13. Using tool P 55 press main and pinion shafts into intermediate plate simultaneously. There should be at least 0.2 mm (.079 in.) clearance between the upper faces of the 4th gears of both shafts and the surface of the intermediate plate.

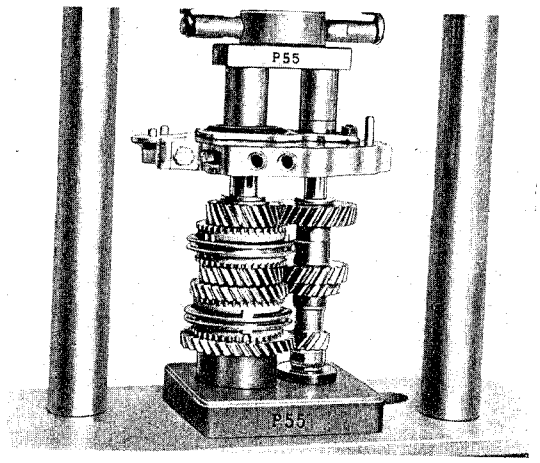

Fig. 46

14. Hold intermediate plate with main and pinion shafts in a vise using soft jaws.

15. Install shift rods and selector forks in the following order:

a) Reverse gear selector rod.

b) Insert first interlock pin.

c) 1st and 2nd gear selector rod and fork.

d) Insert second interlock pin.

e) 3rd and 4th gear selector rod and fork.

16. If the bushings for the selector rod locks have been removed (using tool P 66) or if a new intermediate plate is used, the bushings must be installed in the three bores using tools P 57 and P 58.

17. Inspect springs of gear shift locks. Replace damaged springs. The correct free length for reverse gear is 25.7 mm (1.012 in.), minimum 25.2 mm (.992 in.). Free length for forward gear springs is 23.2 mm (.915 in.), minimum 22.7 mm (.895 in.).

18. Install a locking ball and spring in each of the three gear lock bores using the correct spring for reverse gear (Fig. 45).

19. Install spacer plug in the 3rd and 4th gear lock bore.

20. Install three retaining plugs.

21. Install intermediate plate with main and pinion shafts in gear box. The dowel pins must fit tight in the intermediate plate.

22. Install tool P 37 to hold main shaft.

23. Secure intermediate plate to transmission housing.

24. Engage 1st gear using a screwdriver.

25. Install gear 1 of reverse gear on main shaft and tighten castle nut to 2.5 mkg (18 ft. lb.) torque.

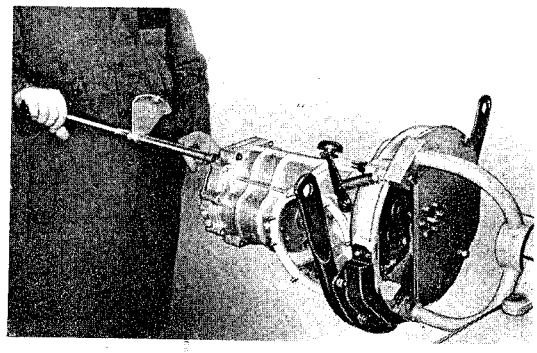

Fig. 47