



How to change  
handbrake shoe on  
**MERCEDES-BENZ**  
**VANEO (414)** –  
replacement guide

## SIMILAR VIDEO TUTORIAL



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

### Important!

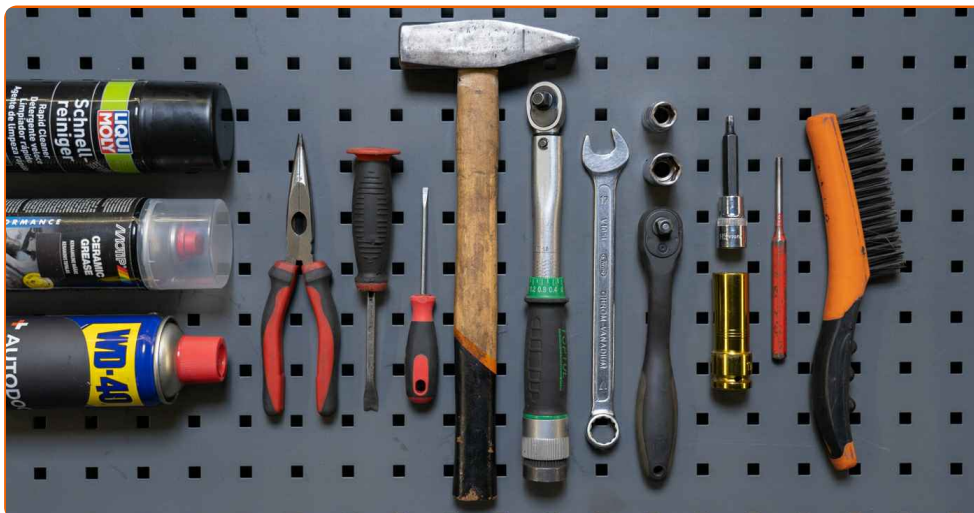
This replacement procedure can be used for:

MERCEDES-BENZ Vaneo (414) 1.7 CDI (414.700), MERCEDES-BENZ Vaneo (414) 1.6 (414.700), MERCEDES-BENZ Vaneo (414) 1.9 (414.700)

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 190 (W201) 2.0 (201.023)

**REPLACEMENT: HANDBRAKE SHOE – MERCEDES-BENZ VANEO (414). TOOLS YOU NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- Combination spanner #17
- Drive socket # 13
- Drive socket # 17
- HEX bit No.H5
- Wheel impact socket #17
- Ratchet wrench
- Flat Screwdriver
- Pin punch
- Hammer
- Tap wrench
- Long nose pliers
- Crow bar
- Wheel chock

**Buy tools**

Replacement: handbrake shoe – MERCEDES-BENZ Vaneo (414).  
Professionals recommend:

- All work should be done with the engine stopped.

## REPLACEMENT: HANDBRAKE SHOE – MERCEDES-BENZ Vaneo (414). TAKE THE FOLLOWING STEPS:

- 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.

Replacement: handbrake shoe – MERCEDES-BENZ Vaneo (414). 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.

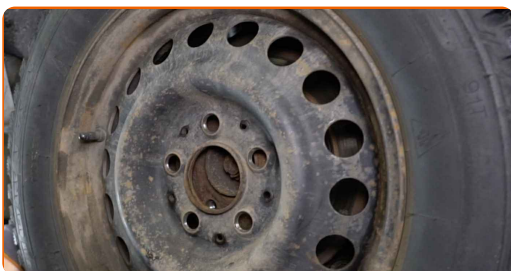
**6** Unscrew the wheel bolts.



**AUTODOC recommends:**

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

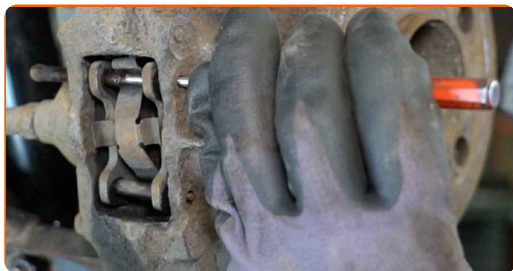
**7** Remove the wheel.



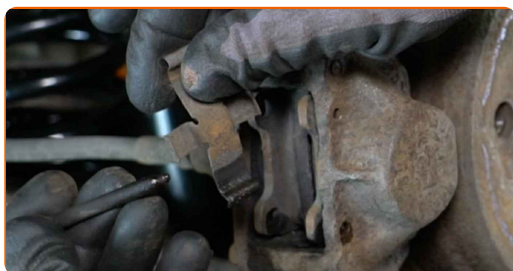
**8** Clean the brake pad guide pins. Use a wire brush. Use all-purpose cleaning spray.



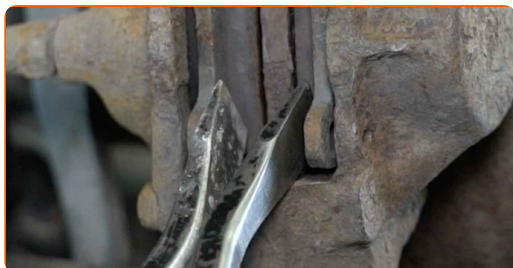
**9** Remove the brake pad guide pins. Use a pin punch. Use a hammer.



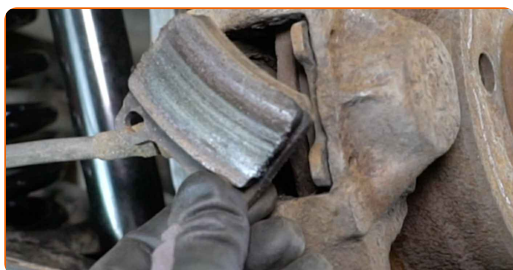
**10** Remove the retaining spring of the brake pads.



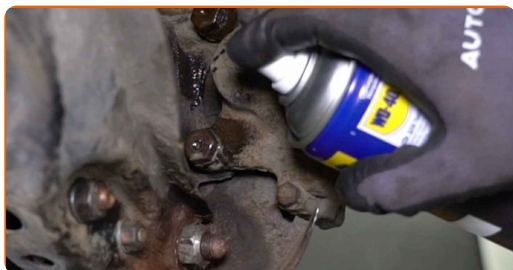
**11** Spread the brake pads. Use a crowbar (2 pieces).



**12** Remove the brake pads.

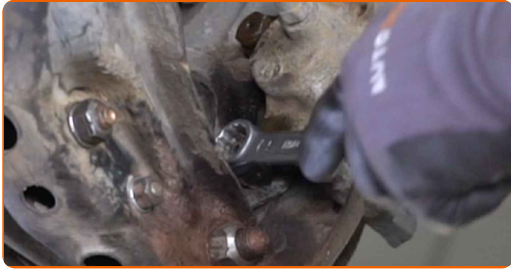


**13** Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



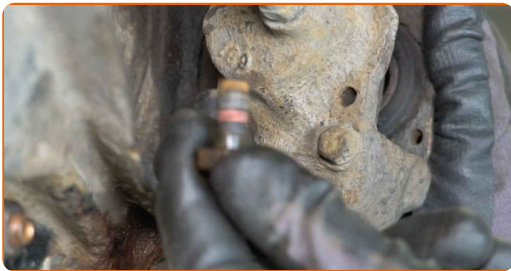
**14**

Unscrew the brake caliper fasteners. Use a combination spanner #17.



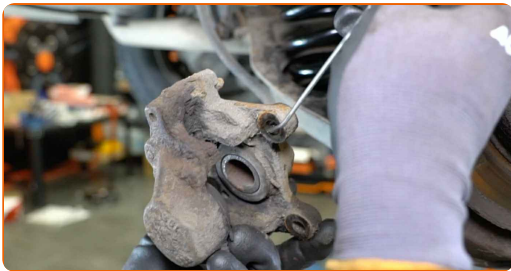
**15**

Remove the fastening bolts.



**16**

Remove the brake caliper.



**Replacement: handbrake shoe – MERCEDES-BENZ Vaneo (414). AUTODOC experts recommend:**

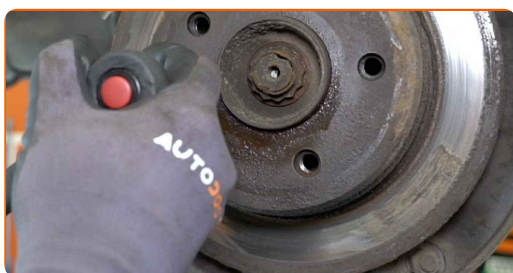
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.



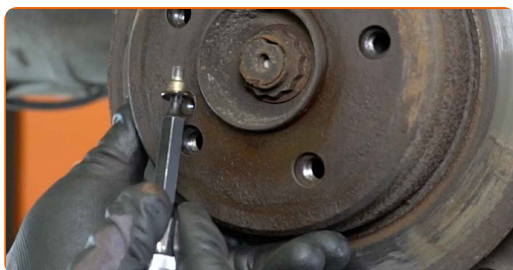
**17** Clean the brake disc fastener. Use a wire brush. Use WD-40 spray.



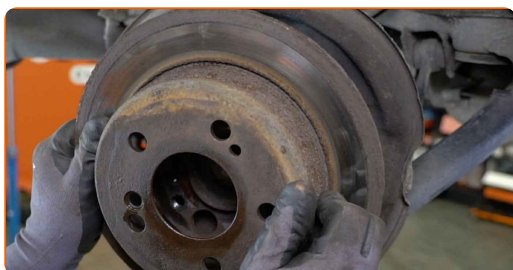
**18** Unscrew the brake disc fasteners. Use HEX No.H5. Use a ratchet wrench.



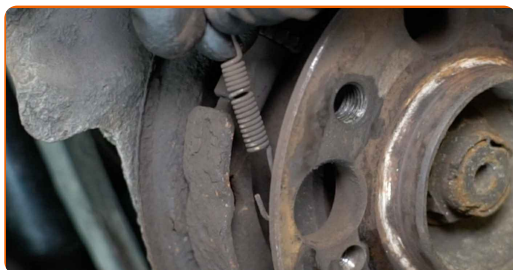
**19** Remove the fastening bolt.



**20** Remove the brake disc.

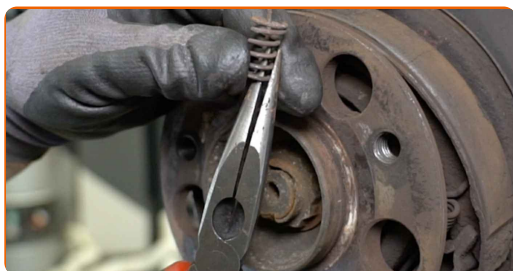


**21** Remove the upper brake shoe return spring. Use a crowbar.

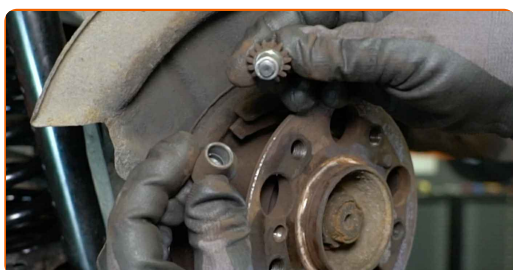




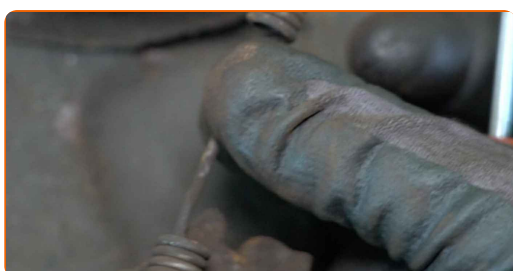
**22** Remove the hold-down springs of the parking brake shoes. Use long nose pliers.



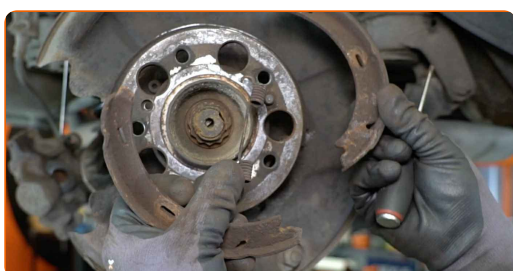
**23** Remove the parking brake adjuster.



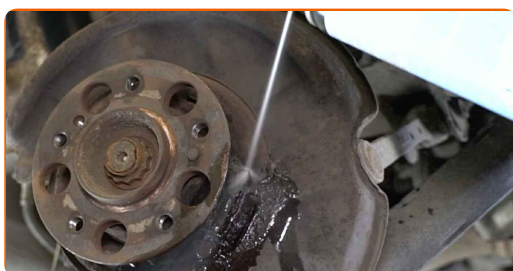
**24** Remove the lower brake shoe return spring. Use a flat screwdriver.



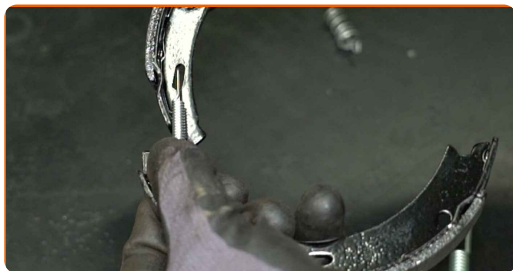
**25** Remove the parking brake shoes.



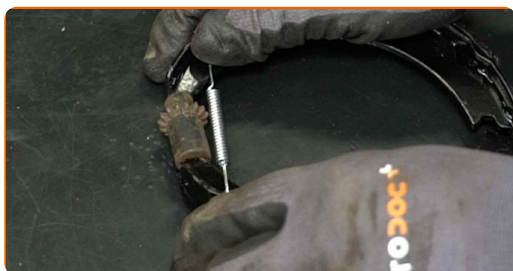
**26** Clean the mounting seats of the parking brake shoes. Use a wire brush. Use all-purpose cleaning spray.



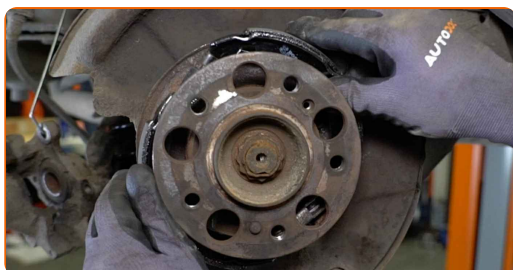
**27** Install the upper brake shoe return spring.



**28** Install the parking brake adjuster.



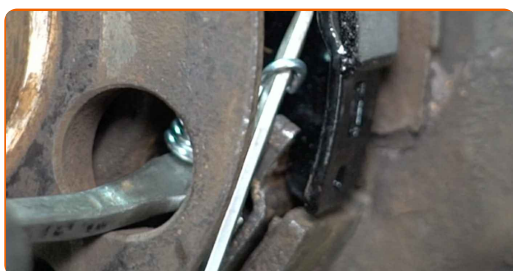
**29** Install new parking brake shoes.



**30** Install the hold-down springs of the parking brake shoes. Use long nose pliers.



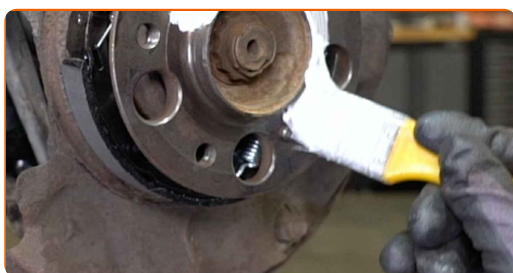
**31** Install the lower return spring. Use a flat screwdriver.



**32** Clean the wheel hub. Use a wire brush.



**33** Treat the contacting surface. Use ceramic grease.



**34** Install the brake disc.



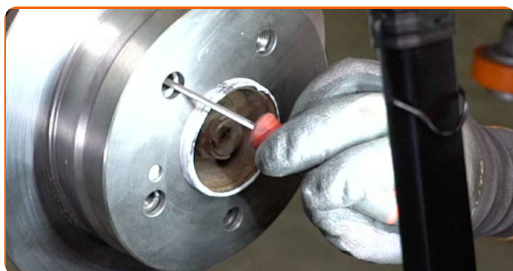
**35** Install the fastening bolt.



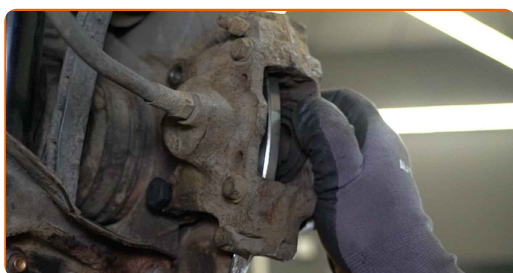
**36** Tighten the brake disc fasteners. Use HEX No.H5. Use a torque wrench. Tighten it to 10 Nm torque.



**37** Set the parking brake adjuster in the correct position. Use a flat screwdriver.

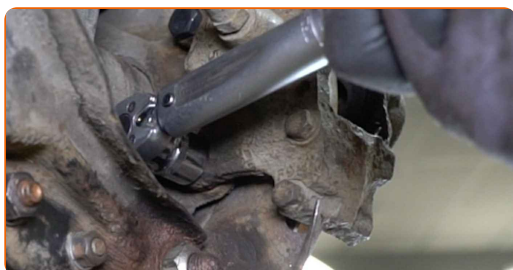


**38** Install the brake caliper and fasten it.

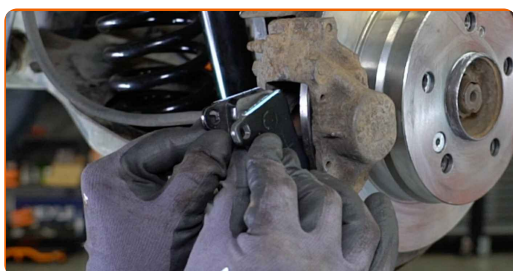


**39** Install the fastening bolts.

**40** Tighten the brake caliper fasteners. Use a drive socket #17. Use a torque wrench. Tighten it to 65 Nm torque.



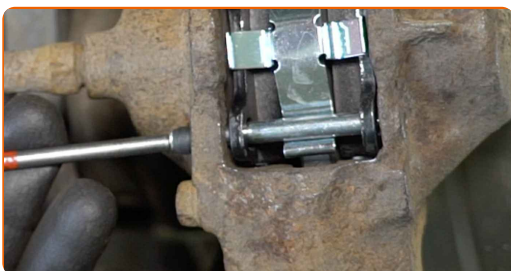
**41** Install the brake pads.



**42** Install the retaining spring of the brake pads.



**43** Install the brake pad guide pins. Use a pin punch. Use a hammer.



**44** Clean the wheel rim mounting seat. Use a wire brush.



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

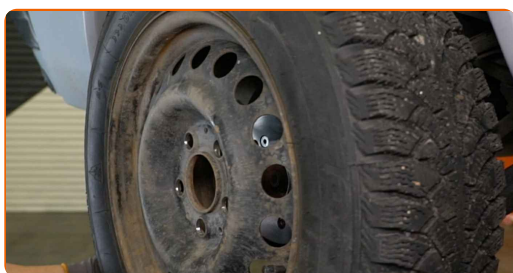




**46** Clean the brake disk surface. Use a brake cleaner.



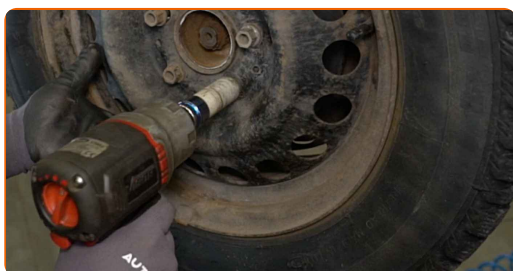
**47** Install the wheel.



**AUTODOC recommends:**

- Important! Hold the wheel while screwing in the fastening bolts. MERCEDES-BENZ Vaneo (414)

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



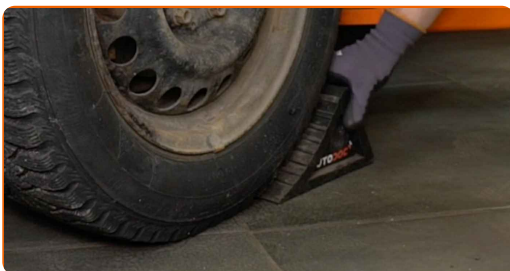
**49**

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.



**50**

Remove the jacks and chocks.



**Replacement: handbrake shoe – MERCEDES-BENZ Vaneo (414). Tip from AUTODOC:**

- Without starting the engine, press the brake pedal several times until you feel significant resistance.
- Check the brake fluid level in the expansion tank and top up if necessary.

**51**

Tighten the brake fluid reservoir cap.

**52**

Close the bonnet.

**WELL DONE!** 

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