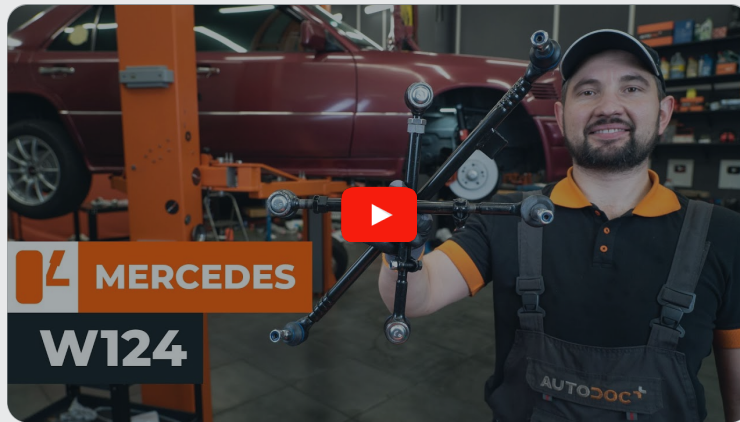




How to change inner tie
rod on **Mercedes W124** –
replacement guide

VIDEO TUTORIAL



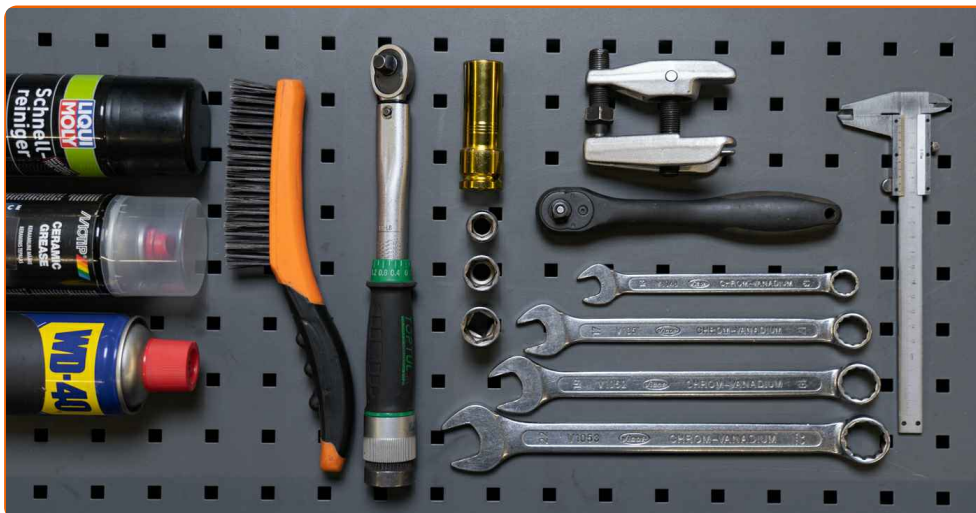
Important!

This replacement procedure can be used for:

MERCEDES-BENZ Saloon (W124) 200 2.0 (124.020), MERCEDES-BENZ Saloon (W124) 200 E 2.0 (124.021), MERCEDES-BENZ Saloon (W124) 230 E 2.3 (124.023), MERCEDES-BENZ Saloon (W124) 260 E 2.6 4-matic (124.226), MERCEDES-BENZ Saloon (W124) 260 E 2.6 (124.026), MERCEDES-BENZ Saloon (W124) 300 E 3.0, MERCEDES-BENZ Saloon (W124) 300 E 3.0 (124.030), MERCEDES-BENZ Saloon (W124) 300 E 3.0 4-matic (124.230), MERCEDES-BENZ Saloon (W124) 300 E 3.0 4-matic, MERCEDES-BENZ Saloon (W124) 200 D 2.0 (124.120), MERCEDES-BENZ Saloon (W124) 250 D 2.5 (124.125), MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129), MERCEDES-BENZ Saloon (W124) 250 2.5 Turbo diesel (124.128), MERCEDES-BENZ Saloon (W124) 300 D 3.0 (124.130), MERCEDES-BENZ Saloon (W124) 300 D 3.0 4-matic (124.330), (+ 66)

The steps may slightly vary depending on the car design.

REPLACEMENT: INNER TIE ROD – MERCEDES W124.
 TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- Combination spanner #13
- Combination spanner #17
- Combination spanner #19
- Combination spanner #22
- Drive socket # 13
- Drive socket # 17
- Drive socket # 19
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Vernier caliper
- Ball joint puller
- Wheel chock

BUY TOOLS

Replacement: inner tie rod – Mercedes W124. AUTODOC experts recommend:

- All work should be done with the engine stopped.

REPLACEMENT: INNER TIE ROD – MERCEDES W124. RECOMMENDED SEQUENCE OF STEPS:

1 Secure the wheels with chocks.

2 Loosen the wheel bolts. Use wheel impact socket #17. Use a tap wrench.



3 Raise the car.



AUTODOC recommends:

- If you are using a jack, make sure it rests on a flat surface without any unevenness.
- Be sure to additionally secure the car with jack stands.

4 Unscrew the wheel bolts.



AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Mercedes W124

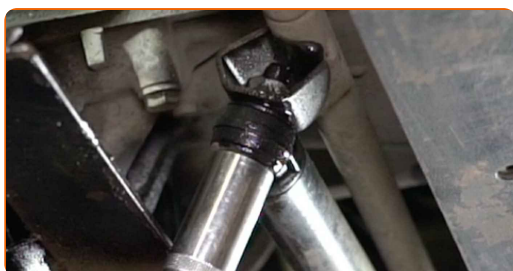
5 Remove the wheels.



6 Clean the steering damper fasteners. Use a wire brush. Use WD-40 spray.



7 Unscrew the steering damper fasteners. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.

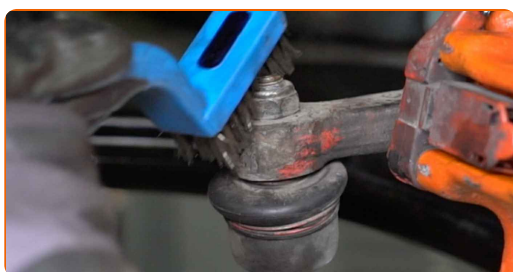


8 Remove the fastening bolts.

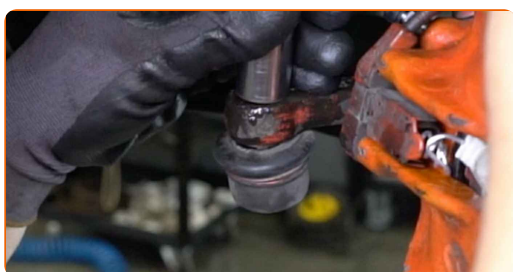
9 Remove the steering damper.



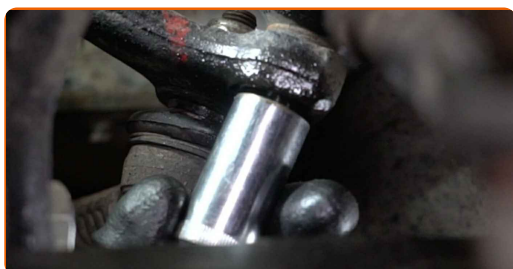
10 Clean the tie rod ends fasteners. Use a wire brush. Use WD-40 spray.



11 Unscrew the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



12 Unscrew the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a ratchet wrench.



13 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



14 Detach the tie rod end from the idler arm. Use a ball joint puller.



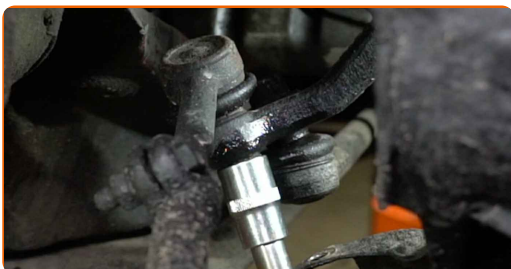
15 Remove the steering tie rod.



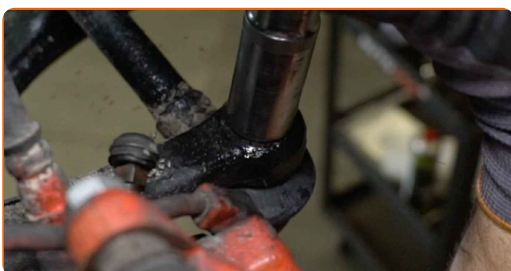
16 Clean the tie rod ends fasteners. Use a wire brush. Use WD-40 spray.



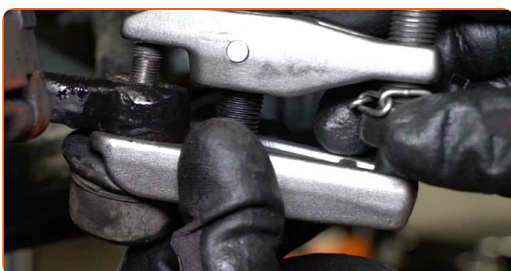
- 17 Unscrew the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a ratchet wrench.



- 18 Unscrew the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a ratchet wrench.

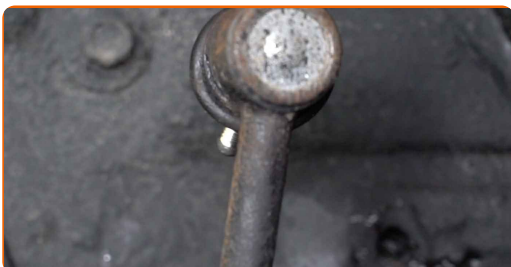


- 19 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.

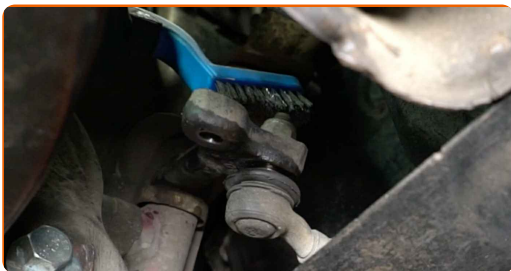


- 20 Detach the tie rod end from the idler arm. Use a ball joint puller.

- 21 Remove the steering tie rod.



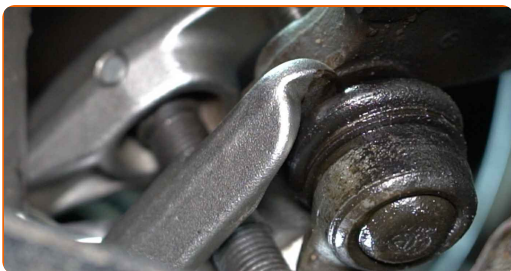
22 Clean the centre drag link ends fasteners. Use a wire brush. Use WD-40 spray.



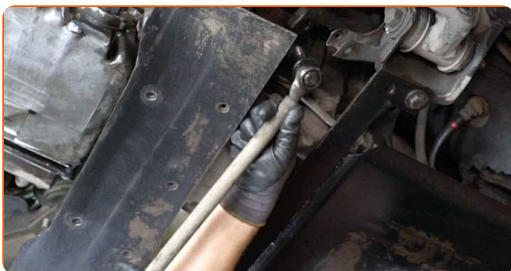
23 Unscrew the centre drag link fasteners from the idler arms. Use a combination spanner #19.



24 Detach the centre drag link ends from the idler arms. Use a ball joint puller.



25 Remove the centre drag link.



26

Clean the mounting seats of the drag link and tie rods. Use a wire brush. Use all-purpose cleaning spray.



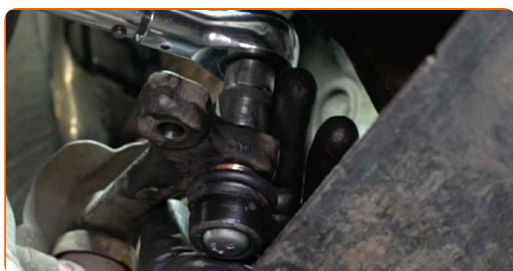
27

Install a new centre drag link.



28

Tighten the fasteners connecting the centre drag link ends to the idler arms. Use a drive socket #19. Use a torque wrench. Tighten it to 35 Nm torque.



29

Adjust the length of new tie rods, using the old ones as reference. Use a combination spanner #13. Use a combination spanner #22 (2 pieces). Use a drive socket #13. Use a ratchet wrench. Use a vernier caliper.



30 Install the new tie rod.



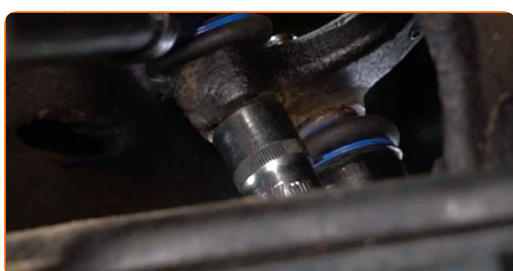
31 Tighten the tie rod end fastening bolt. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



32 Tighten the tie rod end locknut. Use a combination spanner #22. Use a torque wrench. Tighten it to 50 Nm torque.



33 Tighten the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



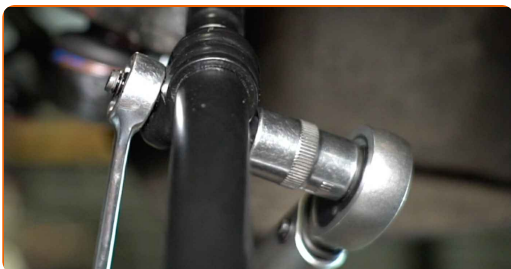
- 34** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



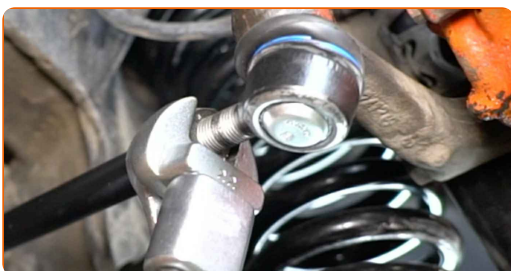
- 35** Install the new tie rod.



- 36** Tighten the tie rod end fastening bolt. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



- 37** Tighten the tie rod end locknut. Use a combination spanner #22. Use a torque wrench. Tighten it to 50 Nm torque.



- 38** Tighten the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



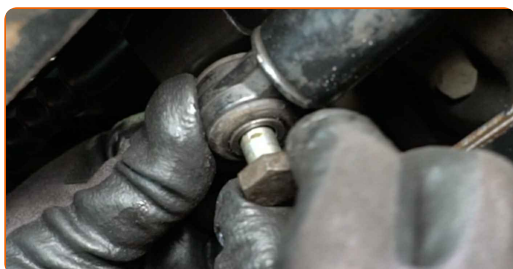
- 39** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



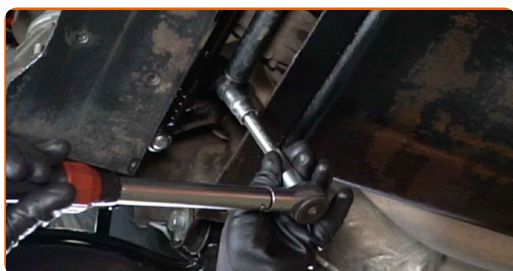
- 40** Install the steering damper.



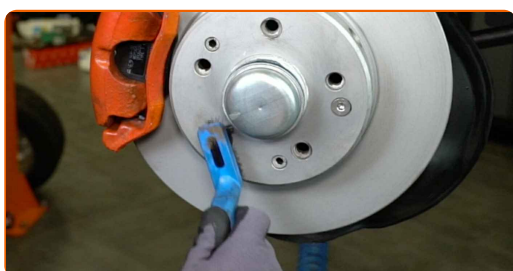
- 41** Install the fastening bolts.



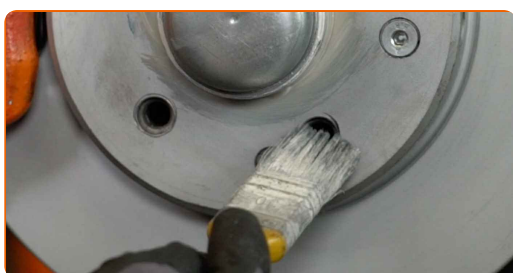
- 42** Tighten the steering damper fasteners. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 40 Nm torque.



- 43** Clean the wheel rims mounting seats. Use a wire brush. Use all-purpose cleaning spray.



- 44** Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



- 45** Install the wheels.



AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

46

Screw in the wheel bolts. Use wheel impact socket #17. Use a ratchet wrench.



47

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 110 Nm torque.



48

Remove the jacks and chocks.



Replacement: inner tie rod – Mercedes W124. Professionals recommend:

- After replacing the component, it is advisable to realign the wheels using a wheel aligner.

WELL DONE! 

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