Rear axle installed

Tightening Torque			Nm	(kpm)
Clamp nut of universal shaft	2-piece		30–40	(3–4)
	3-piece	front	30–40	(3–4)
		rear	200	(20)

Special Tools	
Holding wrench for three-legged flange	115 589 00 07 00
Slotted nut wrench	115 589 01 07 00
Thrust piece for sealing ring	116 589 12 61 00
Torque wrench	001 589 49 21 00
Reducing piece	100 589 02 59 00

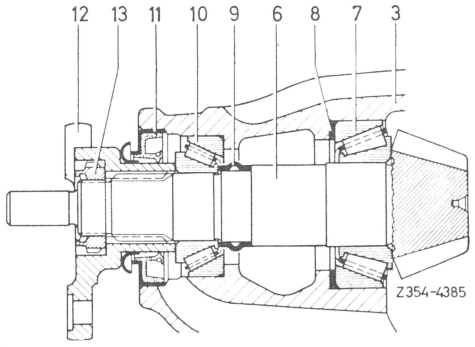

Fig. 1

3 Rear axle housing
6 Drive pinion
7 Tapered roller bearing
8 Compensating washer
10 Tapered roller bearing
11 Sealing ring
12 Universal flange
13 Self-locking slotted nut

Removal

Model 107, 116

1 Remove exhaust system (49.1–100).

2 Unscrew shielding plate.

All Models

3 Loosen clamping nut and unscrew propeller shaft intermediate bearing on frame floor.

Note: On three-piece propeller shaft, loosen front clamping nut only.

4 Unflange propeller shaft from rear axle and push forward out of centering alignment.

5 Measure friction torque of entire rear axle drive **and record** (Fig. 2 and 3).

Caution: When measuring friction torque, make sure that the rear axle shafts are horizontal and neither the brake pads are wiping against brake discs, nor the brake shoes of parking brake against drum.

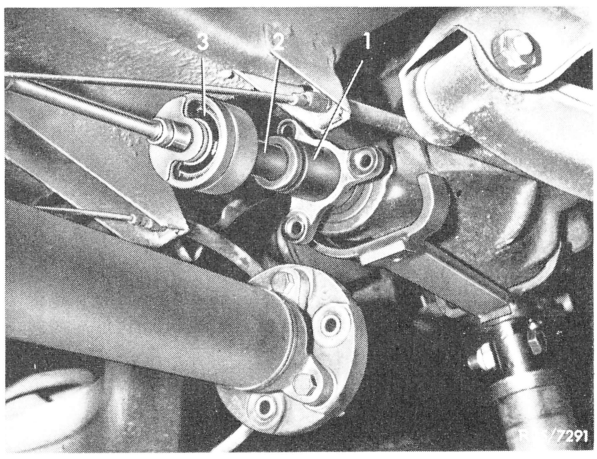

Fig. 2

1 Slot nut wrench
2 Reducing piece
3 Friction torque wrench

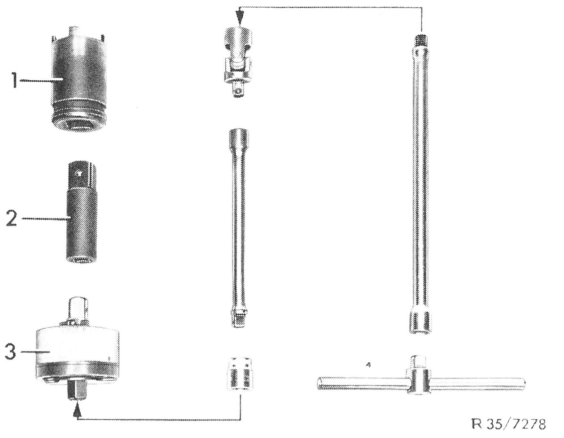

Fig. 3

1 Slot nut wrench
2 Reduction piece
3 Friction torque wrench

All other tools are conventional types.

6 Attach holding wrench to universal flange and loosen slotted nut with slotted nut wrench (Fig. 4).

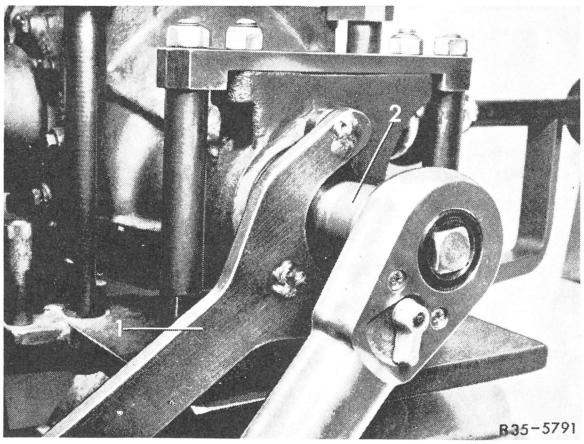

Fig. 4

1 Holding wrench
2 Slot nut wrench

7 Pull universal flange from drive pinion, using a suitable puller, if required.

8 Force sealing ring out of rear axle housing by means of a screw driver (Fig. 5).

9 Check running surface for sealing ring on universal flange and replace universal flange, if its running surface is worn.

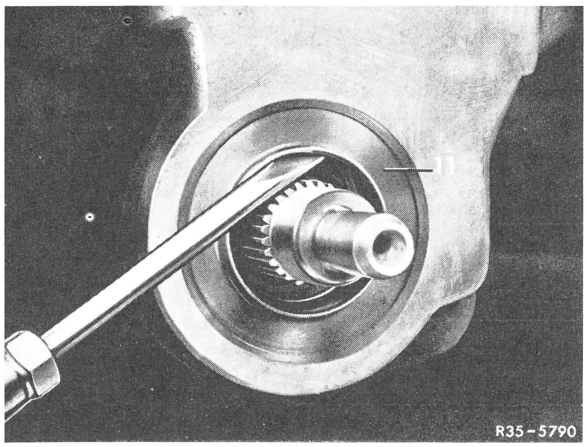

Fig. 5

11 Sealing ring

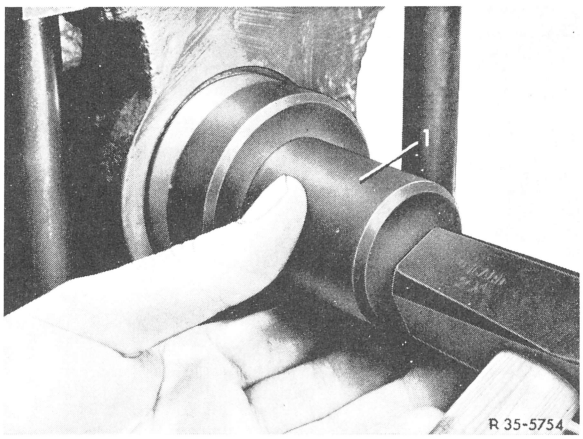

Fig. 6

1 Thrust piece

Installation

10 Coat new sealing ring on OD with sealing compound and knock in against stop in rear axle housing with thrust piece (Fig. 6).

11 Attach universal flange and carefully tighten self-locking slotted nut until the cranking torque measured and taken down according to item 4 has been attained (Fig. 4).

12 Flange on universal shaft.

13 Slightly fasten propeller shaft intermediate bearing.

14 Fill rear axle housing with oil up to level of filler hole.

15 Move vehicle ready for driving back and forth several times.

16 Tighten clamping nut on universal shaft to 30–40 Nm (3 to 4 kpm) (Fig. 7).

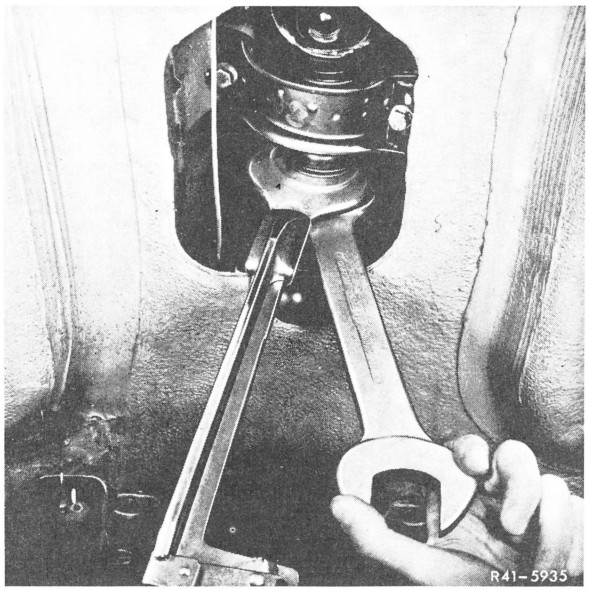

Fig. 7

17 Tighten propeller shaft intermediate bearing.

Model 107, 116

18 Mount shielding plate.

19 Install exhaust system (49.1–100).