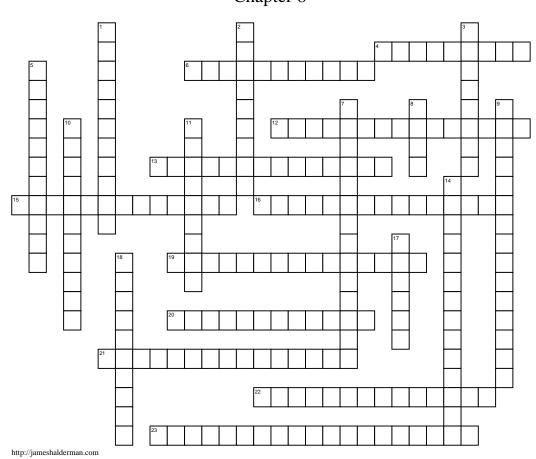
Clutches and Bands Chapter 8



ACROSS

- 4 A _____is an unlined plate that is wavy, not flat.
- 6 ______ plates have friction material on one side only, and half of the plates have lugs on the inner diameter while the other half have them on the outer diameter.
- 12 The unlined plates are called steels, or ______. They are flat pieces of steel stamped into the desired shape.
- **13** The ______ connect the turbine shaft from the torque converter to the elements of the planetary gear train.
- **15** A wave plate is an unlined plate that is wavy, not flat. A Belleville plate, like a Belleville spring, is also not flat. These are often called _____
- **16** While applying, there should be the proper ______ to get a good, smooth shift.
- **19** A _____ like a Belleville spring, is also not flat.
- 20 Some clutches in an automatic transmission are applied while the vehicle is at rest. The neutral-to-drive

and neutral-to-reverse shifts are called _____.

- 21 The _____ connect (lock) a member of the gear train to the transmission case.
- 22 When a nonsynchronous or asynchronous shift and the shift elements do not need to be synchronized. It is called a
- 23 Some new clutch designs use friction plates with _____.

DOWN

- 1 An ______ is tied hydraulically to the clutch or band servo, and absorbs fluid during the pressure buildup stage when a clutch or band applies.
- **2** A single thick, heavy band, also called a .
- **3** A single thin, light band, also called a flexible or _____.
- 5 Chrysler Corporation calls the first clutch the _____.
- 7 Plates lined with friction material are called ______.
- 8 The _____, also called the housing, has internal splines that mate with

external splines on the steel plates for the externally lugged discs, usually the unlined discs (steels).

- 9 A ______ is a type of one-way clutch. It uses springloaded, rectangular struts in the face of one clutch ring, called the pocket plate that can engage notches in the face of another ring, called the notch plate.
- **10** A gear set will lock up if it has two ratios at the same time. In order to prevent this from happening, transmission manufacturers adopt the following two strategies: The first strategy is _____, overlap, or clutch-to- clutch shifting.
- 11 The smoothness of the shift is referred to as shift quality or _____
- 14 While applied, there should be sufficient ______ to transfer torque without slippage.
- 17 The unlined plates are called _____, or separator plates. They are flat pieces of steel stamped into the desired shape.
- **18** _____ bands give more holding power, and are often used for reverse or manual first gears.