INPUT SHAFT

1. Remove the snap ring from the front of the shaft (Fig. 10).

2. Place the adapter housing and input shaft on a press, and press the shaft out of the main drive gear and housing.

3. Remove the bearing retaining snap ring from the housing bore, and remove the bearing.

4. Remove the seal in the adapter housing if it is worn or damaged.

5. If the adapter housing seal was removed, install a new seal with the tool shown in Fig. 11.

6. Place the bearing in the housing and secure with the snap ring.

7. Using the main drive gear as a base, press the input shaft through the housing, seal, bearings, and main drive gear. Install the snap ring on the front of the shaft.

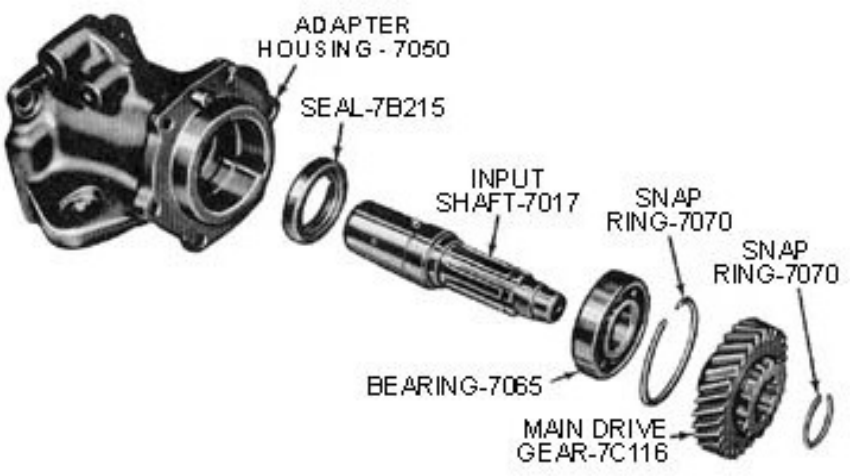


Figure 10 – Input Shaft, Disassembled



Figure 11 – Installing Adapter Housing Seal

REAR DRIVE OUTPUT SHAFT

1. Remove the needle bearings from the bore of the shaft (Fig. 12).

2. Remove the speedometer driven gear from the bearing retainer housing.

3. Place the bearing retainer and rear output shaft assembly in a press, and press the shaft out of the retainer.

4. Lift the speedometer drive gear and shims. from the shaft (Fig. 12). Tie the shims together.

5. Press the outer cup, bearing and seal from the bearing retainer as shown in Fig. 13.

6. Remove the inner cup with the tool shown in Fig. 13.

7. Remove the inner bearing from the output shaft with the tool shown in Fig. 14.

8. Press the shaft onto the inner bearing with the tool shown in Fig. 14.

9. Install the outer cup in the bearing retainer with tool T55P-46l6Al.

10. Install the inner cup with tool T56T-461 6-A2.

11. Position the outer bearing into the bearing retainer. Then, place the shims and speedometer drive gear on the output shaft, and install the shaft in the bearing retainer housing.

12. Place the bearing retainer and shaft in a vise. Install the output shaft flange and torque the retaining nut to specifications. Install a dial indicator on the flange end of the output shaft, and check the end play. The end play should be 0.003-0.005 inch. If not within these limits, adjust the shim pack (Fig. 12) between the speedometer drive gear and rear output shaft outer bearing.

13. After establishing the correct end play, remove the output shaft flange and press the bearing retainer seal in the housing with tool T56T-46 16-A. Install the speedometer driven gear.

FRONT DRIVE OUTPUT SHAFT

1. To remove the front output shaft rear bearing, use the sliding gear as a base and press the bearing from the shaft.

2. Install the bearing as shown in Fig. 15.

SHIFT RAIL OIL SEALS

1. Remove the shift rail seals as shown in Fig. 16.

2. Install the two shift rail oil seals, using the tool shown in Fig. 17.

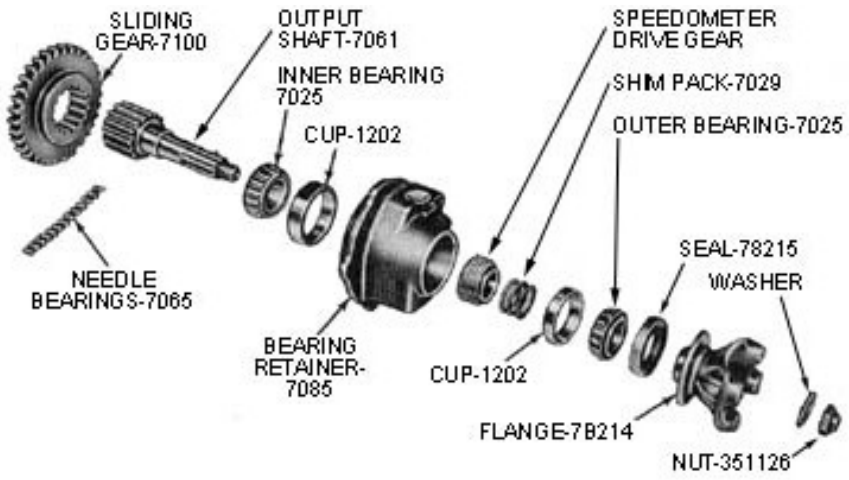


Figure 12 – Rear Drive Output Shaft, Disassembled

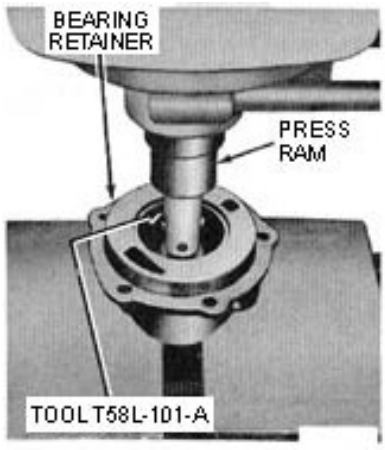


Figure 13 – Removing Rear Bearing Retainer Outer Cup, Bearing, and Seal