

SUSPENSION ARM BEARING

Removing and Installing Plastic Bushing and Bushing for Needle Bearing

14 ST

Special tools:

- P 54 Puller for needle bearing bushing in axle tube
- P 71 Sleeve
- VW 272 Puller for plastic bushings
- VW 273 a Suspension arm bushing drift
- VW 274 a Suspension arm bushing reamer

Removal

1. Remove torsion bars (12 St)
2. Remove grease nipples on front axle tube
3. Extract bushing for needle bearing, using puller P 54

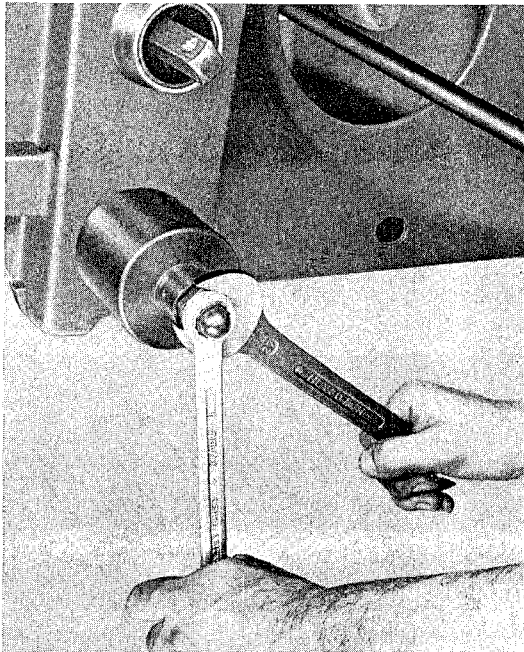


Fig. 55

4. Extract plastic bushing using tool VW 272

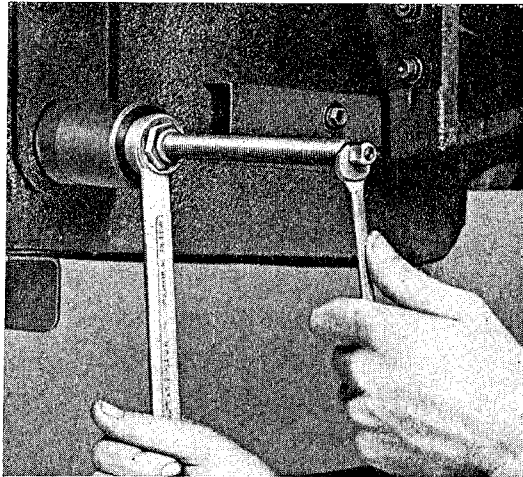


Fig. 56

Installation

1. Clean front axle tube housing, especially seating of bushings prior to fitting new bushings
2. Install plastic bushing in such a manner that the open side of the grease grooves point towards outside. Drive in bushing with tool VW 273 a until the shoulder at the arbor touches the torsion bar tube
3. If necessary, ream inner bearing bushing. For this purpose insert sleeve P 71 in axle tube (see fig. 57)

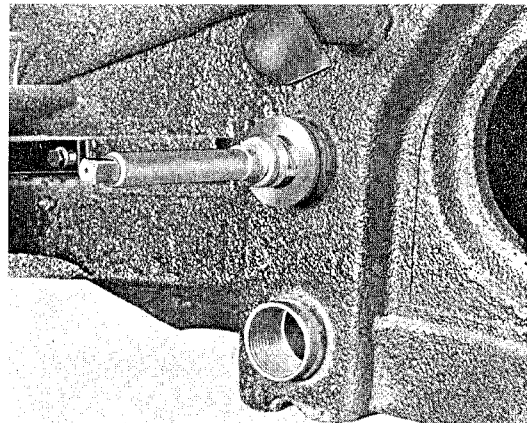


Fig. 57

The reamer is guided into the sleeve P 71 by means of a bearing bushing (fig. 59)

The bearing bushings should be reamed to the following dimensions:

Suspension arm	Reaming dimension of plastic bushing
(36,93 – 36,95 mm) dia. 1.453" – 1.454"	(37,10 – 37,15 mm) dia. 1.4606" – 1.4646"

Installation clearance of suspension arm-bushing:
(0,15 – 0,22 mm) .00591 – .00865"

4. Clean axle tube with compressed air. Care should be taken that no chips remain in the axle tube
5. Insert needle bearing in axle tube and drive in with short section of drift VW 273 a
6. Screw grease nipples into axle tubes, replace defective nipples

15 St

Checking Front Axle Tube

Special tools:

- (2) P 71 Sleeve to be inserted in axle tube when measuring with tool VW 256 a
- P 54 Puller for needle bearing bushing in axle tube
- VW 256 a Front axle tube alignment gauge

General

Front axle tubes which are suspected to be twisted or out of alignment due to an accident should be checked by means of the front axle tube alignment gauge VW 256 a.

Checking

1. Check inner suspension arm bearing bushings for wear. If necessary, install new bushings and ream them. Severely worn bushings do not allow accurate checking of the tube alignment
2. Pull out needle bearing bushings, using tool P 54 (14 St)
3. Insert 2 sleeves P 71 in place of the needle bearings
4. Insert the two mandrels of the VW gauge 256 a in the front axle tube as far as they will go
5. Apply test plate against the four test diameters of the mandrels and check for twist by means of a feeler gauge. Permissible out-of-parallel is .031" (0,8 mm)

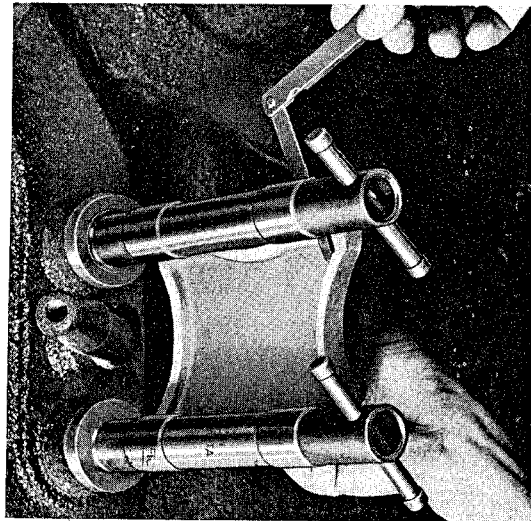


Fig. 58