



How to change front ball  
joint on **NISSAN Interstar**  
**Platform/Chassis** –  
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:

NISSAN INTERSTAR Platform/Chassis 2.5 dCi 100, NISSAN INTERSTAR Platform/Chassis dCi 115, NISSAN INTERSTAR Platform/Chassis dCi 120, NISSAN INTERSTAR Platform/Chassis dCi 150, NISSAN INTERSTAR Platform/Chassis 3.0 dCi 140

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: RENAULT MASTER II Box (FD) 2.2 dCi

## REPLACEMENT: BALL JOINT – NISSAN INTERSTAR PLATFORM/CHASSIS. TOOLS YOU MIGHT NEED:



- Wire brush
- WD-40 spray
- All-purpose cleaning spray
- Ceramic grease
- Torque wrench
- 16 mm combination spanner
- E16 Torx socket
- 18 mm socket
- 21 mm socket
- 30 mm socket
- 24 mm wheel impact socket
- Ratchet wrench or power tool for removal/installation of threaded fasteners
- Tommy bar
- Ball joint C-frame press kit
- Slotted screwdriver
- Transmission jack or a second vehicle jack
- Car lift or jack with jack stands, and wheel chocks

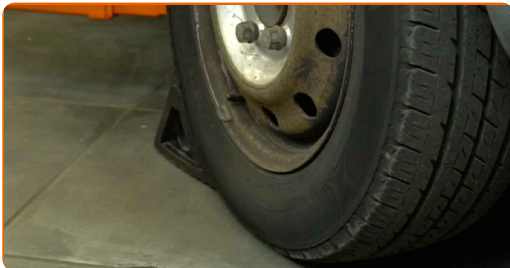
[Buy tools](#)

Replacement: ball joint – NISSAN Interstar Platform/Chassis. AUTODOC experts recommend:

- The replacement procedure is identical for the left and right ball joint.
- All the work should be carried out with the ignition switched off.

## REPLACEMENT: BALL JOINT – NISSAN INTERSTAR PLATFORM/CHASSIS. RECOMMENDED SEQUENCE OF STEPS:

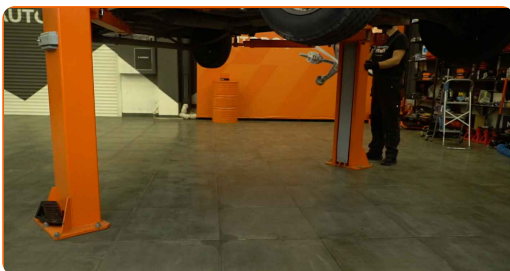
1 If you are going to use a jack, secure the wheels with chocks.



2 Loosen the wheel fasteners. Use a 24 mm wheel impact socket. Use a tommy bar.



3 Raise the car.



Replacement: ball joint – NISSAN Interstar Platform/Chassis. AUTODOC recommends:

- If you are using a jack, make sure the car is parked on a hard, flat surface.
- Make sure to additionally secure the car with jack stands.

4

Unscrew the wheel fasteners.



Caution!

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

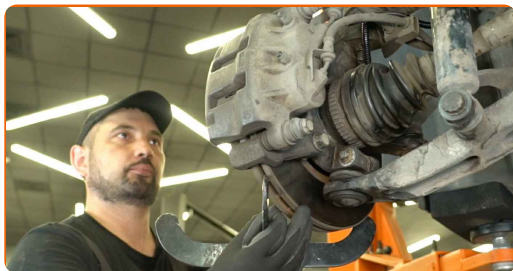
5

Remove the wheel.



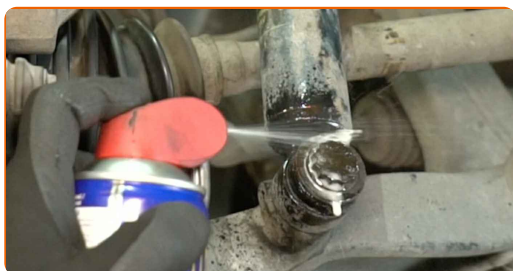
6

Support the steering knuckle. Use a transmission jack or one more vehicle jack.



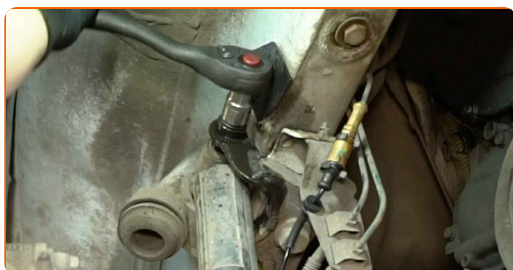
7

Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



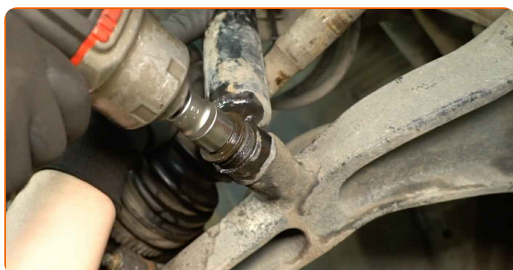
8

Unscrew the upper fastener of the shock absorber. Use an 18 mm socket. Use a ratchet wrench.

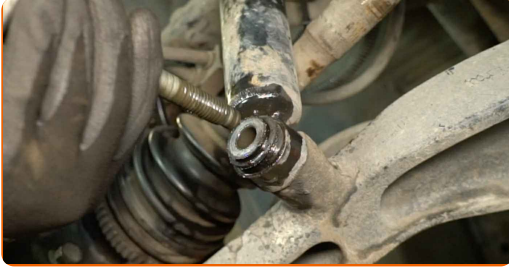


9

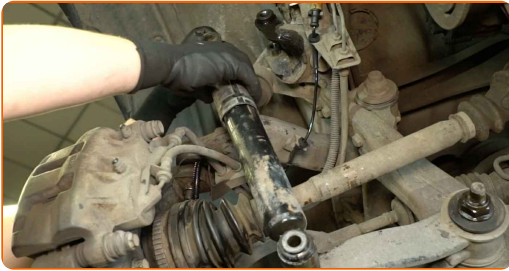
Unscrew the lower fastener of the shock absorber. Use a 21 mm socket. Use a ratchet wrench.



**10** Remove the fastening bolts.



**11** Remove the shock absorber.



**12** Clean the fastener connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.

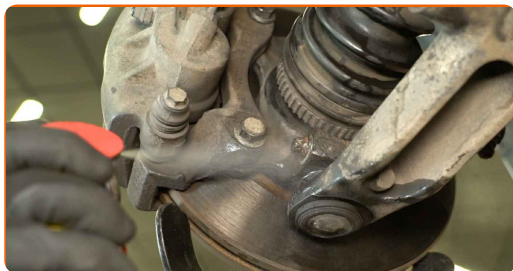


**13** Loosen the fastener that connects the control arm to the subframe. Use a 30 mm socket. Use a tommy bar.



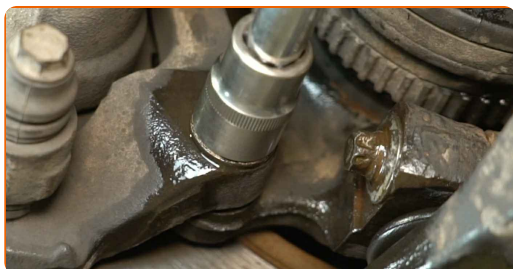


- 14** Clean the fastener that connects the lower ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

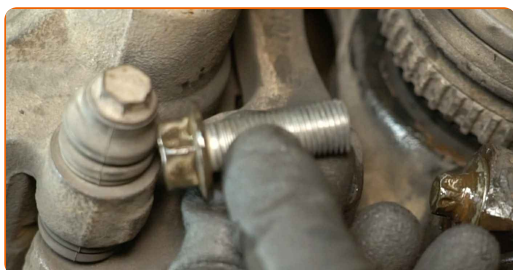


- 15** Clean the lower fastener of the brake caliper bracket. Use a wire brush. Use WD-40 spray.

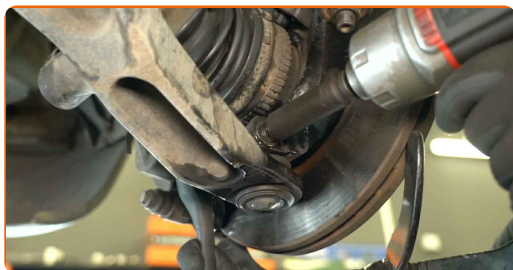
- 16** Unscrew the lower fastener of the brake caliper bracket. Use an 18 mm socket. Use a ratchet wrench.



- 17** Remove the fastening bolt.



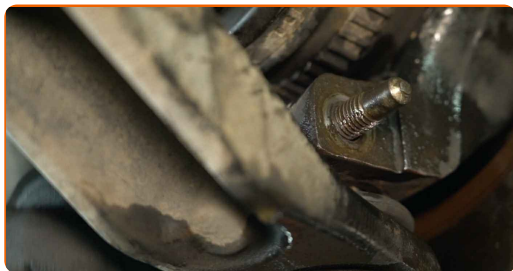
- 18** Unscrew the pinch bolt that connects the lower ball joint to the steering knuckle. Use a 16 mm combination spanner. Use an E16 Torx socket. Use a ratchet wrench.





19

Remove the pinch bolt.



20

Lower the transmission jack or the second vehicle jack by 10–15 cm.

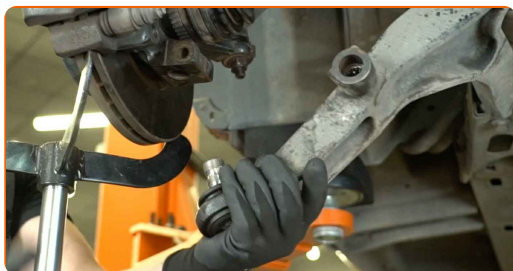


Replacement: ball joint – NISSAN Interstar Platform/Chassis. Tip:

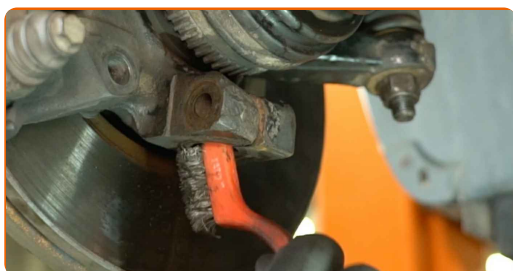
- Lower the transmission or vehicle jack smoothly without jerking it to avoid damaging the vehicle assemblies and mechanisms.

21

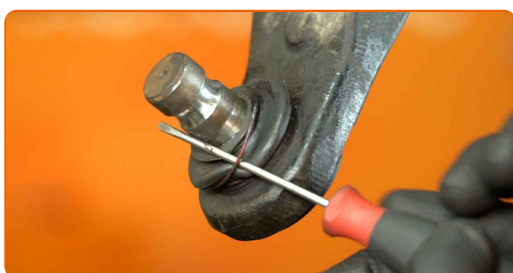
Disconnect the lower ball joint from the steering knuckle.



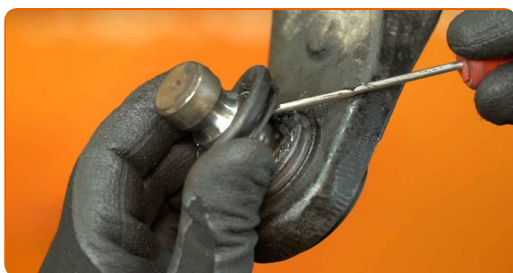
- 22** Clean the lower ball joint mounting seat on the steering knuckle. Use a wire brush. Use an all-purpose cleaning spray.



- 23** Remove the retaining ring from the ball joint boot. Use a slotted screwdriver.



- 24** Remove the ball joint boot. Use a slotted screwdriver.



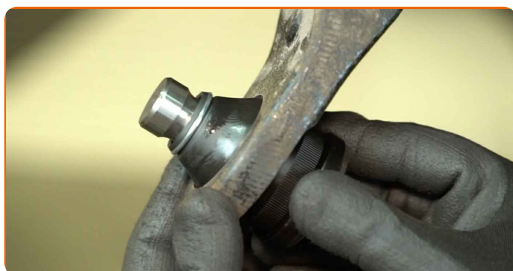
- 25** Disconnect the ball joint from the control arm. Use a ball joint C-frame press kit.



- 26 Clean the lower ball joint mounting seat on the control arm. Use a wire brush. Use an all-purpose cleaning spray.



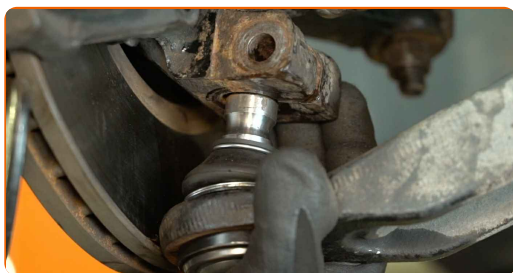
- 27 Install a new ball joint. Use a ball joint C-frame press kit.



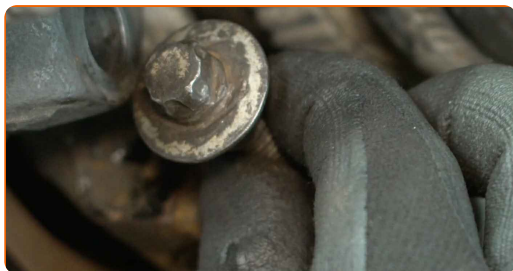
### Warning!

- Be careful not to damage the dust boot when pressing the joint in.

- 28 Connect the lower ball joint to the steering knuckle.

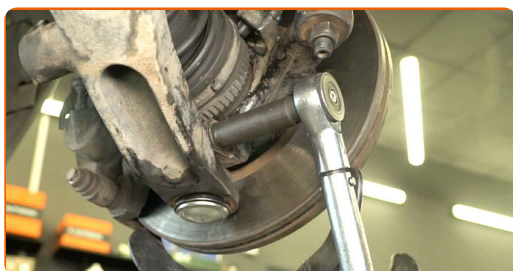


- 29 Install the pinch bolt.



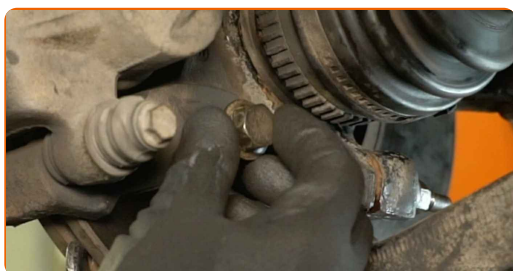
**30**

Tighten the pinch bolt that connects the lower ball joint to the steering knuckle. Use a 16 mm combination spanner. Use an E16 Torx socket. Use a torque wrench. Tightening torque: 70 N·m.



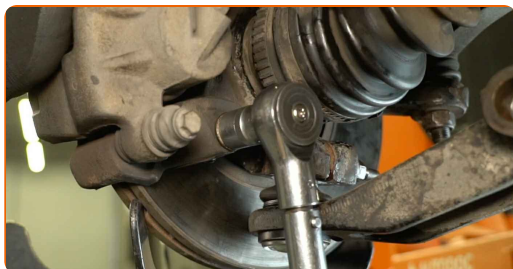
**31**

Install the lower fastening bolt of the brake caliper bracket.



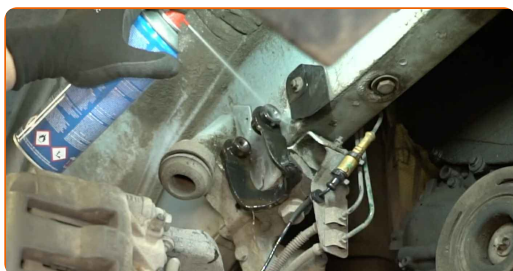
**32**

Tighten the lower fastener of the brake caliper bracket. Use an 18 mm socket. Use a torque wrench. Tightening torque: 110 N·m.



**33**

Clean the shock absorber mounting seats. Use a wire brush. Use an all-purpose cleaning spray.



34

Install the shock absorber.



35

Install the fastening bolts.



36

To tighten the fasteners correctly, you have to jack up the suspension to load it. Use a transmission jack or one more vehicle jack.



37

Tighten the top fastener of the shock absorber. Use an 18 mm socket. Use a torque wrench. Tightening torque: 62 N·m.





- 38 Tighten the lower fastener of the shock absorber. Use a 21 mm socket. Use a torque wrench. Tightening torque: 180 N·m.



- 39 Tighten the fastener that connects the control arm to the subframe. Use a 30 mm socket. Use a torque wrench. Tightening torque: 280 N·m.



- 40 Remove the support from under the steering knuckle.



Replacement: ball joint – NISSAN Interstar Platform/Chassis. Tip from AUTODOC experts:

- Lower the transmission or vehicle jack smoothly without jerking it to avoid damaging the vehicle assemblies and mechanisms.



41

Clean the wheel rim mounting seat. Use a wire brush. Use an all-purpose cleaning spray.



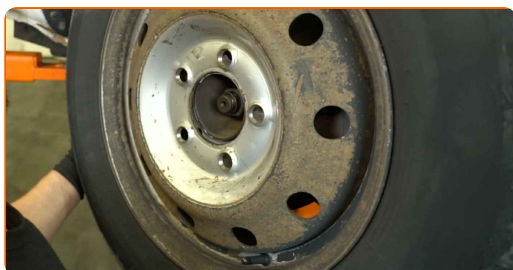
42

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



43

Install the wheel.



### Caution!

- To avoid injury, hold up the wheel when screwing in the fasteners.

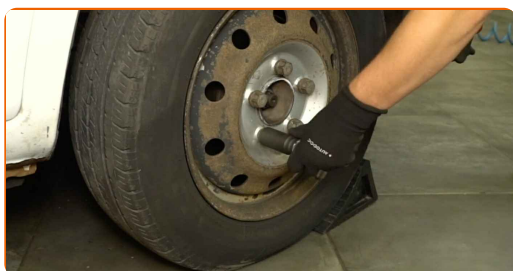
44

Screw in the wheel fasteners. Use a 24 mm wheel impact socket. Use a ratchet wrench.



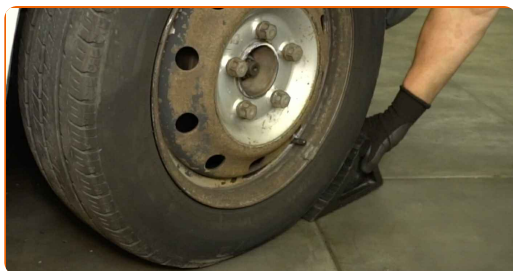
45

Lower the car and tighten the wheel fasteners in a criss-cross pattern. Use a 24 mm wheel impact socket. Use a torque wrench. Tightening torque: 172 N·m.



46

Remove the jack, jack stands, and wheel chocks.



**WELL DONE!** 

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