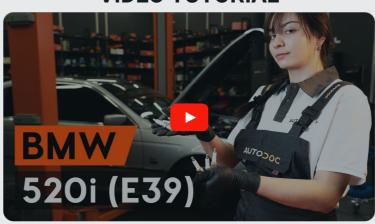


#### **VIDEO TUTORIAL**



## (i) Important!

This replacement procedure can be used for:

BMW 3 Saloon (E30) 316i 1.6, BMW 3 Saloon (E30) 318i 1.8, BMW 3 Saloon (E30) 318is 1.8, BMW 3 Touring (E30) 318i 1.8, BMW 3 Saloon (E36) 316i 1.6, BMW 3 Saloon (E36) 318i 1.8, BMW 3 Saloon (E36) 318is 1.8, BMW 3 Coupe (E36) 318is 1.8, BMW 3 Saloon (E36) 320i 2.0, BMW 3 Coupe (E36) 320i 2.0, BMW 3 Saloon (E36) 325i 2.5, BMW 3 Coupe (E36) 325i 2.5, BMW 3 Touring (E30) 316i 1.6, BMW 5 Saloon (E34) 520i 2.0 24V, BMW 5 Saloon (E34) 525i 2.5 24V, (+ 151)

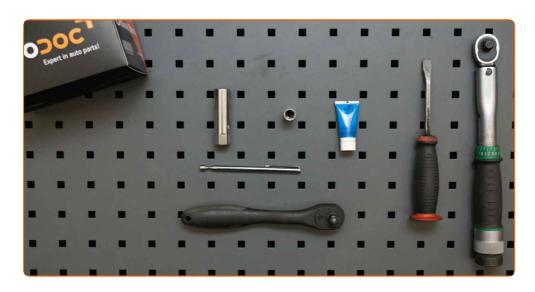
The steps may slightly vary depending on the car design.

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## REPLACEMENT: SPARK PLUGS – BMW E39. LIST OF THE TOOLS YOU'LL NEED:



- High-temperature anti-seize lubricant
- Drive socket # 10
- Spark plug socket # 16
- Ratchet wrench

- Torque wrench
- Telescoping magnet
- Crow bar
- Fender cover

**BUY TOOLS** 

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## Color

#### Replacement: spark plugs – BMW E39. Tip from AUTODOC experts:

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

# REPLACEMENT: SPARK PLUGS – BMW E39. USE THE FOLLOWING PROCEDURE:

Open the bonnet.



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



Unscrew the engine cover fastener. Use a drive socket #10. Use a ratchet wrench.



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4 Remove the engine cover.



## Replacement: spark plugs – BMW E39. Tip:

- Do not apply excessive force when removing the part. Otherwise you may damage it.
- Detach the air duct housing from the air filter housing.



Unscrew the engine cover fastener. Use a drive socket #10. Use a ratchet wrench.



Unscrew the oil filler plug.



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8

11

Remove the engine cover.



#### AUTODOC recommends:

- Replacement: spark plugs BMW E39. To avoid damaging the part when removing it, do not use excessive force.
- g Tighten the oil filler cap.



Unplug the connectors from the ignition coils. Use a crowbar.



Unscrew the fasteners of the ignition coils. Use a drive socket #10. Use a ratchet wrench.



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Take out the ignition coils from the spark plug wells.



## Replacement: spark plugs – BMW E39. AUTODOC recommends:

- Remember the sequence of steps for ignition coil demounting.
- Clean dirt, dust and debris from inside the spark plug wells.



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



Take out the spark plugs. Use a telescoping magnet.



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



Install the new spark plugs into their mounting seats. Use the spark plug socket #16.



Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 26 nm torque.



#### Replacement: spark plugs – BMW E39. Tip from AUTODOC experts:

- 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.

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Install the ignition coils to the spark plug wells. Make sure you hear a click indicating that it is locked in place.



#### AUTODOC recommends:

- Replacement: spark plugs BMW E39. Follow the installation steps.
- Tighten the fasteners of the ignition coils. Use a drive socket #10. Use a ratchet wrench.



Tighten the ignition coil fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 11 nm torque.



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Plug in the connectors of the ignition coils.



- Unscrew the oil filler plug.
- Remove the oil filler cap.



Install the engine cover and secure it.



## Replacement: spark plugs – BMW E39. Tip:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Do not apply excessive force when installing the part. Otherwise you may damage the fasteners.

Install the oil filler cap.

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Tighten the oil filler cap. **27** 



Screw in the engine cover fasteners. Use a drive socket #10. Use a ratchet wrench. 28



Install the air duct housing. 29



30 Install the engine cover and secure it.



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