



How to change front ball
joint on **NISSAN Interstar**
Minibus (X70) –
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 Bus (X70) 1.9 dCi 80, NISSAN INTERSTAR Bus (X70) 2.2 dCi 90, NISSAN INTERSTAR Bus (X70) dCi 115, NISSAN INTERSTAR Bus (X70) 3.0 dCi 140, NISSAN INTERSTAR Bus (X70) 2.5 dCi 100, NISSAN INTERSTAR Bus (X70) dCi 120, NISSAN INTERSTAR Bus (X70) dCi 150, NISSAN INTERSTAR Bus (X70) dCi 100

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 MINIBUS (X70). 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

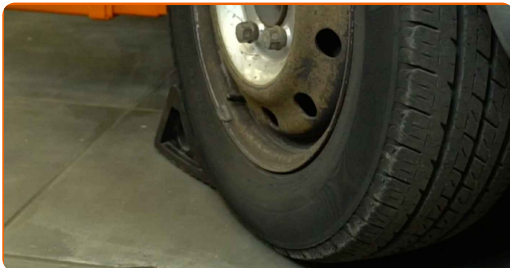
[Buy tools](#)

Replacement: ball joint – NISSAN Interstar Minibus (X70). 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 MINIBUS (X70). RECOMMENDED SEQUENCE OF STEPS:

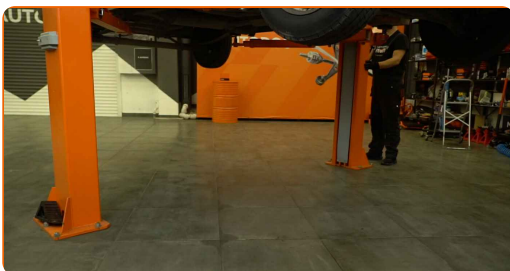
1 If you are going to use a jack, secure the wheels with chocks.



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



3 Raise the car.

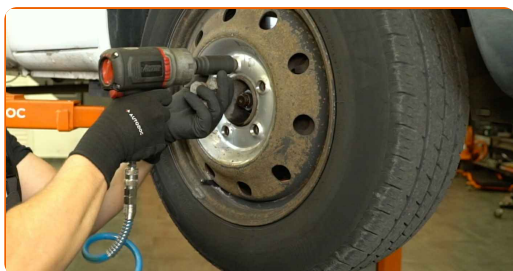


Replacement: ball joint – NISSAN Interstar Minibus (X70). AUTODOC recommends:

- 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.

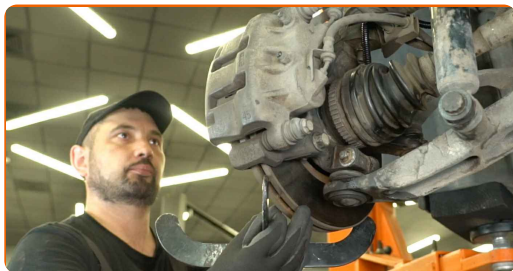
5

Remove the wheel.



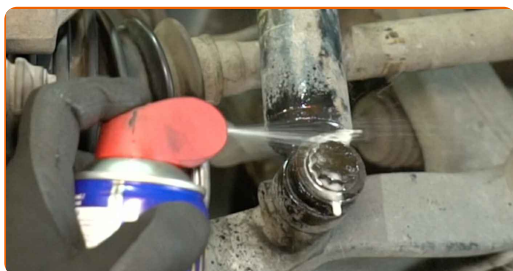
6

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



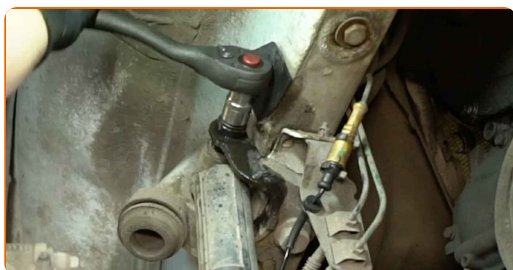
7

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



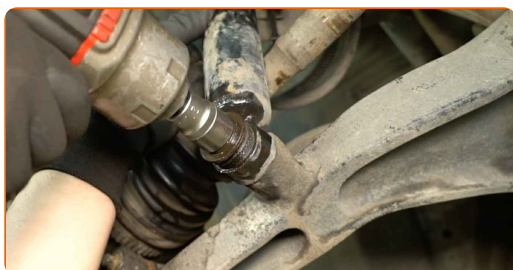
8

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

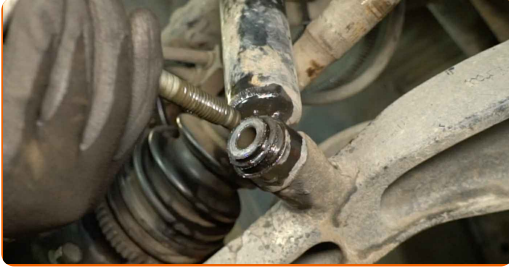


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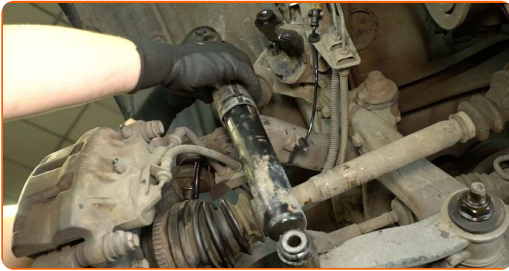
Unscrew the lower fastener of the shock absorber. Use a 21 mm socket. Use a ratchet wrench.



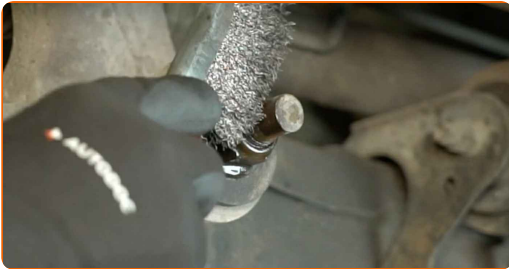
10 Remove the fastening bolts.



11 Remove the shock absorber.



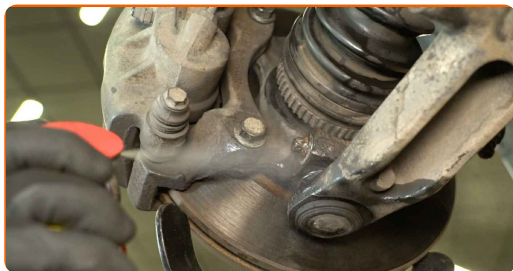
12 Clean the fastener connecting the control arm to the subframe. Use a wire brush. Use WD-40 spray.



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

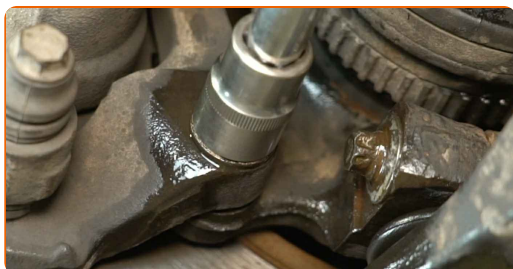


- 14** Clean the fastener that connects the lower ball joint to the steering knuckle. Use a wire brush. Use WD-40 spray.

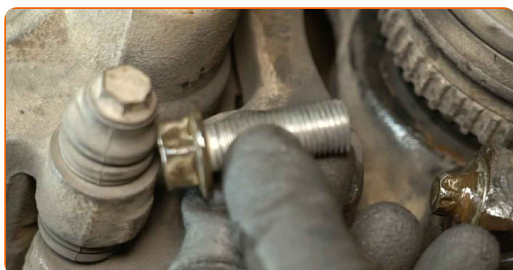


- 15** Clean the lower fastener of the brake caliper bracket. Use a wire brush. Use WD-40 spray.

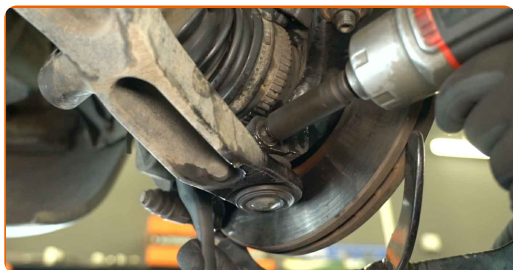
- 16** Unscrew the lower fastener of the brake caliper bracket. Use an 18 mm socket. Use a ratchet wrench.



- 17** Remove the fastening bolt.

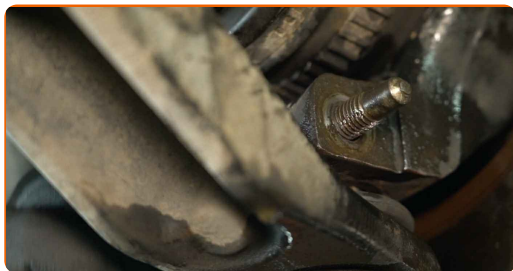


- 18** Unscrew the pinch bolt that connects the lower ball joint to the steering knuckle. Use a 16 mm combination spanner. Use an E16 Torx socket. Use a ratchet wrench.



19

Remove the pinch bolt.



20

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

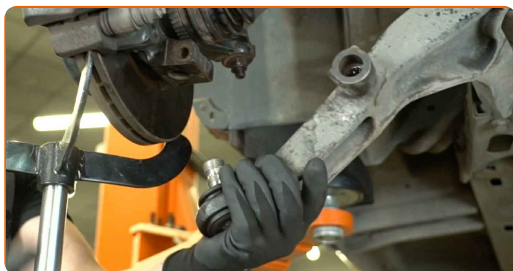


Replacement: ball joint – NISSAN Interstar Minibus (X70). Tip:

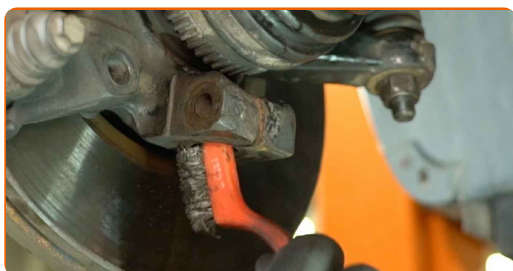
- Lower the transmission or vehicle jack smoothly without jerking it to avoid damaging the vehicle assemblies and mechanisms.

21

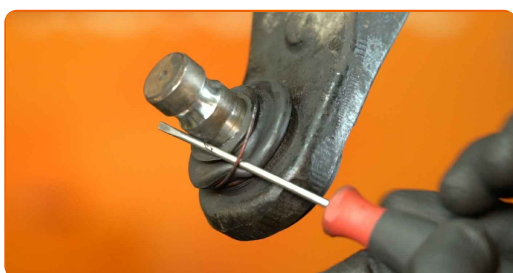
Disconnect the lower ball joint from the steering knuckle.



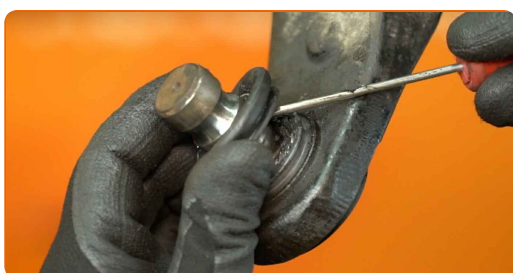
- 22** Clean the lower ball joint mounting seat on the steering knuckle. Use a wire brush. Use an all-purpose cleaning spray.



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



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



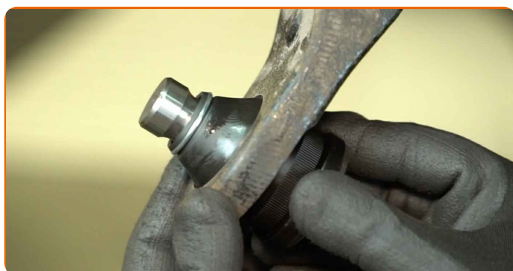
- 25** Disconnect the ball joint from the control arm. Use a ball joint C-frame press kit.



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



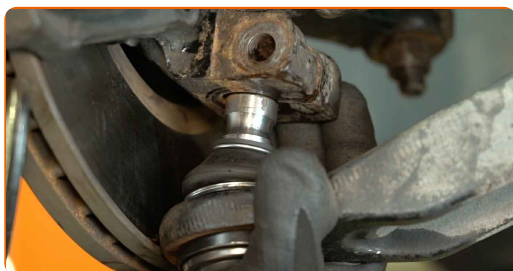
- 27 Install a new ball joint. Use a ball joint C-frame press kit.



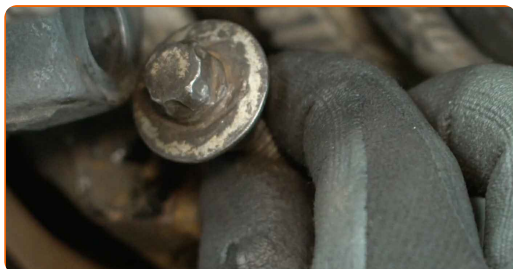
Warning!

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

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

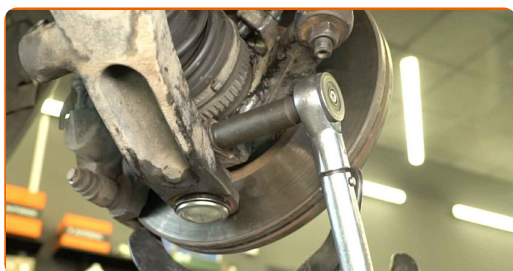


- 29 Install the pinch bolt.



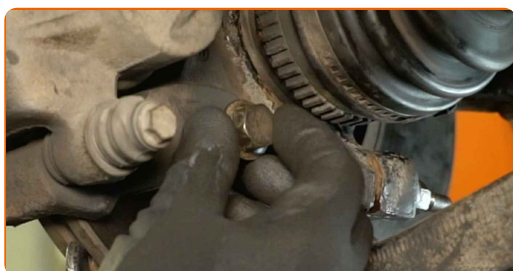
30

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.



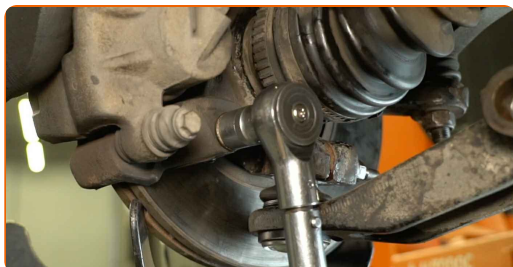
31

Install the lower fastening bolt of the brake caliper bracket.



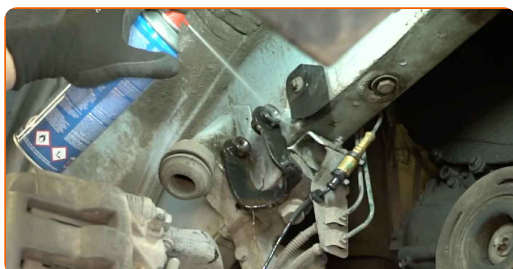
32

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.



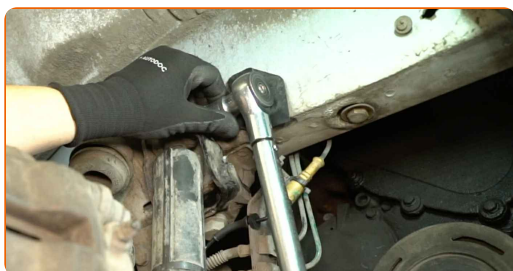
36

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 Minibus (X70). 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.



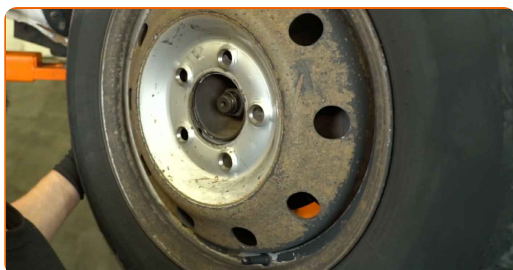
42

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.

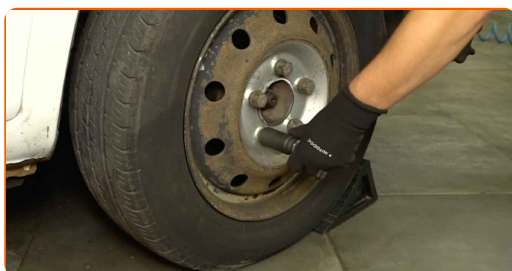
44

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



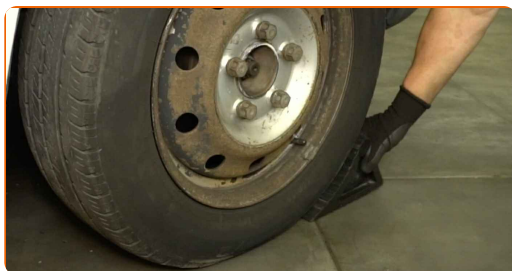
45

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.

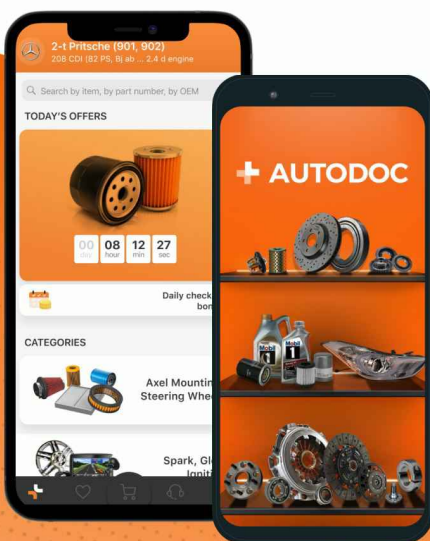


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BALL JOINT: A WIDE SELECTION

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