

Special Tool

Assembly fixture for rear axle center piece

116 589 00 59 00

Removal

1 Remove rear axle center piece with rear axle shafts 35.1-110 or 35.1-120). *

2 Clamp rear axle center piece with rear axle shafts on assembly fixture and support rear axle shafts (Fig. 1). Drain oil from rear axle housing.

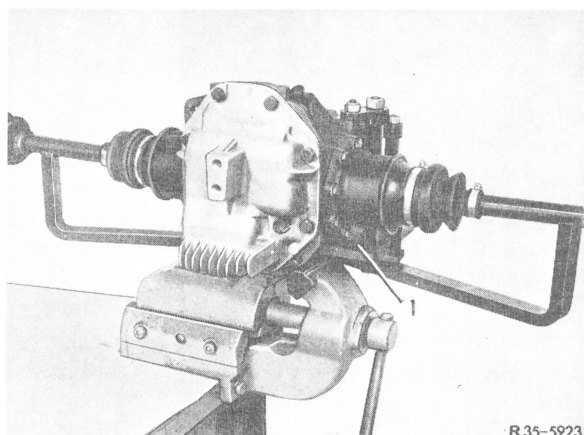


Fig. 1

1 Assembly fixture

3 Unscrew end cover from rear axle housing (Fig. 2).

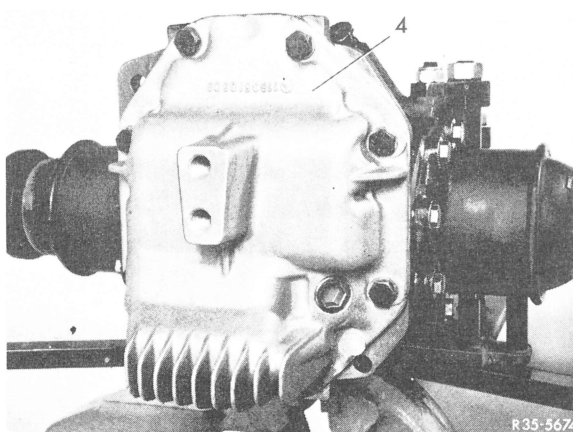


Fig. 2

4 End cover

4 Pull locking rings between inner synchronizing joints and side gears with pliers or a hook and remove from housing (Fig. 3).

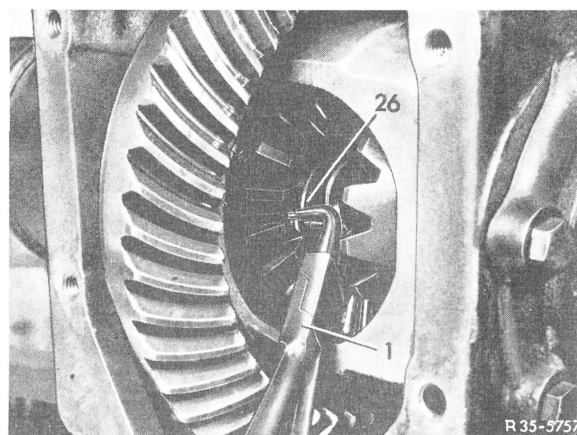


Fig. 3

1 Offset pliers

26 Locking ring

5 Pull rear axle shaft from side gears and remove together with spacer rings (Fig. 4).

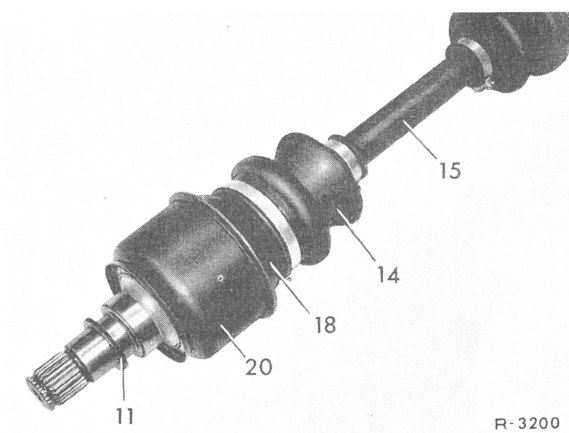


Fig. 4

11 Spacer ring

18 Stop sleeve

14 Rubber sleeve

20 Protective sleeve

15 Rear axle shaft

6 Remove lateral bearing covers (Fig. 5).

35.1 Removal of Differential and Ring Gear

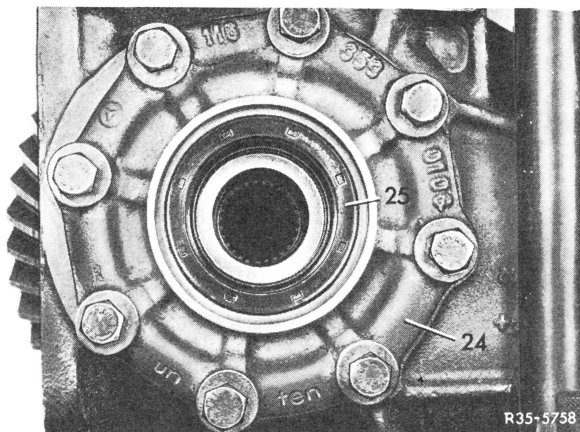


Fig. 5

24 Bearing cover

25 Sealing ring

7 Remove sealing rings (22). Remove compensating washers (23) for adjusting backlash or inclination and mark together with bearing covers (for left and righthand end) (Fig. 6).

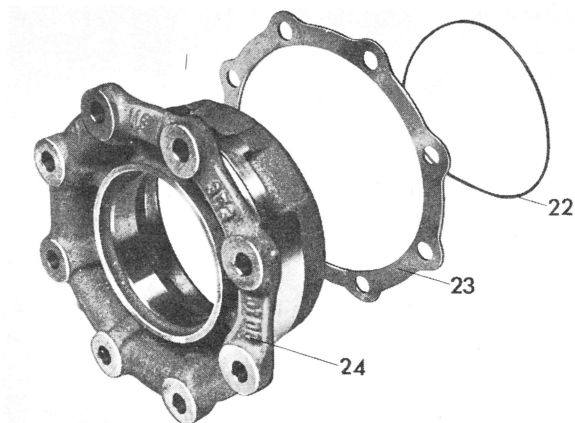


Fig. 6

22 Sealing ring

23 Compensating washer

24 Bearing cover

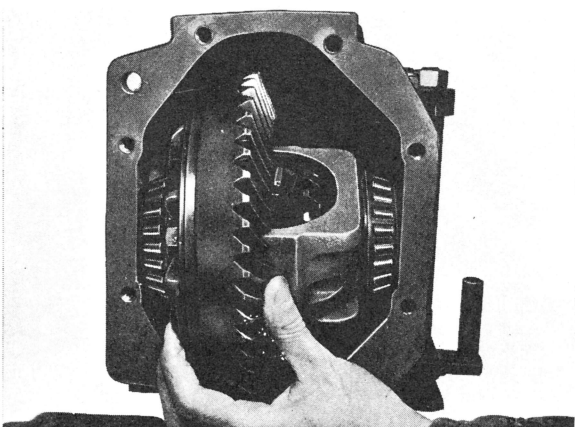


Fig. 7 (Large center housing)

8 Remove differential from rear axle housing (Fig. 7).

8a Move differential into position shown and remove rear axle housing (Fig. 8).

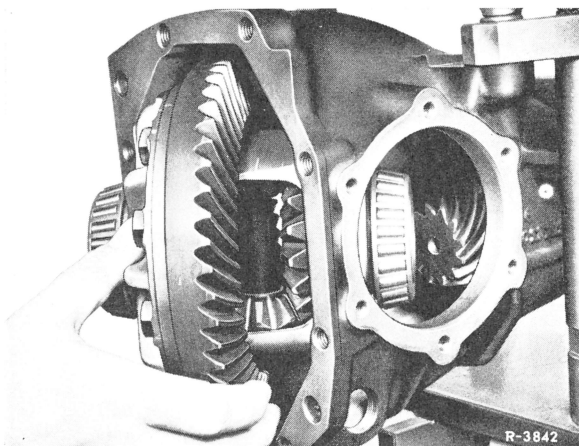


Fig. 8 (Small center housing)

Note: If the gear assembly is used again, mark the position of the ring gear in relation to the differential housing, so that the ring gear is in the same spot during assembly.

9 Unscrew ring gear from differential housing and force carefully from housing (Fig. 9).

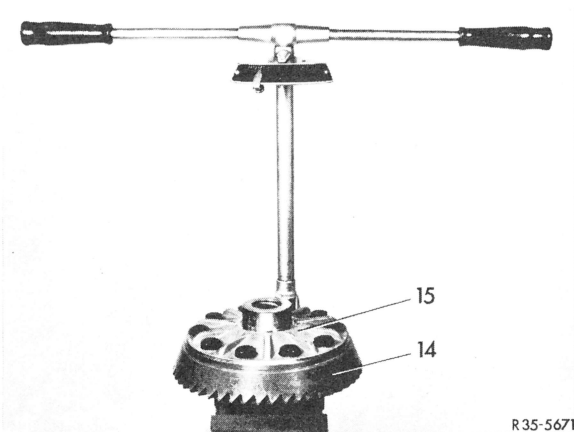


Fig. 9

14 Ring gear

15 Differential housing