

## Gear Lubrication

### **Pressure Fed**

Uses a front or rear mounted gear pump to force oil under pressure through a centrally drilled hole in the input and main shafts.

### **Splash Fed**

The most widely used type of lubrication system in the automotive industry. This system requires the transmission to be filled to the correct fluid level. Small holes are drilled radially in each free-spinning gear to aid the oil to lubricate the gears bearing surface on the shaft.

### **Impregnated Bushes**

Are made from bronze or bronze alloys. The bush is soaked or boiled in oil to saturate the bronze with oil. They are no longer used in modern transmission as ball bearings, and needle roller bearings will provide a longer service life.

### **Sealed Bearings**

Are generally ball-bearing races that have been packed with grease by the manufacturer and have a steel or plastic seal preventing the lubricating grease from escaping from the bearing. This type of bearing is commonly found where the bearing is not easily accessible and where lubrication is not a key factor.