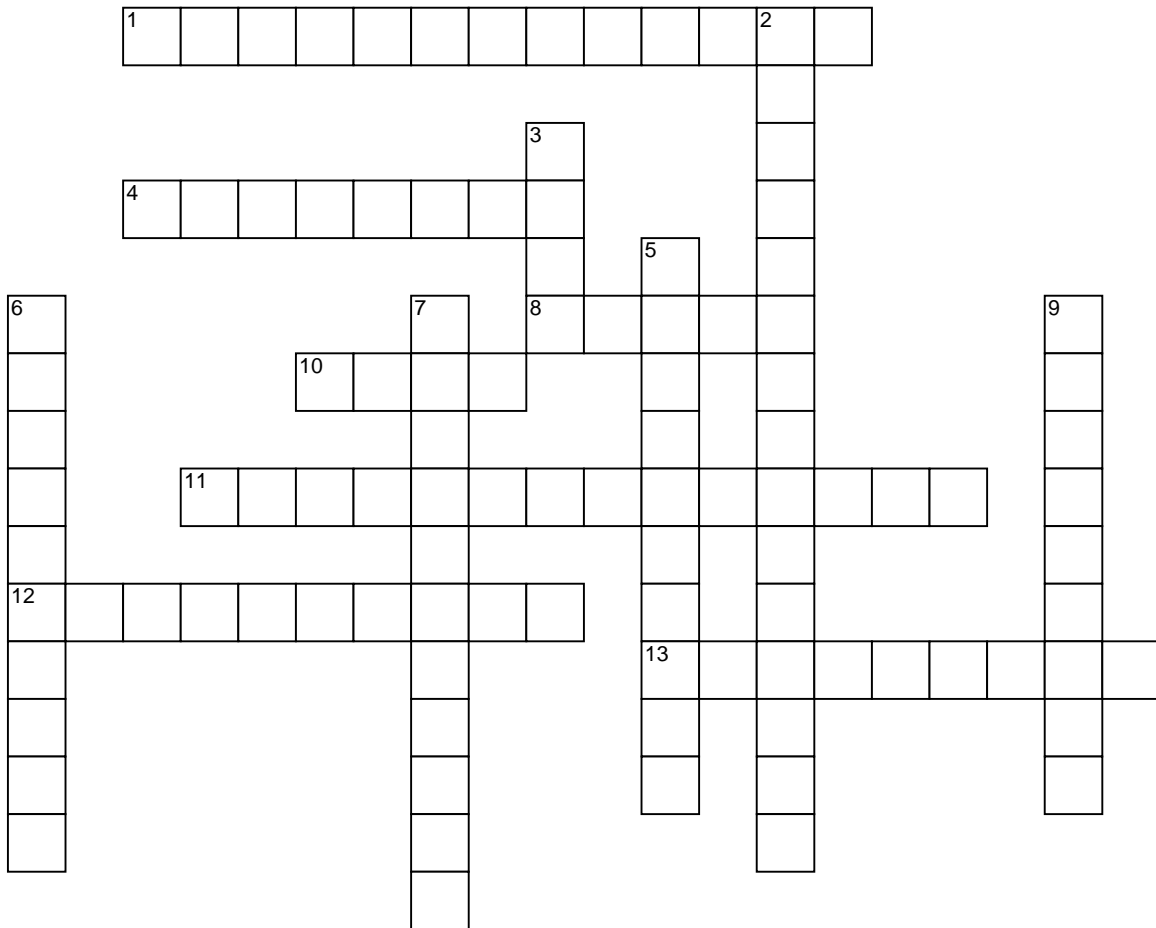


Clutch Diagnosis and Service

Chapter 4



<http://jameshalderman.com>

ACROSS

- 1 The _____ and hub splines are checked visually for reddish rust, often called “rust dust” and shiny worn areas as well as loose, broken, or missing springs.
- 4 Inability to release the clutch completely can be checked by observing _____ cylinder travel as the clutch pedal is depressed.
- 8 A commonly used _____ bushing removal method is to thread a coarse bolt into the bushing so it bottoms against the crankshaft.
- 10 There should not be any oil or grease residue inside the _____ housing.
- 11 Clutch _____ level is checked by looking at the fluid level at the clutch master cylinder reservoir.
- 12 _____ or failure to release completely indicate the need for hydraulic system service.
- 13 Check _____ travel and fluid levels and make the necessary inspections and adjustments to ensure proper operation.

DOWN

- 2 In many cases, a clutch hydraulic system can be bled by _____ while in others, a helper may be needed.
- 3 A _____ in fluid level at the reservoir indicates a fluid leak.
- 5 _____-down is the time it takes for the clutch disc and transmission gears to spin to a stop when the clutch is released.
- 6 _____ meeting the DOT 3 designated specification is the most commonly used fluid used in hydraulic clutch systems.
- 7 During replacement, the clutch components must be kept _____.
- 9 Many _____ are forged steel, which tends to warp (potato chip shape) or dish if over-heated.