

#### **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, (+ 150)

The steps may slightly vary depending on the car design.

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# REPLACEMENT: SPARK PLUGS – BMW E36. TOOLS YOU MIGHT NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Torque wrench
- Drive socket # 10
- Spark plug socket # 16

- Ratchet wrench
- Flat screwdriver
- Crow bar
- Fender cover

**BUY TOOLS** 

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#### Replacement: spark plugs – BMW E36. AUTODOC experts recommend:

- The replacement procedure is the same for all spark plugs.
- Please note: all work on the car BMW E36 should be done with the engine switched off.

### CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

Open the hood.



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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Remove the engine cover.



#### AUTODOC recommends:

- Replacement: spark plugs BMW E36. To avoid damaging the part when removing it, do not use excessive force.
- Unscrew the engine cover fastener. Use a drive socket #10. Use a ratchet wrench. Use a flat screwdriver.



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



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Remove the engine cover.



### AUTODOC recommends:

- Replacement: spark plugs BMW E36. Do not use excessive force when removing the part as this may damage it.
- 9 Install the oil filler cap.
- 10 Tighten the oil filler cap.

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



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



Take out the ignition coils from the spark plug wells.



### Replacement: spark plugs – BMW E36. Tip from AUTODOC experts:

• Remember the sequence of steps for ignition coil demounting.

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



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



Take out the spark plugs.

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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.



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Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 24 nm torque.



#### Replacement: spark plugs – BMW E36. AUTODOC recommends:

- 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.



### Replacement: spark plugs – BMW E36. AUTODOC experts recommend:

Follow the installation sequence.

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Tighten the ignition coil fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 7 nm torque.



Treat the ignition coil connector with electronic spray.



Plug in the connectors of the ignition coils.



Unscrew the oil filler plug.



Remove the oil filler cap.

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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.
- Replacement: spark plugs BMW E36. To avoid damaging the part during installation, do not use excessive force.
- 27 Install the oil filler cap.
- Tighten the oil filler cap.



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