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> NF-308 Multipurpose Network Cable Tester User Manual

## tekit NF-308

# NF-308 Multipurpose Network Cable Tester User Manual

Model: NF-308 | Brand: tekit

## INTRODUCTION

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The tekit NF-308 Multipurpose Network Cable Tester is a versatile tool designed for comprehensive cable testing. It allows a single user to perform continuity checks, identify wire errors, and measure cable length for various cable types including 5E, 6E, telephone, coaxial, and USB cables. Its portable design and long battery life make it ideal for field use.



Figure 1: NF-308 Main Tester, Receiver, and Remote Identifier.

### Key Features:

- One person operation for cable continuity checks.
- Directly hunts 5E, 6E, telephone, coaxial, USB, and other metal cables.
- Identifies wire errors: open, short, jumper wire, reverse connection, or cross-talk interference.
- Determines the distance of open and short circuits.
- Measures length for network cables, telephone cables, etc.
- Portable unit with extended battery life (up to 50 hours standby).
- Automatic time-delay shut-off and backlight for convenience.

# MULTI-FUNCTION ONE-MACHINE SOLUTION

Network line  
to line function

Test network cable length  
and breakpoint

Live line finding  
function

Port flashing  
Save time and effort

Positive and negative  
polarity test

Lamp function  
Low battery reminder



Figure 2: Multi-functionality of the NF-308 Cable Tester.

## PACKAGE CONTENTS

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

- 1 x Main Tester (NF-308)
- 1 x Receiver (NF-308-S)
- 1 x Remote Identifier (NF-308-R)
- 1 x RJ45 Cable
- 1 x RJ11 Cable
- 1 x Cable with Crocodile Clamp
- 1 x BNC Converter Cable
- 1 x Headphone
- 1 x Instruction Manual (this document)

- 1 x Carrying Bag



Figure 3: Complete Package Contents.

## SETUP

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### Battery Installation:

The NF-308 Main Tester and Receiver require 9V laminated batteries (not included). Follow these steps to install the batteries:

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



Figure 4: Battery Compartments of Main Tester and Receiver.

## Connecting Cables:

The NF-308 features various ports for different cable types:

- **RJ45 Master Port (M):** For connecting the main end of network cables.
- **LOOPBACK RJ45 Port (L):** For loopback testing of network cables.
- **Hunting RJ45 Port:** Used with the receiver for cable hunting.
- **Remote Identifier RJ45 Port (R):** Connects to the remote identifier for end-to-end testing.
- **BNC and RJ11 Converters:** For coaxial and telephone line testing.
- **USB Port:** For USB cable testing.

# CRAFTSMANSHIP SEIKO PRODUCTION

0LJKDFJLDSHGDIKDFGHNKSDFRKSDJLSDVKNISDFHSDNGBDFNKFSAIHFNKJSDHFOSLDQJMLF.CDBJDFOIFPSE.LGNFDKIV  
OSUAQFJSDNGK.DFSGHBVKISDFJLKASDGFNCKXVBHDXIFYGDAPHJNDSL3VIECK.MVNBASDIFYHDSL  
KVNDKVCYCHSDIFULFOSGNJMFDLGMRHLKRUROISDGNLSFDVNHKXCVNLK.ASFGRKDTJGHBVNDOSFVJNKALSD



Support RJ45, RJ11, BNC  
coaxial cable and  
USB test

Figure 5: NF-308 Tester Ports.

## OPERATING INSTRUCTIONS

The NF-308 offers multiple testing modes accessible via its intuitive interface.

# WIRE FAULT LOCATOR

LINE TO LINE/LENGTH TEST/LIVE LINE FINDING/PORT FLASHING



Figure 6: NF-308 Main Menu Display.

## 1. Wiremap Test (Continuity Check):

This function checks the continuity and wiring sequence of network cables (STP/UTP twin twisted cable), coaxial cables, and telephone lines.

1. Connect one end of the cable to the Main Tester's appropriate port (e.g., RJ45 Master Port for network cable).
2. Connect the other end of the cable to the Remote Identifier (NF-308-R).
3. Turn on the Main Tester. Select "WireMap" from the menu.
4. The display will show the wiring sequence and identify any open, short, jumper, reverse, or cross-talk errors.

# TESTABLE NETWORK CABLE



Figure 7: Performing a Wiremap Test.

## 2. Cable Hunting (Tracing):

Use this function to locate specific cables among a bundle or trace their path.

1. Connect one end of the cable to the Main Tester's "Hunting RJ45 Port" or use the crocodile clamp cable for non-RJ45 wires.
2. Turn on the Main Tester and select the hunting mode.
3. Use the Receiver (NF-308-S) to trace the cable. The receiver will emit an audible tone that increases in volume as it gets closer to the target cable.
4. Adjust the receiver's sensitivity (VOL) as needed.

# POE LIVE LINE FINDING



Figure 8: PoE Live Line Finding with the Receiver.

## 3. Length Measurement:

Measure the length of network cables and telephone cables, and determine the distance to open or short circuits.

1. Connect the cable to be measured to the Main Tester. For accurate measurement, ensure the cable is not connected to any active network devices.
2. Select "Pair/Length" from the menu.
3. The tester will display the cable length in meters or feet.
4. If an open or short circuit is detected, the distance to the fault will be indicated.
5. **Calibration:** For optimal accuracy, calibrate the device using a known cable length greater than 5 meters.

## 4. Port Flashing:

This feature helps identify the port on a switch or router to which a cable is connected by causing the port's LED to flash.

1. Connect the Main Tester to one end of the network cable.

2. Connect the other end of the cable to a port on the network switch/router.
3. Select "Port Flash" from the menu.
4. Observe the LEDs on the switch/router; the connected port's LED will flash, allowing for easy identification.

## 5. Polarity Test:

The NF-308 can perform a positive and negative polarity test, useful for certain wiring configurations.

1. Connect the cable to the appropriate port on the Main Tester.
2. Select the polarity test function (refer to the device's on-screen menu if not explicitly listed as "Polarity Test").
3. The display will indicate the polarity status.

## MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use abrasive cleaners or solvents.
- **Storage:** Store the NF-308 in a cool, dry place, away from direct sunlight and extreme temperatures. When not in use for extended periods, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings and proper operation.
- **Handling:** Handle the device with care to avoid dropping or physical impact, which could damage internal components.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Device does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with fresh 9V batteries.
Inaccurate length measurement.	Cable not properly calibrated or connected to active device.	Ensure cable is disconnected from all network devices. Perform length calibration with a known cable length (>5M).
No tone from receiver during hunting.	Receiver battery low, sensitivity too low, or main tester not in hunting mode.	Check receiver battery. Increase receiver volume/sensitivity. Ensure main tester is in hunting mode.
Wiremap shows errors on a good cable.	Poor connection or damaged remote identifier.	Ensure all connections are secure. Test with a different remote identifier if available.

## SPECIFICATIONS

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Parameter	Value
Model	NF-308

Parameter	Value
Main Tester Dimensions	185 x 105 x 50 mm
Receiver Dimensions	218 x 46 x 29 mm
Power Source	Two 9V laminated batteries (not included)
Display	Special 4*16 character big screen LCD lattice
Cable Types Tested	STP/UTP twin twisted cable, coaxial cable, telephone line
Cable Types Detected	5E, 6E, telephone wire, coaxial cable, USB cable and other metal wires
Ambient Temperature	-1°C to +60°C
Tester Ports	RJ45 master port (M), LOOPBACK RJ45 port (L), Hunting RJ45 port, Remote identifier RJ45 port (R), BNC and RJ11 converters
LAN Cable Scope	1 to 350 M (3 to 200 ft)
Calibration Accuracy	3% (+/- 0.5M or +/- 1.5 ft) (calibrating cable > 5M)
Shipment Accuracy	5% (+/- 0.5 M or +/- 1.5 ft) (AMP, AT and T Class 5 cable)
Length Calibration	More than 5M

## SUPPORT

For further assistance or technical support regarding your tekkit NF-308 Multipurpose Network Cable Tester, please refer to the contact information provided by your retailer or visit the official tekkit website.

Please retain your purchase receipt for any warranty claims.

