

Cruiser NSHL-468

NSHL-468 Network Cable Tester User Manual

Model: NSHL-468

1. INTRODUCTION

The NSHL-468 Network Cable Tester is a versatile diagnostic tool designed to verify the integrity and connectivity of various network and telephone cables. This device efficiently identifies cable continuity, open circuits, short circuits, and crossed wires, ensuring reliable network installations and troubleshooting.

It is compatible with RJ-11, RJ-12, RJ-45, CAT5, CAT5e, 10/100 Base-T, TIA-568A/568B, and AT&T 258-A cable types. The tester features a master unit and a detachable remote unit, allowing for testing of cables up to 1000 feet in length, even when installed.

2. PRODUCT FEATURES

- Comprehensive cable testing for RJ-11, RJ-12, RJ-45, CAT5, CAT5e, 10/100 Base-T, TIA-568A / 568B, and AT and T 258-A standards.
- Verifies wiring connection for double-twisted cables including pins 1, 2, 3, 4, 5, 6, 7, 8, and Ground.
- Equipped with 9 LED indicators on both the master and remote units for clear visual feedback of wiring status.
- Detachable remote unit facilitates testing of installed cables over long distances, up to 1000 feet (approximately 300 meters).
- Features an auto-scanning function for quick and efficient testing.

3. COMPONENTS AND OVERVIEW



Figure 3.1: The NSHL-468 Network Cable Tester showing both the master unit (left) and the detachable remote unit (right). Both units feature LED indicators for each wire and a ground connection.



Figure 3.2: The NSHL-468 Network Cable Tester with its remote unit detached from the master unit. This separation allows for testing of cables that are already installed over long distances.



Figure 3.3: Side view of the NSHL-468 Network Cable Tester, highlighting the RJ45 and RJ11/RJ12 ports on the master unit, and the corresponding port on the remote unit.



Figure 3.4: The open battery compartment of the NSHL-468 Network Cable Tester, showing the slot for a 9V battery. A 9V battery is required for operation.

4. SETUP

4.1. Battery Installation

The NSHL-468 Network Cable Tester requires one 9V battery for operation (battery not included). Refer to Figure 3.4 for the battery compartment location.

1. Locate the battery compartment cover on the back of the master unit.
2. Slide the cover open.
3. Connect a 9V battery to the battery clip inside the compartment, ensuring correct polarity.
4. Place the battery into the compartment and close the cover securely.

4.2. Powering On/Off

The tester features a three-position slide switch labeled "OFF ON S" on the master unit.

- **OFF:** Powers the unit off.
- **ON:** Activates normal testing speed.
- **S (Slow):** Activates a slower testing speed, useful for detailed observation of LED sequences.

5. OPERATING INSTRUCTIONS

5.1. Testing RJ45 Cables (CAT5/CAT5e/CAT6)

1. Ensure a 9V battery is installed in the master unit.
2. Connect one end of the RJ45 cable to the RJ45 port on the master unit.
3. Connect the other end of the RJ45 cable to the RJ45 port on the remote unit. If testing an installed cable, detach the remote unit and connect it to the far end of the cable.
4. Slide the power switch to "ON" for normal speed testing or "S" for slow speed testing.
5. Observe the LED indicators on both the master and remote units. The LEDs will light up sequentially from 1 to 8, then G (Ground).

5.2. Testing RJ11/RJ12 Cables

1. Ensure a 9V battery is installed in the master unit.
2. Connect one end of the RJ11/RJ12 cable to the RJ11 port on the master unit.
3. Connect the other end of the RJ11/RJ12 cable to the RJ11 port on the remote unit.
4. Slide the power switch to "ON" or "S".
5. Observe the LED indicators. The LEDs will light up sequentially according to the cable's pinout.

6. INTERPRETING TEST RESULTS

The sequential lighting of the LEDs on both the master and remote units indicates the status of each wire. A healthy cable will show corresponding LEDs lighting up in the same order on both units (e.g., Master LED 1 lights up, then Remote LED 1 lights up, and so on).

Table 6.1: LED Indicator Interpretation

Condition	Master Unit LEDs	Remote Unit LEDs	Diagnosis
Normal Connection	1-2-3-4-5-6-7-8-G (sequential)	1-2-3-4-5-6-7-8-G (sequential, matching master)	Cable is correctly wired and fully functional.
Open Circuit	LED for the broken wire lights up.	Corresponding LED for the broken wire does NOT light up.	A wire within the cable is broken or disconnected.
Short Circuit	Multiple LEDs light up simultaneously or out of sequence.	Multiple LEDs light up simultaneously or out of sequence.	Two or more wires are touching each other.
Crossed Wires	LEDs light up in one sequence (e.g., 1-2-3).	LEDs light up in a different sequence (e.g., 1-3-2).	Wires are connected to incorrect pins at one or both ends.
No Lights	No LEDs light up.	No LEDs light up.	No cable connected, or a complete break in the cable, or dead battery.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the tester. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery:** Remove the 9V battery if the tester will not be used for an extended period to prevent battery leakage and damage to the unit.
- **Handling:** Handle the tester with care to avoid dropping or subjecting it to strong impacts, which could damage internal components.



Figure 7.1: A black carrying pouch is included to protect the cable tester during storage and transport.

8. TROUBLESHOOTING

Table 8.1: Common Issues and Solutions

Problem	Possible Cause	Solution
Tester does not power on.	No battery installed or battery is dead.	Install a fresh 9V battery. Ensure correct polarity.
LEDs do not light up or are erratic.	Poor cable connection or faulty cable.	Ensure cables are fully inserted into the ports. Test with a known good cable.
Remote unit LEDs do not match master unit.	Cable fault (open, short, crossed).	Refer to Section 6, "Interpreting Test Results," to diagnose the specific cable fault. Replace or repair the cable as needed.
Tester seems to be stuck or unresponsive.	Temporary software glitch or low battery.	Turn the tester off, remove the battery, wait 30 seconds, reinsert the battery, and turn it back on. Replace battery if issue persists.

9. SPECIFICATIONS

Attribute	Detail
Model Number	NSHL-468
Brand	Cruiser

Attribute	Detail
Compatible Cables	RJ-11, RJ-12, RJ-45, CAT5, CAT5e, 10/100 Base-T, TIA-568A / 568B, AT and T 258-A
Max Cable Length for Test	1000 feet (approx. 300 meters)
Indicators	9 LED lights (1-8, G) on both master and remote units
Power Source	1 x 9V Battery (not included)
Material	Plastic
Color	Black, Green, White
Item Weight	3.52 ounces (approx. 100 grams)
Package Dimensions	5.08 x 5 x 1.26 inches (approx. 12.9 x 12.7 x 3.2 cm)

10. WARRANTY AND SUPPORT

This product comes with a warranty period of two years from the date of purchase. For warranty claims or technical support, please refer to the contact information provided with your product packaging or visit the manufacturer's official support channels. For additional information and support, you may scan the QR code found on the product packaging or visit the following link: <http://weixin.qq.com/r/lkO9pYDEbN0TrcTG9xaE>



Figure 10.1: Product packaging displaying the QR code for support and a list of compatible models.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question