

# Rear Axle — Group 35

| Designation   | Order No.        |
|---|------------------|
| Workshop jack adapter for the removal and installation of the rear axle   | BE 11 295        |
| Stand for the assembly and disassembly of the rear axle   | BE 10 494        |
| plus assembly plate   | BE 10 243        |
| plus assembly plate   | BE 10 181        |
| Stand for the assembly and disassembly of rear axle housing   | BE 98 81a        |
| plus assembly plate   | BE 11 175a       |
| Spring tensioner for rear springs   | 120 589 05 31    |
| Adjusting and checking device for the support of the rear axle suspension   | 180 589 04 23    |
|   | or 180 589 11 23 |
| Check gage for the rear axle position (misalignment)  | 180 589 08 23    |
| Check gage for the rear axle position (position relative to main longitudinal axis)   | 180 589 08 21    |
| 3 puller screws (M 8 with chain) for brake drums  | 191 589 00 35    |
| Socket Wrench SW 11 for the screws fixing the brake anchor plate to the axle tube   | 136 589 07 09    |
| Puller for removing the spindle   | 136 589 18 33    |
| Mounting plate for spindle  | 136 589 05 31    |
| Nose-type wrench for grooved nut of the spindle   | 136 589 09 07    |
| Puller clamp for the annular grooved bearing of the spindle   | 136 589 20 33    |
|   | 180 589 03 39    |
| Installing arbor for the seal in the seal retainer  | 120 589 05 39    |
| Installing sleeve 50 mm $\phi$ for forcing the retainer and seal over the spindle   | 120 589 00 61    |
| Assembly screw for the right spindle (slip coupling)  | 121 589 02 63    |
| Puller for removing the torque arm from the axle tube   | 120 589 05 33    |
| Assembly arbor for removing and installing the connecting pin of the right axle tube at the rear axle housing                       | 180 589 08 39    |
| Pin wrench long, for threaded ring  | 180 589 02 07    |
|   | or 180 589 08 07 |
| Pin wrench short, for threaded ring   | 180 589 00 07    |
|   | or 180 589 07 07 |
| Assembly arbor for the outer race of the cylindrical roller bearing in the rear axle housing  | 120 589 00 39    |
| Installing arbor for the outer race of the taper roller bearing in the rear axle housing  | 180 589 00 39    |
| Adjusting device for the dial gage in the strap for the drive pinion and ring gear plus strap and dial gage holder                  | 180 589 01 23    |
| Dial gage, 10 mm travel, $\frac{1}{100}$ mm reading accuracy  | 180 589 00 23    |
| Adjusting device for the dial gage in the strap for the drive pinion and ring gear plus strap with dial gage holder                 | 000 589 14 21 *  |
| Measuring disk 108 mm $\phi$  | 136 589 02 23    |
| Assembly arbor for the outer race of the taper roller bearing in the differential gear housing (left)                               | 180 589 05 23    |
| Measuring gage for the backlash of drive pinion and ring gear   | 180 589 06 23    |
| Special pin wrench for adjusting the taper roller bearing in the differential gear housing  | 180 589 04 39    |
| plus torque wrench 0—160 cmkg range ( $\frac{1}{4}$ " square)   | 180 589 01 21    |
| Puller for removing the taper roller bearing from the differential gear housing   | 180 589 14 07    |
| Retaining wrench for loosening and tightening the grooved nut for the joint flange on the pinion shaft                              | 000 589 67 21    |
| Pin wrench for loosening and tightening the grooved nut for the joint flange on the pinion shaft                                    | 180 589 01 33    |
| Puller for removing the cylindrical roller bearing from the pinion shaft (see sketch Page 35—4/20)                                  | 180 589 09 07    |
| Assembly arbor 17 mm $\phi$ for the differential pinion gears   | 120 589 01 07    |
| Assembly arbor for pressing the taper rolling bearings onto the differential gear housing   | 180 589 00 35    |
| Crowfoot wrench attachment for tightening the grooved nut for the joint flange on the pinion gear shaft by means of a torque wrench | 136 589 13 61    |
| Installing plates for the cylindrical rollers in the slip coupling  | 180 589 01 39    |
| Checking device for the left and right axle tubes   | 120 589 08 07    |
|   | 180 589 03 63    |
|   | 180 589 09 21    |

| Designation   | Order No.       |
|---|-----------------|
| Hunger reamer, Type U, 29—34 mm $\varnothing$ working range, for reaming the eyes of the axle tube  | 000 589 06 53   |
| End milling cutter for the axle tube eyes   | 180 589 01 51   |
| plus arbor for end milling cutter for the axle tube eyes  | 180 589 00 66   |
| Testing plug gage with level ring for axle tube eyes  | 180 589 04 21   |
| Internal micrometer 50—100 mm $\varnothing$ (for measuring the bores of the bearing seats in the rear axle housing)   | 000 589 04 19 * |
| Micrometer 0—25 mm $\varnothing$ for measuring washers etc.   | 000 589 06 19 * |
| Feeler gage 0.03—1.0 mm   | 000 581 01 30 * |
| Depth gage 160 mm long *  | —               |
| Torque wrench —0—6 mkg ( $\frac{1}{2}$ " square)<br>(for tightening the nuts of the connecting rod cap bolts and the stretch screws of the rocker arm blocks) | 000 589 27 21 * |
| Torque wrench 0—13 mkg ( $\frac{1}{2}$ " square)<br>(for tightening the cylinder head screws, the hexagon screws for the crankshaft bearing caps, etc.)       | 000 589 22 21 * |
| Flexible torque wrench 0—25 mkg ( $\frac{1}{2}$ " square)   | 000 589 25 21 * |

### Wheels and Tires, Wheel Adjustment — Group 40

| Designation  | Order No.          |
|--|--------------------|
| Special wrench for caster adjustment   | 180 589 00 05 *    |
| Spring tensioner for front spring  | 120 589 01 31 *    |
| Center check screw for the steering  | 186 589 00 23 *    |
| Tester for measuring and adjusting the wheel hub bearings                                    | 136 589 04 21 *    |
| Wheel base measuring gage  | 136 589 07 21 *    |
| Checking gage for rear axle positioning (position relative to longitudinal axis)             | 180 589 08 21 *    |
| Checking gage for rear axle positioning (misalignment)                                       | 180 589 08 23 *    |
| Camber and caster gage   | 180 589 02 23 *    |
| Checking gage for front axle positioning   | 000 589 05 21      |
| Mechanical track measuring gage for passenger cars and trucks up to 3.5 tons                 | or 000 589 72 21 * |
| Optical axle gage, Exacta  | 000 589 42 21 *    |
| Protractor for determining the size of the balancing weights                                 | 187 589 03 23 *    |
| Tire gage 0.5—3 atm.   | 000 583 02 47      |
| Adjuster for tire gage   | 000 589 10 27      |
| Tire levers for mounting the tires   | N 73 f             |
| Extension for the tube valve   | —                  |
| Wire brush for cleaning the rims   | —                  |
| Valve puller chain or another special tool for installing the rubber valve of tubeless tires | —                  |
| Holding device for the mounting of tubeless tires  | —                  |
| 22 sand bags of 22 kg each for loading down the vehicle for wheel adjustment measurements    | 187 589 07 31      |
| Pliers for the installation of the balancing weights   | —                  |

### Propeller Shaft — Group 41

| Designation  | Order No.       |
|--|-----------------|
| Fork for installing the propeller shaft  | 120 589 02 61   |
| Special wrench for the grooved nut on the rear propeller shaft   | 187 589 06 07   |
| Tester for measuring the run-out of the three-way flange at the transmission and the joint flange at the rear axle | 136 589 04 21 * |
| Internal micrometer 18—35 mm $\varnothing$ (for bore in the universal joint yoke)                                  | 000 589 02 19 * |
| Micrometer 25—50 mm $\varnothing$ (for trunnions)  | 000 589 07 19 * |
| Micrometer 0—50 mm $\varnothing$ (crescent-shaped snap rings)  | 000 589 06 19 * |