



How to change ignition  
coil on **NISSAN X-Trail**  
**(T31)** – replacement  
guide

## SIMILAR VIDEO TUTORIAL



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

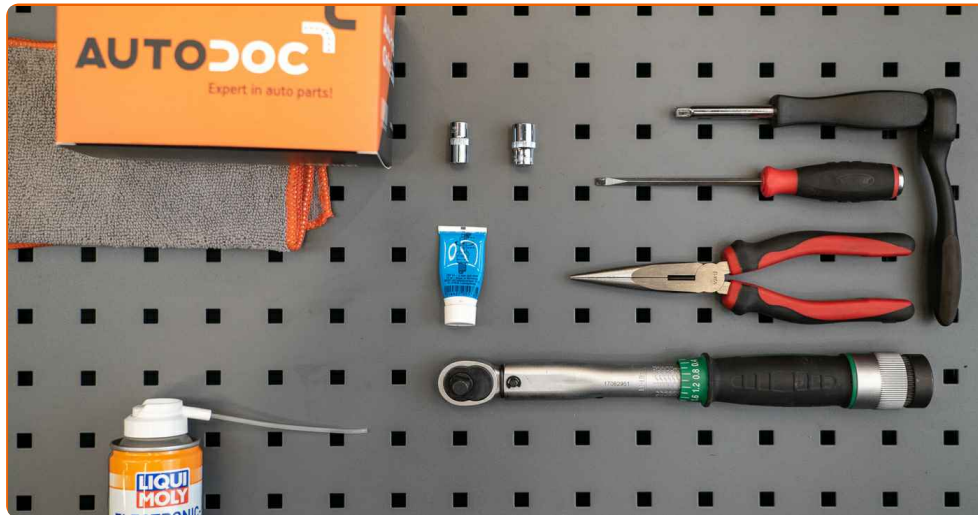
### Important!

This replacement procedure can be used for:  
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: IGNITION COIL – NISSAN X-TRAIL (T31). LIST OF THE TOOLS YOU'LL NEED:



- Electronic spray
- Torque wrench
- Drive socket # 8
- Drive socket # 10
- Ratchet wrench
- Round-nose pliers
- Flat screwdriver
- Microfibre towel
- Fender cover

[Buy tools](#)

Replacement: ignition coil – NISSAN X-Trail (T31). AUTODOC experts recommend:

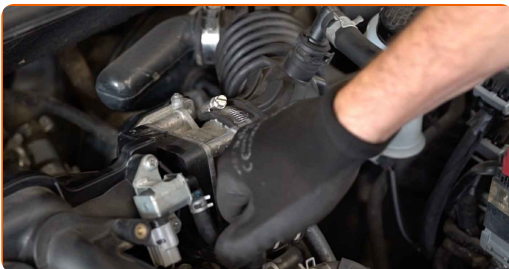
- The replacement procedure is the same for the ignition coils of all cylinders.
- All work should be done with the engine stopped.

## REPLACEMENT: IGNITION COIL – NISSAN X-TRAIL (T31). USE THE FOLLOWING PROCEDURE:

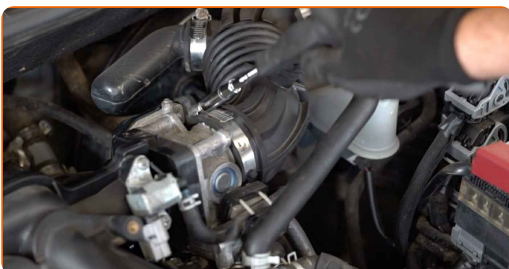
1 Open the hood.

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.

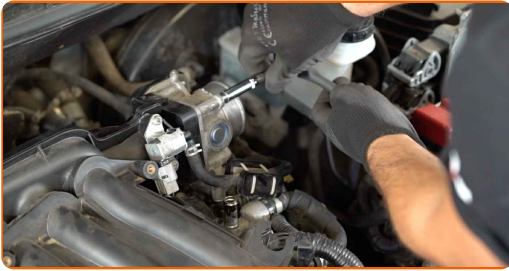


4 Unscrew the clamps and fasteners on the air filter intake pipe. Use a drive socket #10. Use a ratchet wrench.

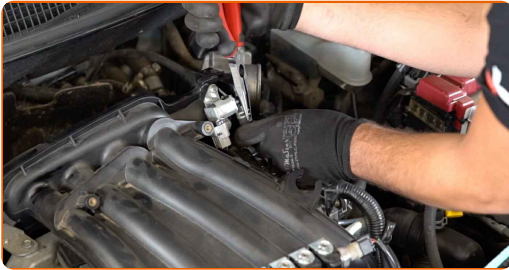


5 Disconnect the air intake pipe from the air filter housing.

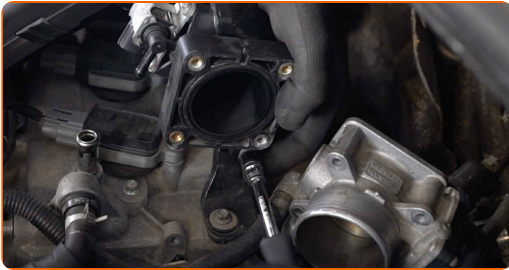
- 6** Unscrew the fasteners connecting the throttle valve to the intake manifold. Use a drive socket #8. Use a ratchet wrench.



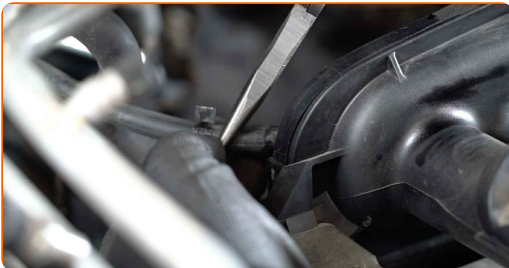
- 7** Release the clamp and detach the connector and the vacuum hose from the intake manifold near the throttle valve. Use round-nose pliers.



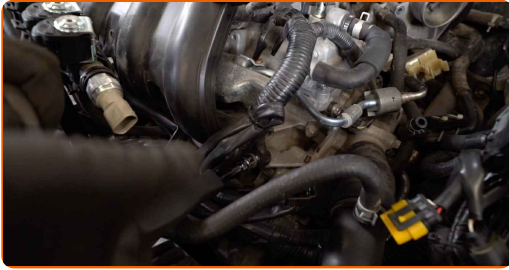
- 8** Unscrew the fasteners of the intake manifold bracket. Use a drive socket #10.



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



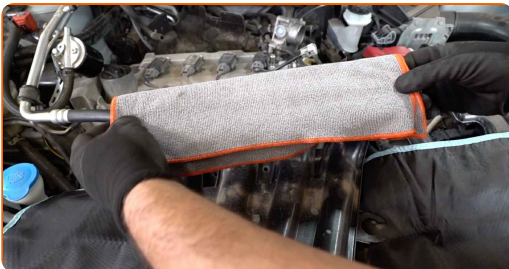
**10** Unscrew the intake manifold fasteners. Use a drive socket #10. Use a ratchet wrench.



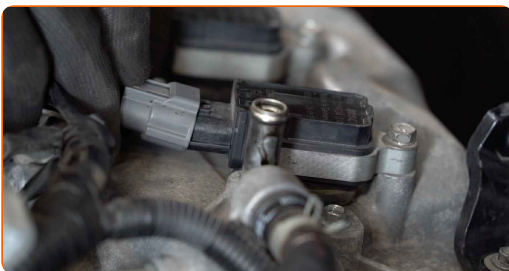
**11** Remove the intake manifold.



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



**13** Detach the connector from the ignition coil.



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

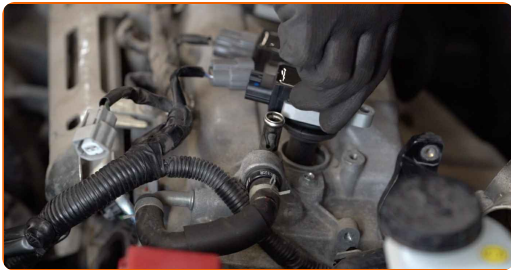


15 Take out the ignition coil from the spark plug well.



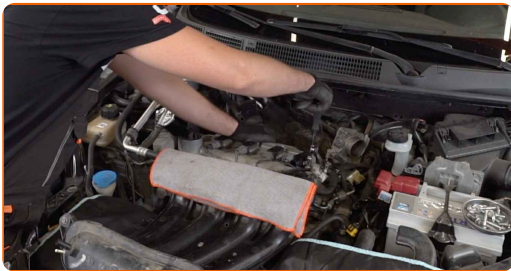
16 Clean dirt, dust and debris from inside the spark plug well.

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

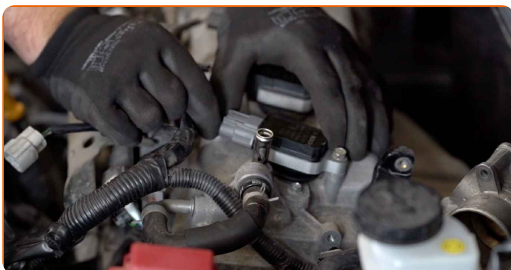


18 Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.

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



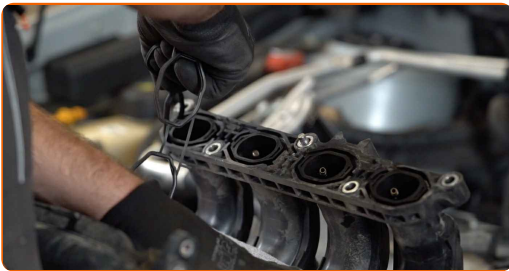
20 Plug in the ignition coil connector.



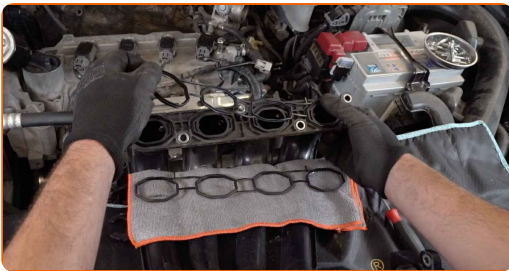
21 Remove the microfibre towel from the intake manifold.



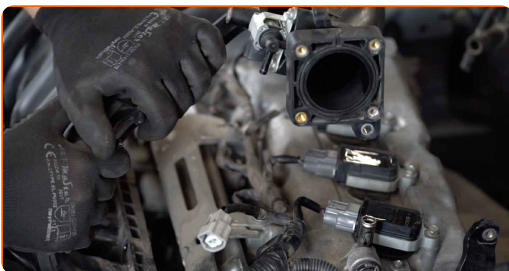
22 Remove the intake manifold gasket. Use a flat screwdriver.



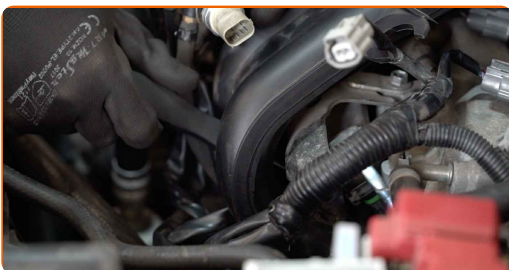
23 Install the new intake manifold gasket.



24 Install the intake manifold.



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

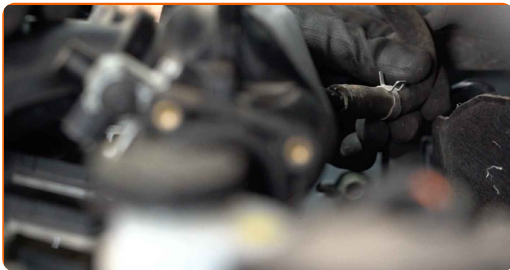




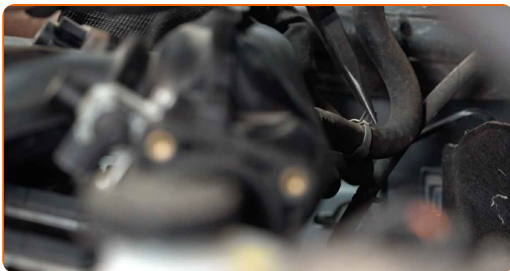
- 26 Tighten the fasteners of the intake manifold bracket. Use a drive socket #10. Use a torque wrench. Tighten it to 10 nm torque.



- 27 Attach the vacuum booster hose to the intake manifold.



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



- 29 Install the throttle valve on the intake manifold.



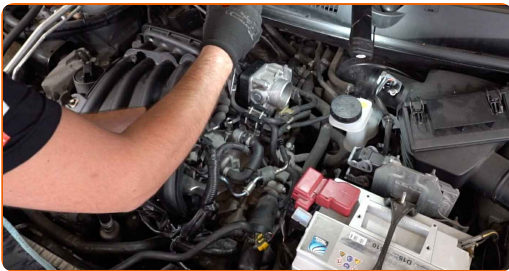
**30** Tighten the throttle valve fasteners. Use a drive socket #8. Use a torque wrench. Tighten it to 10 nm torque.



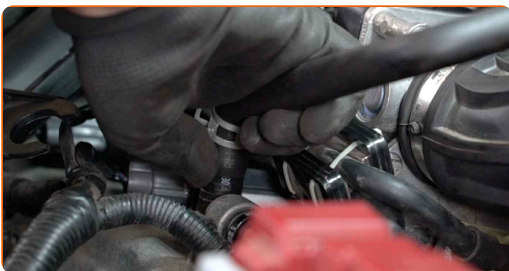
**31** Attach the connector and the vacuum hose to the intake manifold near the throttle valve. Use round-nose pliers.



**32** Connect the air intake pipe to the air filter housing.



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



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



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

**36** Shut off the engine.

**37** Remove the fender protection cover.

**38** Close the hood.

**WELL DONE!** 

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