RECONDITIONING PINION SHAFT

3 RA

Disassembling Pinion Shaft

Special Tools:

P 31 Holder for pinion shaft while tightening castle nut

P 31a Guide ring used with tool P 31 to tighten castle nut of pinion shaft

P 39 Pinion shaft collar

P 41 Assembly ring for roller bearings on pinion shaft

P 42 Torque wrench

P 46 Socket used with P 42 to tighten castle nut on pinion shaft

P 67 Press guide for removing roller bearing from pinion shaft

VW 400 Hydraulic press

VW 401 Plate for various press operations

VW 409 Arbor, general application

VW 410 Arbor, general application

VW 412 Arbor, general application

VW 421 Tube, 28 mm dia. 100 mm long, general application

Disassembly

1. Disassemble transmission (2 RA).
2. Press pinion shaft out of complete gear train using tools VW 400, VW 401 and VW 410.

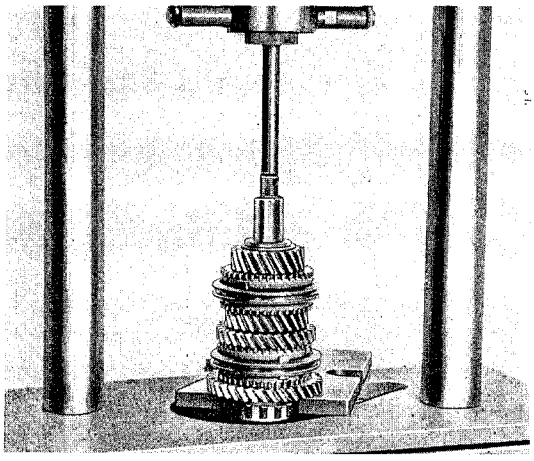

Fig. 50

3. Remove spacer 4 mm and washer 2 mm from 4th gear with needle bearing and bushing.
4. Remove sliding sleeve and spider.
5. Remove third gear with needle bearing and bearing sleeve.
6. Remove washer between 2nd and 3rd gear.
7. Remove 2nd gear, rollers, cage and bearing sleeve.
8. Remove sliding sleeve and spider.
9. Remove 1st gear, rollers, and cage.
10. Press bearing sleeve, thrust washer, and roller bearing from pinion shaft using tools P 67, VW 400, VW 401, and VW 402.

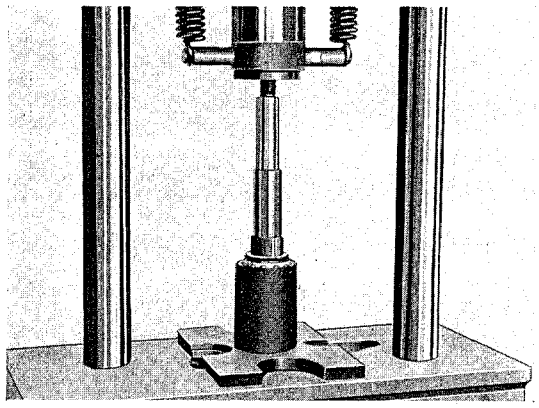

Fig. 51

11. Note the number and thickness of spacers between roller bearing and thrust washer.