

[Manuals.plus](#) /

› [OBDEMOTO](#) /

› OBDEMOTO 101 Ignition Coil Tester Tool User Manual

## OBDEMOTO OBDEMOTO 101

# OBDEMOTO 101 Ignition Coil Tester Tool User Manual

Model: OBDEMOTO 101 | Brand: OBDEMOTO

## INTRODUCTION

The OBDEMOTO 101 is a versatile automotive diagnostic tool designed to quickly detect issues in various vehicle components. This pen-style tester utilizes electromagnetic principles to identify problems in ignition coils, spark plugs, fuel injectors, generators, fans, electric relays, emission gas control valves, and hall sensors without requiring component removal. It provides clear visual and audible feedback, making it suitable for both DIY enthusiasts and professional technicians.

# AUTOMOTIVE ELECTRONIC-MAGNETIC FAULT DIAGNOSTIC PEN

## Test Range:

- Ignition coils  
(traditional coils, dual spark coils, single spark coil)
- generators
- fans
- relays
- fuel injectors
- electronic-magnetic valves
- emission gas controlling valves
- etc

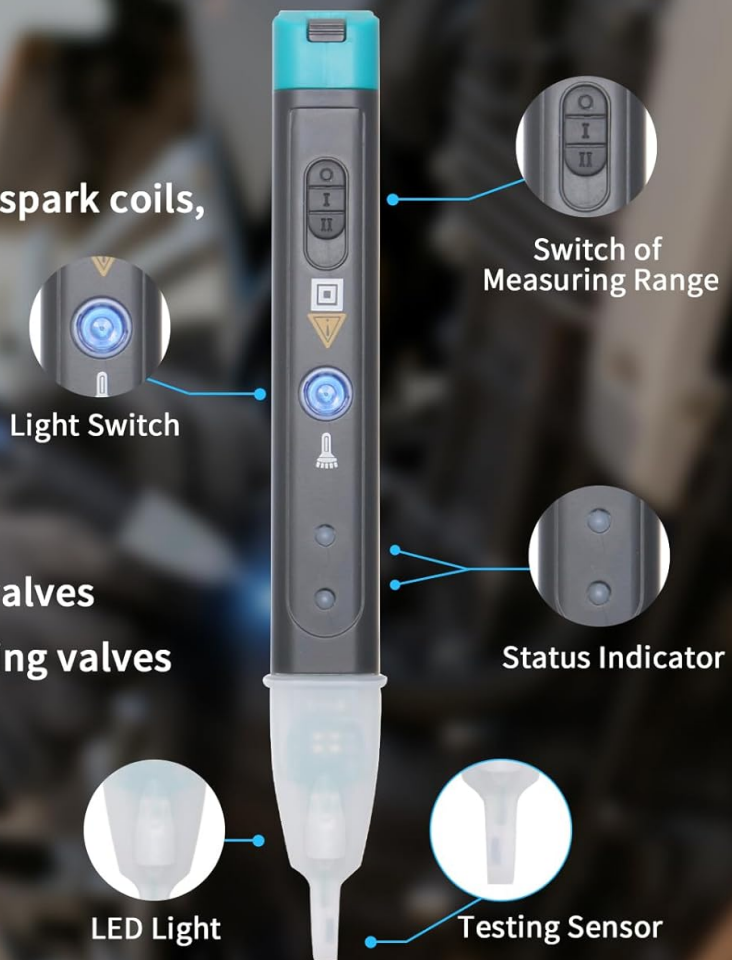


Figure 1: OBDEMOTO 101 Ignition Coil Tester Tool.

## PRODUCT OVERVIEW

### Key Features

- **Quick Detection:** Instantly identifies ignition and spark plug problems, along with issues in generators, fans, electric relays, emission gas control valves, fuel injectors, and hall sensors.
- **Wide Compatibility:** Suitable for most 12V gasoline vehicles, including cars, SUVs, RVs, trucks, motorcycles, and ATVs.
- **LED Display & Audible Cueing:** Features clear LED indicators and a buzzer for visual and audible feedback on device status and electromagnetic field strength.
- **Portable & Illuminated Design:** Compact, lightweight, pen-style design with a bright LED light for use in dark or confined engine compartments.
- **Replaceable Battery:** Easy snap-on design for quick replacement of 2 AAA batteries.
- **Durable Construction:** Made with industrial-grade materials for extended lifespan.

### What's in the Box

- 1 x OBDEMOTO 101 Ignition Coil Tester

## Size & Functions

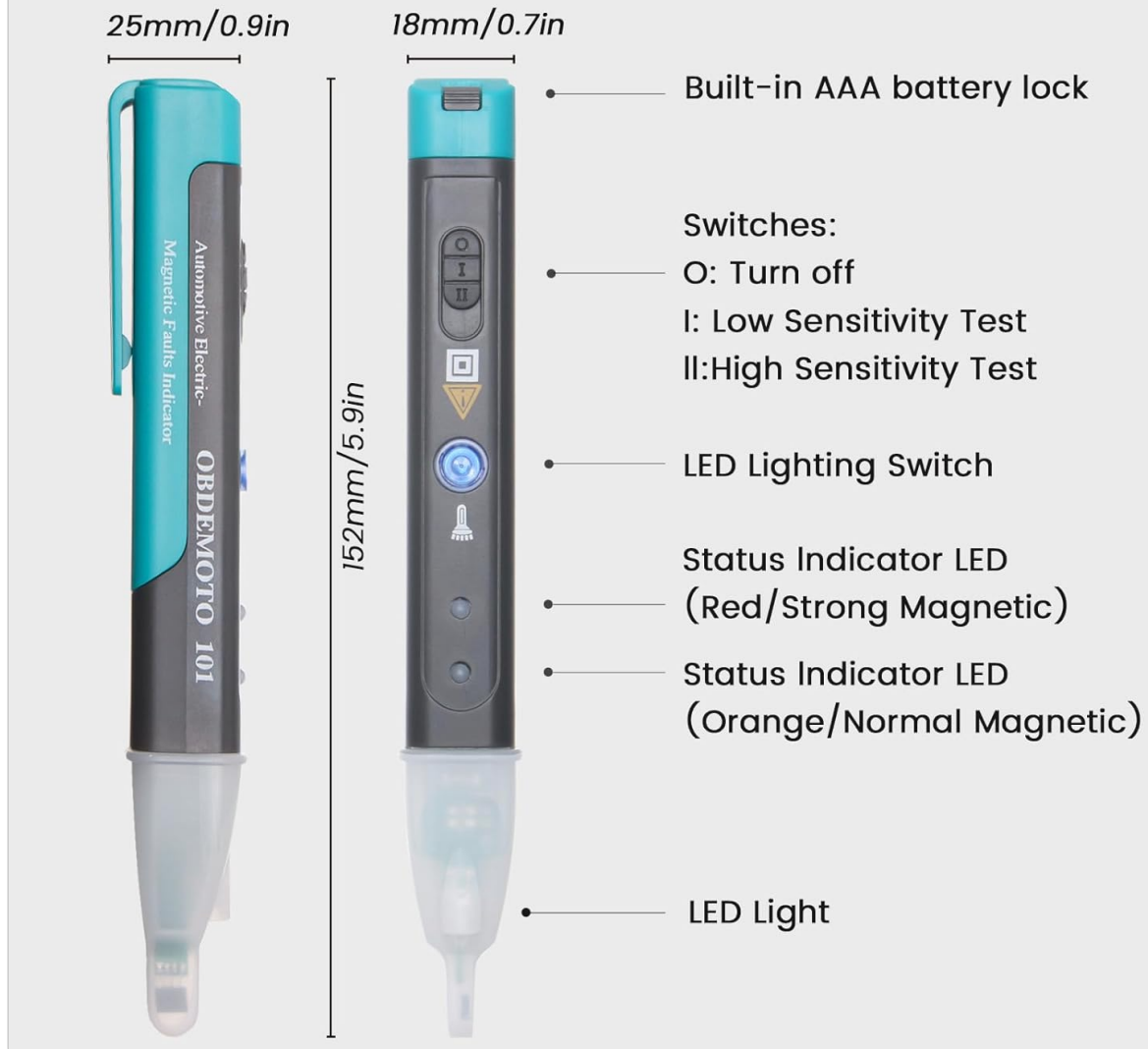


Figure 2: Dimensions and functional overview of the OBDEMOTO 101.

## SETUP

### Battery Installation

The OBDEMOTO 101 requires 2 AAA batteries for operation. Follow these steps to install or replace the batteries:

1. Press the snap on the clip-on battery compartment and remove the cover.
2. Insert 2 AAA batteries, ensuring correct polarity.
3. Reattach the cover by aligning and snapping it into place.
4. The device is now ready for use.

# EASY BATTERY INSTALLATION



**01** Press the snap and remove the cover



**02** Insert 2 AAA batteries



**03** Reattach the cover



**04** Ready to use

Figure 3: Step-by-step guide for battery installation.

## OPERATING INSTRUCTIONS

The OBDEMOTO 101 features a simple interface with a power switch, sensitivity settings, and an LED lighting switch. The device uses LED indicators and an audible buzzer to communicate detection status.

### General Operation

- **Power On/Off:** Use the main switch (O: Turn off, I: Low Sensitivity Test, II: High Sensitivity Test) to power on the device and select the desired sensitivity.
- **LED Light:** Press the LED lighting switch to activate the built-in flashlight for improved visibility in dark areas.
- **Testing:** Position the testing sensor near the component to be diagnosed. The device will provide visual (flashing LEDs) and audible (beeping) feedback if a magnetic field is detected.

# CLEAR OPERATION EVEN IN DARK ENVIRONMENTS

One click, instant light—boosting your work efficiency



Figure 4: The integrated LED light assists in dark environments.

## Specific Component Testing

The OBDEMOTO 101 can test a variety of components by detecting their electromagnetic fields. The presence of a flashing indicator and continuous beeping signifies normal operation.

- **Ignition Coil Test:** Place the sensor near the ignition coil. If the coil is working, the indicator lights will flash, and the buzzer will sound continuously. If no activity, the coil may be damaged or not working.
- **Fuel Injector Test:** Position the sensor near the fuel injector. Adjust the angle until a reaction (flashing lights, beeping) is observed, indicating proper function.
- **Generator Test:** Move the sensor near the alternator (generator). In a strong magnetic zone, both LED lights will flash, indicating the generator is working.
- **Other Components:** The tool can also be used to test fans, electric relays, emission gas control valves, and hall sensors by detecting their magnetic activity.

## Ignition Coil Test



Ignition coil is not working or damaged, indicator lights: LED 1 & LED 2 do not light up, buzzer is silent



Ignition coil is working, indicator light: LED1 and LED2 are flashing, buzzer is making sound continuously.

## Generator Test



Generator is not working or damaged, indicator lights: LED 1 & LED 2 do not light up, buzzer is silent



Generator is working, indicator light: LED1 and LED2 are flashing, buzzer is making sound continuously.

Figure 5: Visual examples of ignition coil and generator testing.

### Demonstration Video

Video 1: Official demonstration of the OBDEMOTO 101 testing ignition coils, fuel injectors, and generators on a motorcycle and car.

## MAINTENANCE

### Battery Replacement

When the device's performance degrades or the indicators become dim, it may be time to replace the batteries. Refer to the 'Battery Installation' steps in the Setup section for detailed instructions. Ensure to use 2 fresh AAA batteries.

# Clip-on Battery Compartment Design

## One-click Replace Battery

- ✓ Runs on 2 AAA batteries
- ✓ Swaps in 3 seconds
- ✓ No interruption

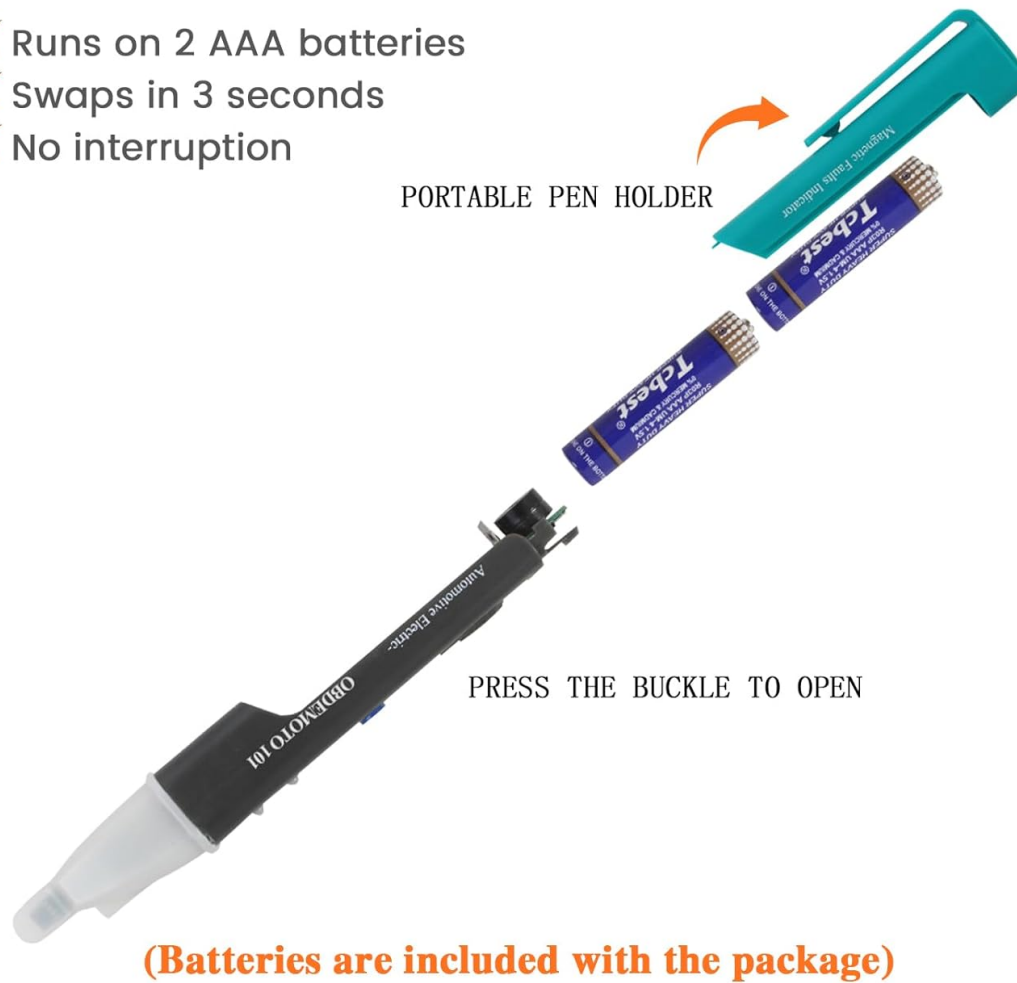


Figure 6: The clip-on design allows for quick battery replacement.

### General Care

- Keep the device clean and free from dirt, oil, and moisture.
- Store the tester in a dry, cool place when not in use.
- Avoid dropping the device or subjecting it to strong impacts.

### TROUBLESHOOTING

The OBDEMOTO 101 provides clear indications for diagnosing component status. Refer to the following for common scenarios:

Symptom	Indication	Possible Cause / Action
Component working	LEDs flash, buzzer sounds continuously	Normal operation.
Component not working / damaged	LEDs do not light up, buzzer is silent	Component may be faulty or not receiving power. Check connections and component integrity.

Symptom	Indication	Possible Cause / Action
No power to tester	No lights, no sound when powered on	Check and replace AAA batteries. Ensure batteries are inserted with correct polarity.



Figure 7: Visual representation of working vs. faulty indications.

## SPECIFICATIONS

Feature	Specification
Brand	OBDEMOTO
Model Number	OBDEMOTO 101
Power Source	Battery Powered (2 AAA batteries required)
Style	Industry Design
Color	Green
Item Dimensions (L x W x H)	6 x 0.97 x 0.7 inches
Item Weight	1.44 ounces
Min. Operating Voltage	2.9 Volts
Maximum Operating Voltage	3.3 Volts
Certifications	CE, RoHS

## WARRANTY & SUPPORT

OBDEMOTO stands behind the quality of its products. For any questions, concerns, or technical assistance regarding your OBDEMOTO 101 Ignition Coil Tester Tool, please do not hesitate to contact our customer support team. Refer to your purchase documentation or the OBDEMOTO official website for specific warranty details and contact information.

