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> uxcell Auto Parts Ignition Coil 22448-AX001 Repair Replacement Black for Nissan March MICRA NOTE User Manual

uxcell a20010900ux0282

Ignition Coil User Manual

Brand: uxcell

Model: 22448-AX001 (a20010900ux0282)

PRODUCT OVERVIEW

The uxcell Auto Parts Ignition Coil 22448-AX001 is a direct replacement component designed for specific Nissan March, MICRA, and NOTE models. This ignition coil is crucial for the vehicle's ignition system, converting the battery's low voltage into the thousands of volts required to create an electric spark in the spark plugs, igniting the fuel-air mixture in the engine's cylinders. It is engineered for low-emissions and high energy output, ensuring efficient engine performance. All uxcell ignition coils utilize metal windings internally for superior connectivity and are factory-tested to meet quality standards, performing comparably to original equipment parts.



Image: Front view of the uxcell Ignition Coil, a black, cylindrical component with a rectangular connector at the top.

SPECIFICATIONS

Attribute	Detail
Brand	uxcell
Reference Number	22448-AX001
Manufacturer Part Number	a20010900ux0282
Voltage	DC 12V
Number of Pins	3

Material	Plastic, Metal, Rubber
Color	Black
Item Weight	6.7 ounces
Package Dimensions	7.64 x 2.87 x 2.44 inches
Vehicle Service Type	Car



Image: The ignition coil shown with its approximate dimensions: 14.5cm (5.71 inches) in length, 4cm (1.57 inches) in width, and 8.5cm (3.35 inches) in depth.



Image: Close-up view of the ignition coil's electrical connector, clearly showing its 3-pin configuration.

INSTALLATION GUIDE

This ignition coil is designed as a direct replacement part. While installation is generally straightforward for those with mechanical experience, it is recommended to consult a professional mechanic if you are unsure about the process. Always ensure the vehicle's battery is disconnected before beginning any work on the ignition system.

General Installation Steps:

1. **Safety First:** Ensure the vehicle is turned off, the engine is cool, and the negative terminal of the battery is disconnected to prevent accidental electrical discharge.
2. **Locate Old Coil:** Identify the faulty ignition coil(s) in your engine bay. They are typically located on top of or near the spark plugs.
3. **Disconnect Wiring:** Carefully disconnect the electrical connector from the old ignition coil.
4. **Remove Fasteners:** Unscrew any bolts or fasteners securing the old coil in place.
5. **Remove Old Coil:** Gently pull the old ignition coil straight up and out. Be careful not to damage the spark plug or surrounding components.
6. **Install New Coil:** Insert the new uxcell ignition coil into the same position. Ensure it seats properly over the spark plug.

7. **Secure New Coil:** Re-attach any fasteners to secure the new coil.
8. **Connect Wiring:** Reconnect the electrical connector to the new ignition coil, ensuring a secure fit.
9. **Reconnect Battery:** Reconnect the negative terminal of the battery.
10. **Test:** Start the vehicle and check for proper operation and the absence of any engine warning lights.

Note: Specific vehicle models may have variations in the installation process. Always refer to your vehicle's service manual for precise instructions.



Ignition Coil

Image: A uxcell ignition coil is digitally placed in the foreground, with a black car's engine bay visible in the background, illustrating its automotive application.

OPERATING PRINCIPLE

The ignition coil functions as an induction coil in the vehicle's ignition system. Its primary role is to transform the low voltage (typically 12V) from the vehicle's battery into a high voltage pulse (tens of thousands of volts). This high voltage is then sent to the spark plugs, creating a powerful spark that ignites the compressed air-fuel mixture in the engine's combustion chambers. This process is essential for the engine to run efficiently and produce power.

Modern ignition coils, like the uxcell 22448-AX001, are often "coil-on-plug" designs, meaning each cylinder has its own dedicated ignition coil mounted directly on top of the spark plug. This design improves ignition timing accuracy and reduces energy loss, leading to better fuel efficiency and reduced emissions.

MAINTENANCE

Ignition coils are sealed units and are not designed for user maintenance or repair. Their lifespan can be affected by factors such as engine heat, vibrations, and electrical stress. Regular vehicle maintenance, including timely spark plug replacement, can help prolong the life of your ignition coils.

If an ignition coil fails, it must be replaced. Do not attempt to disassemble or repair a faulty coil, as this can be dangerous and may cause further damage to your vehicle's electrical system.

TROUBLESHOOTING

A failing or faulty ignition coil can manifest in several ways. If you experience any of the following symptoms, it may indicate an issue with one or more ignition coils:

- **Engine Misfires:** The engine may stumble, hesitate, or feel rough, especially during acceleration. This is often accompanied by a "check engine" light.
- **Rough Idling:** The engine may vibrate excessively or run unevenly when idling.
- **Reduced Fuel Economy:** A faulty coil can lead to incomplete combustion, causing the engine to consume more fuel.
- **Loss of Power:** The vehicle may feel sluggish and lack its usual acceleration capability.
- **Check Engine Light:** The "check engine" light on your dashboard will illuminate, often accompanied by specific diagnostic trouble codes (DTCs) related to ignition system faults.
- **Difficulty Starting:** In severe cases, a completely failed coil can prevent the engine from starting.

If you suspect an ignition coil issue, it is recommended to have your vehicle diagnosed by a qualified mechanic. They can use diagnostic tools to pinpoint the exact faulty coil and recommend appropriate replacement.

WARRANTY AND SUPPORT

For information regarding the warranty coverage for your uxcell Ignition Coil 22448-AX001, please refer to the specific warranty policy provided by uxcell at the time of purchase or visit the official uxcell website. Warranty terms typically cover manufacturing defects.

For technical support, installation inquiries, or any other product-related questions, please contact uxcell customer service through their official channels. You can often find contact information on the product packaging or on the uxcell brand store page on Amazon.

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