



How to change front
brake caliper repair kit on
MERCEDES-BENZ W124
Estate (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 W124 Estate (S124) 200 2.0 (124.080), MERCEDES-BENZ W124 Estate (S124) 200 TE 2.0 (124.081), MERCEDES-BENZ W124 Estate (S124) 200 TE 2.0, MERCEDES-BENZ W124 Estate (S124) 230 TE 2.3 KAT (124.083), MERCEDES-BENZ W124 Estate (S124) 230 TE 2.3 (124.083), MERCEDES-BENZ W124 Estate (S124) 300 TE 3.0 4-matic (124.290), MERCEDES-BENZ W124 Estate (S124) 300 TE 3.0 (124.090), MERCEDES-BENZ W124 Estate (S124) 200 D 2.0 (124.180), MERCEDES-BENZ W124 Estate (S124) 250 D 2.5 (124.185), MERCEDES-BENZ W124 Estate (S124) 300 D 3.0 (124.190), MERCEDES-BENZ W124 Estate (S124) 300 Turbo diesel 3.0 4-matic (124.393), MERCEDES-BENZ W124 Estate (S124) 260 TE 2.6 FGST., MERCEDES-BENZ W124 Estate (S124) 260 TE FGST. 2.6, MERCEDES-BENZ W124 Estate (S124) 220 TE 2.2 (124.082), MERCEDES-BENZ W124 Estate (S124) 300 3.0 Turbo diesel (124.193), (+ 4)

The steps may slightly vary depending on the car design.

Please note that this tutorial was created based on the replacement procedure for this car part on a car with a similar 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: BRAKE CALIPER REPAIR KIT –
MERCEDES-BENZ W124 ESTATE (S124). TOOLS YOU'LL
NEED:**



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- All-purpose cleaning spray
- Dielectric grease
- Brake cleaner
- Ceramic grease
- Brake caliper guide pins grease
- Torque wrench
- Combination spanner #9
- Combination spanner #10
- Combination spanner #14
- Combination spanner #15
- Combination spanner #19
- Drive socket # 9
- Drive socket # 13
- Drive socket # 19
- Wheel impact socket #17
- Ratchet wrench
- Tap wrench
- Brake hose clip
- Brake bleeder kit
- Brake caliper wind back tool
- Crow bar
- Flat screwdriver
- Wheel chock

Buy tools

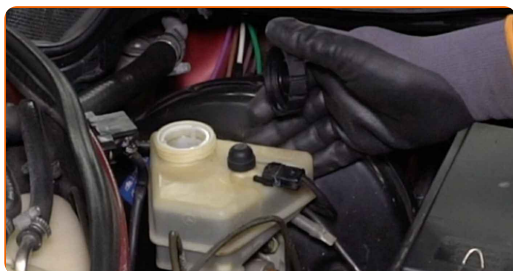
Replacement: brake caliper repair kit – MERCEDES-BENZ W124 Estate (S124).
 AUTODOC recommends:

- The replacement procedure is identical for the left and right brake calipers on the same axle.
- Please note: all work on the car – MERCEDES-BENZ W124 Estate (S124) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet.

2 Unscrew the brake fluid reservoir cap.



3 Secure the wheels with chocks.

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



5 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.

6

Unscrew the wheel bolts.



Replacement: brake caliper repair kit – MERCEDES-BENZ W124 Estate (S124).

Tip:

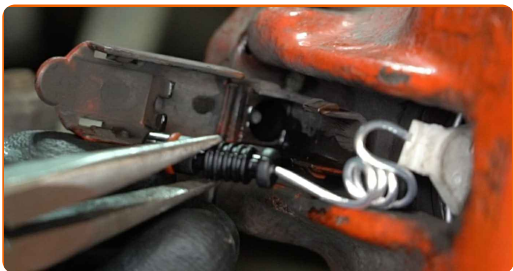
- To avoid injury, hold up the wheel when unscrewing the bolts.

7

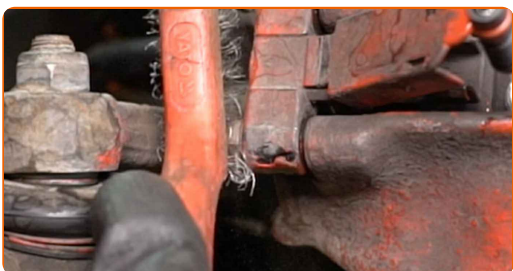
Remove the wheel.



8 Detach the connector of the brake pad wear sensor.



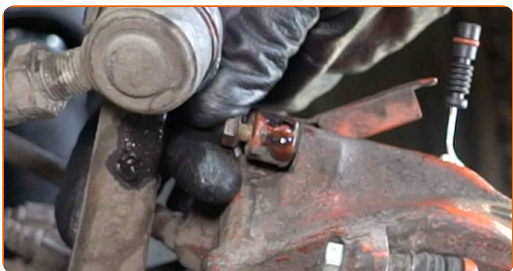
9 Clean the fastener of the brake pad wear sensor connector. Use a wire brush. Use WD-40 spray.



10 Unscrew the fastener of the brake pad wear sensor connector. Use a combination spanner #10.



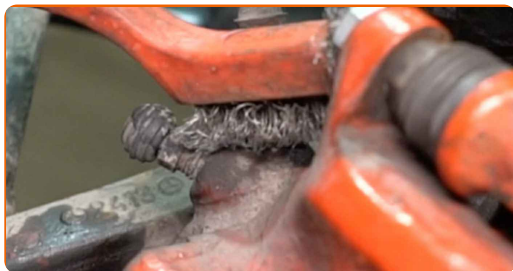
11 Remove the fastening bolt.



12 Detach the connector of the brake pad wear sensor.



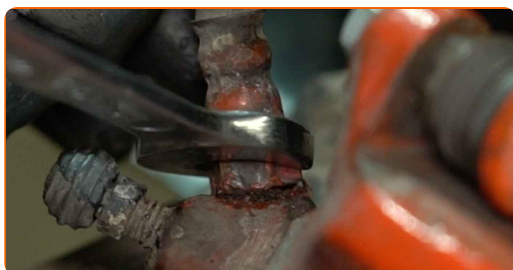
13 Clean the mounting seat of the brake hose on the brake caliper. Use a wire brush. Use WD-40 spray.



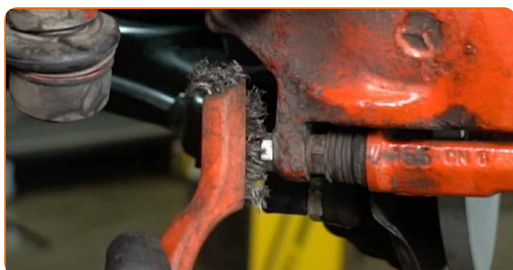
14 Clamp the brake hose off using a brake hose clamp.



15 Loosen the brake hose fastener. Use a combination spanner #14.



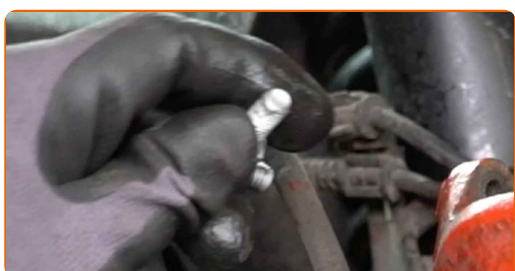
16 Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



- 17 Unscrew the brake caliper fasteners. Use a combination spanner #15. Use a drive socket #13. Use a ratchet wrench.

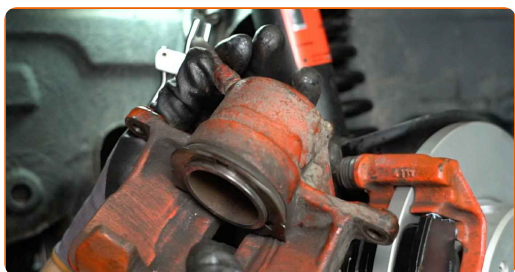


- 18 Remove the fastening bolts.

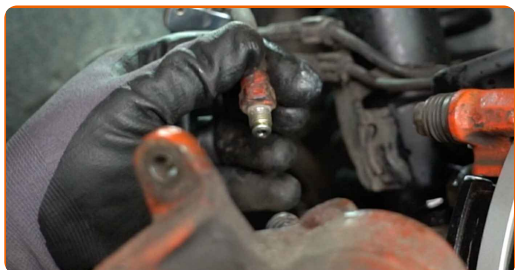


- 19 Spread the brake pads. Use a crowbar.

- 20 Remove the brake caliper.



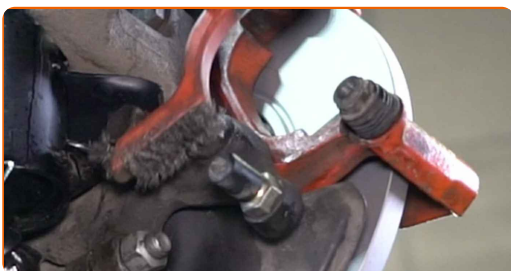
- 21 Unscrew the brake hose from the brake caliper.



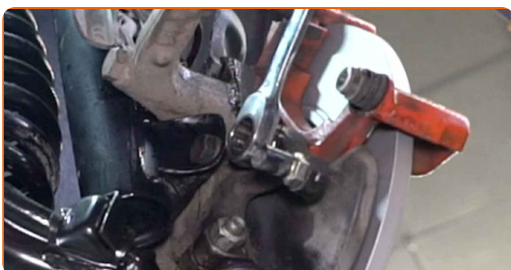
22 Remove the brake pads.



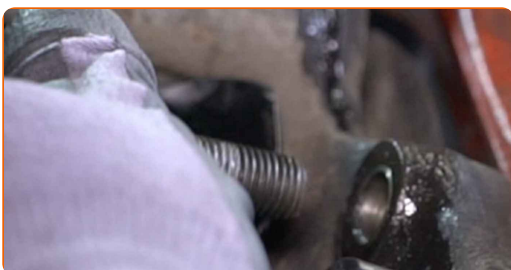
23 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



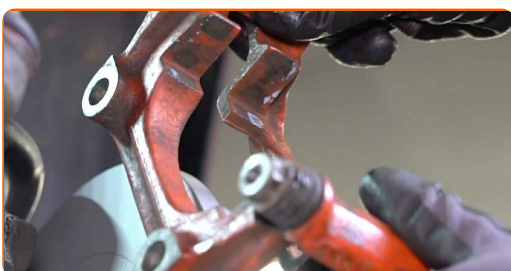
24 Unscrew the brake caliper bracket fasteners. Use a combination spanner #19.



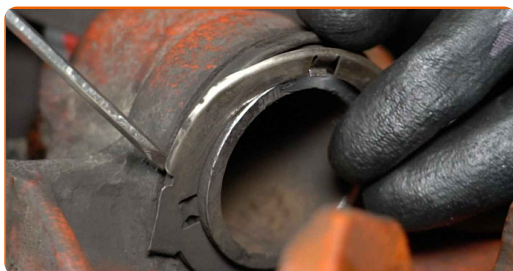
25 Remove the fastening bolts.



26 Remove the brake caliper bracket.



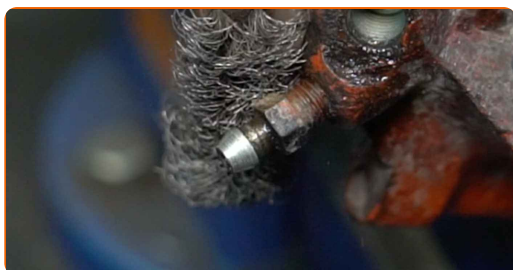
27 Remove the protective plate covering the dust boot of the caliper piston. Use a flat screwdriver.



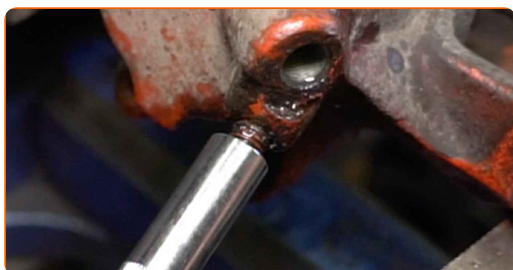
28 Remove the piston from the brake caliper housing.



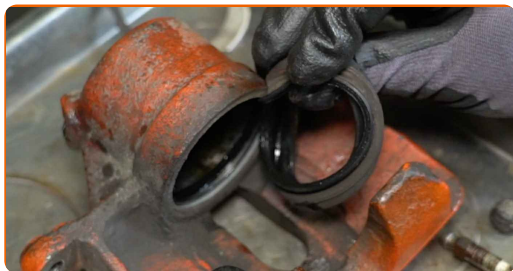
29 Clean the brake bleeder screw. Use a wire brush. Use WD-40 spray.



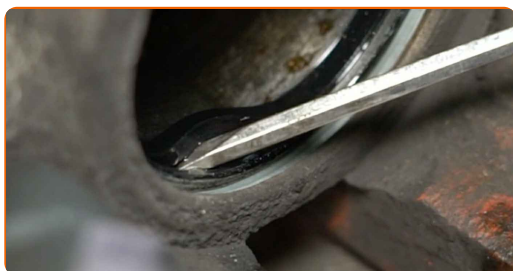
30 Undo the brake bleeder screw. Use a drive socket #9. Use a ratchet wrench.



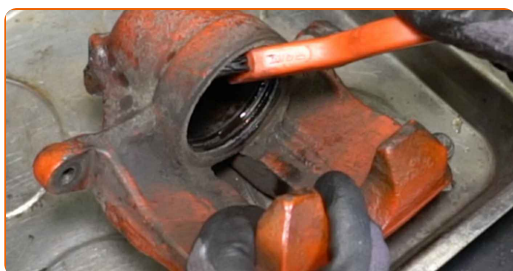
31 Remove the dust boot of the brake caliper piston.



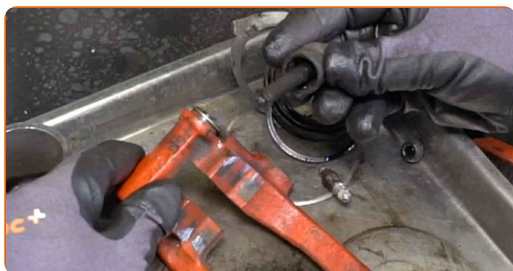
32 Remove the caliper piston O-ring. Use a flat screwdriver.



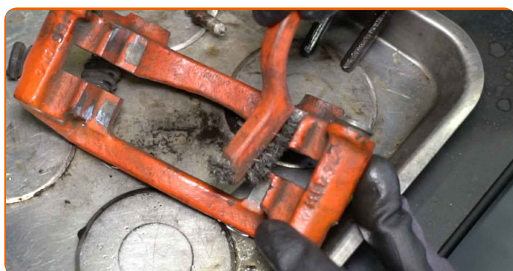
33 Clean the mounting seats of the piston and related components. Use a wire brush. Use a nylon cleaning brush. Use all-purpose cleaning spray.



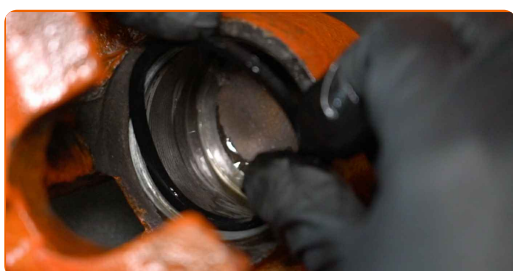
34 Remove the brake caliper guide pins.



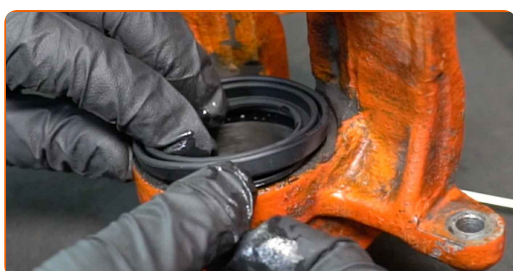
- 35** Clean the guide pins and their seats on the brake caliper bracket. Use a wire brush. Use a nylon cleaning brush. Use all-purpose cleaning spray.



- 36** Install a new caliper piston O-ring.



- 37** Install a new caliper piston dust boot.



Replacement: brake caliper repair kit – MERCEDES-BENZ W124 Estate (S124).
AUTODOC experts recommend:

- Treat the piston and its mounting seat with brake fluid to prevent scoring on the cylinder walls during installation.

38 Install a new caliper piston.



39 Install the protective plate of the caliper piston dust boot.



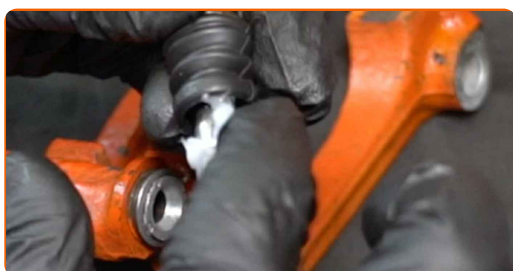
40 Press in the brake caliper piston. Use brake caliper wind back tool.



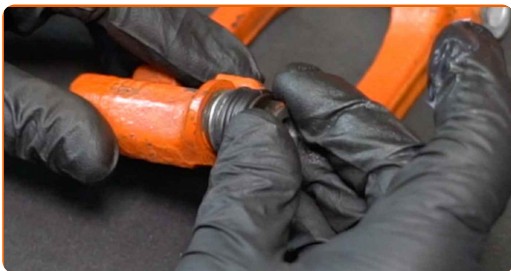
41 Install the new boots of the brake caliper guide pins.



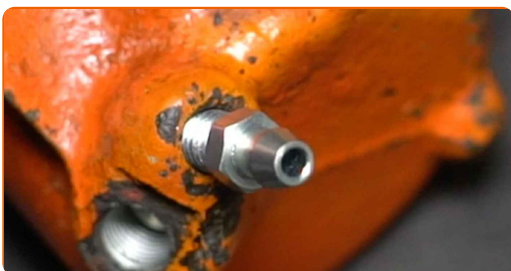
42 Treat the brake caliper guide pins. Use the brake caliper guide pin grease.



43 Install the brake caliper guide pins.



44 Tighten the brake bleeder screw.



45 Clean the area where the brake hose connects to the caliper. Use a wire brush. Use all-purpose cleaning spray.



46 Install the brake caliper bracket.



47 Install the fastening bolts.

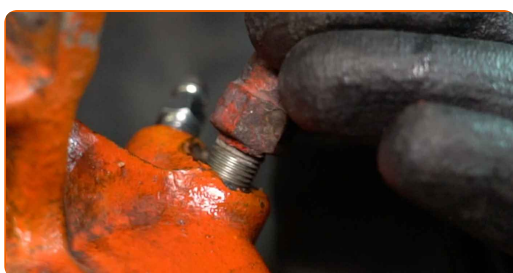
- 48 Tighten the brake caliper bracket fasteners. Use a drive socket #19. Use a torque wrench. Tighten it to 115 Nm torque.



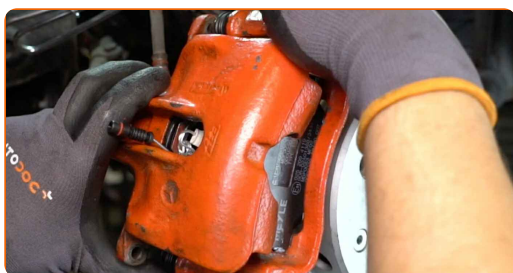
- 49 Install the brake pads.



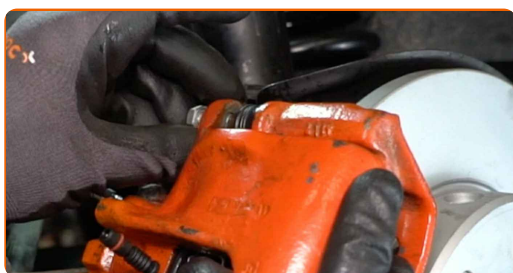
- 50 Screw the brake hose into the caliper.



- 51 Install the brake caliper and fasten it.



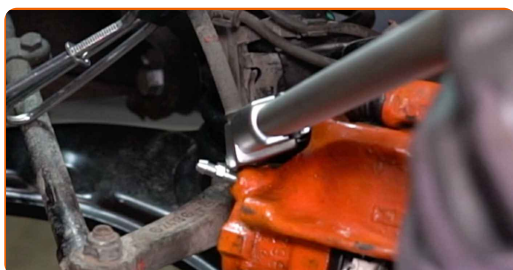
- 52 Install the fastening bolts.



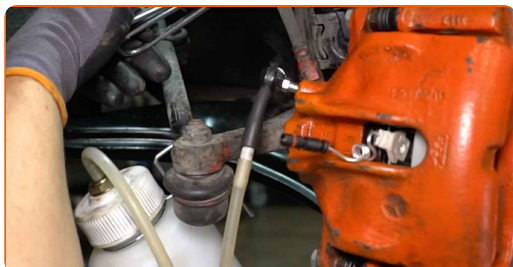
- 53** Tighten the brake caliper fasteners. Use a drive socket #13. Use a combination spanner #15. Use a torque wrench. Tighten it to 35 Nm torque.



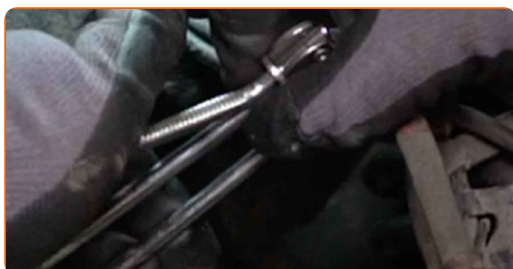
- 54** Tighten the fastener connecting the brake pipe to the brake caliper. Use a combination spanner #14. Use a torque wrench. Tighten it to 18 Nm torque.



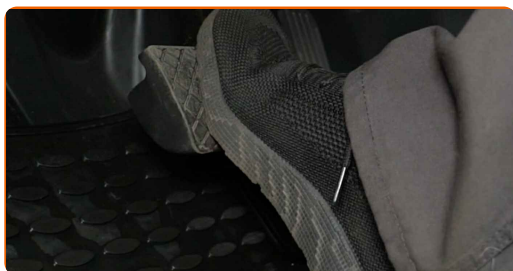
- 55** Connect the brake bleeder kit to the brake bleeder screw.



- 56** Remove the brake hose clamp.



57 Bleed the brake system.

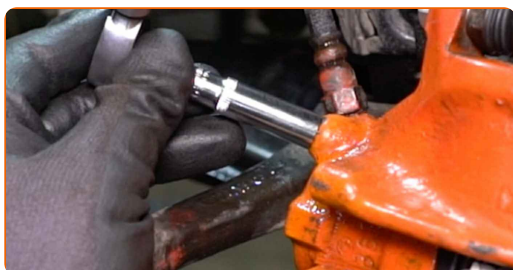


58 Tighten the bleeder screw. Use a combination spanner #9.

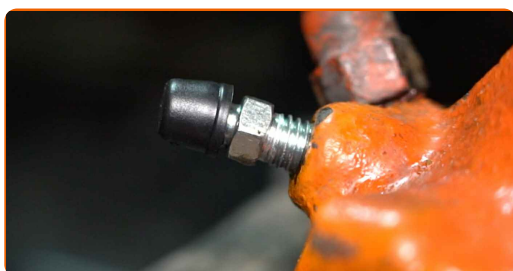


59 Disconnect the brake bleeder kit.

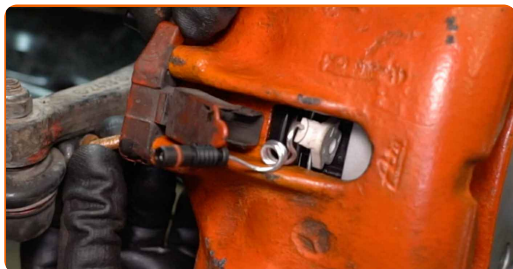
60 Tighten the brake caliper bleed screw. Use a drive socket #9. Use a torque wrench. Tighten it to 8 Nm torque.



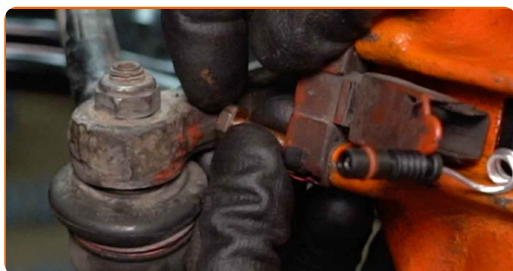
61 Attach the brake caliper bleed screw cap.



62 Install the brake pad wear sensor connector.



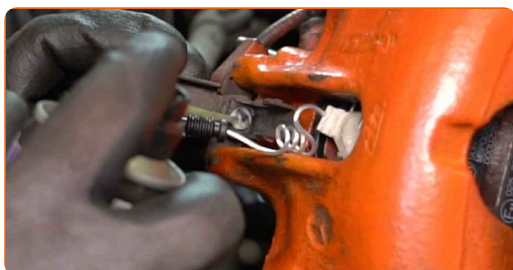
63 Install the fastening bolt.



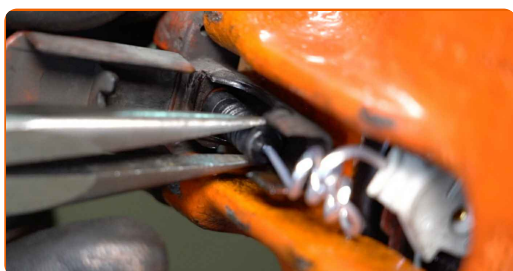
64 Screw in the fastener of the brake pad wear sensor connector. Use a combination spanner #10.



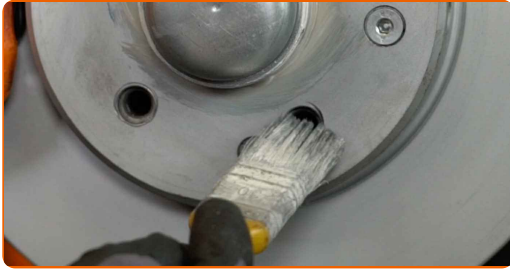
65 Treat the brake pad wear sensor plug. Use dielectric grease.



66 Attach the connector of the brake pad wear sensor.



67 Treat the surface where the brake disc contacts the wheel rim. Use ceramic grease.



68 Clean the brake disk surface. Use a brake cleaner.

69 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. MERCEDES-BENZ W124 Estate (S124)

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



- 71** 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.



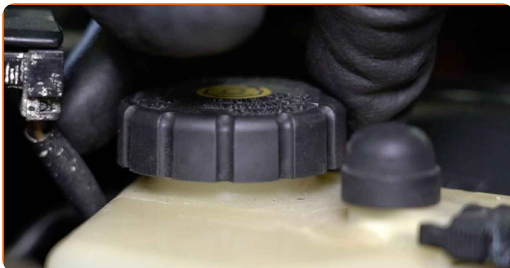
- 72** Remove the jacks and chocks.



Replacement: brake caliper repair kit – MERCEDES-BENZ W124 Estate (S124).
AUTODOC recommends:

- Check the brake fluid level in the expansion tank and top up if necessary.

- 73** Tighten the brake fluid reservoir cap.



74

Close the bonnet.

WELL DONE! 

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BRAKE CALIPER REPAIR KIT: A WIDE SELECTION

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