

Remove bearing from end of transmission drive shaft with puller (Figure 65-20-7).

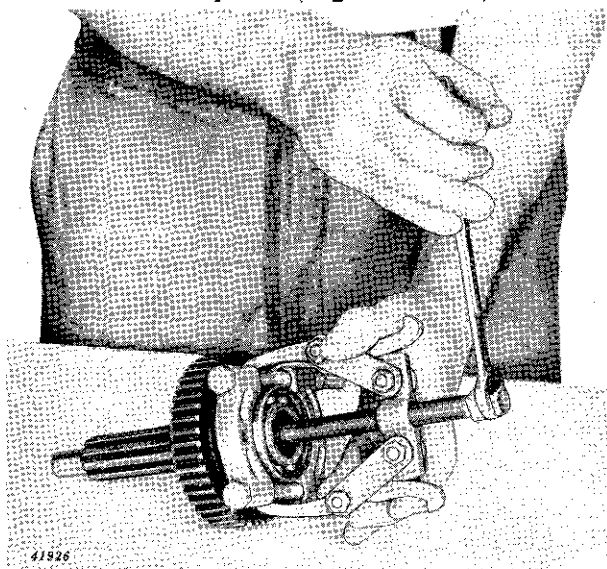


Figure 65-20-7—Removing Transmission Drive Shaft Bearing

Remove snap ring (Figure 65-20-8) and slide over-running clutch plate from end of transmission drive shaft. Slide transmission drive gear from over-running clutch hub and remove rollers, plungers and springs.

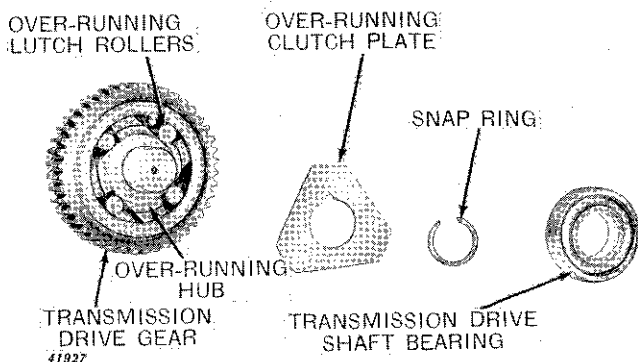


Figure 65-20-8—Over-Running Clutch Mechanism

## INSPECTION AND REPAIR

### FLYWHEEL AND CLUTCH PARTS.

Check clutch release bearing. *NOTE: Bearing is prelubricated. Do not wash bearing in solvent. Do not make an attempt to oil bearing.*

Check clutch bearing fork. Fork can be removed by removing snap rings and sliding shaft out of case.

Check clutch disk. If necessary, replace either the facings or the disk assembly.

Inspect pressure plate, clutch toggles and release springs.

Check clutch surface and ring gear of flywheel.

### LINKAGE.

Check all linkage parts for wear or damage and repair or replace as necessary.

### TRANSMISSION.

Check all bearings, gears, and shafts for wear or damage and replace if necessary.

Transmission drive shaft bushing, located in rear of transmission housing can be replaced by driving out old part and installing new bushing using a suitable driver.

Check the front and rear oil seals. If replacement is necessary, install new seals with lips facing inward.

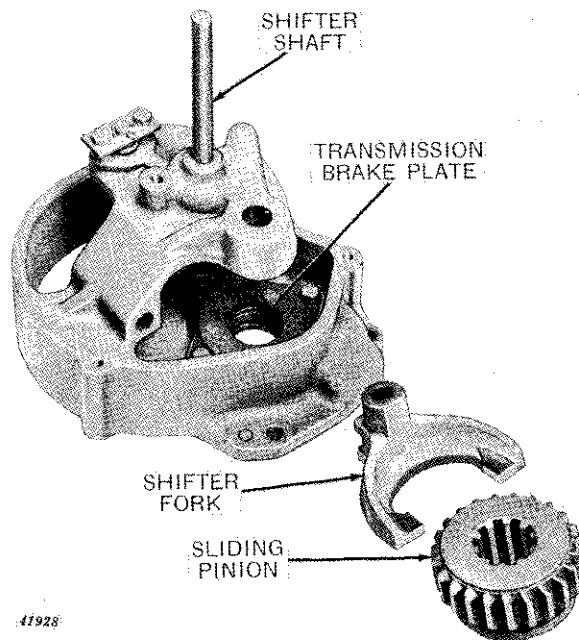


Figure 65-20-9—Transmission, Brake Plate, Shifter Fork, and Pinion

If lining on transmission brake plate is worn, replace it (Figure 65-20-9).

Check pinion shifter fork. To remove, drive out shifter shaft (Figure 65-20-9).

Check all parts in over-running clutch mechanism.

- A —Shifter Lever Shaft
- B —Shifter Lever
- C —Shifter Shaft
- D —Shifter
- E —Sliding Pinion
- F —Brake Plate with Facing
- G —Transmission Housing
- H —Drive Shaft
- I —Oil Seal
- J —Over-Running Clutch Plate
- K —Drive Gear
- L —Over-Running Clutch Hub
- M —Drive Shaft Bearing
- N —Over-Running Clutch Parts
- O —Drive Shaft Bushing
- P —Shifter Lever Stop

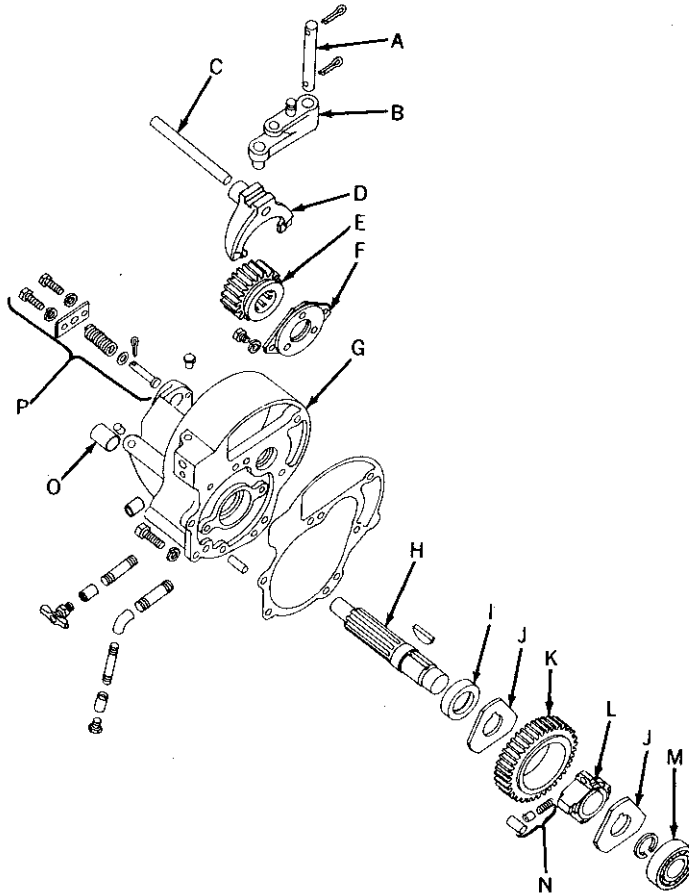


Figure 65-20-10—Exploded View of Transmission

## ASSEMBLY

### Transmission.

*NOTE: For aid in assembling transmission, refer to Figure 65-20-10.*

Slide over-running clutch hub "L" on transmission drive shaft "H."

Install rollers, springs, and plungers "N" in hub and slide on the transmission drive gear "K" (Figure 65-20-8).

Slip on over-running clutch plate "J" so keyway fits over Woodruff key and secure with snap ring.

Press bearing "M" on end of drive shaft.

Insert drive shaft assembly through sliding pinion gear "E" into bushing "O" in end of transmission housing.

With clutch shaft inner bearing in place, slide shaft into outer bearing in transmission housing (Figure 65-20-11).

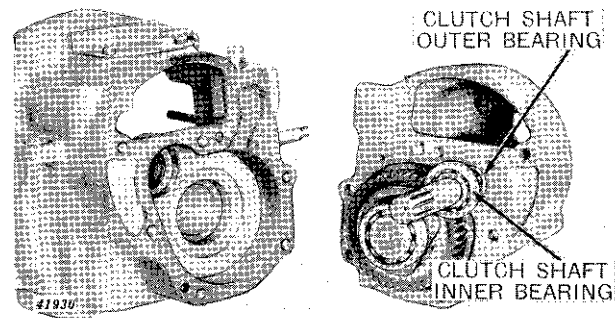


Figure 65-20-11—Clutch Housing and Transmission Housing Separated