



How to change spark
plugs on **NISSAN X-
TRAIL (T31)** –
replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

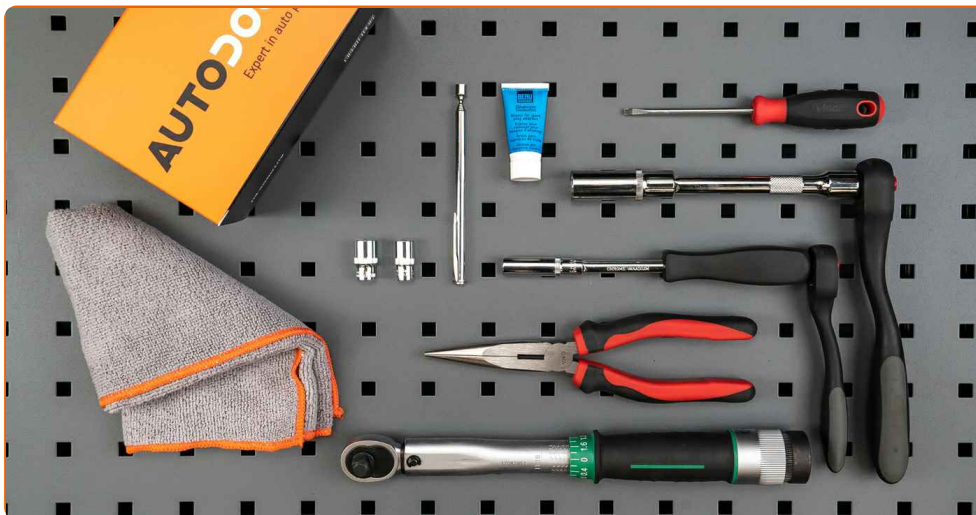
i Important!

This replacement procedure can be used for:
NISSAN X-TRAIL (T31) 2.0, NISSAN X-TRAIL (T31) 2.0 FWD

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: NISSAN Qashqai / Qashqai +2 I (J10, NJ10) 1.6

REPLACEMENT: SPARK PLUGS – NISSAN X-TRAIL (T31). TOOLS YOU'LL NEED:



- Electronic spray
- High-temperature anti-seize lubricant
- Torque wrench
- Spark plug socket # 16
- Drive socket # 8
- Drive socket # 10
- Ratchet wrench
- Round-nose pliers
- Flat screwdriver
- Telescoping magnet
- Fender cover

[Buy tools](#)

Replacement: spark plugs – NISSAN X-TRAIL (T31). Professionals recommend:

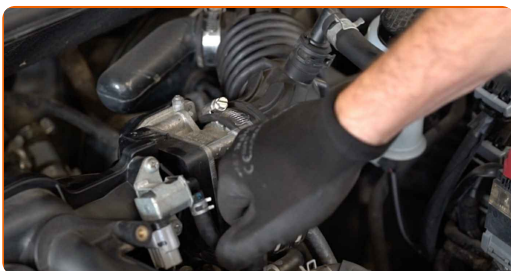
- The replacement procedure is the same for all spark plugs.
- All work should be done with the engine stopped.

REPLACEMENT: SPARK PLUGS – NISSAN X-TRAIL (T31). RECOMMENDED SEQUENCE OF STEPS:

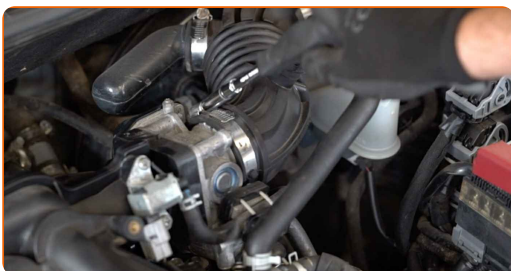
1 Open the hood.

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

3 Disconnect the crankcase ventilation hose from the air duct. Use round-nose pliers.

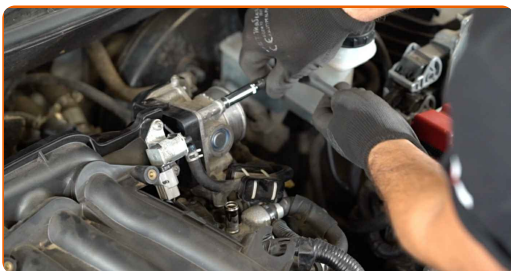


4 Unscrew the clamps and fasteners on the air filter intake pipe. Use a drive socket #10. Use a ratchet wrench.

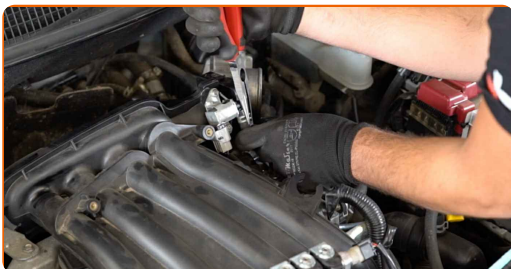


5 Disconnect the air intake pipe from the air filter housing.

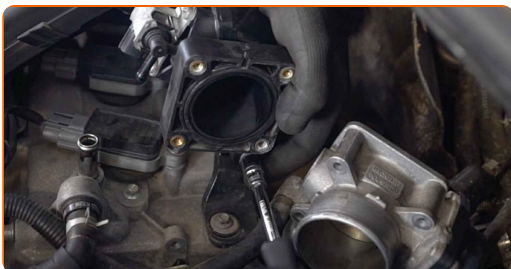
- 6 Unscrew the fasteners connecting the throttle valve to the intake manifold. Use a drive socket #8. Use a ratchet wrench.



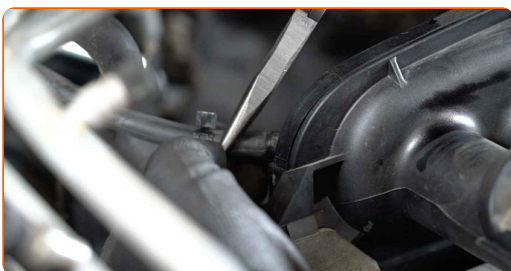
- 7 Release the clamp and detach the connector and the vacuum hose from the intake manifold near the throttle valve. Use round-nose pliers.



- 8 Unscrew the fasteners of the intake manifold bracket. Use a drive socket #10.

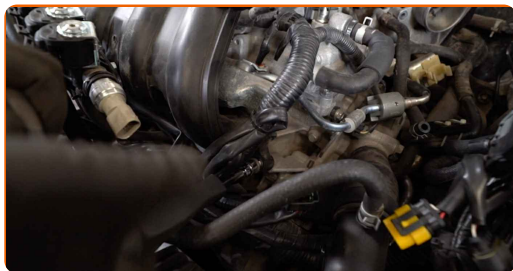


- 9 Detach the vacuum booster hose from the intake manifold.



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Unscrew the intake manifold fasteners. Use a drive socket #10. Use a ratchet wrench.



11

Remove the intake manifold.



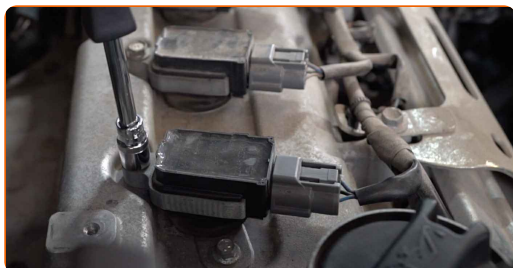
12

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

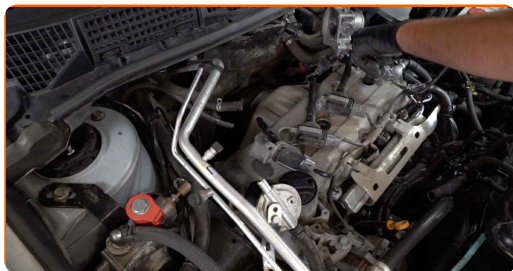


13

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



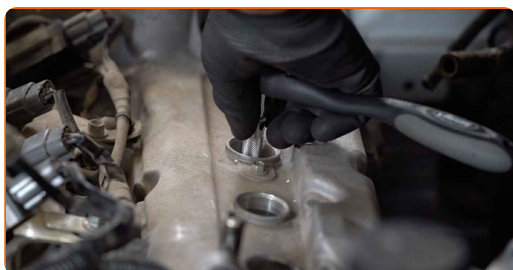
- 14** Take out the ignition coil from the spark plug well.



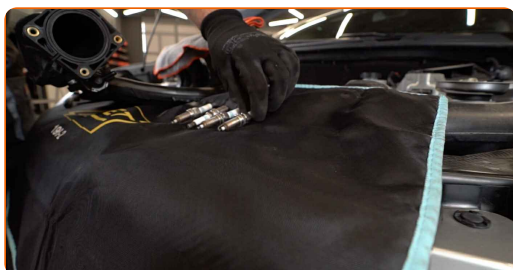
- 15** Clean dirt, dust and debris from inside the spark plug well.



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



- 17** Take out the spark plugs. Use a telescoping magnet.

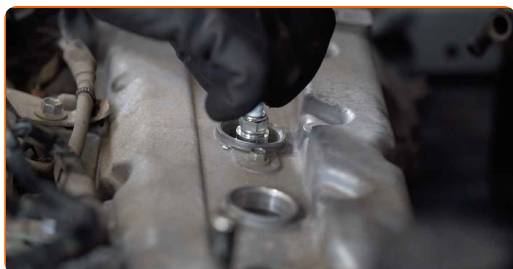


- 18 Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs.

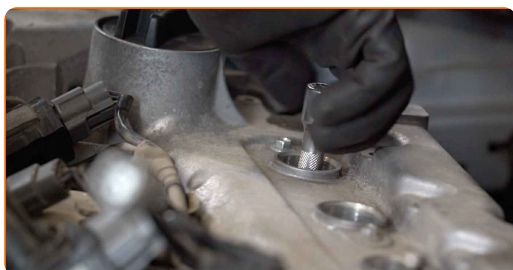


- 19 Treat the surface of the terminals of the new spark plugs. Use electronic spray.

- 20 Install the new spark plugs into their mounting seats.



- 21 Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 19.6 nm torque.



AUTODOC recommends:

- 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.

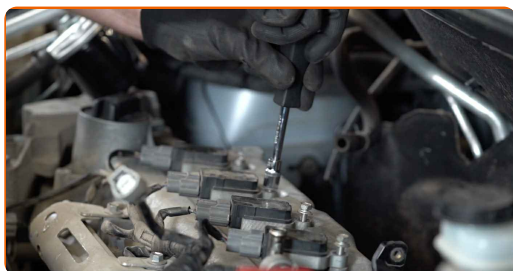
- 22 Install the ignition coil to the spark plug well. Make sure you hear a click indicating that it is locked in place.



Replacement: spark plugs – NISSAN X-TRAIL (T31). Tip:

- Follow the installation sequence.

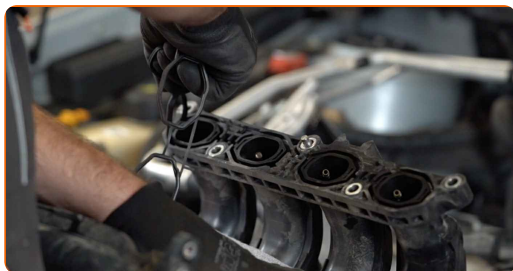
- 23 Tighten the ignition coil fastening. Use a drive socket #10. Use a torque wrench. Tighten it to 7 nm torque.



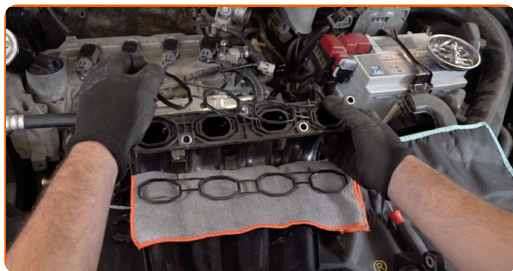
- 24 Remove the microfibre towel from the intake manifold.



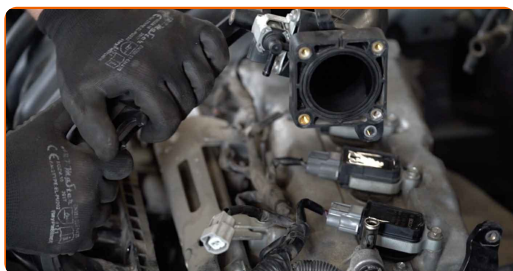
- 25 Remove the intake manifold gasket. Use a flat screwdriver.



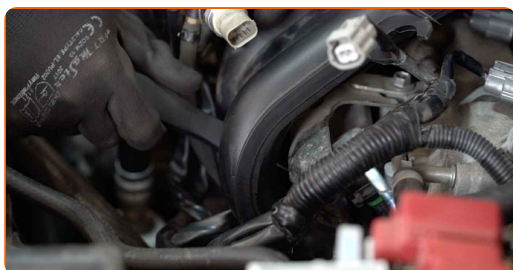
- 26** Install the new intake manifold gasket.



- 27** Install the intake manifold.



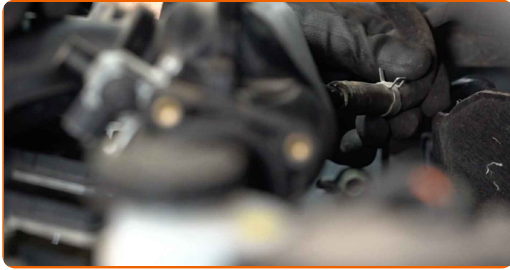
- 28** Tighten the intake manifold fasteners. Use a drive socket #10. Use a torque wrench. Tighten it to 27 nm torque.



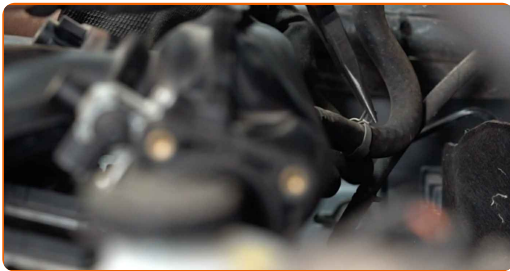
- 29** Tighten the fasteners of the intake manifold bracket. Use a drive socket №10. Use a torque wrench. Tighten it to 10 nm torque.



- 30** Attach the vacuum booster hose to the intake manifold.



- 31** Squeeze and install the vacuum booster hose clamp. Use round-nose pliers.



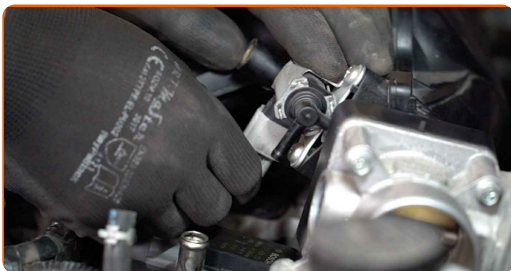
- 32** Install the throttle valve on the intake manifold.



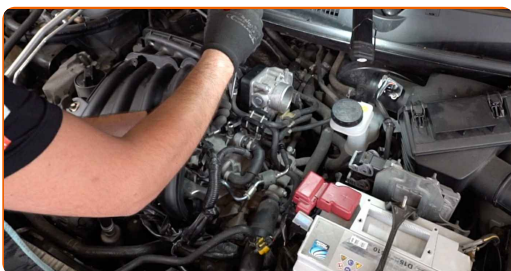
- 33** Tighten the throttle valve fasteners. Use a drive socket #8. Use a torque wrench. Tighten it to 10 nm torque.



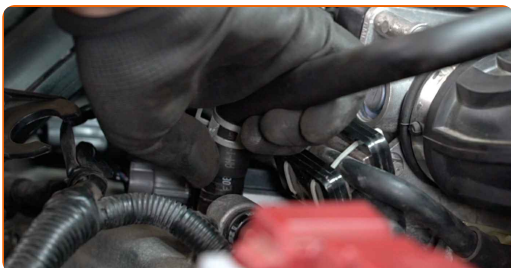
- 34** Attach the connector and the vacuum hose to the intake manifold near the throttle valve. Use round-nose pliers.



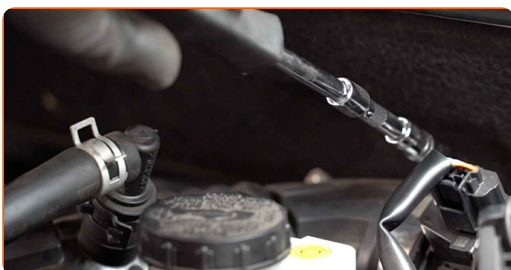
- 35** Connect the air intake pipe to the air filter housing.



- 36** Connect the crankcase ventilation hose to the air duct. Use round-nose pliers.



- 37** Tighten the clamp and fasteners on the air filter intake pipe. Use a drive socket #10. Use a ratchet wrench.



- 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.

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Remove the fender protection cover.

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Close the hood.

WELL DONE! 

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SPARK PLUGS: A WIDE SELECTION

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