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> BOOGIO Wire Tracker Multifunction RJ45 RJ11 Cable Tester User Manual

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Model: Wire Tracker

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of your BOOGIO Wire Tracker. This multifunction device is designed for tracing RJ11, RJ45, and other metal wires, as well as testing network and telephone lines. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

- Always ensure the device is powered off when connecting or disconnecting cables, especially when testing electrical or speaker wires with alligator clips, to prevent damage.
- Do not expose the device to moisture or extreme temperatures.
- Use only the specified battery type (9V batteries, not included).
- Keep the device out of reach of children.
- If the device is damaged, do not attempt to repair it yourself. Contact qualified personnel.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1x Emitter (with double RJ11 RJ45 interface)
- 1x Receiver (with BNC interface)

- 1x Pair of Earphones
- 1x RJ11 Clip Adapter Cable
- 1x RJ45 Cable
- 1x Storage Box
- 1x English User Manual
- *Note: Batteries (9V) are not included and must be purchased separately.*



Figure 3.1: Package Contents. This image displays the BOOGIIO Wire Tracker Emitter and Receiver units, along with the included earphones, RJ11 adapter cable, RJ45 cable, clip adapter cable, and user manual. The storage box is also visible.

4. PRODUCT OVERVIEW

The BOOGIIO Wire Tracker consists of two main units: the Emitter and the Receiver. Familiarize yourself with their components:



Figure 4.1: Emitter and Receiver Components. This diagram labels key parts of the Wire Tracker. The Emitter features wire finding indicators, wire sequence indicators, a function switching button, a function selector switch, and testing indicators. It also has RJ45 and RJ11 sockets. The Receiver includes a probe, signal indicator, inching button, wire sequence indicator, headset jack, spotlight switch, and volume adjuster.

4.1 Emitter Features

- **RJ45/RJ11 Interfaces:** For connecting network and telephone cables.
- **Function Selector Switch:** Toggles between SCAN, OFF, and TEST modes.
- **Wire Sequence Indicators (1-8, G):** Displays cable continuity and wiring order.
- **Status Indicator:** Shows operational status.

4.2 Receiver Features

- **Probe:** Used to detect the signal from the Emitter.
- **Signal Indicator:** Visual indication of signal strength.
- **Volume Adjuster:** Controls the audio output level for tracing.
- **Headset Jack:** For connecting earphones in noisy environments.
- **Spotlight Switch:** Activates an LED light for working in dark areas.
- **Wire Sequence Indicators (1-8, G):** Mirrors the Emitter's display for cable testing.

5. SETUP

5.1 Battery Installation

Both the Emitter and Receiver units require a 9V battery (not included) for operation.

1. Locate the battery compartment cover on the back of both the Emitter and Receiver units.
2. Slide or unclip the cover to open the compartment.
3. Insert a 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 5.1: Battery Compartment. This image shows the open battery compartments for both the Emitter and Receiver units, indicating where to insert the 9V batteries.

5.2 Connecting Earphones

For use in noisy environments, connect the included earphones to the Receiver's headset jack.

1. Plug the earphone jack into the headset port on the side of the Receiver unit.

2. Adjust the volume knob on the Receiver for comfortable listening.

6. OPERATING INSTRUCTIONS

6.1 Wire Tracing (Line Finding)

This function allows you to locate a specific wire among a bundle or trace its path.

1. **Connect the Emitter:**

- For RJ45/RJ11 cables: Plug one end of the cable into the corresponding port on the Emitter.
- For other metal wires (e.g., electrical, speaker wires): Use the RJ11 clip adapter cable. Connect the alligator clips to the two conductors of the wire. *Ensure the wire is de-energized (power-off status) to prevent damage to the unit.*

2. **Set Emitter Mode:** Slide the function selector switch on the Emitter to "SCAN". The "SCAN" indicator light should illuminate.

3. **Use the Receiver:**

- Turn on the Receiver by sliding the power switch.
- Move the Receiver's probe along the suspected path of the cable.
- Listen for the tone emitted by the Receiver. The tone will be loudest when the probe is directly over the target wire.
- Adjust the volume knob on the Receiver as needed.
- In dark environments, activate the spotlight using its switch on the Receiver.

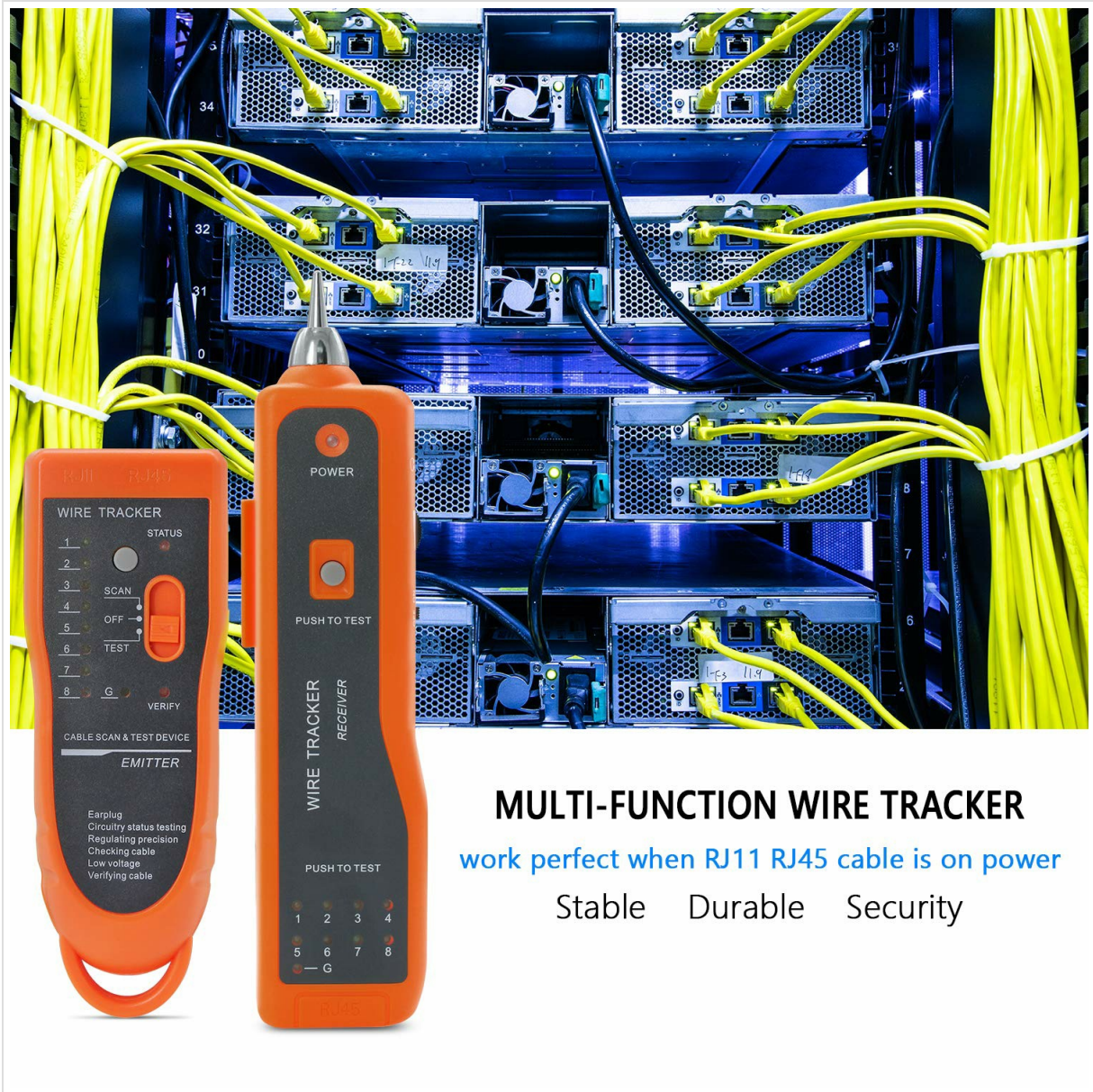


Figure 6.1: Wire Tracing Application. This image demonstrates the BOOGIIO Wire Tracker Receiver being used to trace a cable within a server rack, highlighting its utility in complex wiring environments.



Figure 6.2: Connecting Cables for Tracing. This image shows how RJ45 cables are connected to both the Emitter and Receiver units for tracing or testing purposes.

6.2 Network Cable Test (RJ45)

This function checks the physical connection status of network cables, including open circuits, short connections, miswires, and reverse connections.

1. Connect one end of the RJ45 network cable to the RJ45 port on the Emitter.
2. Connect the other end of the RJ45 network cable to the RJ45 port on the Receiver.
3. Set the Emitter's function selector switch to "TEST".
4. Observe the wire sequence indicators (1-8, G) on both the Emitter and Receiver.
 - **Normal Connection:** Indicators on both units will light up sequentially from 1 to 8, then G.
 - **Open Circuit:** If a specific indicator light does not illuminate on either unit, that wire is open.
 - **Short Circuit:** If two or more indicator lights illuminate simultaneously, a short circuit is present.
 - **Miswire/Reverse Connection:** The sequence of lights will not match between the Emitter and Receiver, or the order will be incorrect.

6.3 Telephone Line Test (RJ11)

This function tests the working status of telephone lines, including judging TIP or RING lines, line level, and

positive/negative polarity detection.

1. Connect the RJ11 telephone cable to the RJ11 port on the Emitter.
2. Set the Emitter's function selector switch to "TEST".
3. Observe the indicators on the Emitter:
 - **Line Level:** The brightness of the indicators can give an approximate indication of line voltage.
 - **Polarity:** Specific indicators may light up to show positive or negative polarity. Refer to the Emitter's labeling for detailed interpretation (e.g., "TIP" or "RING" indications).



Figure 6.3: Emitter and Receiver in Operation. This image shows the Emitter and Receiver units connected via an RJ45 cable, demonstrating their use for cable testing. The Receiver's spotlight is also shown illuminated.

7. MAINTENANCE

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in its storage box in a cool, dry place when not in use. Remove batteries if the device will not be used for an extended period to prevent leakage.

- **Battery Replacement:** Replace batteries when the indicators become dim or the device functions erratically.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Device does not turn on.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with new 9V batteries.
Weak or no signal during wire tracing.	Emitter not in SCAN mode. Cable not properly connected to Emitter. Target wire is shielded or deeply embedded. Receiver volume too low.	Ensure Emitter is set to "SCAN". Verify cable connections. Adjust Receiver volume. Move probe closer to the wire.
Incorrect cable test results.	Cable is faulty. Loose connections. Emitter not in TEST mode.	Inspect the cable for damage. Ensure cables are securely plugged into both units. Set Emitter to "TEST".
Earphones produce low sound.	Receiver battery low. Volume knob set too low.	Replace Receiver battery. Adjust volume knob.

9. SPECIFICATIONS

Feature	Detail
Brand	BOOGIIO
Model Number	Wire Tracker
Measurement Type	Voltmeter, Ohmmeter, Network Tester
Min. Operating Voltage	10 Volts (for battery measurement function)
Power Source	Battery Powered (2x 9V batteries, not included)
Interfaces	RJ45, RJ11, BNC (Receiver)
Package Dimensions	19.8 x 13.3 x 3.2 cm
Item Weight	200 g
UPC	602822945455



Figure 9.1: Product Dimensions. This image provides the physical dimensions of both the Emitter and Receiver units of the BOOGIIO Wire Tracker.

10. WARRANTY AND SUPPORT

This product comes with a 24-month warranty from the date of purchase. For warranty claims, technical support, or inquiries, please refer to the contact information provided with your purchase documentation or contact your retailer.

Please retain your proof of purchase for warranty validation.