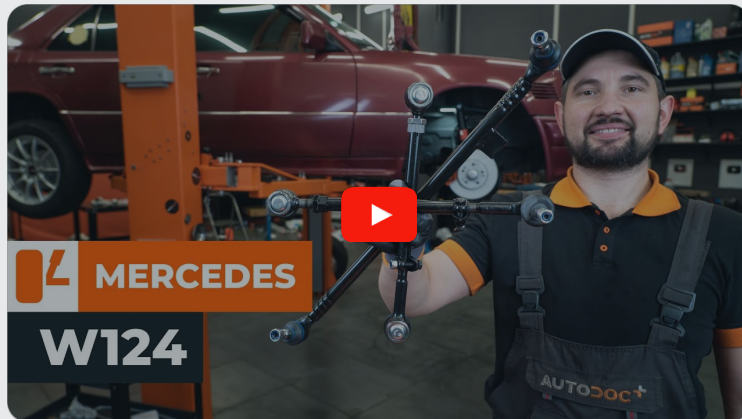




How to change inner tie
rod on **MERCEDES-BENZ**
E-Class T-modell (S124) –
replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:

MERCEDES-BENZ E-Class T-modell (S124) E 300 TD (124.191), MERCEDES-BENZ E-Class T-modell (S124) E 200 T (124.079), MERCEDES-BENZ E-Class T-modell (S124) E 220 T (124.082), MERCEDES-BENZ E-Class T-modell (S124) E 280 T (124.088), MERCEDES-BENZ E-Class T-modell (S124) E 320 T (124.092), MERCEDES-BENZ E-Class T-modell (S124) E 250 TD (124.186), MERCEDES-BENZ E-Class T-modell (S124) E 36 T AMG (124.092), MERCEDES-BENZ E-Class T-modell (S124) E 250 Turbo D

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ E-Class Saloon (W124) E 250 D (124.126, 124.129)

REPLACEMENT: INNER TIE ROD – MERCEDES-BENZ E-CLASS T-MODELL (S124). 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-BENZ E-Class T-modell (S124).
AUTODOC experts recommend:

- All work should be done with the engine stopped.

REPLACEMENT: INNER TIE ROD – MERCEDES-BENZ E-CLASS T-MODELL (S124). 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-BENZ E-Class T-modell (S124)

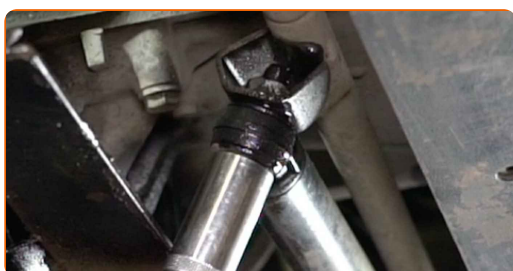
5 Remove the wheels.



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

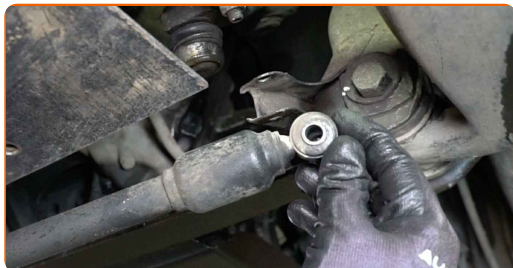


7 Unscrew the steering damper fasteners. Use a combination spanner #17. Use a drive socket #17. Use a ratchet wrench.

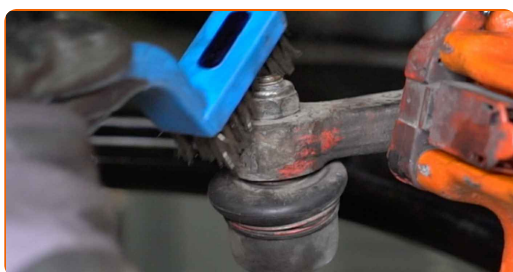


8 Remove the fastening bolts.

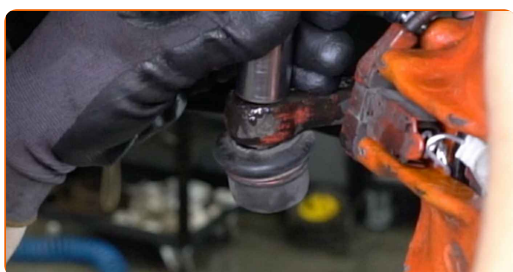
9 Remove the steering damper.



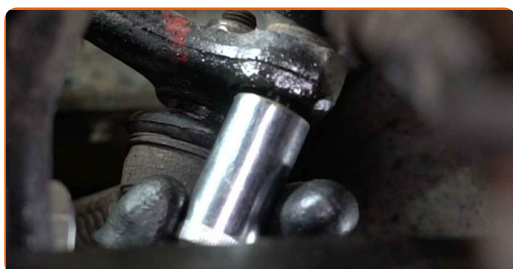
10 Clean the tie rod ends fasteners. Use a wire brush. Use WD-40 spray.



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



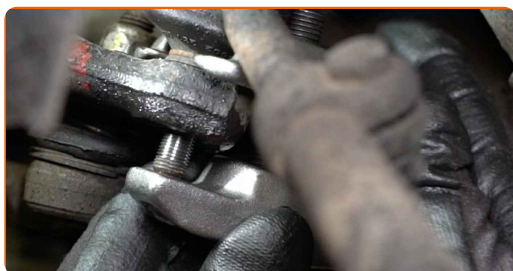
12 Unscrew the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a ratchet wrench.



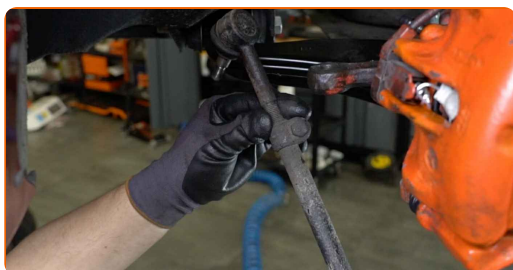
13 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.



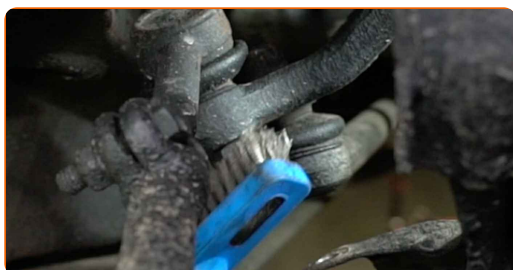
14 Detach the tie rod end from the idler arm. Use a ball joint puller.



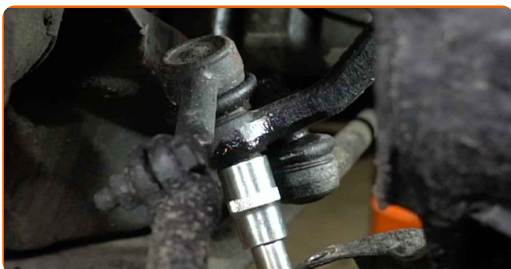
15 Remove the steering tie rod.



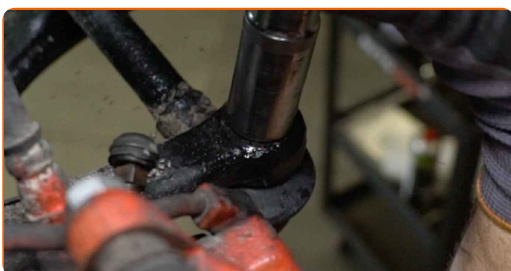
16 Clean the tie rod ends fasteners. Use a wire brush. Use WD-40 spray.



- 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.

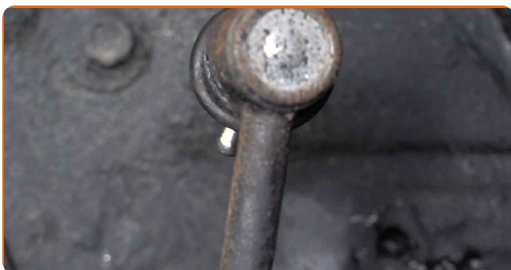


- 19 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.

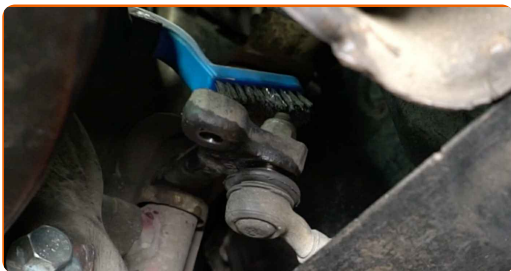


- 20 Detach the tie rod end from the idler arm. Use a ball joint puller.

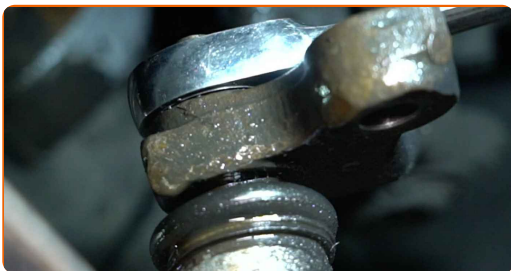
- 21 Remove the steering tie rod.



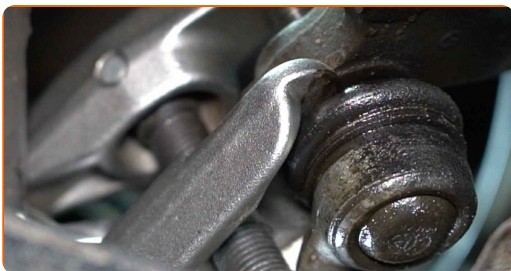
22 Clean the centre drag link ends fasteners. Use a wire brush. Use WD-40 spray.



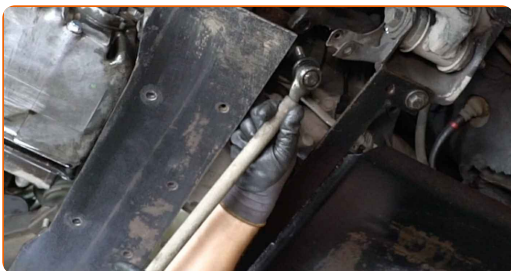
23 Unscrew the centre drag link fasteners from the idler arms. Use a combination spanner #19.



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



25 Remove the centre drag link.



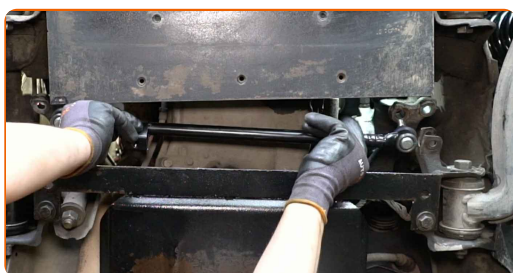
26

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



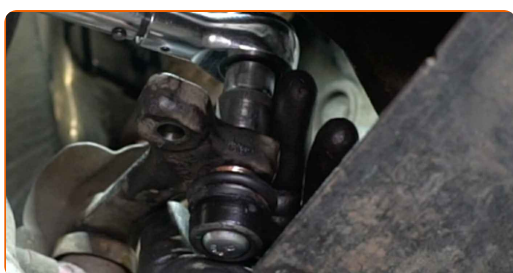
27

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.

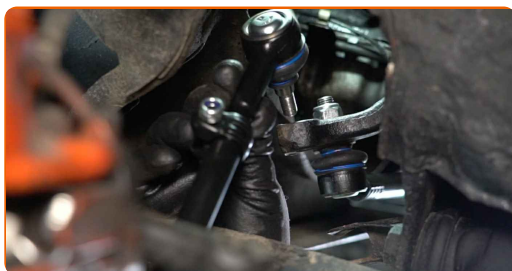


29

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.



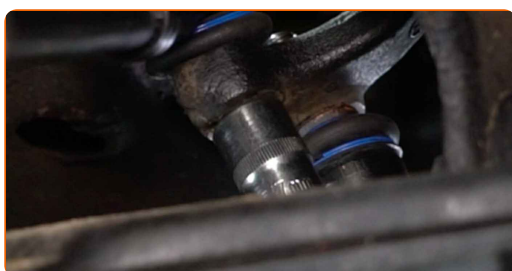
31 Tighten the tie rod end fastening bolt. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



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



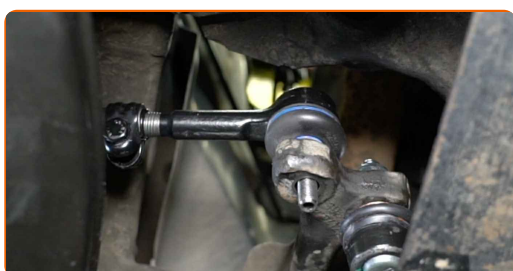
33 Tighten the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



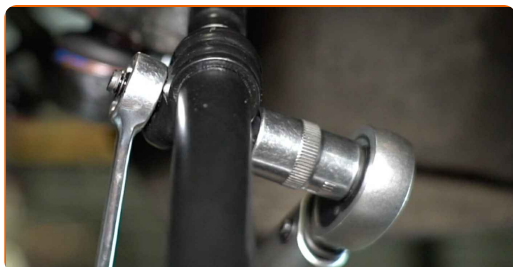
- 34** Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



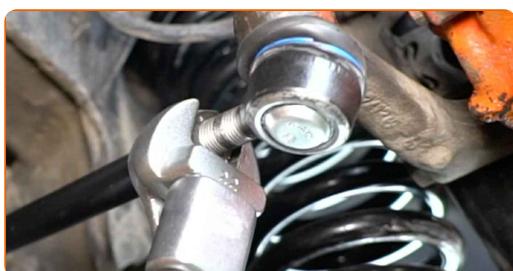
- 35** Install the new tie rod.



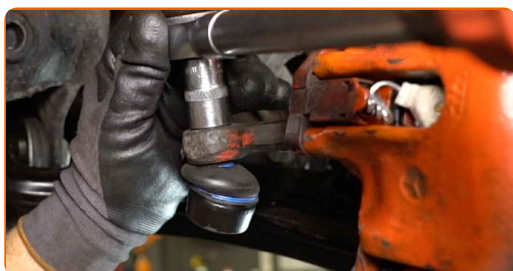
- 36** Tighten the tie rod end fastening bolt. Use a combination spanner #13. Use a drive socket #13. Use a torque wrench. Tighten it to 20 Nm torque.



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



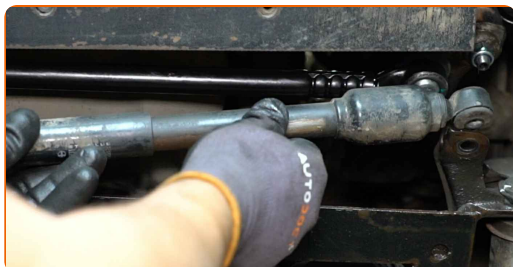
- 38 Tighten the fastener connecting the tie rod end to the idler arm. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



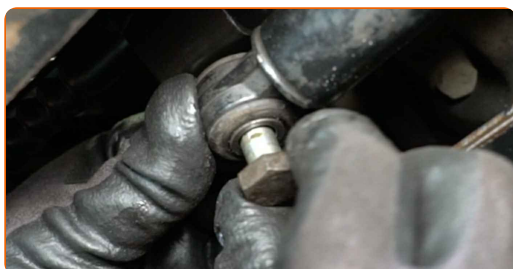
- 39 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #17. Use a torque wrench. Tighten it to 35 Nm torque.



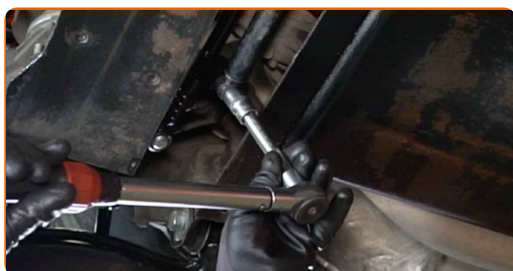
- 40 Install the steering damper.



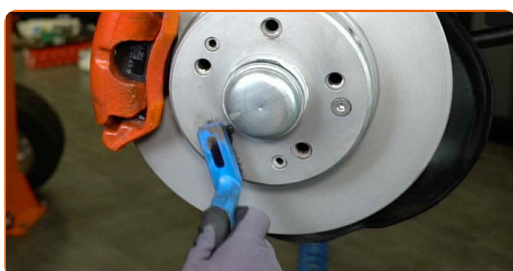
- 41 Install the fastening bolts.



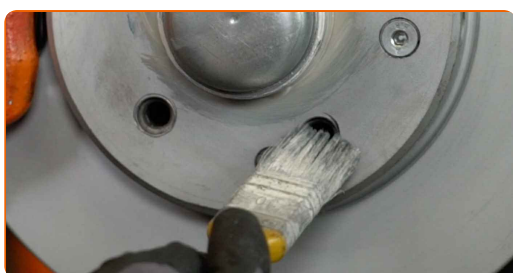
- 42** Tighten the steering damper fasteners. Use a combination spanner #17. Use a drive socket #17. Use a torque wrench. Tighten it to 40 Nm torque.



- 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-BENZ E-Class T-modell (S124).
Professionals recommend:

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

WELL DONE! 

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