



How to change rear  
brake discs on **VW**  
**California T6 Minibus**  
**(SGC, SGG, SHC)** –  
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:

VW California T6 Minibus (SGC, SGG, SHC) 2.0 TDI, VW California T6 Minibus (SGC, SGG, SHC) 2.0 TDI 4motion, VW California T6 Minibus (SGC, SGG, SHC) 2.0 TSI, VW California T6 Minibus (SGC, SGG, SHC) 2.0 TSI 4motion

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: VW Multivan V (7HM, 7HN, 7HF, 7EF, 7EM, 7EN) 1.9 TDI

REPLACEMENT: BRAKE DISCS – VW CALIFORNIA T6  
MINIBUS (SGC, SGG, SHC). TOOLS YOU MIGHT NEED:



- Wire brush
- Nylon cleaning brush
- WD-40 spray
- Brake cleaner
- Brake caliper guide pins grease
- Sealant
- Ceramic grease
- Copper grease
- Torque wrench
- Drive socket # 12
- Drive socket # 21
- Torx bit M10
- Wheel impact socket #19
- Ratchet wrench
- Tap wrench
- Brake caliper wind back tool
- Crow bar
- Wheel chock

**Buy tools**

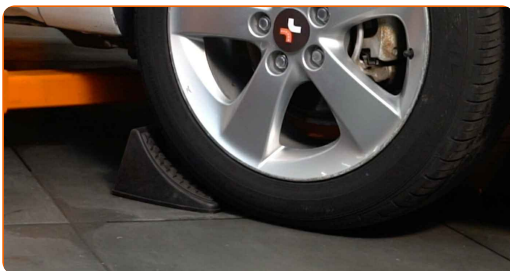
**Replacement: brake discs – VW California T6 Minibus (SGC, SGG, SHC).  
AUTODOC experts recommend:**

- Replace the brake disks on the car VW California T6 Minibus (SGC, SGG, SHC) in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – VW California T6 Minibus (SGC, SGG, SHC) – should be done with the engine switched off.

**CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:**

**1** Open the bonnet. Unscrew the brake fluid reservoir cap.

**2** Secure the wheels with chocks.



**3** Loosen the wheel mounting bolts. Use wheel impact socket #19.



**4** Raise the rear of the car and secure on supports.

**5** Unscrew the wheel bolts.



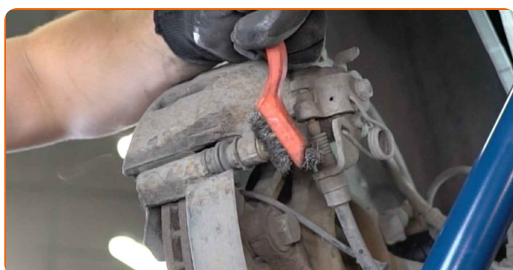
**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW California T6 Minibus (SGC, SGG, SHC)

**6** Remove the wheel.

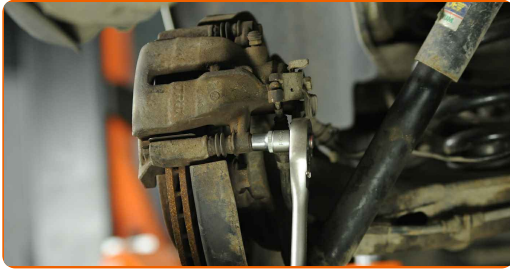


**7** Clean the brake caliper fasteners. Use a wire brush. Use WD-40 spray.



8

Unscrew the brake caliper fasteners. Use a drive socket #12. Use a ratchet wrench.



9

Spread the brake pads. Use a crowbar.



10

Remove the brake caliper. Use a crowbar.



Replacement: brake discs – VW California T6 Minibus (SGC, SGG, SHC). Tip from AUTODOC experts:

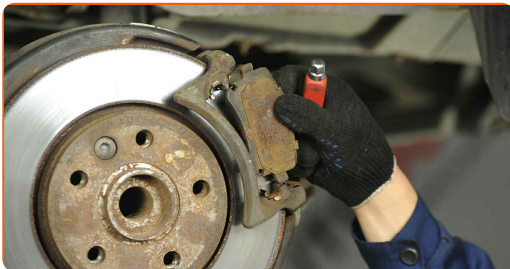
- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result,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

11

Detach the connector of the brake pad wear sensor. Use a crowbar.

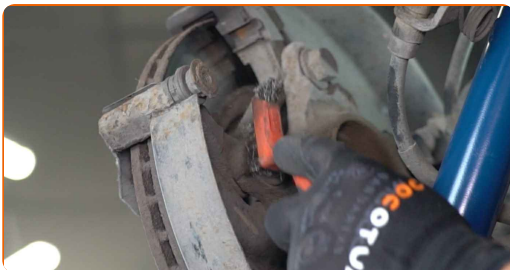
12

Remove the brake pads. Use a crowbar.

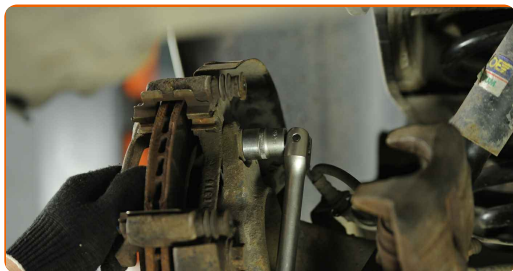


13

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

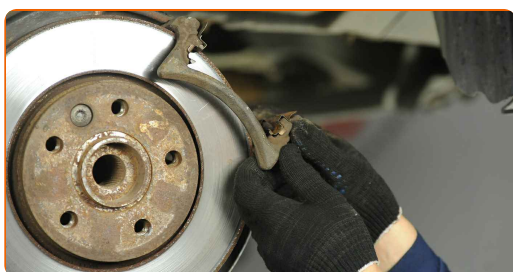


**14** Unscrew the brake caliper bracket fasteners. Use a drive socket #21. Use a ratchet wrench. Use a tap wrench.



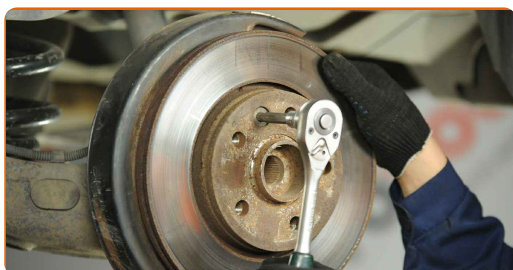
**15** Remove the fastening bolts (2 pieces).

**16** Remove the caliper bracket.

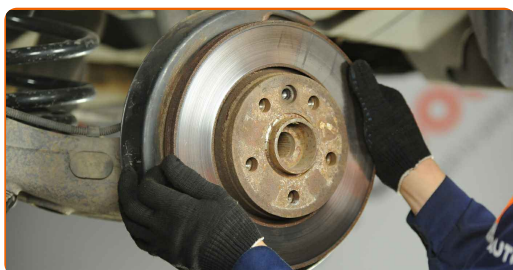


**17** Clean the brake disc fastener. Use a wire brush. Use WD-40 spray.

**18** Unscrew the brake disc fastening. Use Torx M10. Use a ratchet wrench.



**19** Remove the brake disc.





20

Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



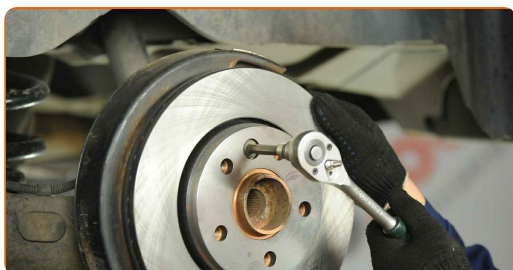
21

Install the brake disc.



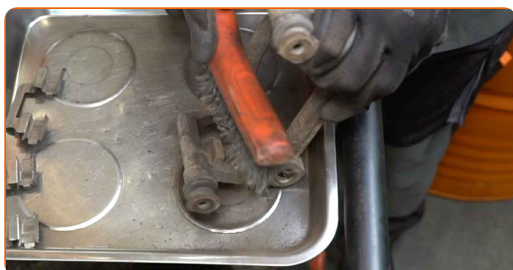
22

Tighten the brake disc fastening. Use Torx M10. Use a torque wrench. Tighten it to 15 Nm torque.



23

Clean the brake caliper bracket from dirt and dust. Use a wire brush. Use a brake cleaner.



**AUTODOC recommends:**

- Replacement: brake discs – VW California T6 Minibus (SGC, SGG, SHC). After applying the spray, wait a few minutes.

**24** Remove the guide pins from the brake caliper.

**25** Clean the brake caliper guide pins.



**26** Treat the brake caliper guide pins. Use the brake caliper guide pin grease.

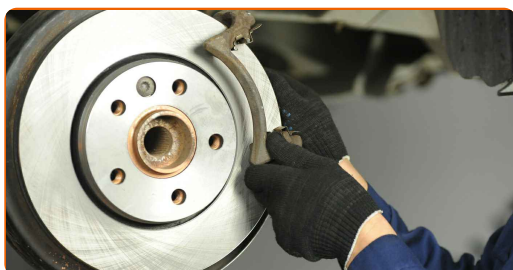


**27** Screw in the guide pins.

**28** Treat the brake caliper bracket fasteners. Use a sealant.

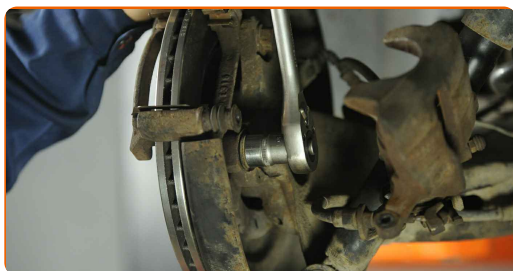


**29** Install the brake caliper bracket.

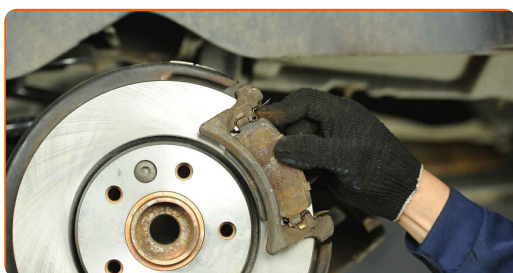


**30** Install the fastening bolts (2 pieces).

**31** Tighten the brake caliper bracket. Use a drive socket #21. Use a torque wrench. Tighten it to 165 Nm torque.



**32** Install the brake pads.



**33** Attach the connector of the brake pad wear sensor.

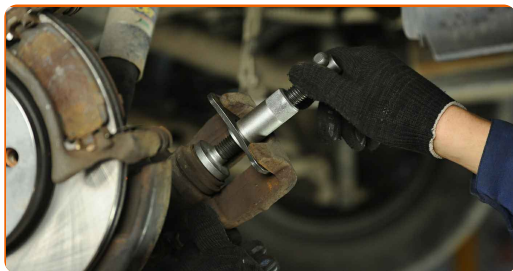
**34** Treat the brake caliper piston. Use a nylon cleaning brush. Use a brake cleaner.



Replacement: brake discs – VW California T6 Minibus (SGC, SGG, SHC). Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

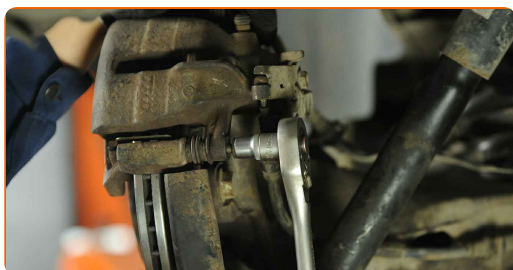
**35** Press in the brake caliper piston. Use brake caliper wind back tool.



**36.1** Install the brake caliper and fix it.



**36.2** Use a drive socket #12. Use a torque wrench. Tighten it to 30 nm torque.



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



38

Clean the brake disk surface. Use a brake cleaner.

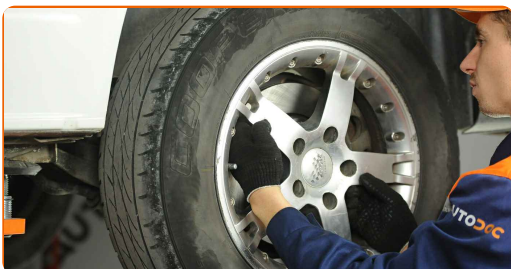


**AUTODOC recommends:**

- Replacement: brake discs – VW California T6 Minibus (SGC, SGG, SHC). After applying the spray, wait a few minutes.

39

Install the wheel.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW California T6 Minibus (SGC, SGG, SHC)

40

Screw in the wheel bolts. Use wheel impact socket #19.



**41**

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #19. Use a torque wrench. Tighten it to 180 Nm torque.



**42**

Remove the jacks and chocks.



**Replacement: brake discs – VW California T6 Minibus (SGC, SGG, SHC).  
AUTODOC recommends:**

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

**43**

Tighten the brake fluid reservoir cap. Close the hood.

**WELL DONE!** 

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