

FRONT WHEEL BEARING

Removing and Installing Front Wheel Bearings

3 ST

Special tools:

P 30 Brake drum puller

P 63 Puller for annular tapered bearing

Arrangement of Front Wheel Bearings
(Sectional view)

- ① Brake drum
- ② Brake anchor plate
- ③ Seal
- ④ Washer (slotted)
- ⑤ Spacer
- ⑥ Outer race of bearing
- ⑦ Inner race of bearing
- ⑧ Speedometer drive shaft
- ⑨ Axle cover
- ⑩ Clamping nut
(Wheel bearing adjusting nut)
- ⑪ Thrust washer
- ⑫ Inner race of outer bearing
- ⑬ Outer race of outer bearing

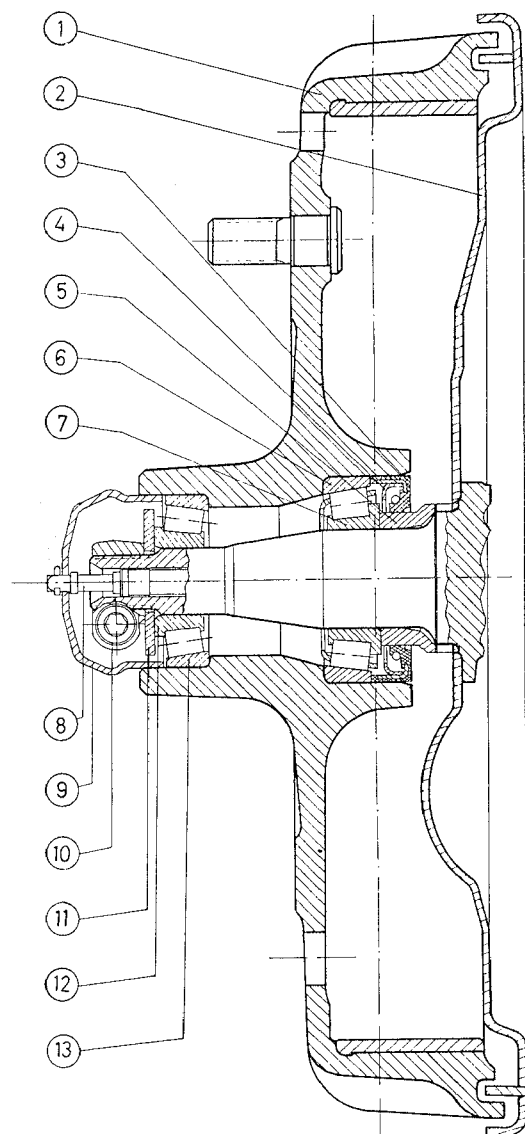


Fig. 13

Removal

1. Remove brake drum (2 St)

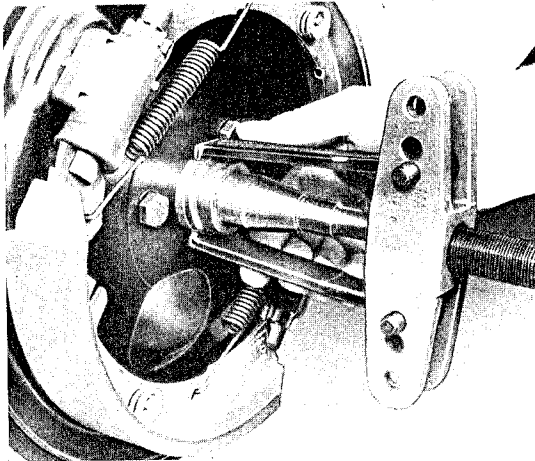


Fig. 14

2. If necessary, pull off spacer with sturdy commercial double-claw puller. Take care of cutout recess at stub axle.
3. Drive out both outer races of bearing of brake drum, proceeding carefully and evenly with a punch.

Installation

The front wheel bearings are installed in reverse order, observing the following points:

1. Prior to installing brake drum, clean it thoroughly. Remove all traces of old grease between the bearing seats. If the outer bearing races do not fit firmly, replace brake drum.
2. Wash annular tapered bearings carefully in clean gasoline and check them for perfect condition. If necessary replace bearings.

Important!

Ball races, cages or balls must never be replaced separately!

3. Check spacer for signs of cracks and wear; if necessary replace, using a suitable sleeve.

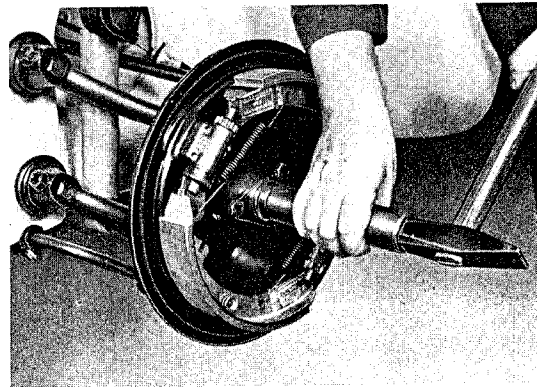


Fig. 15

4. Effective sealing of the brake drum oil seal is only guaranteed if the surface of the spacer is absolutely clean and smooth

Seat A for inner bearing = 30,000 mm dia. (1.181) to 29,984 mm dia. (1.180)

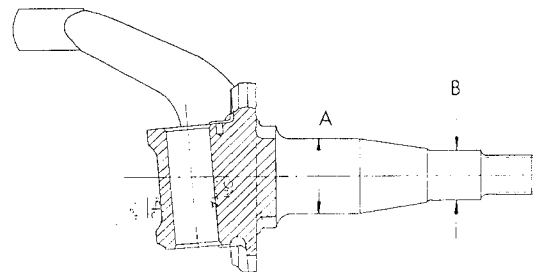


Fig. 16

Seat B for outer bearing = 19,993 mm dia. (.787") to 19,980 mm dia. (.780")

5. For installation of the outer bearing races for the inner and outer bearing the brake drum should be heated up to about 80° C (176° F). Install bearing, using a suitable arbor.
6. Install both bearings with approx 1½ ozs. (50 c. c. or 45 grams) of multi-purpose lithium-base grease, as specified in the lubrication chart.
7. Insert seal, make sure that washer is correctly seated.
8. Place brake drum in position and insert on stub axle by means of clamping nut. Take care that outer bearing is correctly seated. (see fig. 13).

Adjusting Front Wheel Bearings

When adjusting the front wheel bearings the following points should be observed in order to prevent premature wear and damage.

Inspection

1. Take off axle cover from brake drum and remove excessive grease

2. Adjustment is correct, if the thrust washer on the outer bearing can be easily moved laterally, using a screw driver, and if no bearing clearance is felt when rocking the brake drum. The brake drum should rotate easily.

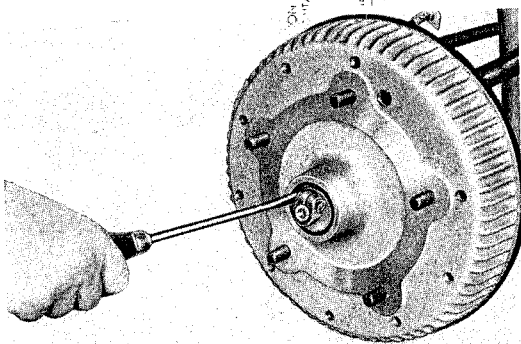


Fig. 17

Adjustment

1. Pry off clamping nut by loosening cyl. screw

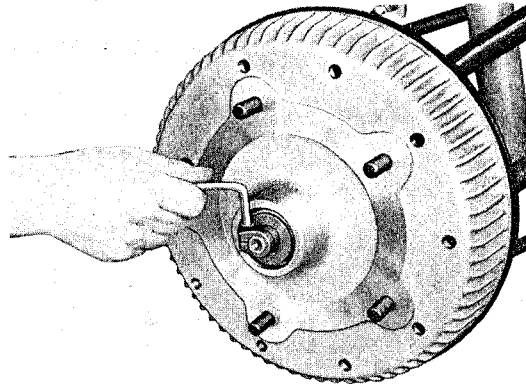


Fig. 18

2. Tighten or loosen clamping nut until thrust washer can be easily moved laterally when using a screw driver and no clearance can be felt when brake drum is moved. Lock clamping nut without twisting by tightening cyl. screw.

Important!

In order to be able to tighten or loosen the locking screw of the clamping nut in vehicles with Knock-off wheels, a .5512" (14 mm) dia. hole should be drilled into the threaded part of the hub. The distance from centre of bore to outer edge of hub should be .7480" (19 mm). As an emergency, an offset 6 mm hexagon socket wrench can be shortened correspondingly.