



How to change spark  
plugs on **MERCEDES-  
BENZ S-Class Saloon  
(W108, W109) V6** –  
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 S-Class Saloon (W108, W109) 250 S 2.5 (108.012)

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: MERCEDES-BENZ C-Class Saloon (W203) C 240 (203.061)

REPLACEMENT: SPARK PLUGS – MERCEDES-BENZ S-CLASS SALOON (W108, W109) V6. TOOLS YOU MIGHT NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Torque wrench
- Torx bit T30
- Spark plug socket # 16
- Ratchet wrench
- Long round nose pliers
- Microfibre towel
- Fender cover

**Buy tools**

Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. Professionals recommend:

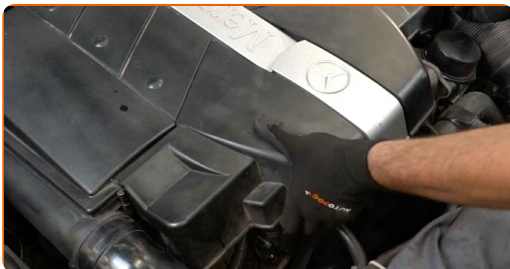
- The replacement procedure is the same for all spark plugs.
- All work should be done with the engine stopped.

## REPLACEMENT: SPARK PLUGS – MERCEDES-BENZ S-CLASS SALOON (W108, W109) V6. TAKE THE FOLLOWING STEPS:

**1** Open the hood.

**2** Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

**3** Remove the engine cover.

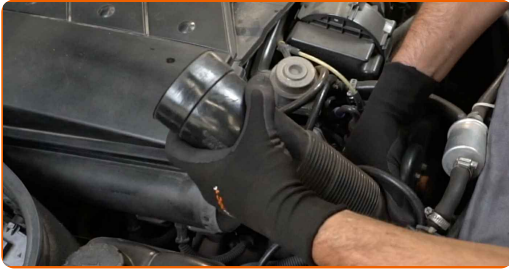


### AUTODOC recommends:

- Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. Do not use excessive force when removing the part as this may damage it.

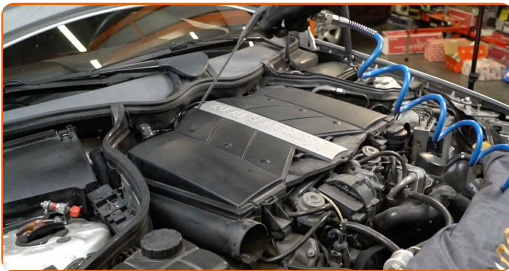
4

Remove the air intake hoses.



5

Clean the air filter cover and housing.



Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. Tip:

- Before cleaning the air filter cover and housing, cover the air duct parts, mass airflow sensor (if available), throttle valve with a clean cloth.

6

Remove the air filter housing.



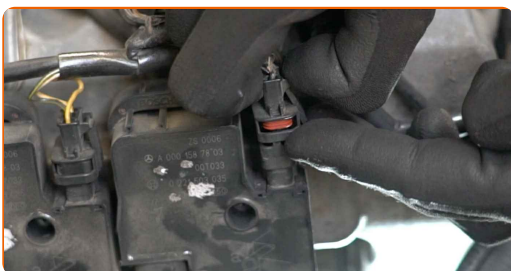
**AUTODOC recommends:**

- Do not apply excessive force when removing the part. Otherwise you may damage it.

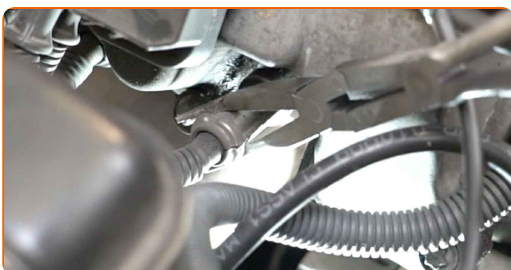
**7** Cover the throttle body with a microfibre towel to prevent dust and dirt from getting into the system.



**8** Unplug the connectors from the ignition coils.



**9** Remove the spark plug wire connectors from the spark plug wells. Use long round nose pliers.



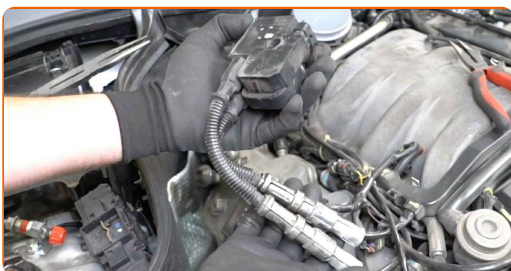
**Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. Tip from AUTODOC:**

- Be careful to avoid damaging spark plug wires.
- Remember the sequence of the spark plug wires connectors.

**10** Unscrew the fasteners of the ignition coils. Use Torx T30. Use a ratchet wrench.



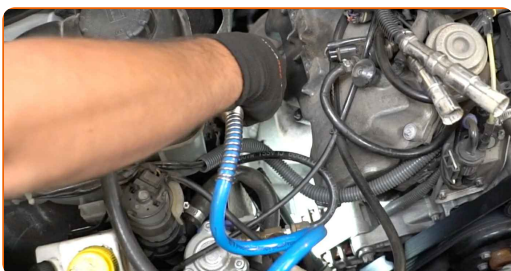
**11** Take out the ignition coil from the spark plug well.



Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. AUTODOC experts recommend:

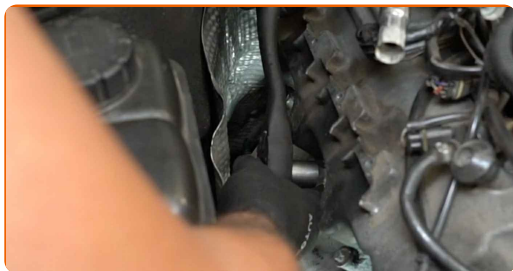
- Remember the sequence of steps for ignition coil demounting.

**12** Clean dirt, dust and debris from inside the spark plug wells.

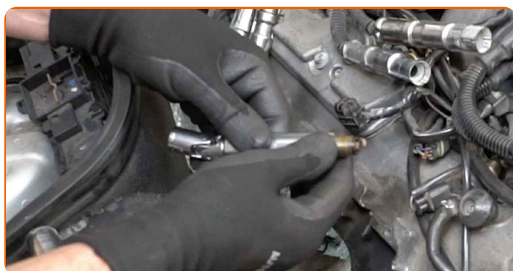




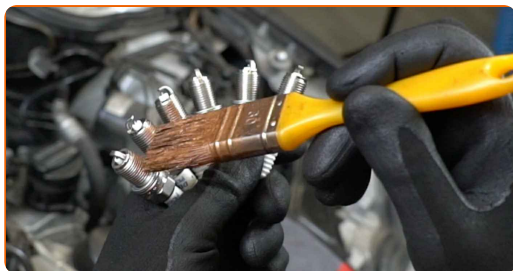
**13** Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.



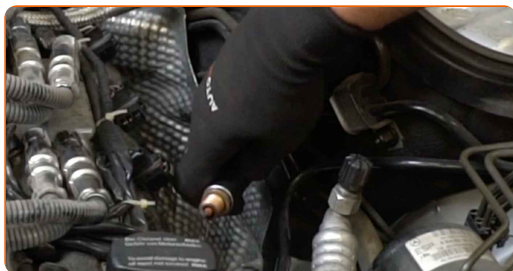
**14** Take out the spark plugs.



**15** Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs.



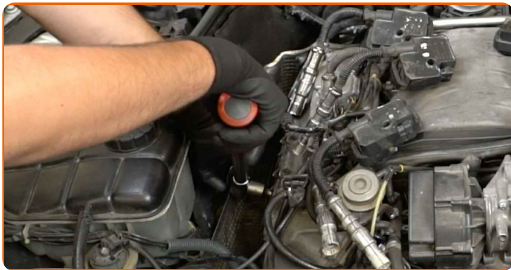
**16** Install the new spark plugs into their mounting seats.





**17**

Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 27 nm torque.



**Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. Professionals recommend:**

- Don't tighten the plugs with excessive force. Exceeding tightening torque can damage the thread connection.
- Be careful when working with a spark plug wrench. Its skewing can cause damage to the threaded connection.

**18**

Install the ignition coils to the spark plug wells.



**Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. AUTODOC experts recommend:**

- Follow the installation sequence.

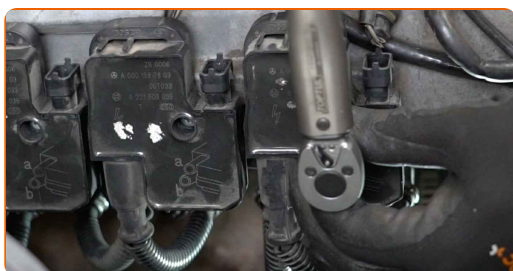
- 19 Install the spark plug wire connectors into the spark plug wells. Make sure you hear a click indicating that it is locked in place.



Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. AUTODOC recommends:

- Follow the installation sequence.

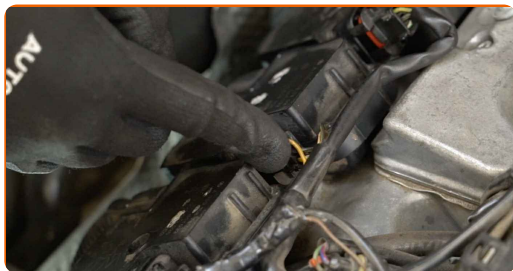
- 20 Tighten the ignition coil fasteners. Use Torx T30. Use a torque wrench. Tighten it to 18 nm torque.



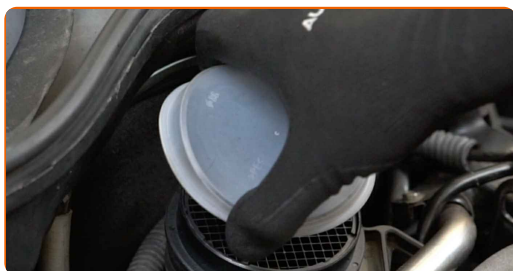
- 21 Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.



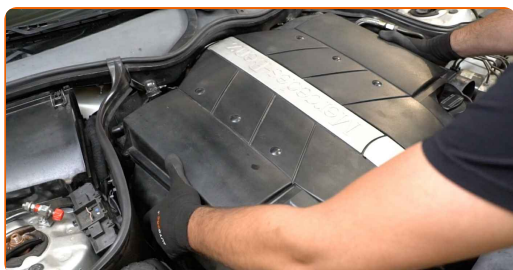
**22** Plug in the connectors of the ignition coils. Make sure you hear a click indicating that it is locked in place.



**23** Remove the microfibre towel from the throttle body.



**24** Install the air filter housing.



**AUTODOC recommends:**

- Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. Do not use excessive force during installation. This may damage the part.

**25** Install the engine cover and secure it.

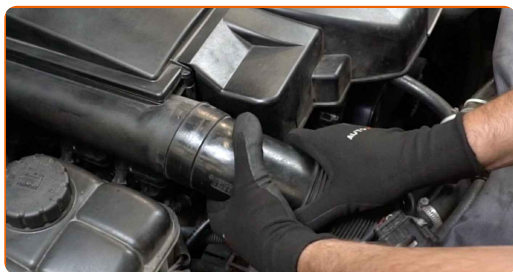


**AUTODOC recommends:**

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners and the throttle body air intake hose.
- Replacement: spark plugs – MERCEDES-BENZ S-Class Saloon (W108, W109) V6. To avoid damaging the part during installation, do not use excessive force.

**26**

Reinstall the air intake hoses.



**27**

Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.

**28**

Shut off the engine.

**29**

Remove the fender protection cover.

**30**

Close the hood.

**WELL DONE!** 

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