

[1] TYPES OF TRANSMISSION

Transmissions are largely classified into two types: mechanical transmissions and hydraulic assisted transmissions. This chapter discusses the mechanical transmissions. Three major types of mechanical transmissions are the sliding gear, the collar shift and the synchromesh transmissions.

1) Sliding Gear

The sliding gear transmission has two or more shafts mounted in parallel or in line, with sliding spur gears arranged to mesh with each other and provide a change in speed or direction.

This device is a popular transmission for use in farm and industrial machines.

Made up mainly of spur gears and shafts, it is simple but gives a variety of speeds.

2) Collar Shift

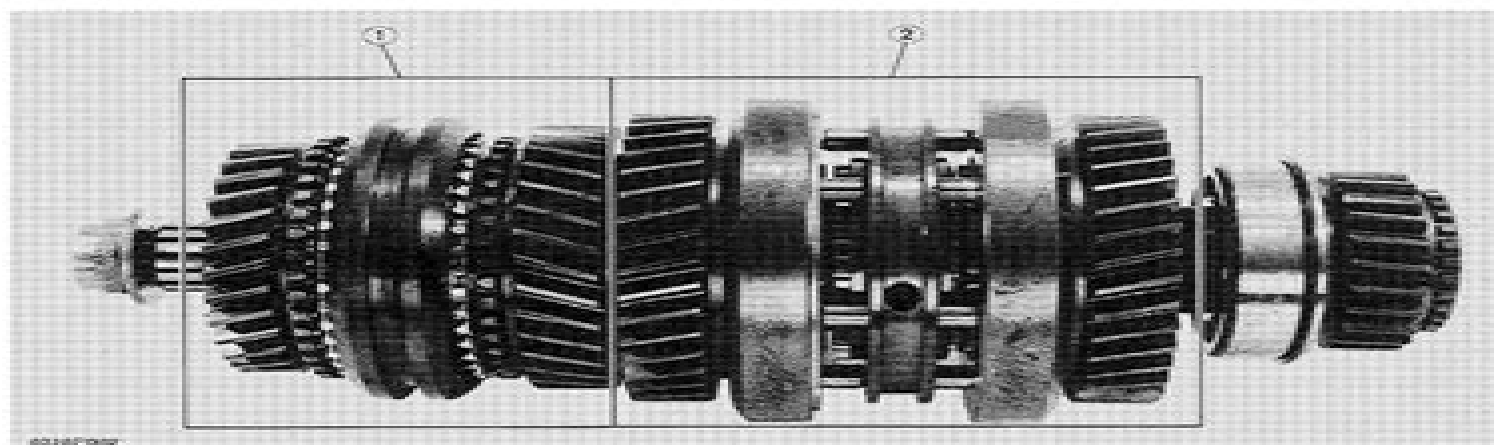
The collar shift transmission has parallel shafts with gears in constant mesh.

Shifting is done by locking free-running gears to their shafts using sliding collars.

3) Synchromesh

The synchromesh transmission is basically a constant mesh, collar-shift transmission with an extra device (called a synchronizer) to equalize the speed of the mating parts before they engage. The synchronizer is used in all manual automotive transmissions and is common in other machines where "on-the-go" shifting is required.

Four common types of synchronizers are block-type, pin-type, disk-and-plate-type and plain-type synchronizer. In this tractor, block-type and pin-type synchronizers are used. For operations, refer to the following.



(1) Block-type Synchromesh
(Main speed change 2nd-3rd speed)

(2) Pin-type Synchromesh
(Main speed change 1st speed-Reverse)

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