



How to change spark  
plugs on **VW Golf 4** –  
replacement guide

## VIDEO TUTORIAL



### **i Important!**

This replacement procedure can be used for:

VW GOLF III (1H1) 2.0 GTI 16V, VW PASSAT (3A2, 35I) 2.0 16V, VW PASSAT Variant (3A5, 35I) 2.0 16V, VW PASSAT (3A2, 35I) 1.6, VW GOLF III (1H1) 1.6, VW Vento (1H2) 1.6, VW GOLF III Variant (1H5) 1.6, VW Golf III Convertible (1E7) 1.6, VW GOLF PLUS (5M1, 521) 1.6 BiFuel, VW GOLF VI (5K1) 1.6 MultiFuel, VW SHARAN (7M8, 7M9, 7M6) 2.0, VW Polo Classic (6V2) 1.6, VW PASSAT (3B2) 1.6, VW PASSAT (3B2) 1.8, VW Golf VI Variant (AJ5) 1.6 MultiFuel, (+ 90)

The steps may slightly vary depending on the car design.

## REPLACEMENT: SPARK PLUGS – VW GOLF 4. TOOLS YOU'LL NEED:



- All-purpose cleaning spray
- High-temperature anti-seize lubricant
- Drive socket # 10
- Drive socket # 13
- Spark plug socket # 16
- HEX bit No.H6.
- Torx bit T25
- Combination spanner #10
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Round-nose pliers
- Microfibre towel
- Fender cover

**BUY TOOLS**

### Replacement: spark plugs – VW Golf 4. Professionals recommend:

- The replacement procedure is the same for all spark plugs.
- Warning! Shut down the engine before starting any work – VW Golf 4

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

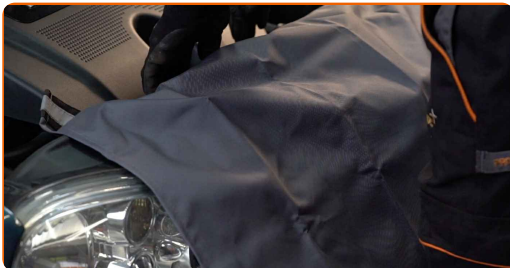
1

Open the hood.



2

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



3

Remove the engine cover.

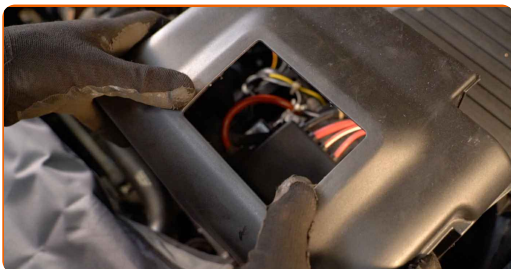


### Replacement: spark plugs – VW Golf 4. Tip:

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

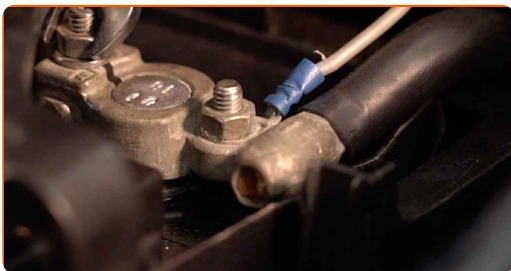
4

Remove the battery cover.



5

Unscrew the fasteners of the car battery terminals. Use a combination spanner #10.

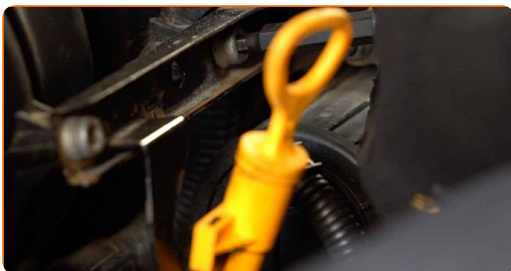


6

Remove the battery terminals.

7

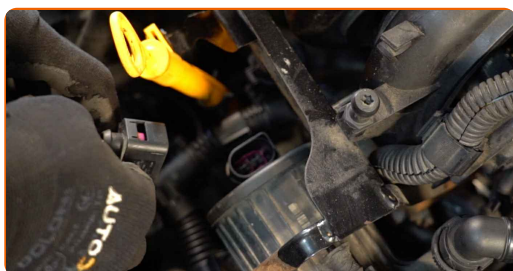
Unscrew the fastener of the secondary air pump bracket. Use HEX No.H6. Use a ratchet wrench.



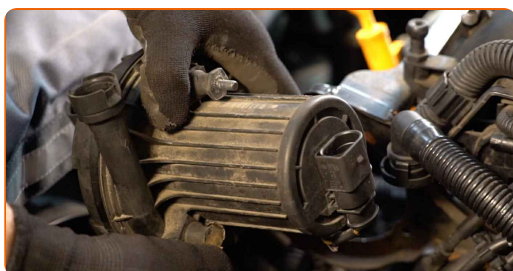
- 8 Unscrew the fastener connecting the secondary air pump to its bracket. Use a drive socket #10. Use a ratchet wrench.



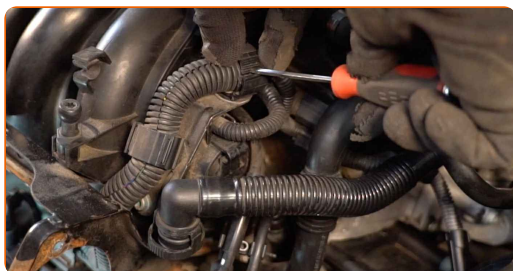
- 9 Detach the pipes and the connector from the secondary air pump.



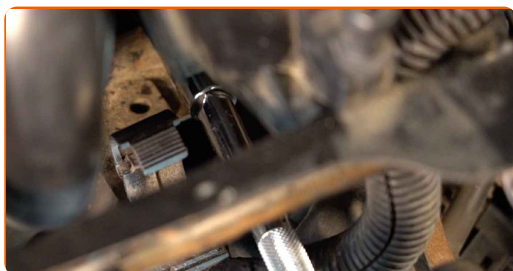
- 10 Remove the secondary air pump from its bracket.



- 11 Detach the retainers of the ignition cables. Use a flat screwdriver.

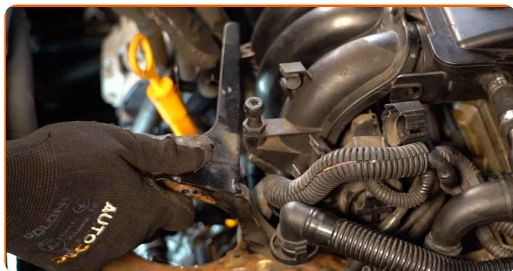


- 12 Unscrew the fastener of the secondary air pump bracket. Use a drive socket #13. Use a ratchet wrench.

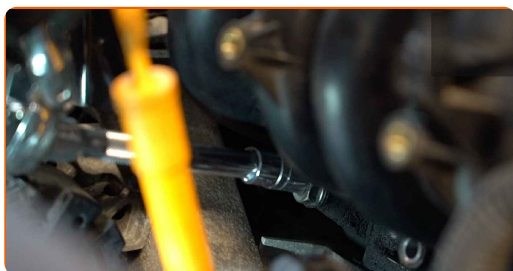




- 13** Remove the bracket of the secondary air pump.



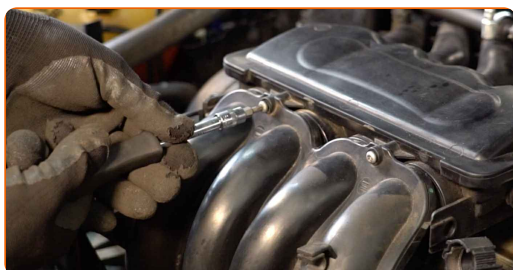
- 14** Unscrew the intake manifold fasteners. Use HEX No.H6. Use a drive socket #13. Use a ratchet wrench.



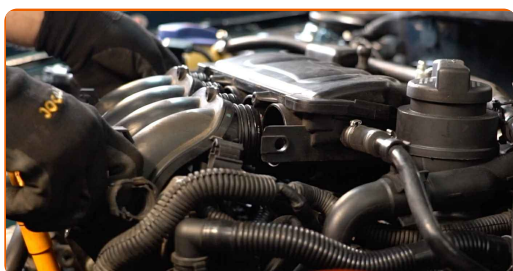
- 15** Disconnect the vacuum sensor.



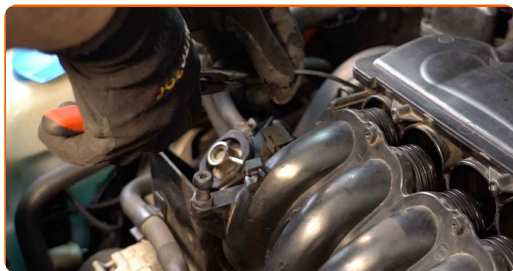
- 16** Unscrew the intake manifold fasteners. Use Torx T25. Use a ratchet wrench.



- 17** Detach the intake manifold.



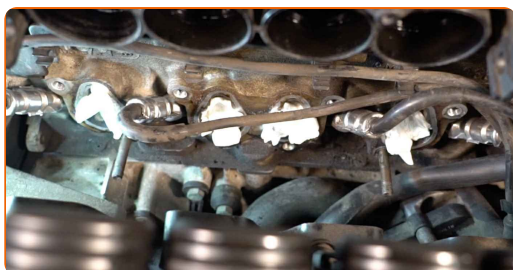
- 18 Detach the vacuum pipe. Use round-nose pliers.



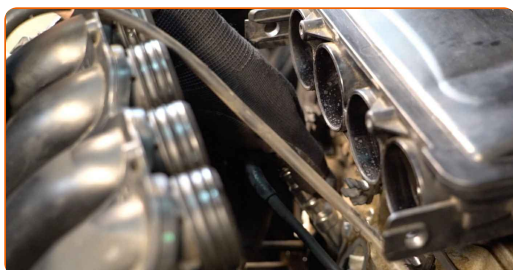
- 19 Remove the intake manifold.



- 20 Cover the intake manifold passages with a microfibre towel to prevent dust and dirt from getting inside.



- 21 Remove the spark plug wire connectors from the spark plug wells.

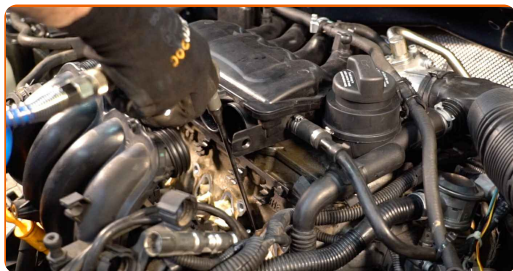


### Replacement: spark plugs – VW Golf 4. AUTODOC recommends:

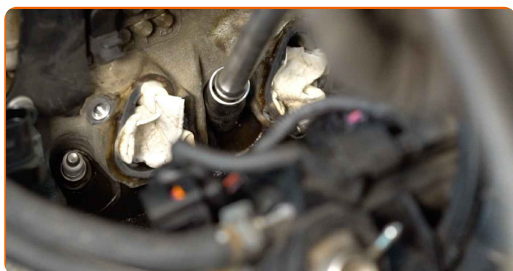
- Be careful to avoid damaging spark plug wires.
- Remember the sequence of the spark plug wires connectors.



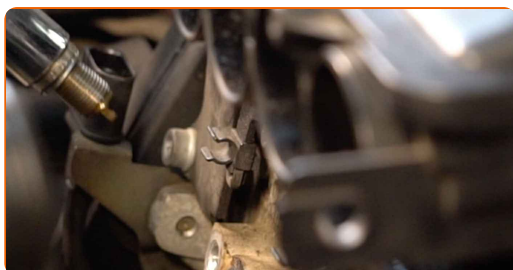
- 22** Clean dirt, dust and debris from inside the spark plug wells.



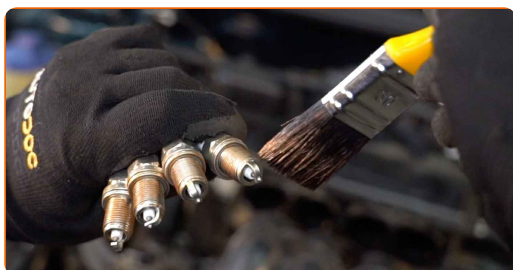
- 23** Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.



- 24** Take out the spark plugs. Use the spark plug socket #16.

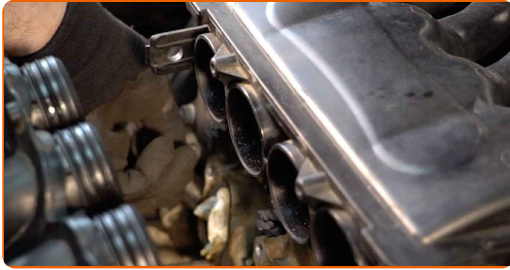


- 25** Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs.



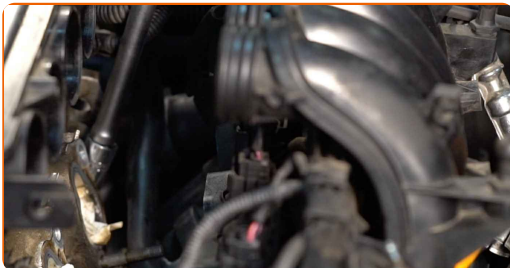
26

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



27

Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 25 nm torque.

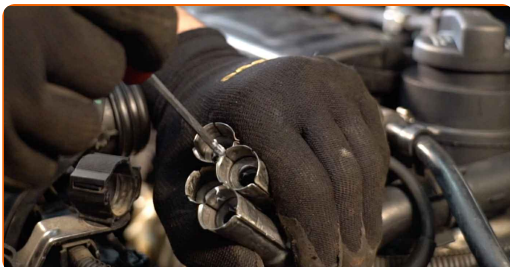


Replacement: spark plugs – VW Golf 4. AUTODOC experts recommend:

- 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.

28

Treat the spark plug wire connectors. Use high-temperature grease. Use a flat screwdriver.



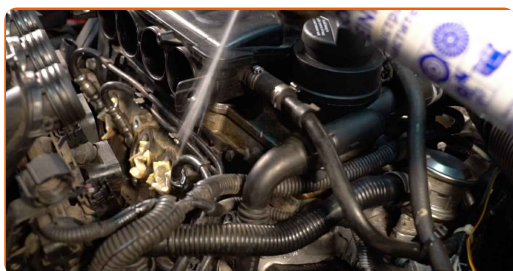
- 29 Install the spark plug wire connectors into the spark plug wells. Make sure you hear a click indicating that it is locked in place.



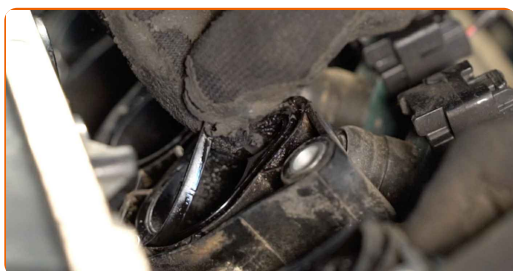
### AUTODOC recommends:

- Replacement: spark plugs – VW Golf 4. Follow the installation steps.

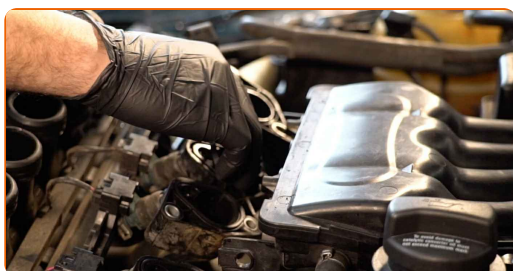
- 30 Clean the intake manifold fasteners. Use all-purpose cleaning spray.



- 31 Remove the intake manifold gasket. Use a flat screwdriver.



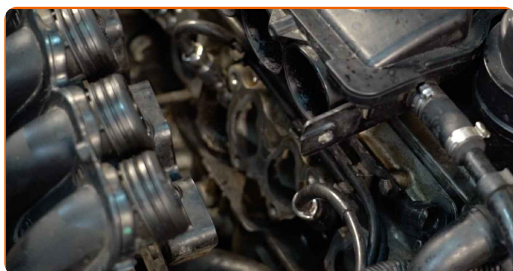
- 32 Install the new intake manifold gasket.



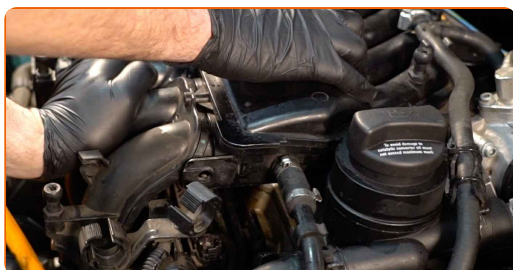
**33** Clean the intake manifold mounting seats. Use all-purpose cleaning spray.



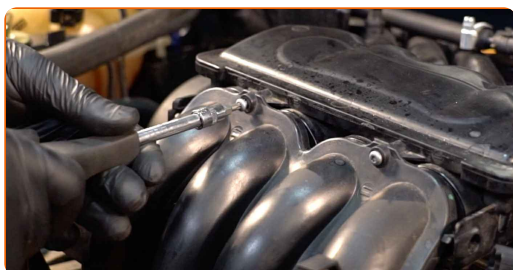
**34** Remove the microfibre towel from the intake manifold.



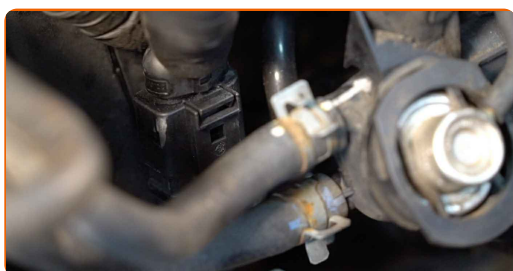
**35** Install the intake manifold.



**36** Tighten the intake manifold fasteners. Use Torx T25. Use a ratchet wrench.



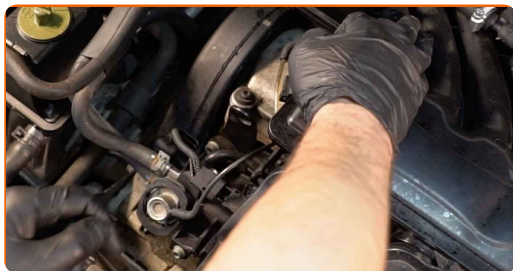
**37** Connect the vacuum sensor.





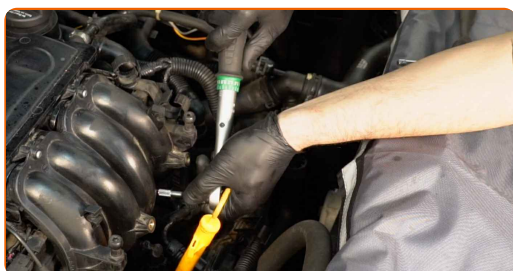
38

Attach the vacuum pipe.



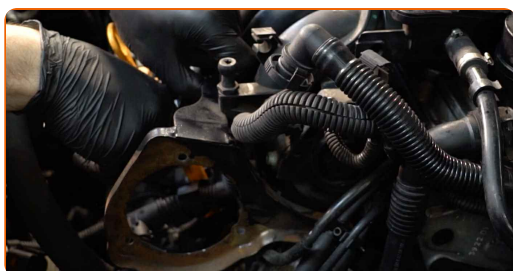
39

Tighten the intake manifold fasteners. Use HEX No.H6. Use a drive socket #13. Use a ratchet wrench. Use a torque wrench. Tighten it to 15 nm torque.



40

Install the secondary air pump bracket.

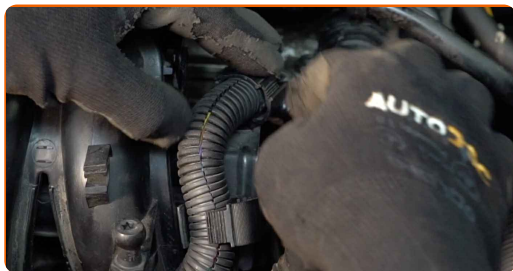


41

Screw in the fastener of the secondary air pump bracket. Use HEX No.H6. Use a drive socket #13. Use a ratchet wrench.



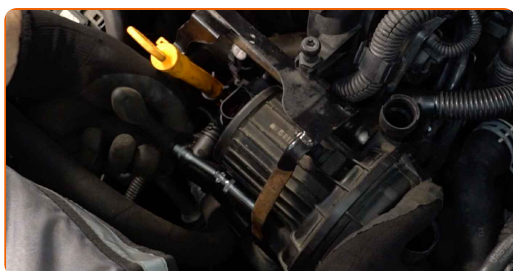
42 Attach the retainers of the ignition cables.



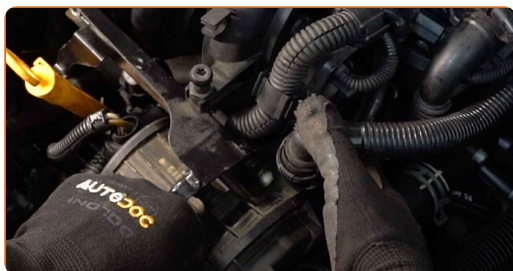
43 Secure the secondary air pump on its bracket.



44 Screw in the fastener connecting the secondary air pump to its bracket. Use a drive socket #10. Use a ratchet wrench.



45 Attach the pipes and the connector to the secondary air pump.



46 Attach the terminals to the battery.



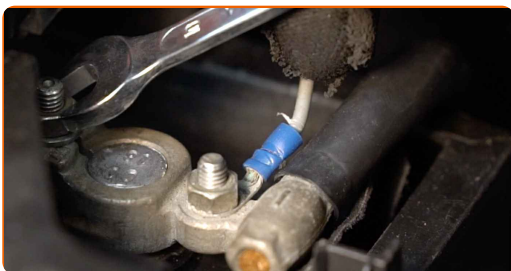


## Replacement: spark plugs – VW Golf 4. Tip from AUTODOC experts:

- Be careful! Do not mix up the positive and the negative terminals of the car battery.

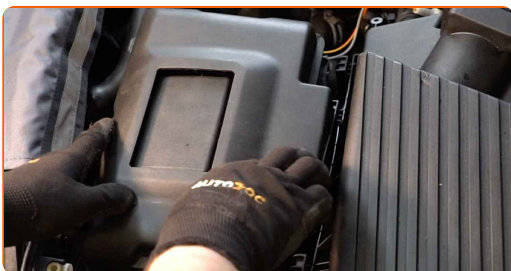
47

Screw in the fasteners of the battery terminals. Use a combination spanner #10.



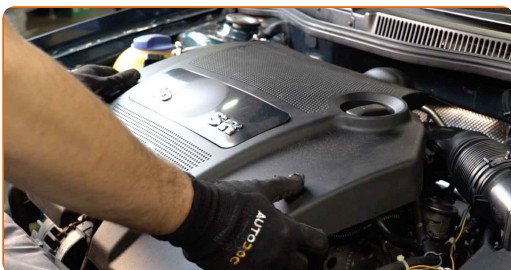
48

Install the battery cover.



49

Install the engine cover and secure it.

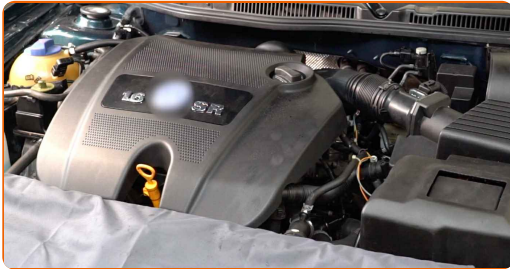


### AUTODOC recommends:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Warning! To avoid damaging the fasteners of the car during installation, do not use excessive force. VW Golf 4

50

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



51

Shut off the engine.



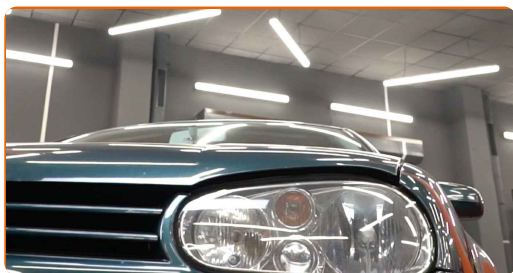
52

Remove the fender protection cover.



53

Close the hood.



**WELL DONE!** 

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