

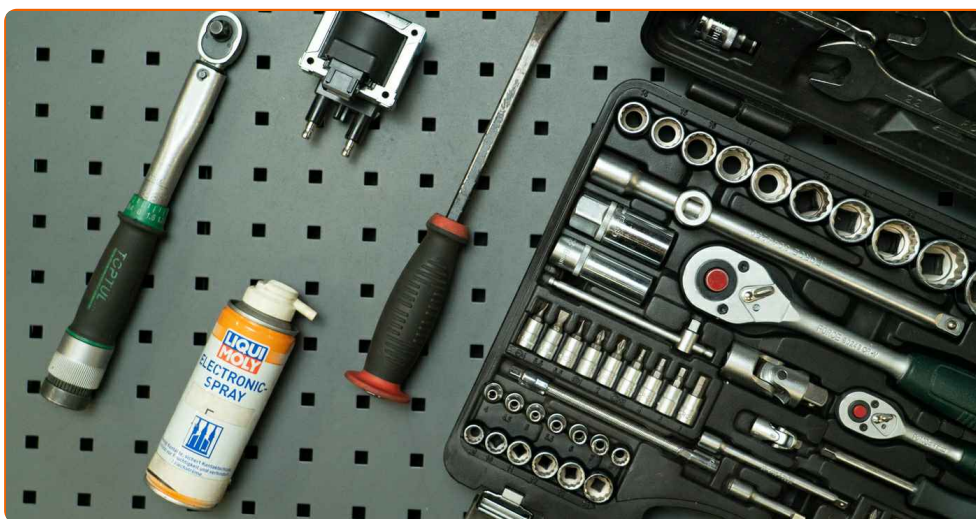


How to change ignition  
coil on a car –  
replacement tutorial

## VIDEO TUTORIAL



### THINGS YOU MAY NEED:



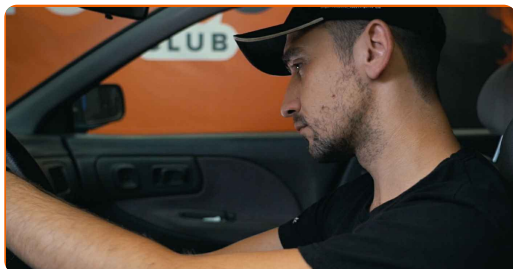
- a new ignition coil
- a set of suitable tools
- torque wrench
- crow bar
- threadlocker
- electrical contact cleaner spray

**BUY TOOLS**

The need for replacement is indicated by the following signs:

- difficulty starting the engine
- the engine running rough
- engine power loss

**1** Shut down the engine, switch off the ignition and wait until the engine has cooled down completely



**2** If necessary, remove the engine cover



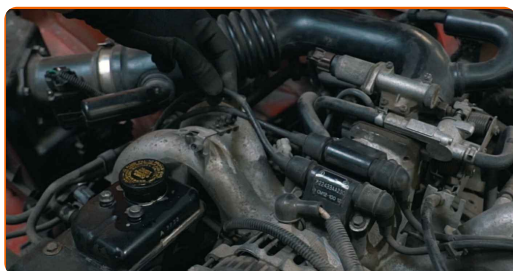
The main types of ignition coils:

- Coil pack or single coil. This supplies high voltage current to the spark plugs of all cylinders or to the distributor
- Pencil coils. Each of these is responsible for the operation of a particular cylinder's spark plug

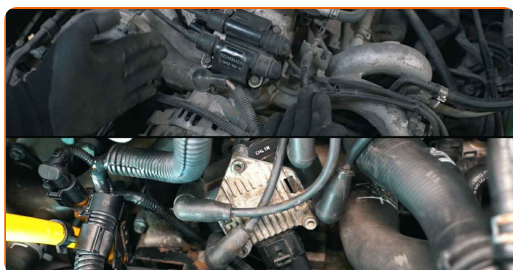
3 The coil pack is located on top of the engine



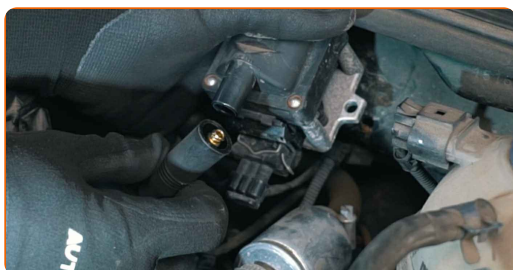
4 The high voltage wires run from it to the spark plugs



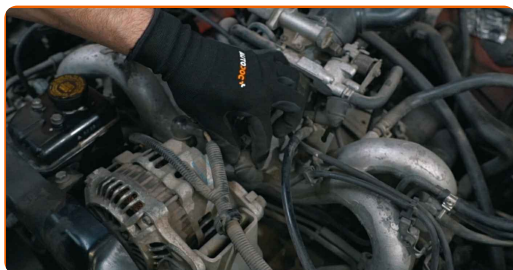
5 The component is usually located near the spark plugs



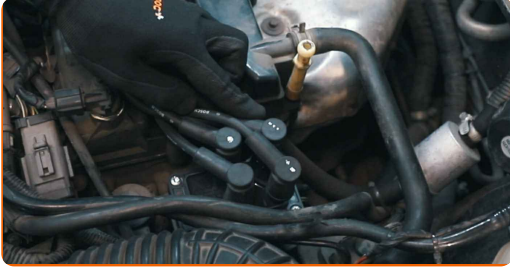
6 Pry up and unclip the caps of the high voltage cables



7 Draw the wires to different sides to prevent mixing them up when reinstalling



**8** To indicate the installation order of the high voltage wires, make marks on their caps



**Be careful!**

- Incorrect connection of the wires causes the engine to malfunction or not start at all

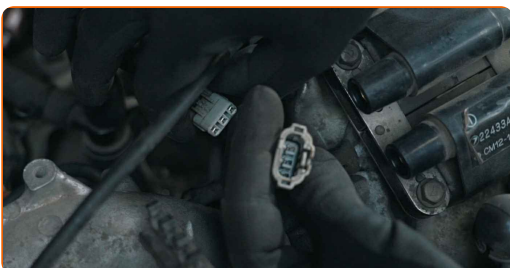
**9** On some ignition coils, the terminals are factory-numbered to make installation easy



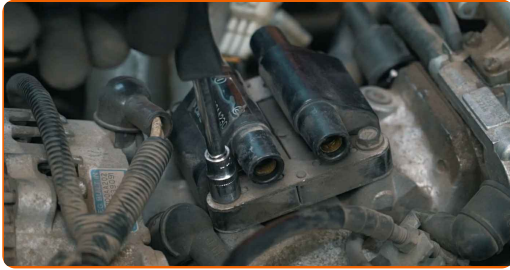
**10** Carefully examine the ignition coil connection specifics, design, and fasteners



**11** If there is a lock on the electrical connector, unclip it



**12** Unscrew the fasteners and remove the part



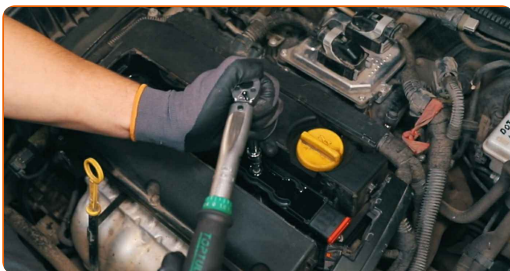
**13** Check the high voltage wires for damage and corrosion of the connectors



**14** Install a new ignition coil in the mounting seat



**15** Tighten the fasteners with a torque wrench to the manufacturer's recommended torque



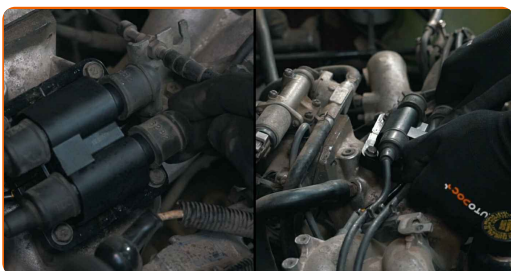
**AUTODOC recommends:**

- If necessary, clean and treat the ignition coil connector

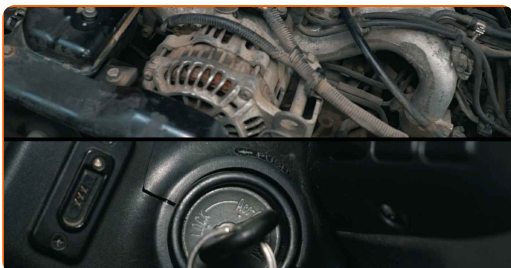
**16** Attach the electrical connector of the ignition coil



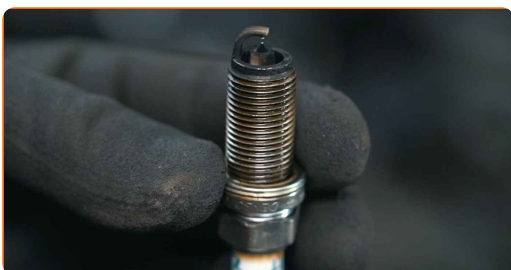
**17** Connect the high voltage wires in the correct order



**18** Check that the installation is correct and then carry out a test engine start



**19** Remember to check that the spark plugs are in good condition and replace them if necessary



**AUTODOC recommends:**

- Pencil coils are installed directly into the spark plug wells
- There is no need to change all the components; only the defective one needs to be replaced

**20**

A special diagnostic tool might be required to identify a faulty ignition coil



**21**

Look at the design of the parts and the type of fasteners



**22**

If the electrical connector has a lock, release it





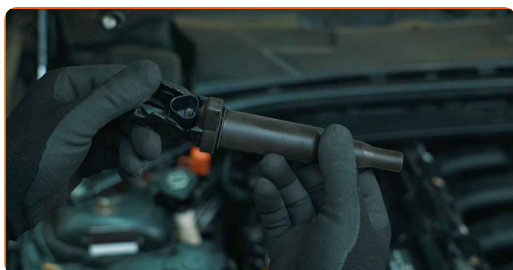
**23** Remove any additional fasteners



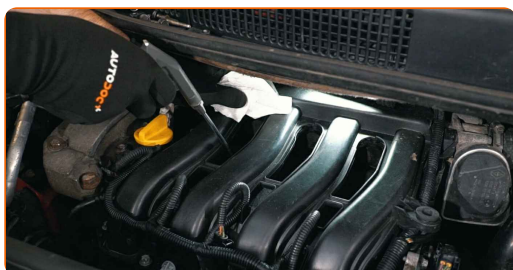
**24** Remove the ignition coil from its mounting seat



**25** Prepare a new ignition coil



**26** Inspect the spark plug well and clean it if necessary



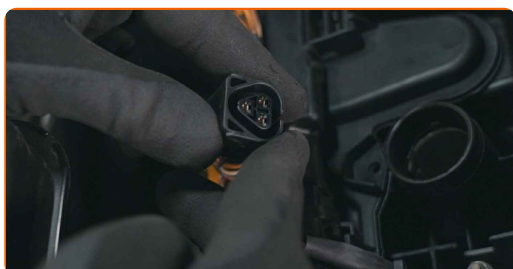
**Please note!**

- Failure of a pencil coil can cause damage to the spark plug

**27** Check the spark plug and replace it if necessary



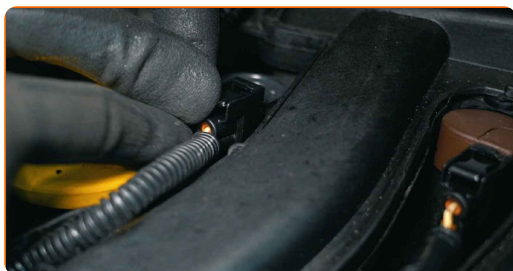
**28** Check that there are no signs of corrosion on the connectors, and that the seals and the wiring harness are in good condition



**29** Install the new ignition coil in the mounting seat



**30** Make sure that the installation is correct and connect the wiring harness



**31** Carry out a test engine start



32

When the job is complete, reinstall the engine cover



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**IGNITION COIL: A WIDE SELECTION**

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