



How to change rear  
lower arm on  
**MERCEDES-BENZ CLS**  
**Shooting Brake (X218)** –  
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 CLS Shooting Brake (X218) CLS 350 (218.959), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 500 (218.973), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 500 4-matic (218.991), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 63 AMG (218.974), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 250 CDI / BlueTEC / d (218.903, 218.904), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 350 CDI (218.923), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 350 CDI 4-matic (218.993), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 63 AMG 4-matic (218.992), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 63 AMG 4-matic (218.976), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 63 AMG (218.975), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 220 BlueTEC / d (218.901), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 220 BlueTEC (218.901), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 250 BlueTEC / d 4-matic (218.997), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 350 BlueTEC / d (218.926), MERCEDES-BENZ CLS Shooting Brake (X218) CLS 350 BlueTEC 4-matic (218.994), (+ 5)

The steps may slightly vary depending on the car design.

Please note that this tutorial was created based on the replacement procedure for this car part on a car with a similar design.

This tutorial was created based on the replacement procedure for a similar car part on: MERCEDES-BENZ C-Class Saloon (W204) C 220 CDI (204.008)

**REPLACEMENT: REAR LOWER ARM – MERCEDES-BENZ  
CLS SHOOTING BRAKE (X218). TOOLS YOU MIGHT  
NEED:**



- Wire brush
- WD-40 spray
- Brake cleaner
- Ceramic grease
- Copper grease
- Torque wrench
- Combination spanner #18
- Drive socket # 10
- Drive socket # 18
- Torx bit E10
- Torx bit E14
- XZN socket bit # 12
- Wheel impact socket #17
- Ratchet wrench
- Flat screwdriver
- Hydraulic transmission jack
- Wheel chock

**Buy tools**

Replacement: rear lower arm – MERCEDES-BENZ CLS Shooting Brake (X218).  
Tip from AUTODOC:

- The replacement procedure is identical for the left and right lower control arms.
- Please note: all work on the car – MERCEDES-BENZ CLS Shooting Brake (X218) – should be done with the engine switched off.

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

**1** Secure the wheels with chocks.

**2** Loosen the wheel mounting bolts. Use wheel impact socket #17.



**3** Raise the car.

Replacement: rear lower arm – MERCEDES-BENZ CLS Shooting Brake (X218).  
AUTODOC experts recommend:

- 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.

4

Unscrew the wheel bolts.



**AUTODOC recommends:**

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts.  
MERCEDES-BENZ CLS Shooting Brake (X218)

5

Remove the wheel.

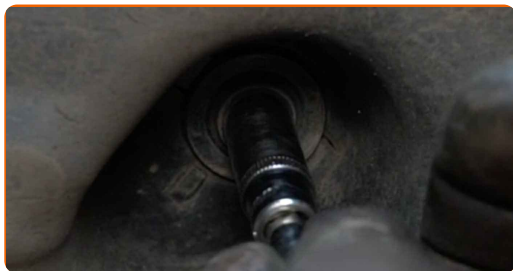


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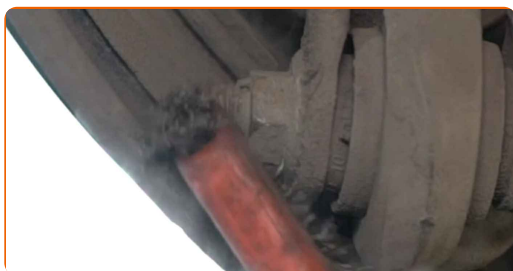
Unclip the fasteners and remove the suspension arm plastic cover. Use a flat screwdriver.



**7** Unscrew the fasteners of the underbody plastic cover. Use a drive socket #10. Use a ratchet wrench.



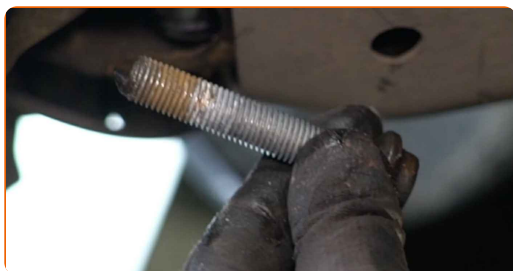
**8** Clean all joints of the arm. Use a wire brush. Use WD-40 spray.



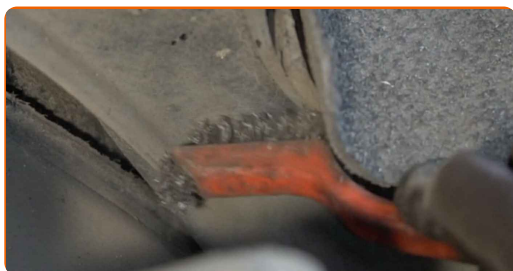
**9** Unscrew the fastener that connects the suspension arm to the stub axle. Use a combination spanner #18. Use XZN #12. Use a ratchet wrench.



**10** Remove the fastening bolt.



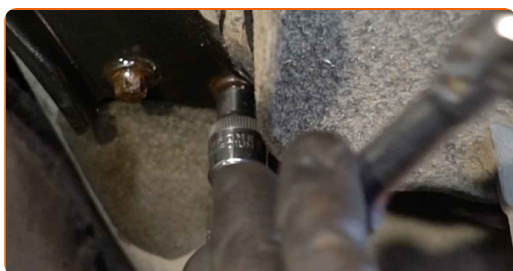
**11** Clean the subframe bracket fasteners. Use a wire brush. Use WD-40 spray.



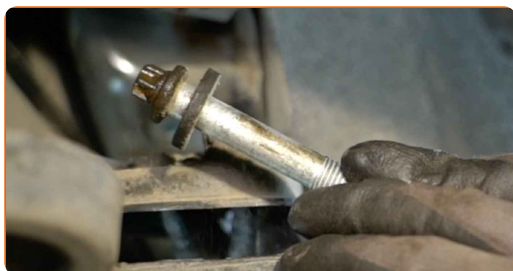
**12** Support the subframe. Use a hydraulic transmission jack.



**13** Unscrew the subframe bracket fasteners. This is necessary to access the upper fastening bolt of the suspension arm. Use Torx E10. Use Torx E14. Use a ratchet wrench.



**14** Remove the fastening bolts.





**15** Remove the subframe bracket.



**16** Unscrew the fastener connecting the control arm to the subframe. Use a combination spanner #18. Use XZN #12. Use a ratchet wrench.



**17** Remove the fastening bolt.



**18** Remove the arm.



19

Clean the suspension arm mounting seats. Use a wire brush. Use WD-40 spray.



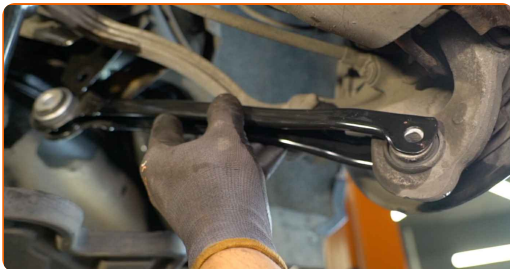
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Clean the subframe bracket mounting seats. Use a wire brush. Use WD-40 spray.



21

Install a new arm.



Replacement: rear lower arm – MERCEDES-BENZ CLS Shooting Brake (X218).  
Professionals recommend:

- During the installation process, use only new bolts and nuts.

**22** Install the fastening bolts.



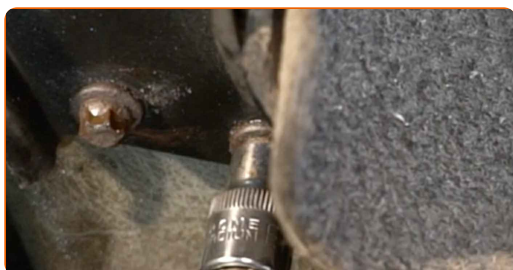
**23** Install the subframe bracket.



**24** Install the fastening bolts.



**25** Tighten the subframe bracket fasteners. Use Torx E10. Use a torque wrench. Tighten it to 28 Nm torque.

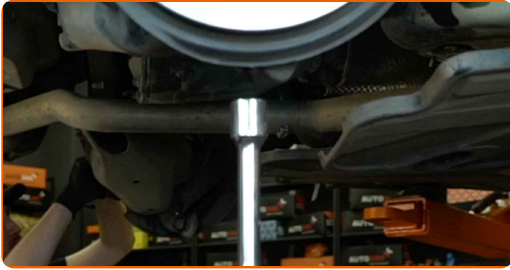


**26** Tighten the subframe bracket fasteners. Use Torx E14. Use a torque wrench. Tighten it to 80 Nm torque.+90°



**27**

Remove the support from under the subframe.



**AUTODOC recommends:**

- Replacement: rear lower arm – MERCEDES-BENZ CLS Shooting Brake (X218).  
Tip:

**28**

Support the rear knuckle. Use a hydraulic transmission jack.

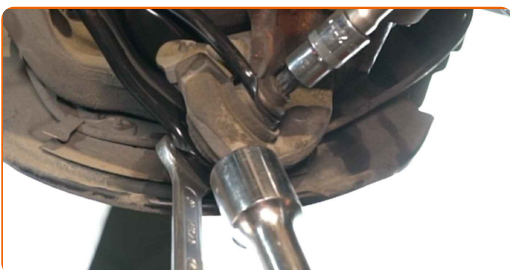


**AUTODOC recommends:**

- For tightening the fasteners correctly, you have to jack up the suspension components to their working position.

**29**

Tighten the fastener that connects the suspension arm to the stub axle. Use a combination spanner #18. Use XZN #12. Use a torque wrench. Tighten it to 50 Nm torque.+90°



- 30** Tighten the fastener connecting the control arm to the subframe. Use a drive socket #18. Use XZN #12. Use a torque wrench. Tighten it to 50 Nm torque. +90°



- 31** Remove the support from under the rear knuckle.



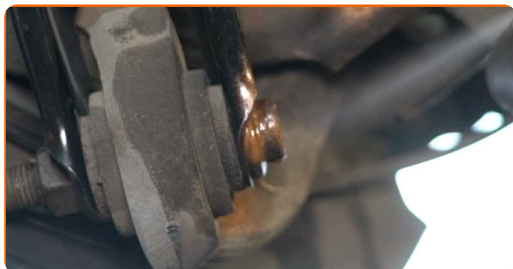
**AUTODOC recommends:**

- MERCEDES-BENZ CLS Shooting Brake (X218) – Do not lower the transmission jack sharply to avoid damaging components and mechanisms of the car.

- 32** Treat the subframe bracket fasteners. Use copper grease.



**33** Treat all joints of the arm. Use copper grease.

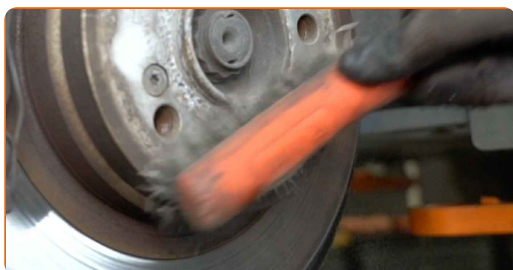


**34** Screw in the fasteners of the underbody plastic cover. Use a drive socket #10. Use a ratchet wrench.



**35** Install the suspension arm plastic cover.

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



**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.

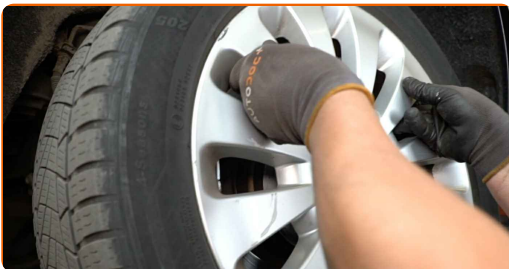


**AUTODOC recommends:**

- Replacement: rear lower arm – MERCEDES-BENZ CLS Shooting Brake (X218).  
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. MERCEDES-BENZ CLS Shooting Brake (X218)

40

Screw in the wheel bolts. Use wheel impact socket #17.



- 41 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 130 Nm torque.



- 42 Remove the jacks and chocks.



**WELL DONE!** 

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