
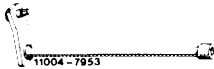

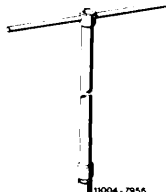



46–480 Adjustment of power steering in vehicle

Note

Except for model 116.036, the steering can be adjusted in vehicle. On model 116.036, the steering must be removed for making adjustments.

Adjusting value		Ncm
Total friction torque of steering measured at steering worm		120–160
Tightening torques		
Hex. collar nut on adjusting screw		60–65
Self-locking hex. nut on steering shaft		160–200
Special tools		
Puller for pitman arm		100 589 04 33 00
Allen wrench (pin wrench) insert 6 mm 3/8" square		123 589 01 10 00
Box wrench insert 19 mm 1/2" square		123 589 01 03 00
Socket wrench 19 mm		123 589 01 09 00
Torque wrench 1/2" square 0–400 Ncm		123 589 02 21 00

Conventional tools

Allen wrench insert 3/8" with joint
for hex. socket screw 6 mm

e. g. made by Hazet, 5630 Remscheid
order No. 2740

Slide handle 3/8" 200 mm long

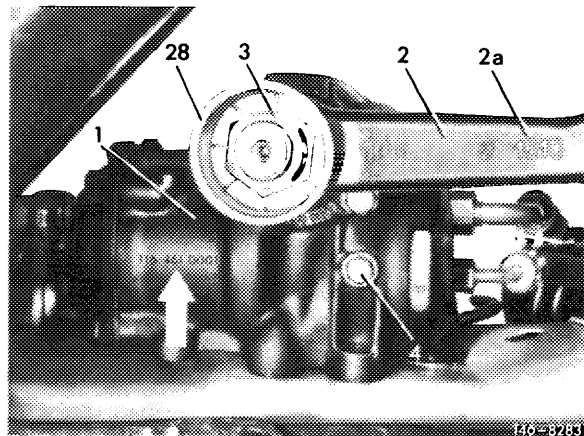
e. g. made by Hazet, 5630 Remscheid
order No. 8815

Extension 3/8" 255 mm long

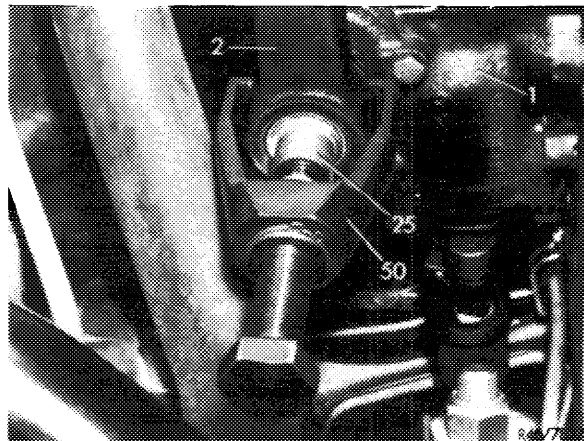
e. g. made by Hazet, 5630 Remscheid
order No. 8821-10

1 Unscrew self-locking hex. nut (3) from pitman shaft and remove protective cap (28).

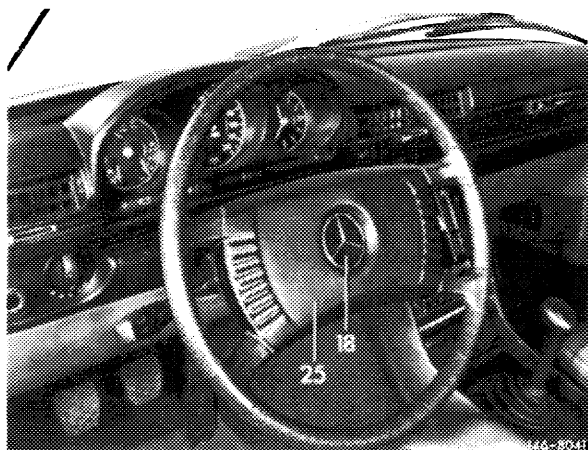
Note: The protective cap is installed on vehicles with V-8 engine only.



2 Pull pitman arm (2) from pitman shaft by means of puller (50).



3 Remove company symbol from pad of steering wheel with a small screw driver.



7 Measure friction torque once again beyond center position by means of torque wrench. The friction torque should be 50–70 Ncm above basic friction torque.

If this addition is not attained, unscrew adjusting nut once again by 1/8 to 1/4 turn.

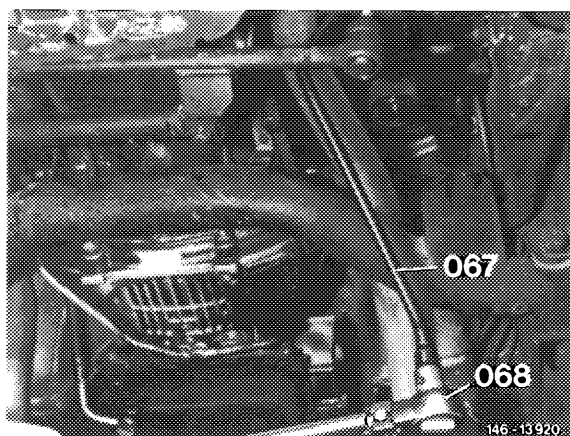
When turning beyond center position, the friction torque should not exceed 160 Ncm.

Turn steering from lock to lock. Steering should not bind throughout entire turning range.

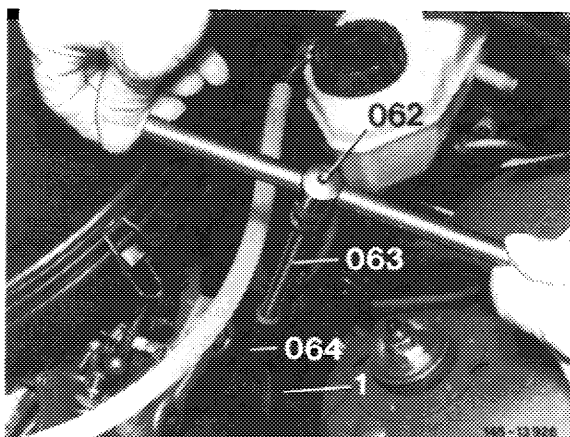
8 Application of special tools and conventional tools:

Models 116.020, 116.024 with engine 110.983/993, 116.028/029, 116.032/033

For loosening or tightening hex. collar nuts from below, use box wrench part No. 123 589 01 03 00 (067).

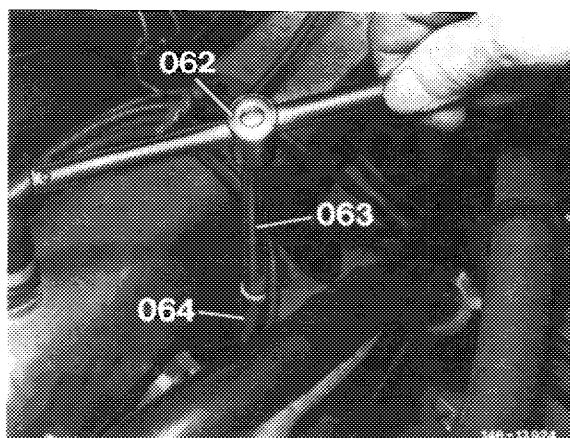


Required for adjustment of adjusting screw: Allen wrench with joint (064), extension (063) and slide handle (062).



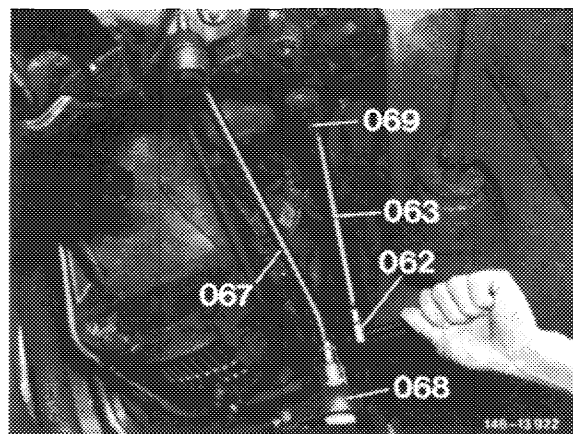
On vehicles with engine 116 or 117, pull off plug connection for cylinder 7, remove shielding plate on lefthand exhaust manifold, remove lefthand cylinder head cover, if required, so that Allen wrench can be inserted into adjusting screw.

On engines with CIS, additionally remove air filter. Insert Allen wrench (064) through exhaust manifold cylinder 7 into adjusting screw.



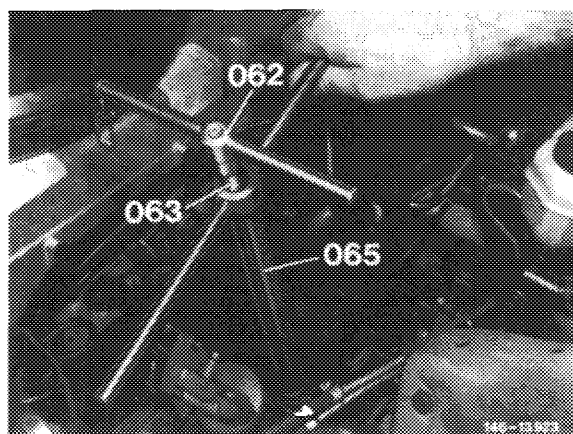
Model 116.024 with engine 110.985

For loosening or tightening hex. collar nut from below, use box wrench part No. 123 589 01 03 00 (067) and for adjustment of adjusting screw from below Allen wrench insert part No. 123 589 01 10 00 (069).



Model 116.120

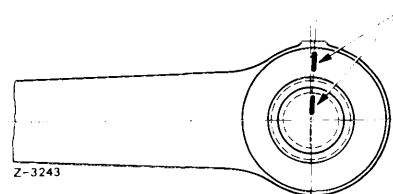
For adjustment, use socket wrench part No. 123 589 01 09 00 (065) together with slide handle (062), extension (063) and Allen wrench insert with joint.



All models

9 Clean splining on pitman shaft and on pitman arm.

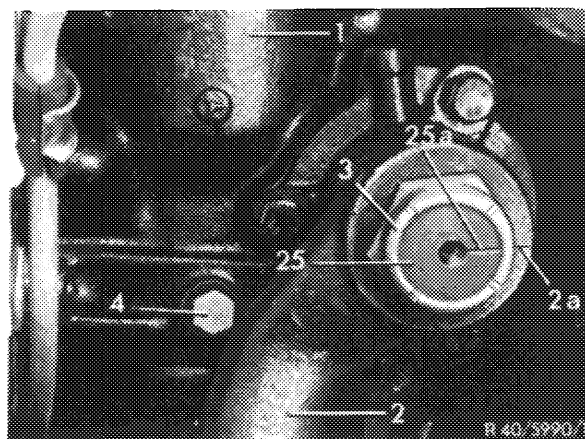
10 Slip pitman arm on pitman shaft, mark on arm should be in alignment with mark on pitman shaft.



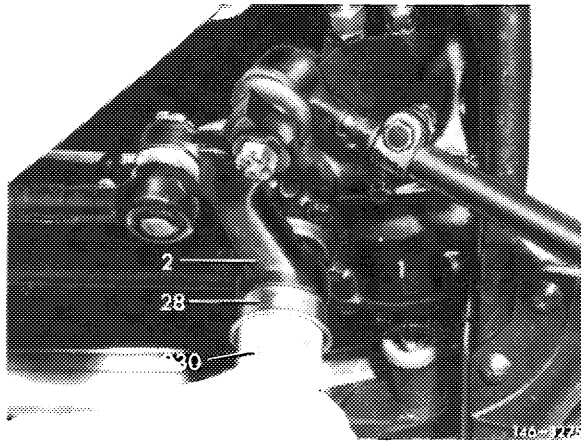
11 Screw new self-locking hex. nut (3) on pitman shaft and tighten to 160–200 Nm.

Attention!

Always replace self-locking hex. nuts on principle.



12 On vehicles with V-8 engine, slip protective cap (28) over self-locking hex. nut and attach with sleeve (30) by means of a few blows.



13 Insert company symbol into steering wheel.

