



How to change spark
plugs on **VOLVO XC90 I**
(275) – 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:

VOLVO XC90 I (275) 2.5 T AWD, VOLVO XC90 I (275) 2.5, VOLVO XC90 I (275) 2.5 AWD

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: VOLVO V70 II (285) 2.0 T

REPLACEMENT: SPARK PLUGS – VOLVO XC90 I (275).
TOOLS YOU NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Drive socket # 7
- Drive socket # 10
- Torx bit T20
- Spark plug socket # 16
- Ratchet wrench
- Torque wrench
- Flat screwdriver
- Microfibre towel
- Fender cover

Buy tools

Replacement: spark plugs – VOLVO XC90 I (275). AUTODOC recommends:

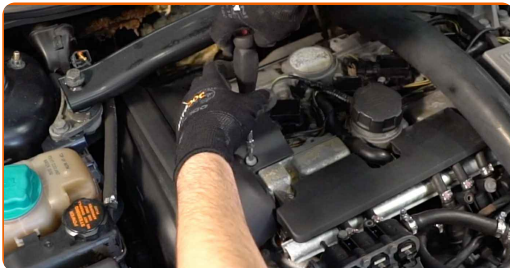
- The replacement procedure is the same for all spark plugs.
- All work should be done with the engine stopped.

REPLACEMENT: SPARK PLUGS – VOLVO XC90 I (275). RECOMMENDED SEQUENCE OF STEPS:

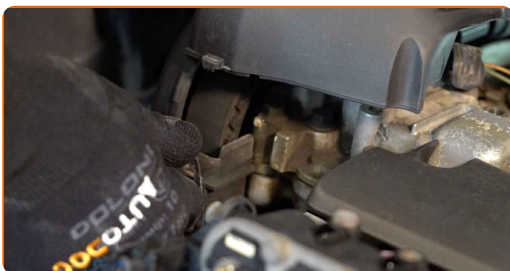
1 Open the hood.

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

3 Unscrew the engine cover fastener. Use Torx T20. Use a ratchet wrench.



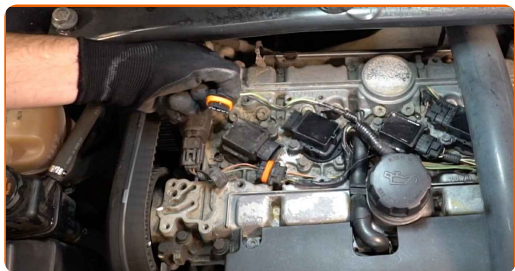
4 Remove the engine cover.



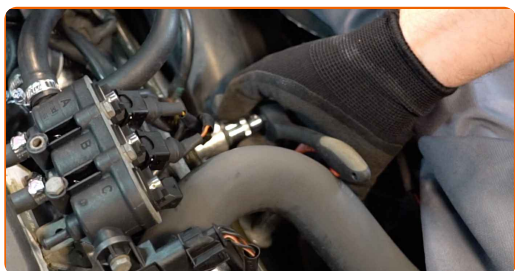
Replacement: spark plugs – VOLVO XC90 I (275). Tip:

- Raise the engine cover, holding it on two sides simultaneously.

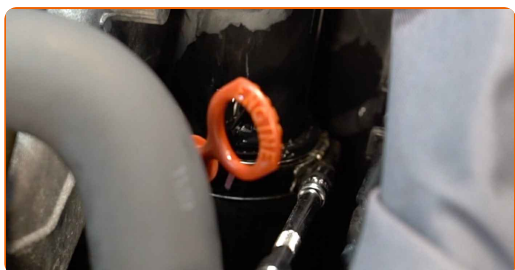
- 5 Unplug the connectors from the ignition coils.



- 6 Disconnect the air intake pipe fastening. Use a drive socket #10. Use a ratchet wrench.



- 7 Detach the air intake hose clamp. Use a drive socket #7. Use a ratchet wrench.



- 8 Remove the air intake pipe.



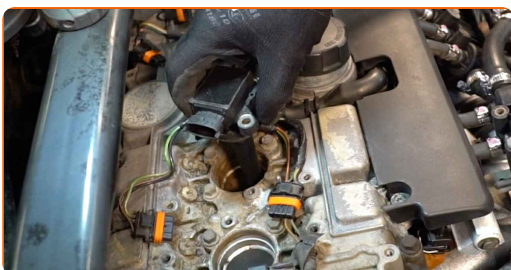
9 Cover the air intake hose with a microfibre towel to prevent dust and dirt from getting into the system.



10 Unscrew the ignition coil bracket. Use a drive socket #10.



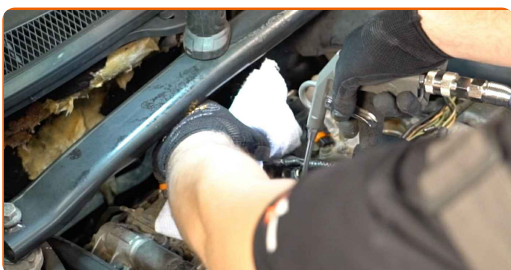
11 Take out the ignition coil from the spark plug well.



Replacement: spark plugs – VOLVO XC90 I (275). AUTODOC experts recommend:

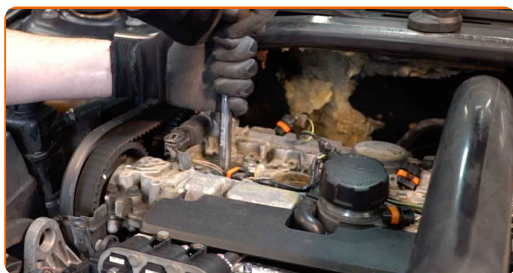
- Remember the sequence of steps for ignition coil demounting.

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



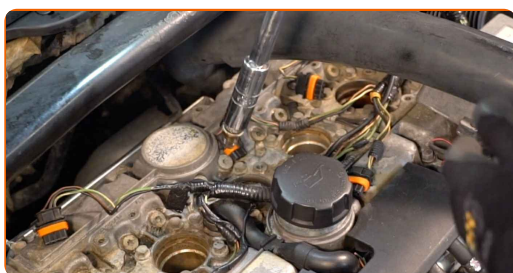
13

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. Treat the surface of the terminals of the new spark plugs. Use high-temperature grease.



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.

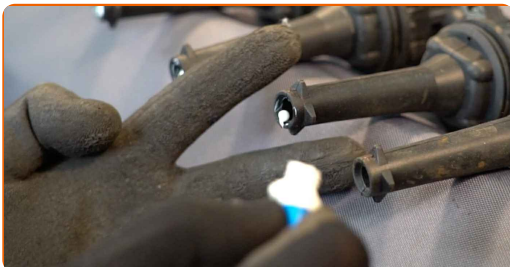


Replacement: spark plugs – VOLVO XC90 I (275). Tip from AUTODOC experts:

- 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.

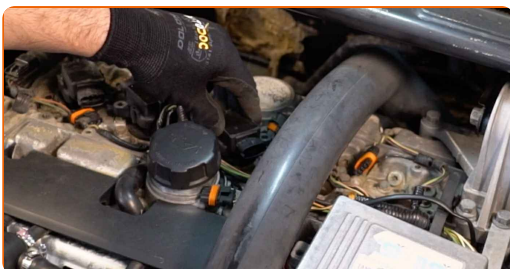
18

Treat the ignition coil tips. Use high-temperature grease. Use a flat screwdriver.



19

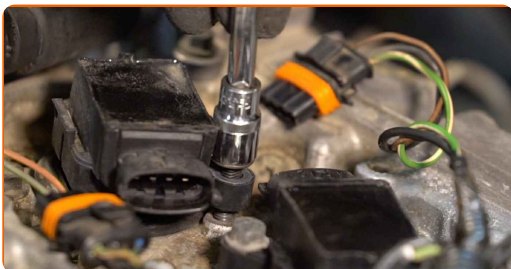
Install the ignition coils to the spark plug wells. Make sure you hear a click indicating that it is locked in place.



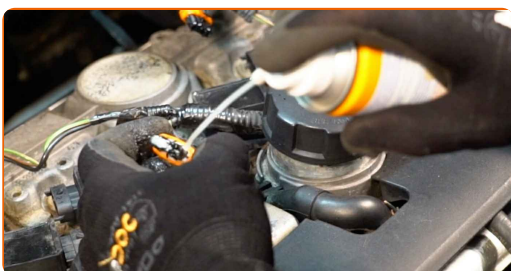
Replacement: spark plugs – VOLVO XC90 I (275). Tip from AUTODOC:

- Follow the installation sequence.

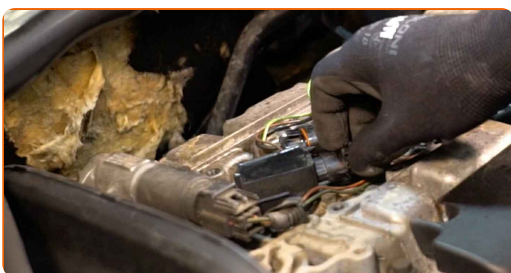
20 Tighten the fasteners of the ignition coils. Use a drive socket #10. Use a torque wrench. Tighten it to 8 nm torque.



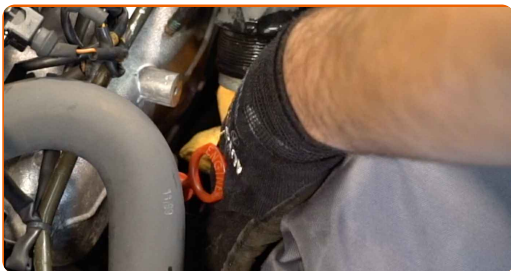
21 Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.



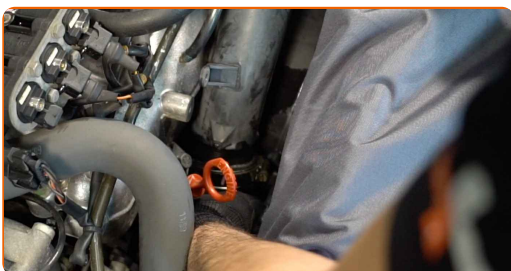
22 Plug in the connectors of the ignition coils. Make sure you hear a click indicating that it is locked in place.



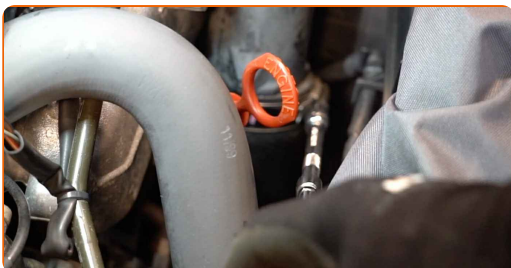
23 Remove the microfibre towel from the air intake hose.



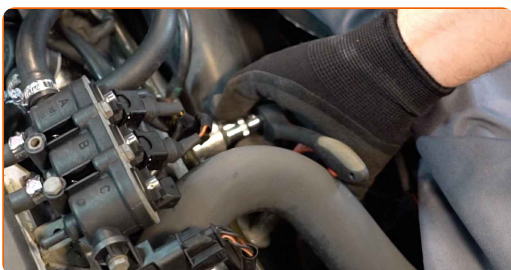
24 Install the air intake pipe and secure it.



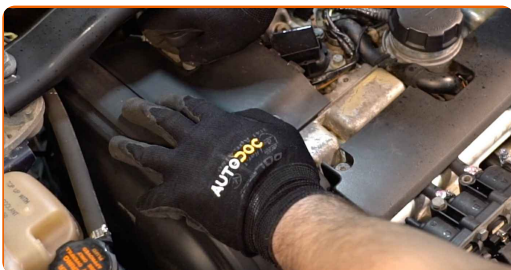
25 Fasten the clamp on the air intake hose. Use a drive socket #7. Use a ratchet wrench.



26 Screw in the fastener of the air intake pipe. Use a drive socket #10. Use a ratchet wrench.



27 Install the engine cover and secure it.



28

Screw in the engine cover fasteners. Use Torx T20. Use a ratchet wrench.

Replacement: spark plugs – VOLVO XC90 I (275). Professionals recommend:

- 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.

29

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

30

Shut off the engine.

31

Remove the fender protection cover.

32

Close the hood.

WELL DONE! 

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SPARK PLUGS: A WIDE SELECTION

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