

General notes

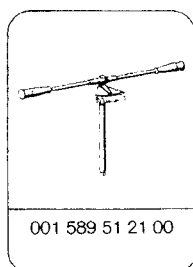
Note: When exchanging or testing the steering system and when changing the steering angle for corresponding tires, the pressure release valves must be readjusted.

For the adjustment of the steering limiter it is a prerequisite that the center position of the steering and the front wheels agree. When renewing steering members which influence the center position, adjustment of the center position must therefore be carried out. With the steering limiter the hydraulic pressure is checked at max. steering angle and adjusted if necessary.

Setting values

Steering limiter		
– at engine idle speed	1/min	800
– against steering lock	Nm	25 (Test value)
– Torque drop to	Nm	20 (Test value)
– Steering limiter valve	turns	2 to 2,5
– Adjustment limit to each side	max. °	40

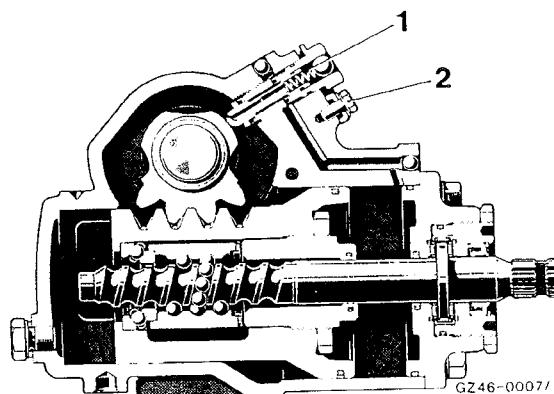
Special tools



Adjusting steering limiter

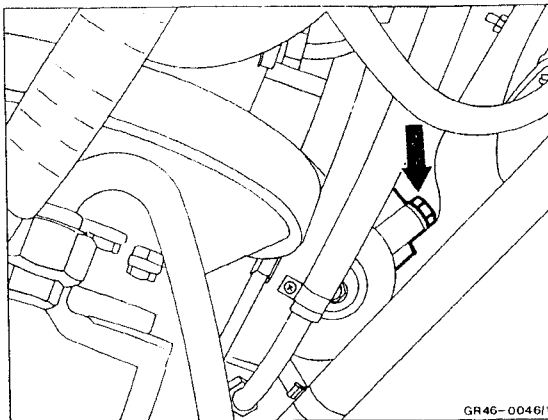
Note: The steering has only one steering limiter valve (1) which is effective in both turning directions. If the adjustment is altered, then always both turning angles are effected in the same way.

- 1 Jack up vehicle at front axle until the wheels turn freely.
- 2 Unscrew hexagon head bolt (2) and remove with the securing strap.



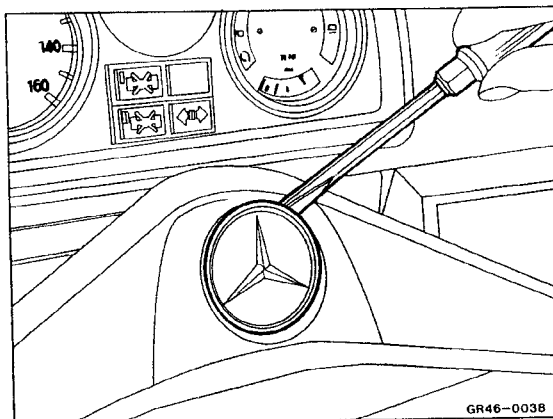
3 Screw steering limiter valve as far as it will go into the steering box and then unscrew 2 to 2 1/2 turns.

Note: The steering limiter valve must not be unscrewed by more than 2 1/2 rotations with running engine. Valve is under pressure.



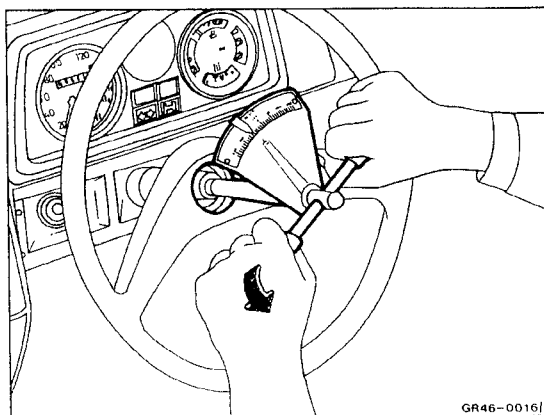
4 Press out closing cap of steering wheel.

5 Let engine run at 800/rpm and turn steering counterclockwise up to the lock.



6 Mount torque wrench with socket on the hexagon nut of the steering shaft, tighten to 25 Nm against steering lock and hold in this position.

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7 Slowly screw steering limiter valve into the steering housing until a drop in torque to 20 Nm becomes noticeable, as a result of the power steering effect.

Adjustment from 25 to 20 Nm

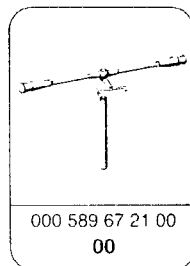
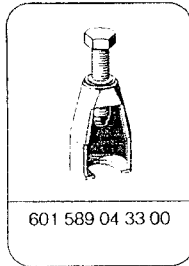
8 Bolt on retaining plate.

Note: If after adjustment, the securing strap cannot be mounted on the hexagon head of the steering limiter valve, turn it in clockwise direction until it is congruent with the twelve-point head.

General notes

"Readjusting the pitman shaft" is understood to mean the adjustment of the steering to a certain overall friction torque in the steering gear. This friction torque determines the ease of movement of the steering, particularly in center position or for straight-ahead driving. The adjustment is carried out at the adjusting screw of the pitman shaft, without the engine running.

Special tools



Setting values

Total friction torque of steering in center position	Ncm	110 to 160
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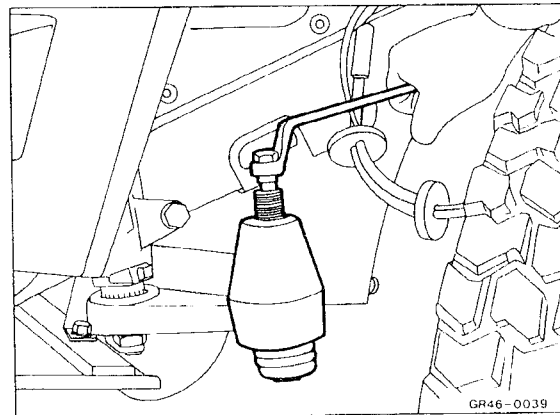
Tightening torques

Castle nut to drag link	Nm	120 to 140
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Adjusting

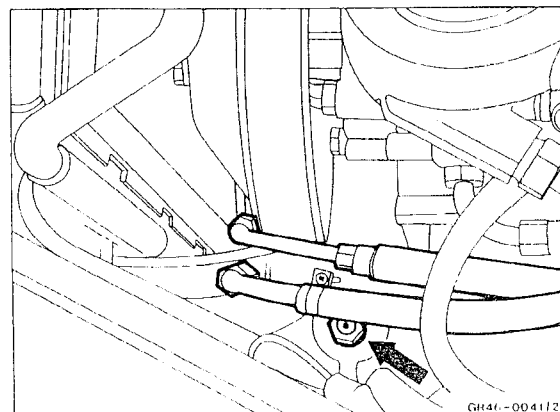
- 1 Unscrew castle nut and remove drag link.

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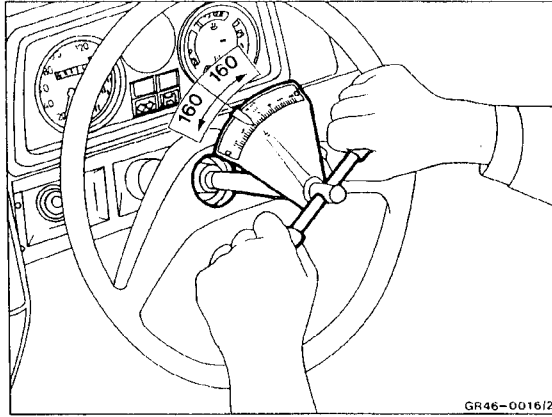


- 2 Release lock nut at pitman shaft, turn adjusting screw of the pitman shaft approx. 1/8 of a turn in counterclockwise direction, tighten lock nut.

- 3 Turn steering several times from lock to lock.



4 Turn steering uniformly and slowly with the torque wrench. In center position a friction coefficient of 110 to 160 Ncm must be attained.



Friction coefficient too low:

Turn adjusting screw of pitman shaft in counter-clockwise direction using a hexagon socket key (1).

Friction coefficient too high:

Turn adjusting screw of pitman shaft in clockwise direction.

5 Hold adjusting screw of pitman shaft in place and tighten lock nut.

6 Attach drag link, tighten to 120 to 140 Nm and lock.

