



How to change spark
plugs on **TOYOTA Matrix**
MPV (_E13_) –
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 MPV (_E13_) 1.8 VVTi

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 Yaris Hatchback (_P9_) 1.3 VVT-i (SCP90_)

REPLACEMENT: SPARK PLUGS – TOYOTA MATRIX MPV (_E13_). LIST OF THE TOOLS YOU'LL 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 MPV (_E13_). Tip from AUTODOC:

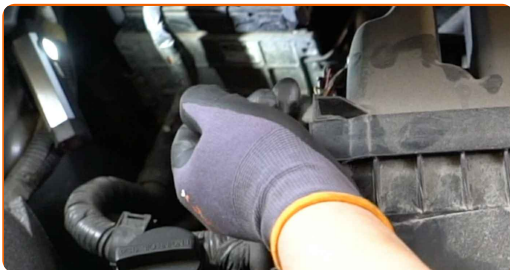
- The replacement procedure is the same for all spark plugs.
- Please note: all work on the car – TOYOTA Matrix MPV (_E13_) – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet.

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

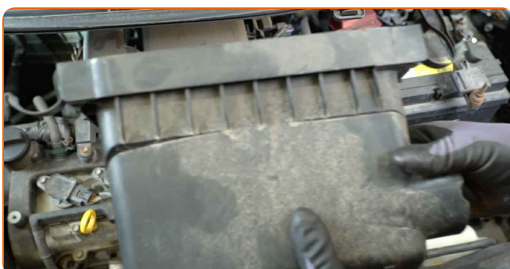
3 Release the air filter cover clips.



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



5 Take off the filter lid.



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



7 Clean the ignition coils.



8 Unscrew the fasteners of the wiring harness bracket. Use a drive socket #10. Use a ratchet wrench.



9 Remove the fastening bolts.



10 Remove the oil dipstick.



11 Move the wiring harness bracket aside.



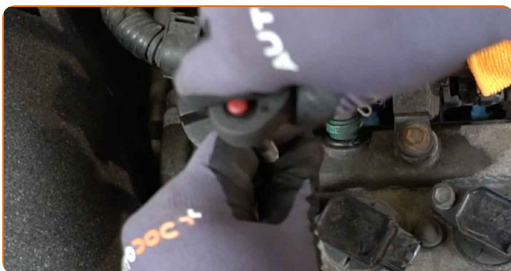
12 Insert the oil dipstick.



13 Unplug the connectors from the ignition coils.



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



15 Remove the fastening bolts.



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



Replacement: spark plugs – TOYOTA Matrix MPV (_E13_). Professionals recommend:

- Remember the sequence of steps for ignition coil demounting.

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



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

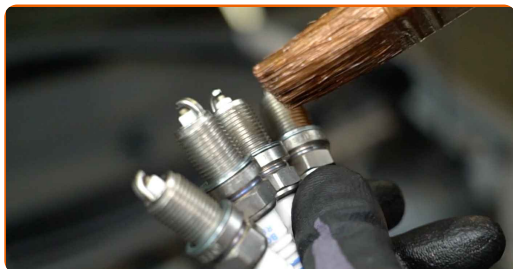


19 Take out the spark plugs.



20

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



21

Install the new spark plugs into their mounting seats.



AUTODOC recommends:

- Lower the spark plugs into the wells carefully, making sure not to damage the electrode gap.

22

Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 18 nm torque.



Replacement: spark plugs – TOYOTA Matrix MPV (_E13_). Tip from AUTODOC:

- 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.

23

Install the ignition coils to the spark plug wells.



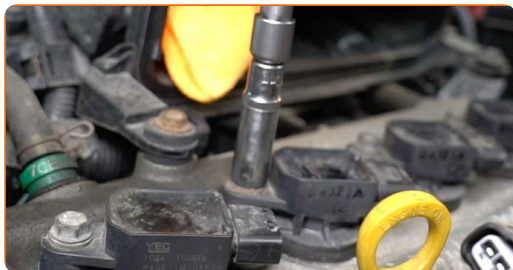
24

Install the fastening bolts.



25

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



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



- 27 Plug in the connectors of the ignition coils.



- 28 Remove the oil dipstick.



- 29 Reinstall the wiring harness bracket.



- 30 Insert the oil dipstick.



31 Install the fastening bolts.



32 Tighten the fasteners of the wiring harness bracket. Use a drive socket #10. Use a torque wrench. Tighten it to 9 Nm torque.



33 Clean the air filter cover and housing.



34 Remove the microfibre towel from the air intake hose.



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



36 Reinstall the air filter cover. Fasten it.



37 Press the air filter cover clips into place.



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

39 Shut off the engine.

40 Remove the fender protection cover.

41 Close the hood.

WELL DONE! 

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SPARK PLUGS: A WIDE SELECTION

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