11 RA

Adjusting Ring Gear

Special Tools:

P 33 Gauge for adjusting ring and pinion gears

General

To insure that the measurements are made accurately it is essential that the bearing surfaces for the measuring instruments are absolutely clean and undamaged. The ball bearings for the differential must be parallel and properly seated.

Measuring

1. Install left transmission housing cover with paper gasket 0.20 mm (.008 in.) thick.
2. Install dial gauge on measuring device P 33 and zero dial gauge using ring master.
3. Insert gauge P 33 in the inner race of the ball bearing in the left half of the housing.
4. Install right transmission housing cover with paper gasket 0.20 mm (.008 in.) thick.
5. Secure dial gauge with holder to one of the studs for axle tube bearing cover and set to zero.
6. Turn the transmission housing so that the gauge moves axially and rests with its own weight on the inner race of the ball bearing in the right half of the housing. The value shown on the dial gauge must be added to the length of gauge P 33 (marked on gauge body) to give the total depth "J" of the housing (Fig. 98).

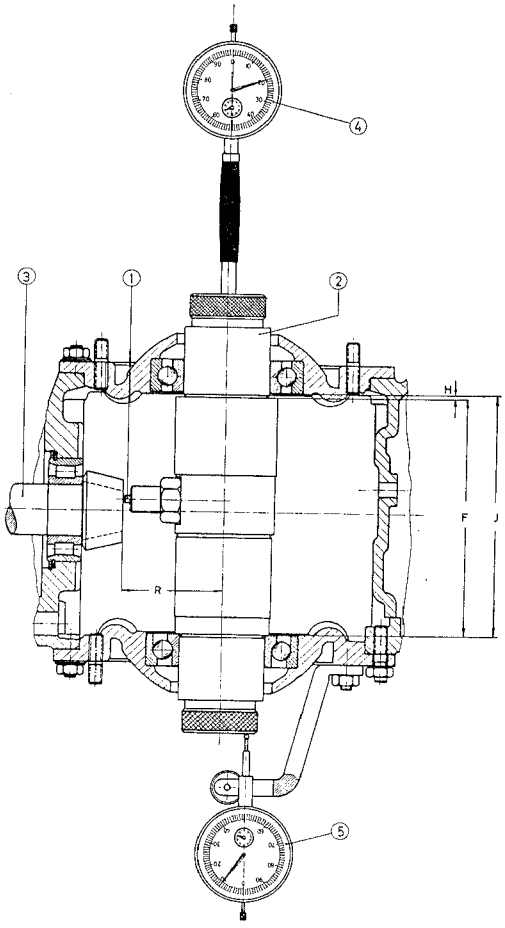

Fig. 98

Note

As mentioned above the exact length "F" is marked on gauge P 33.

① Feeler
② Gauge
③ Pinion
④ Dial gauge measures R
⑤ Dial gauge measures H

R Distance between differential bearings centerline and face of pinion

H Free end play of gauge in differential bearings

F Length of gauge

J Total depth of housing