

Verifying Adjustment of Ring Gear

Special Tools:

P 34a Pinion shaft holding clamp
VW 288b Backlash gauge

General

The correct adjustment of the ring gear is checked by measuring the backlash.

Preparation

Install assembled intermediate plate with previously determined paper gaskets into transmission housing.

1. Secure intermediate plate with two bolts.
2. Install right transmission cover with 0.20 mm paper gasket and secure.
3. Install assembled differential with previously determined spacers.

Measuring backlash

1. Remove standard 8 mm feeler from VW 288b and replace with a longer feeler 20 mm of the same shape.

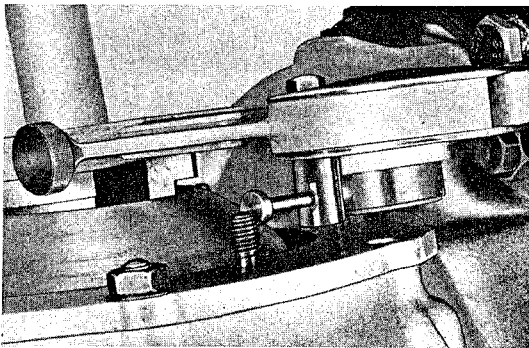


Fig. 102

2. Insert and clamp the backlash gauge VW 288b into the axle opening in such a manner that the long indicator point contacts one of the axle flange studs in the side plate.

3. Clamp castle nut of the pinion shaft with special tool P 34a.

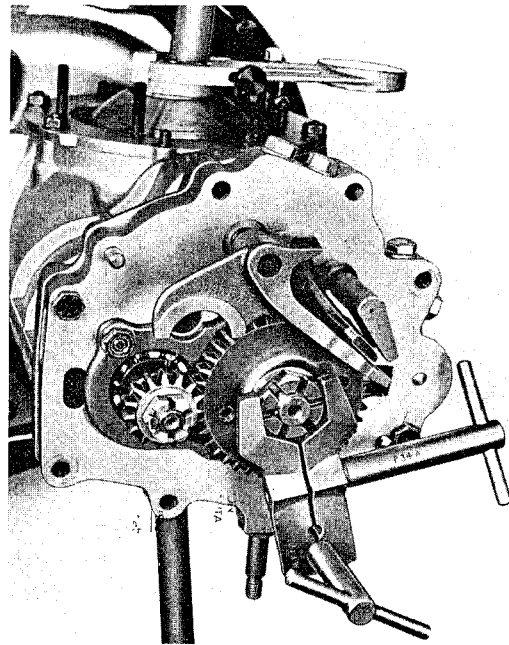


Fig. 103

4. Move the gauge lightly in both directions until it stops and read the indicator movement.
5. Turning the ring gear each time through approx. 90°, repeat the measurement. The indicated values of the four measurements must not differ by more than 0.05 mm. Compare the mean value with that marked on the gears (Fig. 96).
6. If the backlash is not within the tolerance, rearrange spacers S_1 and S_2 until the correct adjustment is obtained.