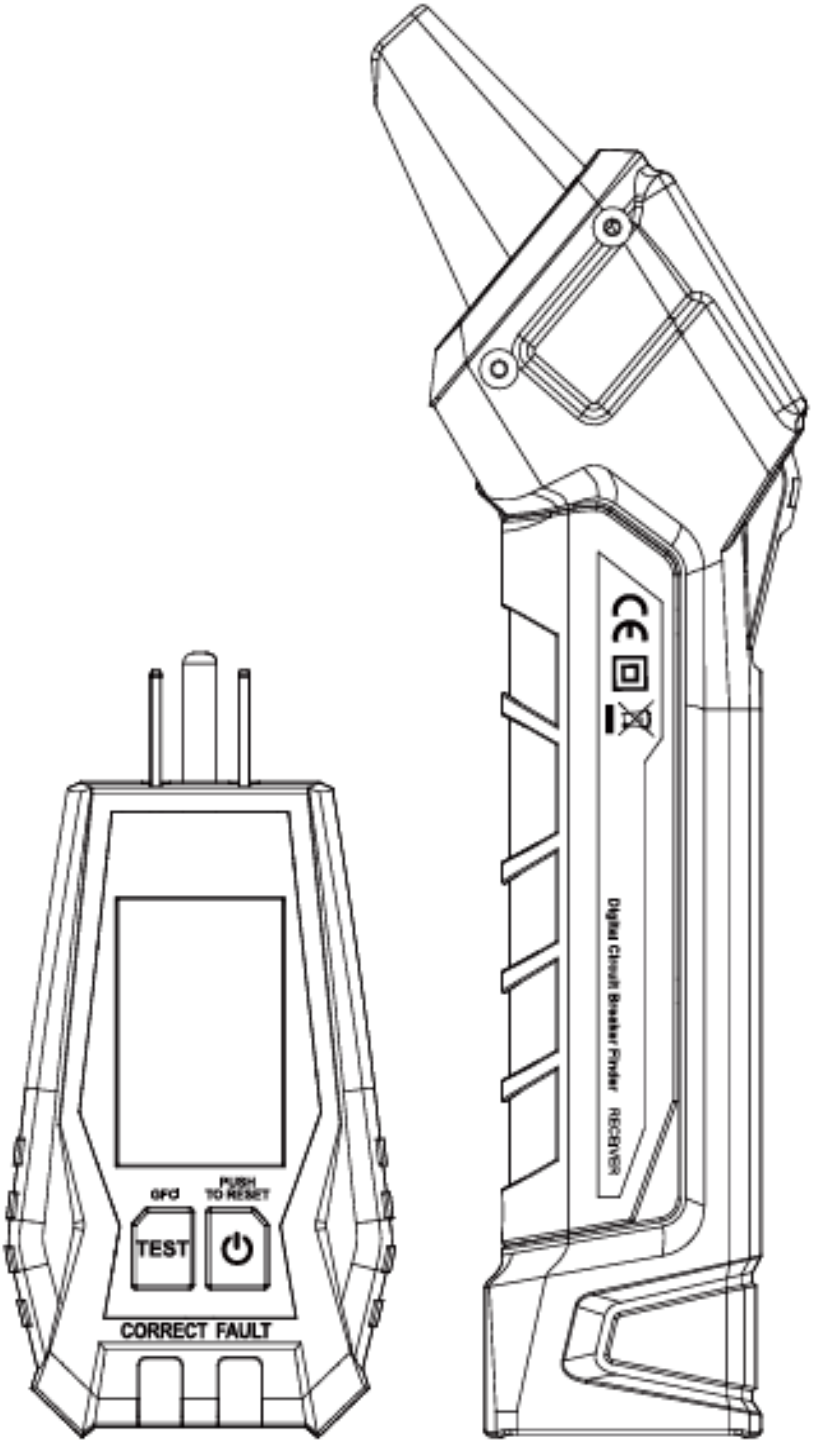
USER'S MANUAL



GFCI OUTLET TESTER

⚠ Please read this manual carefully before using this product,and keep it properly for future use!

1. Introduction

The unit is a signal injection type digital circuit breaker finder, consisting of a transmitter and a receiver. It's designed to locate the correct circuit breaker in a distribution panel to which an electrical outlet or fixture is connected. The transmitter is connected to the power outlet or fixture in the circuit , while the receiver is used to scan the breakers in the panel.

⚠	Please read the user manual carefully and strictly follow the operating instructions to prevent electrical shock or fatalities.

*This unit is intended for use with North American AC 120V power outlets and should not be used for high-voltage measurements.

*Upon receiving the unit, please inspect it for any damage and ensure it is in a proper working condition.

*Before use, please test the unit on a known live and correctly wired circuit to verify its function.

*If there are any signs of damage to the unit, please stop using it.

*When using the transmitter's "GFCI" function, please ensure that the wiring is correct and a circuit breaker is installed. Turn off other electrical units on the tested circuit to prevent any hazards due to power interruption.

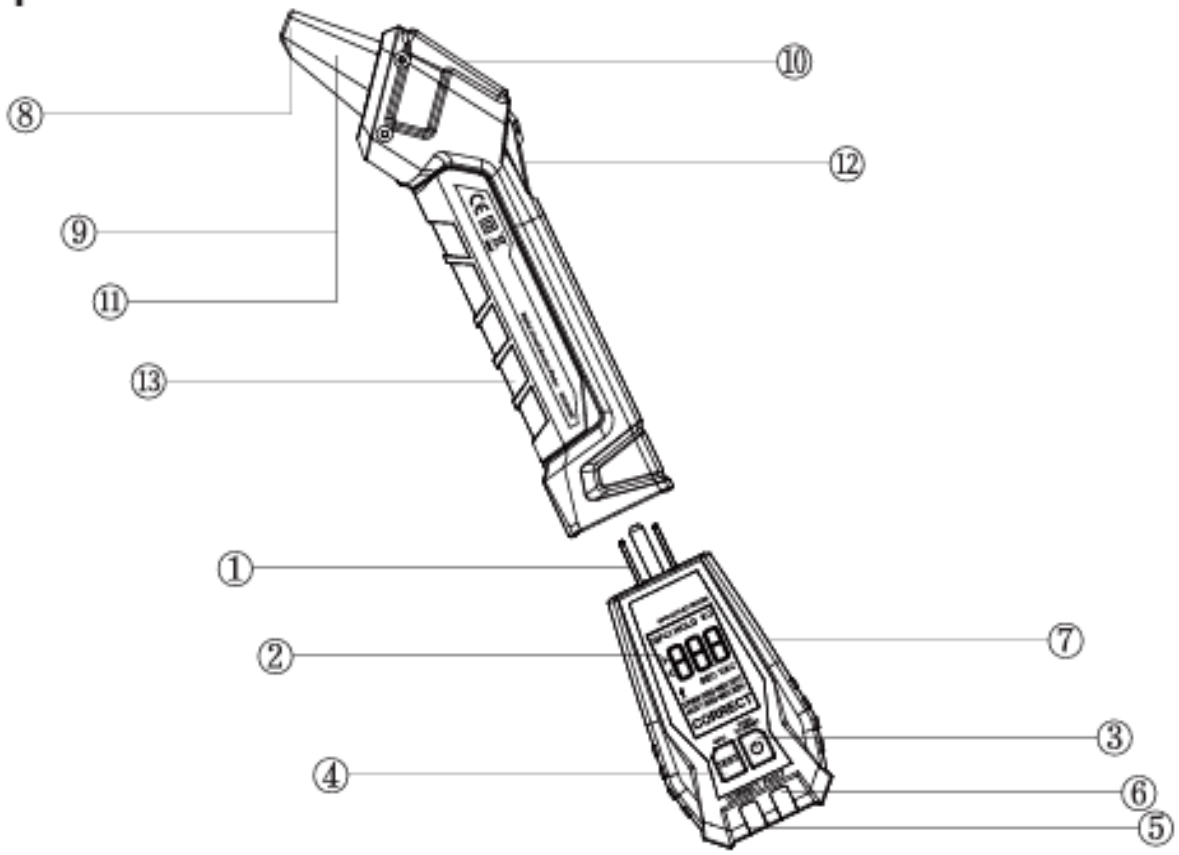
*Please obtain permission from facility management before using the transmitter's "GFCI" function in public areas.

*This instrument is only suitable for testing 3-prong outlets. If wiring errors are detected, please seek a professional electrician for repair.

*Please remove the batteries if the unit will not be used for a long time to prevent leakage and potential corrosion.

*During testing, please remove any other units or attachments from the circuit under test to avoid interference.

2.Appearance

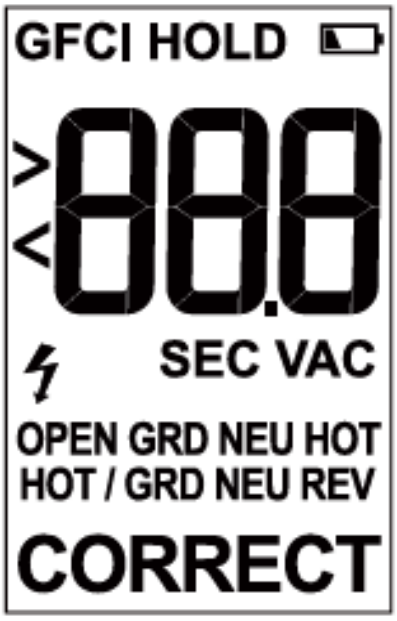


Transmitter	①	Plug
	②	Display
	③	Power Switch, Reset Button
	④	GFCI Test Button
	⑤	Indicator Light (Green) Correct
	⑥	Indicator Light (Red) Fault
	⑦	Battery Cover
Receive	⑧	Sensing Probe
	⑨	Detection Indicator Light (Green)
	⑩	Display
	⑪	Detection Signal Indicator Light (Red)
	⑫	Power Switch, Test Button
	⑬	Battery Cover

3. Display



Receive



Transmitter

Transmitter	GFCI	Circuit Breaker
	HOLD	Lock Indicator
		Low Battery Indicator
	>	Greater Than
	<	Less Than
		Live Danger Indicator
	SEC	Wait a second
	V	Voltage
	AC	Alternating Current
	CORRECT	Correct Wiring
	OPEN NEU	Neutral Line Open
	OPEN GRD	Ground Line Open
	HOT/GRD REV	Hot/Ground Reverse
Receive	HOT/NEU REV	Hot/Neutral Reverse
	OPEN HOT	Hot Line Open
	OPEN GRD NEU	Ground and Neutral Line Open
		Low Battery Indicator
	Learn	Learn
	Scan	Scan

4.Technical Parameters

Product	Circuit Breaker Finder	
Type	Transmitter	Receiver
Display	VA Negative Display	√
Working Altitude	2000m	√
Alarm Method	Screen Display, Indicator Light,	Screen Display, Indicator Light, Buzzer Alarm
Operating Voltage	AC 90V～135V/50HZ/60HZ	√
Battery	1.5V AAA×2	1.5V AA×2
Auto Power Off	About 3 minutes	About 15 minutes
Operating Current	About 30mA	About 40mA
GFCI Leakage Current	About 6mA～9mA	No
Working Environment	32℉～122℉/＜ 75%RH	√
Storage Environment	-4° to 122°F/0%～75%RH	√
Size	114×56×30mm	200×46×30mm
Weight (without battery	About 85 g	About 96g

5.How to use

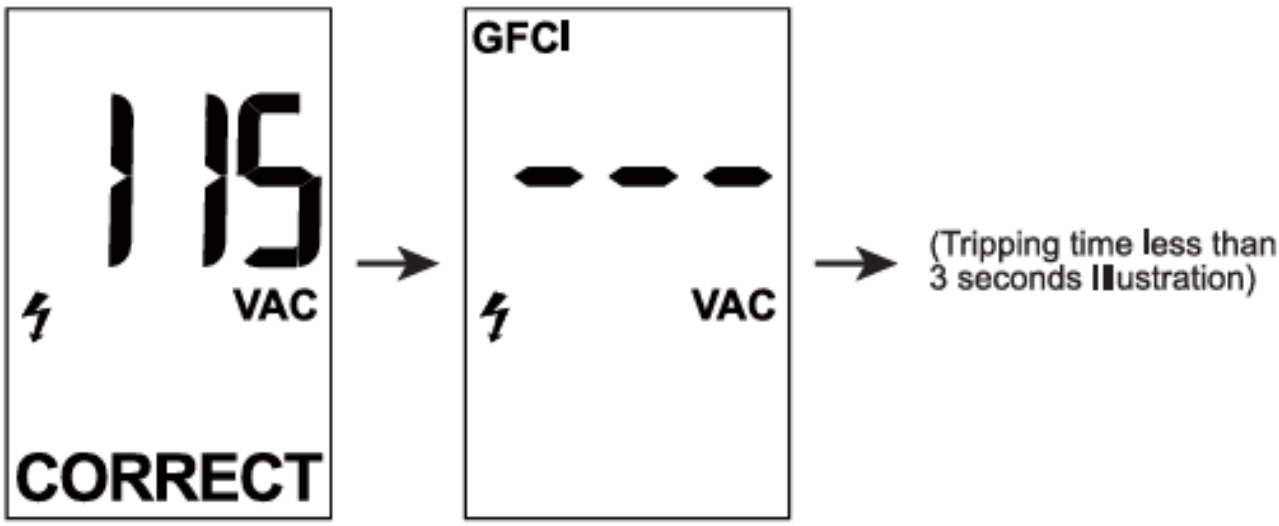
5.1 Transmitter and Receiver (Outlet Tester)

①.Power Switch: Press and hold the (⏻) button for about 1 second to turn the unit on or off.

②.Auto Power Off: If no operation is performed within 3 minutes after turning on, the unit will enter auto power off mode. Press any button to restart the auto power off timer. There is no auto power off function during testing.

③.HOLD Lock Function: When the measurement is complete and the unit is removed, the screen displays “HOLD” and the indicator light flashes, indicating that the measurement data has been locked. It will automatically release in about 10 seconds. To release quickly, you can directly insert the unit into the circuit for measurement or press the (⏻) button.

④.Test Button: For "GFCI" function testing, ensure the circuit is correctly wired with an installed circuit breaker.Press the "TEST" button briefly to generate a leakage current of 6mA～9mA into the ground wire. If the circuit breaker trips within about 3 seconds, the screen will display a tripping time less than 3 seconds, indicating the circuit is functioning correctly. If it does not trip and the screen displays more than 5 seconds, there may be a wiring error or circuit breaker failure. Please seek a professional electrician for repair.



(Successful tripping Illustration)

⑤.When the finder is powered on without being connected to a circuit, the screen will display “OPEN HOT” indicating no circuit connection, as shown in (Figure 1).



(Figure 1)

⑥.Correct Wiring: When the unit is connected to an outlet, the screen will display the voltage value and “CORRECT”, as shown in (Figure 2), and the indicator light (Green Light) will illuminate, indicating correct wiring.



(Figure 2)

⑦Open Neutral: When the unit is connected to an outlet, the screen will display “OPEN NEU” and the voltage between the hot wire and ground wire will be greater than AC 30V, as shown in (Figure 3), and the indicator light (Red Light) will illuminate, indicating a wiring error.



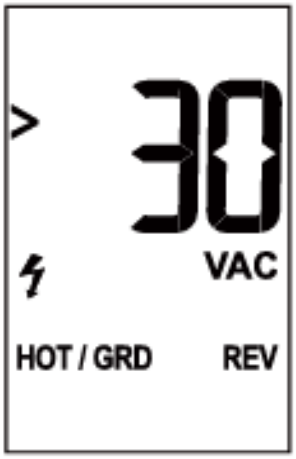
(Figure 3)

⑧Open Ground: When the unit is connected to an outlet, the screen will display “OPEN GRD” and the voltage between the hot wire and neutral wire, as shown in (Figure 4), and the indicator light (Red Light) will illuminate, indicating a wiring error.



(Figure 4)

⑨Reversed Hot/Ground: When the unit is connected to an outlet, the screen will display “HOT/GRD REV” and the voltage between the hot wire and ground wire will be greater than AC 30V, as shown in (Figure 5), and the indicator light (Red Light) will illuminate, indicating a wiring error.



(Figure 5)

⑩Reversed Hot/Neutral: When connected to an outlet, the screen will display “HOT/NEU REV” and the voltage between the hot wire and neutral wire, as shown in (Figure 6), and the indicator light (Red Light) will illuminate, indicating a wiring error.



(Figure 6)

5.2 Receiver Finder:

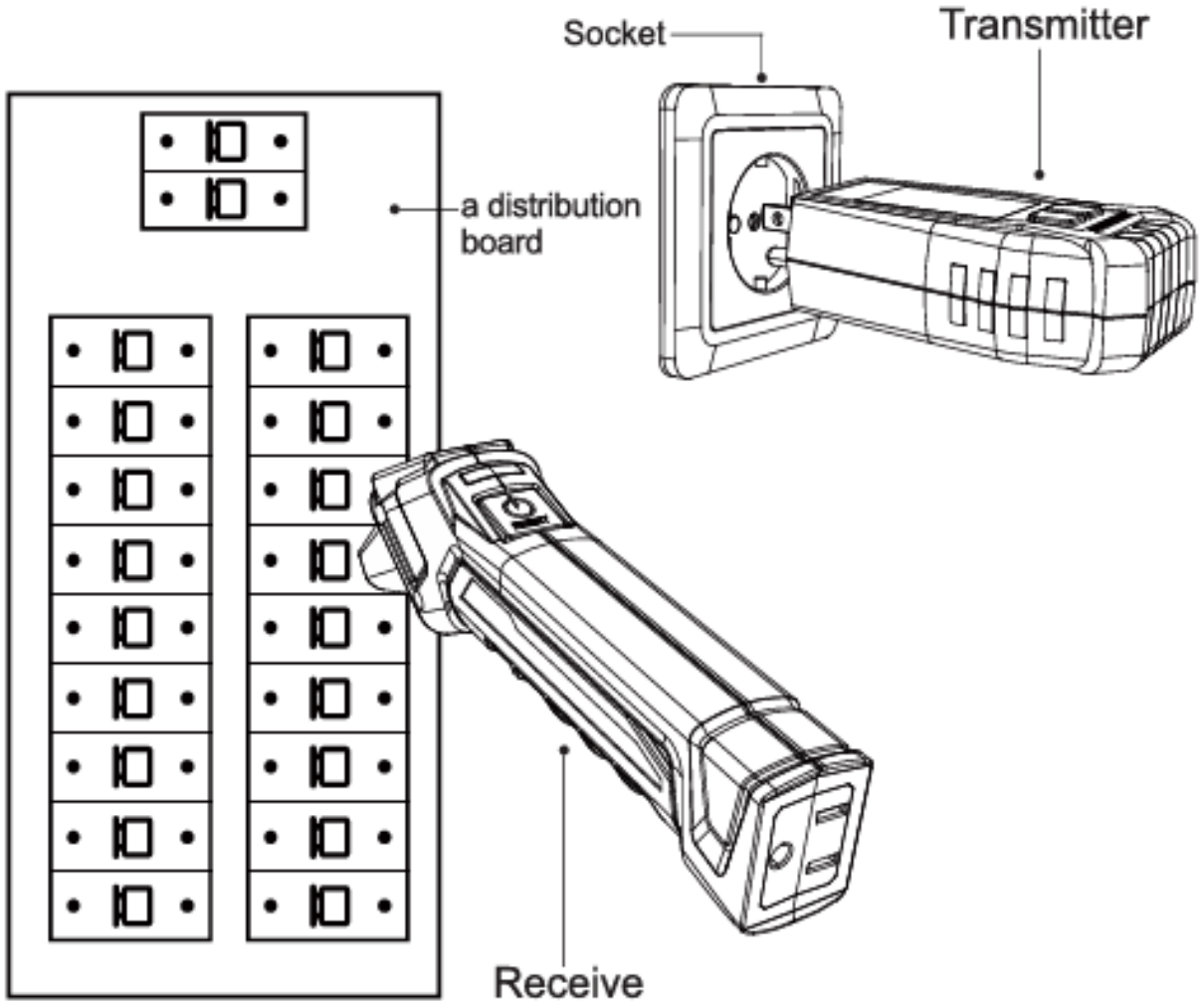
①Power Switch: Press and hold the (⏻) button for about 1 second to turn the unit on or off.

②Default enter "Learn" learning mode after device startup; Short press the (RESET) key to enter the "Scan" scanning mode; Short press the "RESET" button again to reset "Learn" and enter learning mode;

③Auto Power Off Function: The unit will enter auto power off mode after about 15 minutes of operation.

④Turn on the transmitter by pressing the (⏻) button and insert it into the power outlet. If the transmitter display indicates that the outlet is electrified and the wiring is correct, prepare to use the receiver to scan the circuit breaker in the distribution panel. If the transmitter indicates incorrect wiring of the outlet, stop testing and consult a professional electrician.

⑤Turn on the receiver by pressing and holding the (⏻) button, the screen will display “Learn”, the detection indicator light (Green Light) will light up, and the buzzer will emit a “pulse” sound, indicating the unit has entered learning mode; hold the receiver and place it on the distribution panel, so that the probe is perpendicular to the circuit breaker in the panel, scanning all the circuit breaker in the panel.



⑥In “Learn” mode, when leaning the panel signals, ignore the “pulse” sound and display indications emitted by the unit.

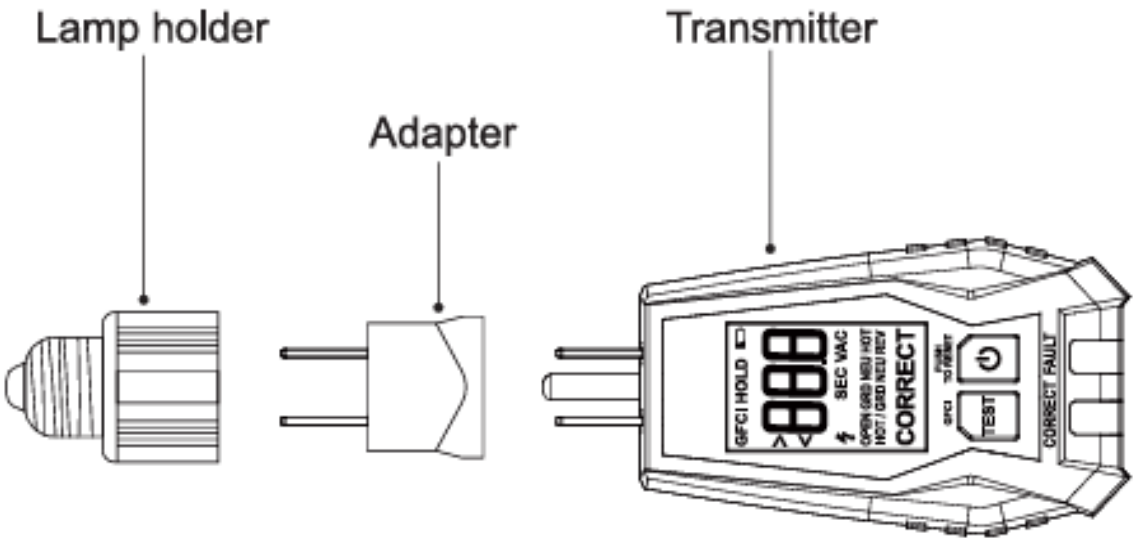
⑦Press the (RESET) button briefly to stop the “pulse” sound, and the screen will display “Scan”, indicating the unit has entered scanning mode. Ensure the receiver’s probe is perpendicular to the circuit breaker in the panel and scan all the circuit breaker in the distribution panel again. When the probe is close to the circuit breaker connected to the transmitter’s circuit, the detection indicator light (Green Light) will go off, the signal indicator light (Red Light) will light up, the unit will emit a “pulse” sound, and the screen’s analog display will increase, indicating that the correct circuit breaker has been identified.

⑧To start a new scan, move the receiver away from the distribution panel to ensure that it does not sense any electrical signals while resetting. Press the “RESET” button briefly to reset the receiver, which will clear the learned data. After clearing, you can scan and learn again.

6. Optional accessories: (Lamp Holder Adapter, Alligator Clip Adapter)

6.1 Lamp Holder Testing

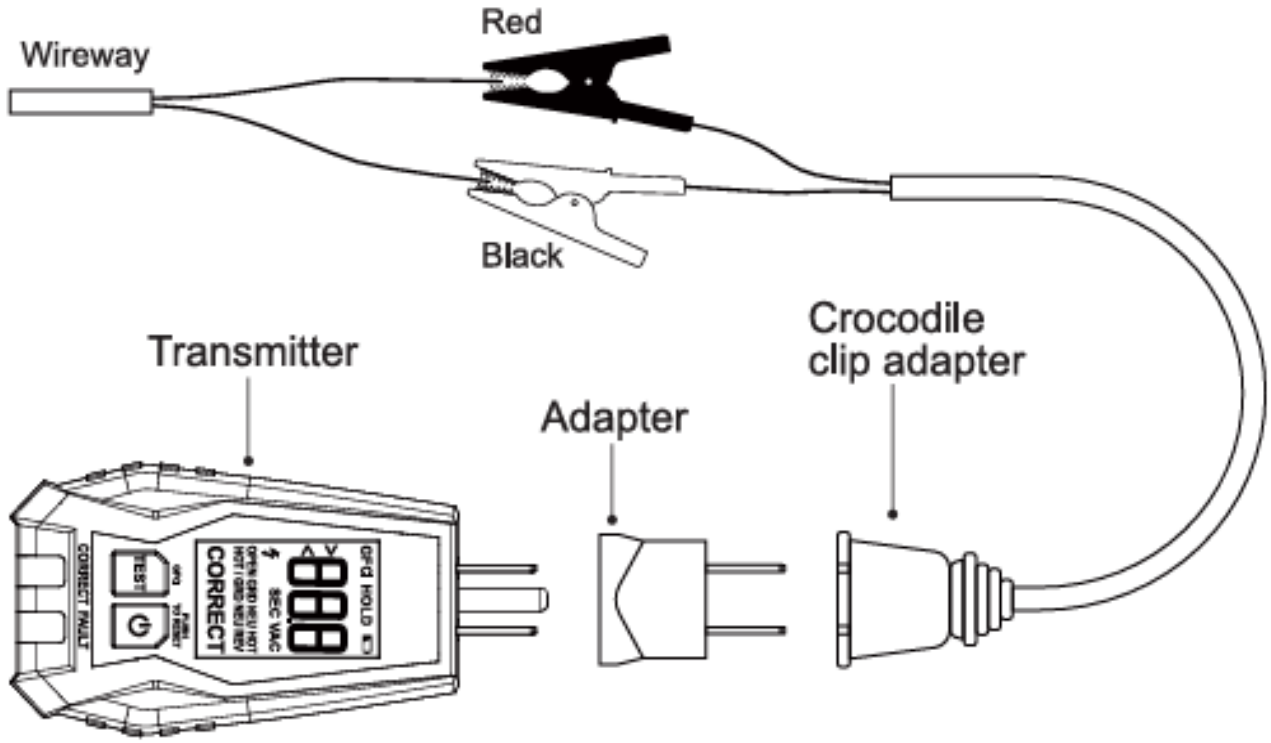
①Disconnect the power supply to the circuit under test. Screw the lamp holder adapter into the empty lamp holder of the circuit under test, and connect the three-prong to two-prong adapter. Turn on the transmitter and insert it into the three-to-two adapter.



②Restore power to the circuit under test. If the lamp holder is electrified, the transmitter screen will display “OPEN GRD” and the voltage between the hot wire and neutral wire, as shown in (Figure 4), and the indicator light (Red Light) will illuminate, indicating an open ground. Refer to “5.2 Receiver Finder” for locating the correct circuit breaker.

6.2 Wiring Testing

①Disconnect the power supply to the circuit under test. Use the outlet to alligator clip adapter, and connect the alligator clip to the wire under test. Insert the transmitter into the alligator clip adapter.



②Restore power to the circuit under test. If the wiring is electrified, the transmitter screen will display “OPEN GRD” and the voltage between the hot wire and neutral wire, as shown in (Figure 4), and the indicator light (Red Light) will illuminate, indicating an open ground. Refer to “5.2 Receiver Finder” for locating the correct circuit breaker.

6.Battery Replacement

⚠	To avoid incorrect measurements that could lead to electric shock or personal injury, immediately replace the batteries when the " ▭ " symbol appears on the screen. Before replacing the batteries, remove the instrument from the circuit under test. After replacing the batteries, ensure the battery cover is properly installed and tighten the securing screws to continue using the device.Remove the unit from the circuit under test before replacing the batteries. After replacing the batteries, ensure the battery cover is securely fastened, and the unit is ready for use.

①.Use a screwdriver to remove the screws from the battery cover.

②.Remove the battery cover.

③.Remove the old batteries.

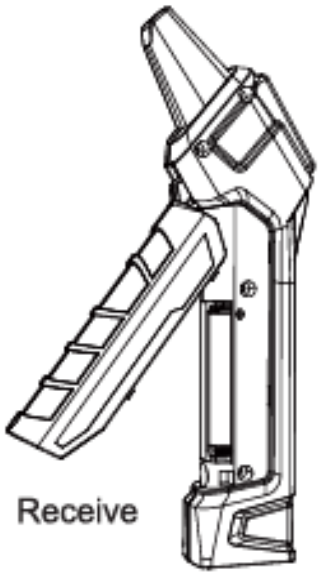
④.Replace with new 2×AAA 1.5V batteries (Transmitter)

⑤.2×AA 1.5V batteries (Receiver).

⑥.Attach the battery cover and tighten the screws.



Transmitter



Receive

7.Accessories :

Transmitter	1
Receiver	1
User Manual	1
Cloth Bag	1
Screwdriver	1
1.5V/AAA Batteries (Transmitter)	2
1.5V/AA Batteries (Receiver)	2
Lamp socket adapter (optional)	1
Three to two plug adapter (optional)	1
Crocodile clip adapter (optional)	1

USER'S MANUAL

Made in china

CE RoHS

M101040090

⚠ Please read this manual carefully before using this product,and keep it properly for future use!