



How to change spark
plugs on **TOYOTA Matrix
Hatchback (_E14_)** –
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:

TOYOTA Matrix Hatchback (_E14_) 2.4 (AZE14_), TOYOTA Matrix Hatchback (_E14_) 2.4 4WD (AZE144)

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: TOYOTA RAV 4 II (CLA2_, XA2_, ZCA2_, ACA2_) 2.0 4WD (ACA21, ACA20)

REPLACEMENT: SPARK PLUGS – TOYOTA MATRIX HATCHBACK (_E14_). TOOLS YOU NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Torque wrench
- Drive socket # 10
- Spark plug socket # 16
- Ratchet wrench
- Microfibre towel
- Fender cover

Buy tools

Replacement: spark plugs – TOYOTA Matrix Hatchback (_E14_). Professionals recommend:

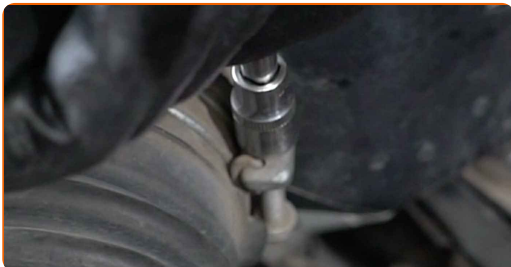
- The replacement procedure is the same for all spark plugs.
- All work should be done with the engine stopped.

REPLACEMENT: SPARK PLUGS – TOYOTA MATRIX HATCHBACK (_E14_). RECOMMENDED SEQUENCE OF STEPS:

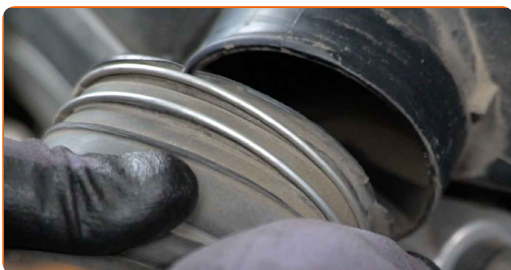
1 Open the bonnet.

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

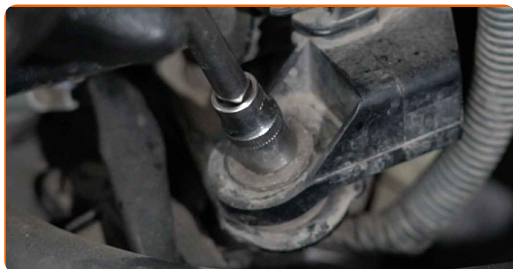
3 Loosen the fastening clamp connecting the air duct to the air filter housing. Use a drive socket #10. Use a ratchet wrench.



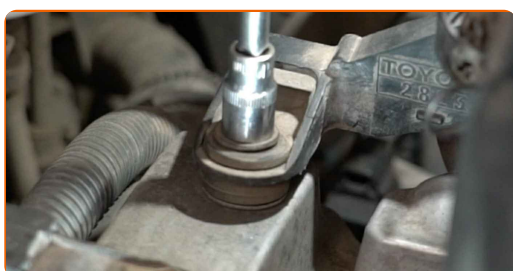
4 Disconnect the air intake pipe from the air filter housing.



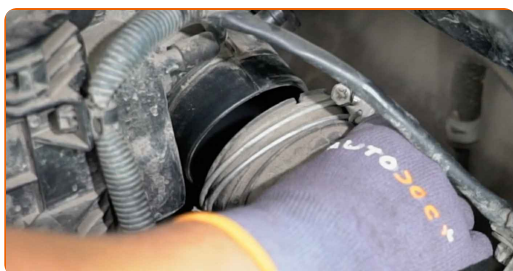
5 Unscrew the fasteners of the air filter housing. Use a drive socket #10. Use a ratchet wrench.



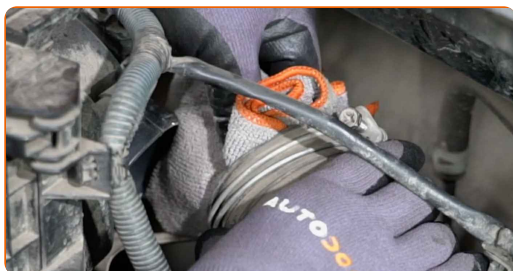
6 Loosen the fastening clamp connecting the air duct to the air filter housing. Use a drive socket #10. Use a ratchet wrench.



7 Disconnect the air intake pipe from the air filter housing.



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

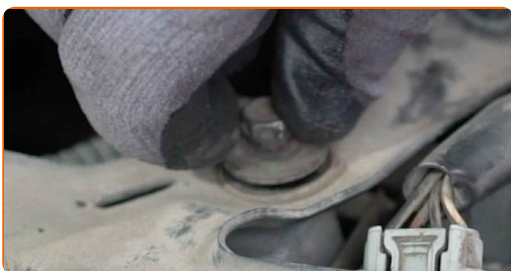


9 Move the air filter housing aside.

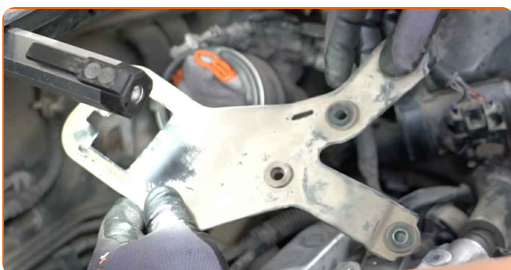
10 Unscrew the fasteners of the air filter housing bracket. Use a drive socket #10. Use a ratchet wrench.



11 Remove the fastening bolts.



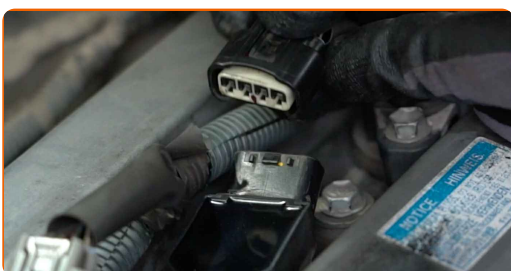
12 Remove the air filter housing bracket.



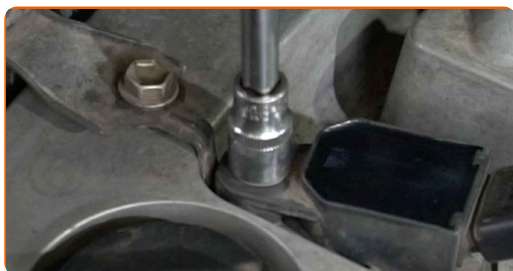
13 Clean the ignition coils.



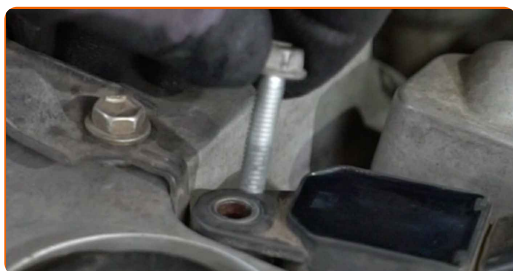
14 Unplug the connectors from the ignition coils.



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



16 Remove the fastening bolts.



17 Take out the ignition coils from the spark plug wells.



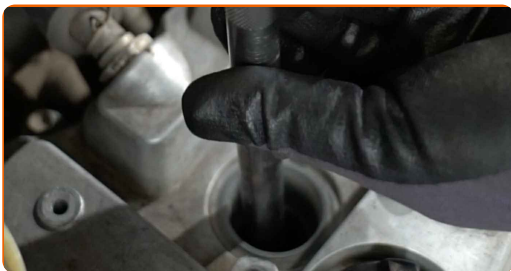
Replacement: spark plugs – TOYOTA Matrix Hatchback (_E14_). Tip:

- Remember the sequence of steps for ignition coil demounting.

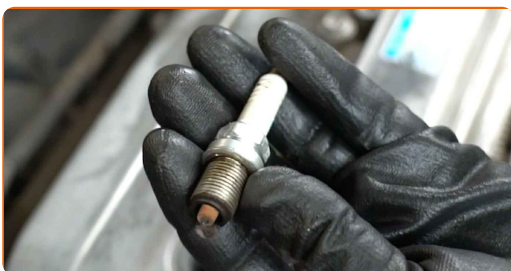
18 Clean dirt, dust and debris from inside the spark plug wells.



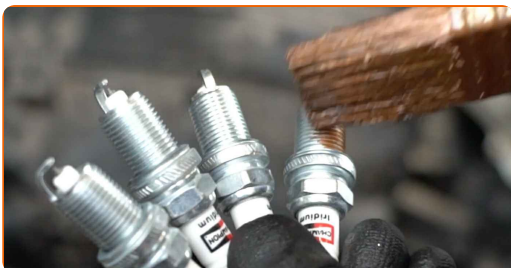
19 Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.



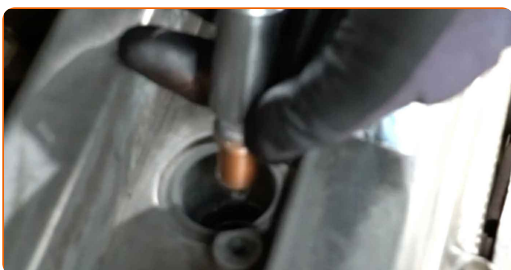
20 Take out the spark plugs.



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

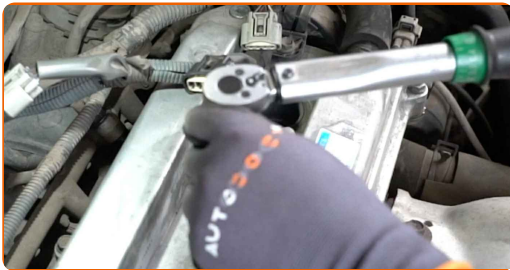


22 Install the new spark plugs into their mounting seats.



23

Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 19 nm torque.



Replacement: spark plugs – TOYOTA Matrix Hatchback (_E14_). 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.
- Lower the spark plugs into the wells carefully, making sure not to damage the electrode gap.

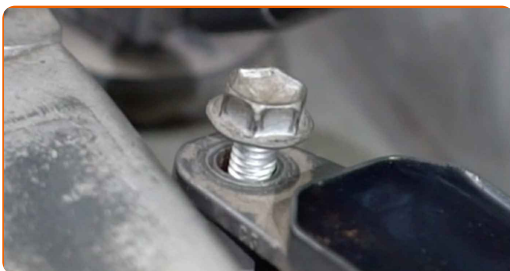
24

Install the ignition coils to the spark plug wells.

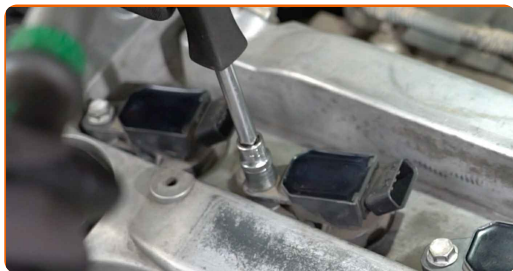


25

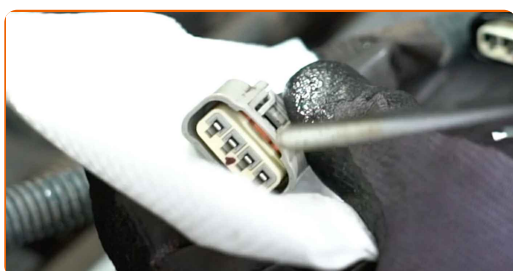
Install the fastening bolts.



26 Tighten the ignition coil fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 9 Nm torque.



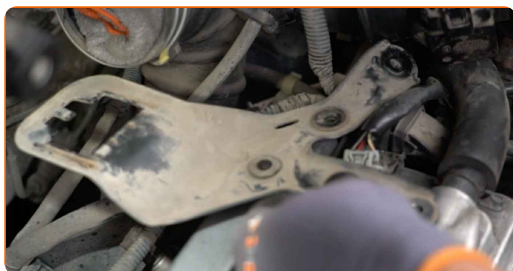
27 Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.



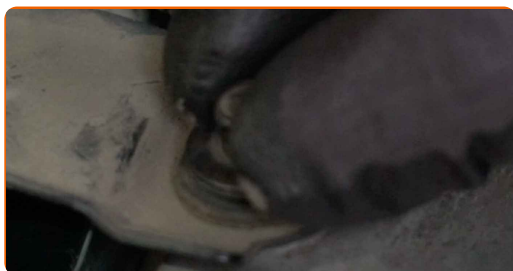
28 Plug in the connectors of the ignition coils.



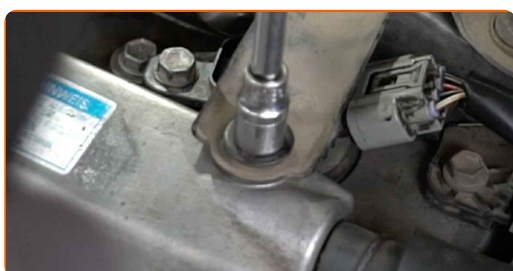
29 Install the air filter housing bracket.



30 Install the fastening bolts.



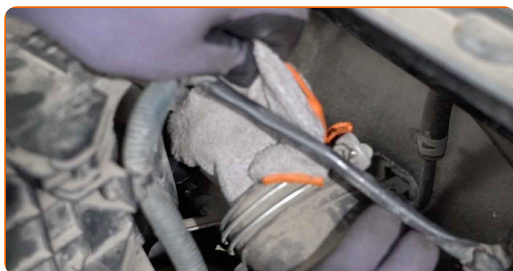
31 Tighten the fasteners of the air filter housing bracket. Use a drive socket #10. Use a torque wrench. Tighten it to 9 Nm torque.



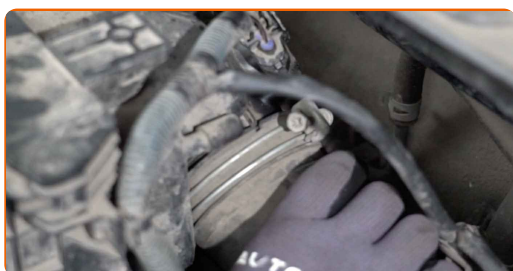
32 Install the air filter housing.



33 Remove the microfibre towel from the air intake hose.



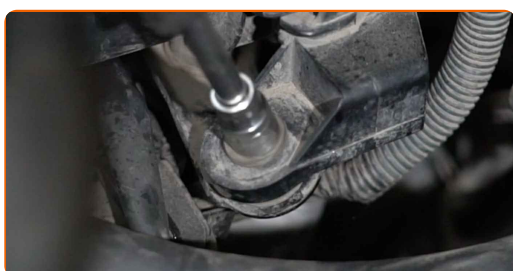
34 Connect the air intake pipe to the air filter housing.



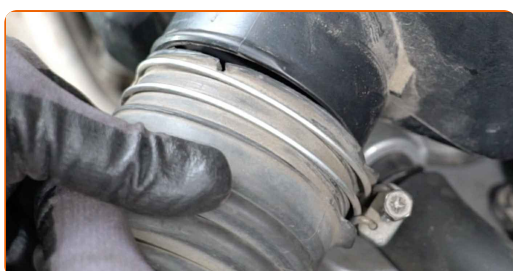
- 35** Screw the fastening clamp connecting the air duct to the air filter housing. Use a drive socket #10. Use a ratchet wrench.



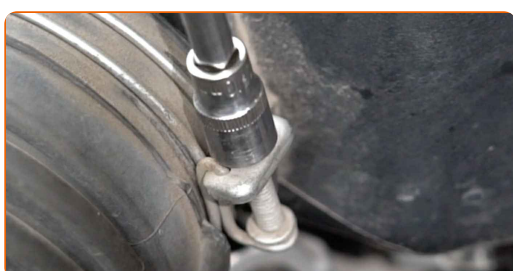
- 36** Screw in the fasteners of the air filter housing. Use a drive socket #10. Use a ratchet wrench.



- 37** Connect the air intake pipe to the air filter housing.



- 38** Screw the fastening clamp connecting the air duct to the air filter housing. Use a drive socket #10. Use a ratchet wrench.



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

- 40** Shut off the engine.

- 41** Remove the fender protection cover.

42

Close the hood.

WELL DONE! 

[VIEW MORE TUTORIALS](#)

AUTODOC – TOP QUALITY AND AFFORDABLE CAR PARTS ONLINE

AUTODOC MOBILE APP: GREAT DEALS AND CONVENIENT SHOPPING



+ AUTODOC

GET IT ON
Google Play

Download on the
App Store

Download

A GREAT SELECTION OF SPARE PARTS FOR YOUR CAR

SPARK PLUGS: A WIDE SELECTION

DISCLAIMER:

The document contains only general recommendations that may be useful for you when you perform repair or replacement work. AUTODOC shall not be liable for any loss, injury, damage of property occurring in the repair or replacement process due to incorrect use or misinterpretation of the provided information.

AUTODOC shall not be liable for any possible mistakes and uncertainties in this guide. The information provided is for information purposes only and cannot replace advice from specialists.

AUTODOC shall not be liable for incorrect or hazardous usage of equipment, tools and car parts. AUTODOC strongly recommends to be careful and observe the safety rules when performing repair or replacement works. Remember: usage of low quality auto parts does not guarantee you the appropriate level of road safety.

© Copyright 2023 – All the contents of this website, in particular texts, photographs and graphics, are protected by copyright. All rights, including reproduction, publication, editing and translation rights, are reserved by AUTODOC SE.