



How to change front ball joint on **VW Multivan VI (SGF, SGM, SGN)** – replacement guide

SIMILAR VIDEO TUTORIAL



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

ⓘ Important!

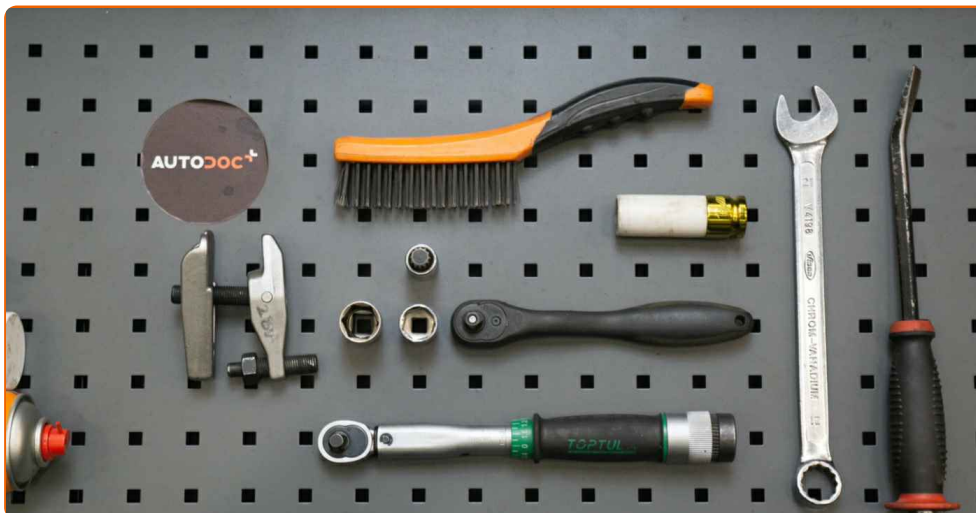
This replacement procedure can be used for:

VW Multivan VI (SGF, SGM, SGN) 2.0 TDI, VW Multivan VI (SGF, SGM, SGN) 2.0 TDI 4motion, VW Multivan VI (SGF, SGM, SGN) 2.0 TSI, VW Multivan VI (SGF, SGM, SGN) 2.0 TSI 4motion, VW Multivan VI (SGF, SGM, SGN) 2.0 TDI (Cxec), VW Multivan VI (SGF, SGM, SGN) 2.0 TDI 4motion (Cxec)

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 Transporter V Van (7HA, 7HH, 7EA, 7EH) 1.9 TDI

REPLACEMENT: BALL JOINT – VW MULTIVAN VI (SGF, SGM, SGN). TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #21
- Drive socket # 19
- Drive socket # 21
- XZN bit #14
- Wheel impact socket #19
- Ratchet wrench
- Crow bar
- Ball joint puller
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: ball joint – VW Multivan VI (SGF, SGM, SGN). Tip from AUTODOC experts:

- The replacement procedure is identical for the left and right ball joints.
- All work should be done with the engine stopped.

REPLACEMENT: BALL JOINT – VW MULTIVAN VI (SGF, SGM, SGN). TAKE THE FOLLOWING STEPS:

1 Secure the wheels with chocks.

2 Loosen the wheel mounting bolts. Use wheel impact socket #19.



3 Raise the front of the car and secure on supports.

4 Unscrew the wheel bolts.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. VW Multivan VI (SGF, SGM, SGN)

5

Remove the wheel.



6

Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



AUTODOC recommends:

- Replacement: ball joint – VW Multivan VI (SGF, SGM, SGN). After applying the spray, wait a few minutes.
- Wear protective goggles.
- Wear a respirator.

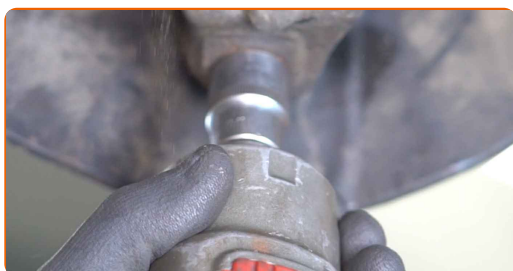
7

Unscrew the ball joint fastening to the steering knuckle. Use XZN #14. Use a ratchet wrench.



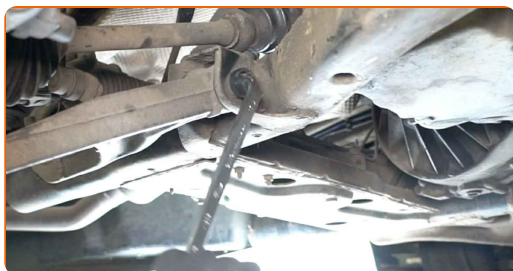
8

Unscrew the fastener connecting the ball joint to the suspension control arm. Use a drive socket #21. Use a ratchet wrench.



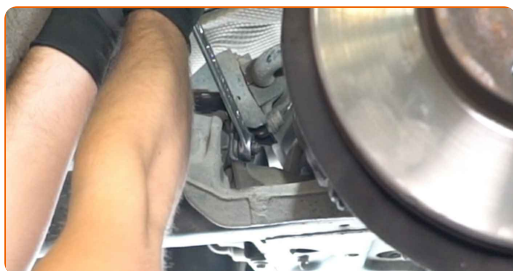
9

Unscrew the front arm fastener. Use a combination spanner #21.



10

Unscrew the rear fastener connecting the control arm to the subframe. Use a combination spanner #21.



11 Disconnect the ball joint from the steering knuckle. Use a crowbar.



12 Remove the ball joint. Use a ball joint puller.



13 Clean the ball joint mounting seat. Use a wire brush. Use WD-40 spray.



14 Install a new ball joint.

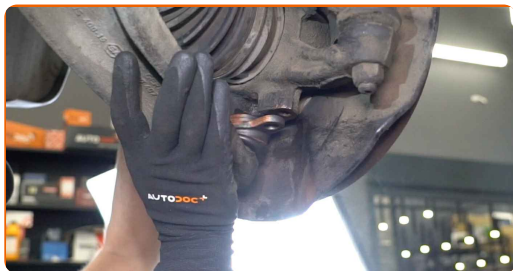


Replacement: ball joint – VW Multivan VI (SGF, SGM, SGN). Tip from AUTODOC:

- Do not damage the ball joint cover.

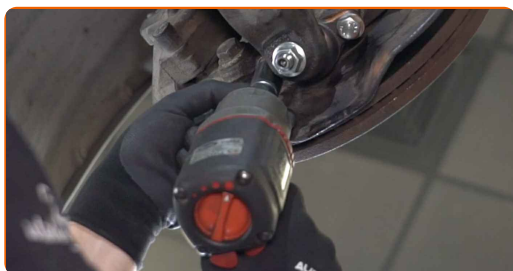
15

Connect the ball joint to the steering knuckle.



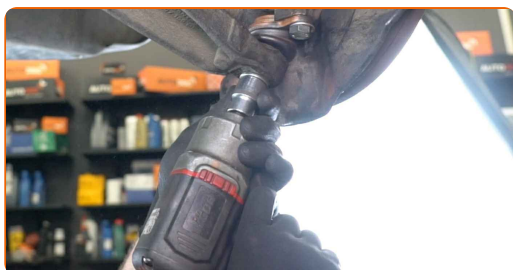
16

Screw the fastener connecting the ball joint to the steering knuckle. Use a drive socket #19. Use a ratchet wrench.



17

Screw in the fastener connecting the ball joint to the control arm. Use a drive socket #21. Use a ratchet wrench.



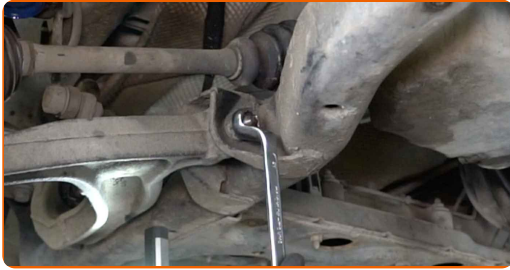
18

Support the arm. Use a hydraulic transmission jack.



19

Screw the fastener connecting the control arm to the subframe. Use a combination spanner #21.



20

Screw the rear fastener connecting the control arm to the subframe. Use a combination spanner #21.



21

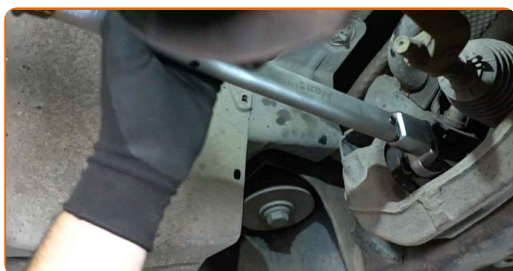
Tighten the front fastener connecting the control arm to the subframe. Use a combination spanner #21. Use a torque wrench. Tighten it to 110 Nm torque. +120°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

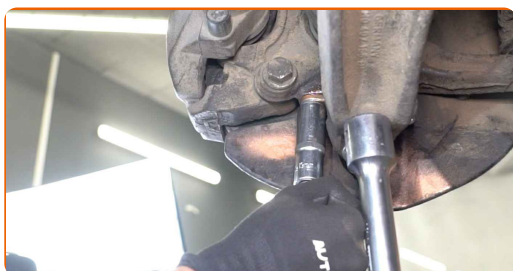
- 22** Tighten the rear fastener connecting the arm to the body subframe. Use a combination spanner #21. Use a torque wrench. Tighten it to 110 Nm torque. +120°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

- 23** Tighten the fastener connecting the ball joint to the steering knuckle. Use a drive socket #19. Use a torque wrench. Tighten it to 90 Nm torque. +45°



Replacement: ball joint – VW Multivan VI (SGF, SGM, SGN). Tip:

- Important! Be sure to use new fasteners.

24

Remove the support from under the arm.



AUTODOC recommends:

- Replacement: ball joint – VW Multivan VI (SGF, SGM, SGN). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

25

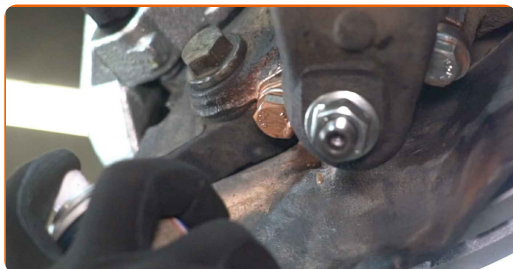
Tighten the fasteners connecting the ball joint to the control arm. Use a drive socket #21. Use a torque wrench. Tighten it to 60 Nm torque. +90°



AUTODOC recommends:

- Important! Be sure to use new fasteners.

26 Treat all joints of the arm. Use copper grease.



27 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



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



AUTODOC recommends:

- Replacement: ball joint – VW Multivan VI (SGF, SGM, SGN). After applying the spray, wait a few minutes.

29 Install the wheel.



AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while screwing in the fastening bolts on the car. VW Multivan VI (SGF, SGM, SGN)

30

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



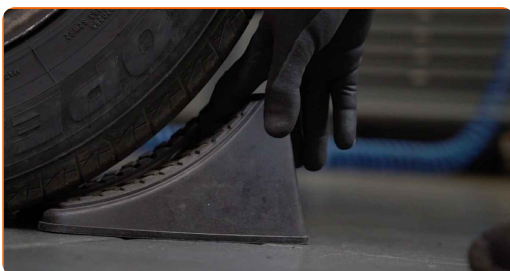
31

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.



32

Remove the jacks and chocks.



WELL DONE! 

VIEW MORE TUTORIALS

AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



+ AUTODOC

GET IT ON
Google Play

Download on the
App Store

Download

A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

BALL JOINT: A WIDE SELECTION

(i) DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2022 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC GmbH.