



## NOYafa NF-308S Wire Fault Locator Instruction Manual

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 Please read and learn safety instructions before use or maintain the equipment

- The tester uses 9V battery for power supply .
- Never put the equipment in the place with much dust, humidity and high temperature (over 40°C).

- Please use battery according to the specification; otherwise, it may result in damage to equipment.
- Please never dismount the equipment arbitrarily. The maintenance and care shall be conducted by professional personnel.
- The tester will shut off automatically if it does not work for 30 minutes in succession.
- Please take out the battery in launcher and receiver if the equipment is not used for a long time so as to prevent that the battery liquid is leaked in future.
- Never use the equipment to detect power cord with electricity (such as power supply circuit of 220V), otherwise, it may result in damage to equipment and personal injury.
- Never conduct related operation of communication line in thunderstorm weather so as to prevent lightning stroke and impact on personal safety.

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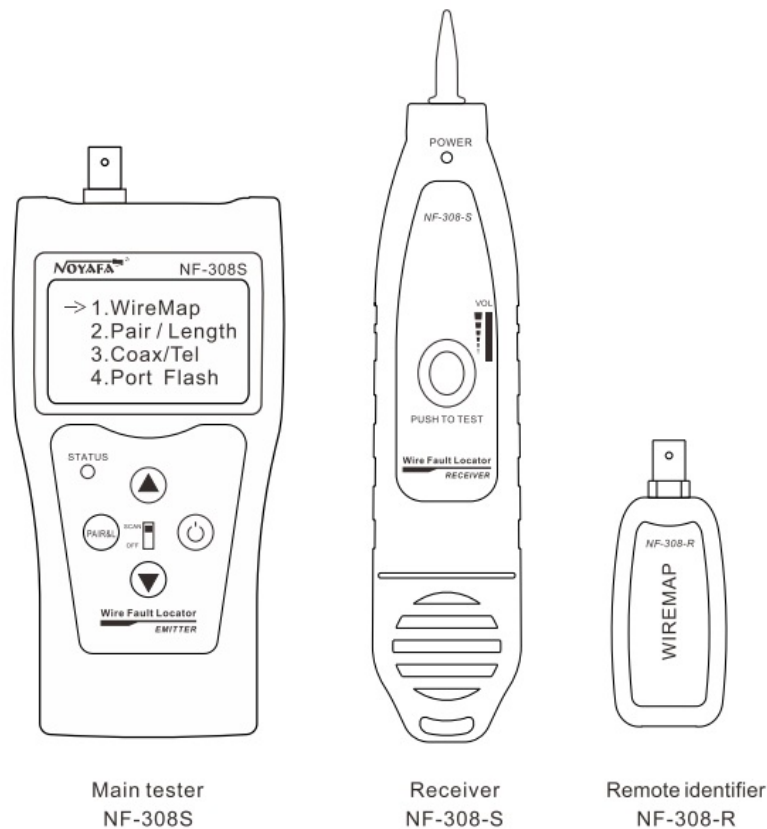
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## Overview

NF-308S is a practical cable test & inspection instrument with lots of new functions researched and developed by our company, which is composed of tester ( NF-308S ), receiver ( NF-3085-R) and remote identifier. It owns three great functions of wire hunting, wire sorting and circuit status testing quickly and accurately. thus, it becomes available tool for technicians in installation and maintenance of weak current system, such as, communication line, comprehensive wiring circuit, etc. It is widely applicable to telephone system, computer network and other fields.



## Main Functions and features

1. Check SE, 6E and Coaxial Cable continuity, such as open circuit, short circuit, cross circuit, reverse connection.
2. Measure network cable length and determine the distance of open and short circuit is.
3. Directly locate 5E, 6E, telephone cable, coaxial cable, USB cable and other cables.
4. Port Flashing function helps to find the SE 6E network cable which connected to the switch easily.
5. Locate wiring or connection error.
6. Dynamically calibrate cable length and make the cable length measurement as accurate as 98%.
7. Simple and easy use. Big screen to display the test result clearly.
8. The main tester (tc 7V) has a low voltage alert function.
9. Portable unit with long battery life (wait case 50 hours).
10. Automatically time- delay shut off and backlight display function.

## Technical indexes

### 1. Overall Dimension

Main tester: 185x 105x 50mm;

Receiver: 218x46x29mm

Remote identifier: 84x34x27mm.

### 2. Display

Big LCD screen: Special 128x 64 character(valid visual field 64 x 32 mm).

### 3. Power

Two laminated batteries of 9V.

**4. Type of cable tested**

STP/UTP twin twisted cable, RJ11, coaxial cable, USB cable and other metal wires.

**5. Type of cable detected**

STP/UTP 5E, 6E, telephone wire, coaxial cable, USB cable and other metal wires.

**6. Display**

Working temperature/humidity -10°C – +60°C /20% – 70%

**7. Tester Port**

Master: RJ45 main port, Port Flash, RJ45 Scan, RJ11 scan, USB Scan, BNC port and power port.

Remote Identifier: RJ45 port(R), BNC Port. Receiver: Earphone port

**8. Length Measurement of RJ45**

Measuring range: 5-350 M ( 3 -1148 ft)

Calibration accuracy: 2% (+/- 0.5M or +/- 1.5 ft)(calibrating cable > 10 M)

Measuring accuracy: 5% (+/- 0.5 M or +/- 1.5 ft).(AMP, AT&T Class 5 cable) Display Unit: M or ft.

**9. Length Measurement of RJ45**

User can set calibration coefficients by himself with a given length cable. The length of calibrating cable is more than 10 M.

**10. Wire Sequence and Locating Cable Error**

Check errors such as open circuit, short circuit, reverse connection, cross-over.

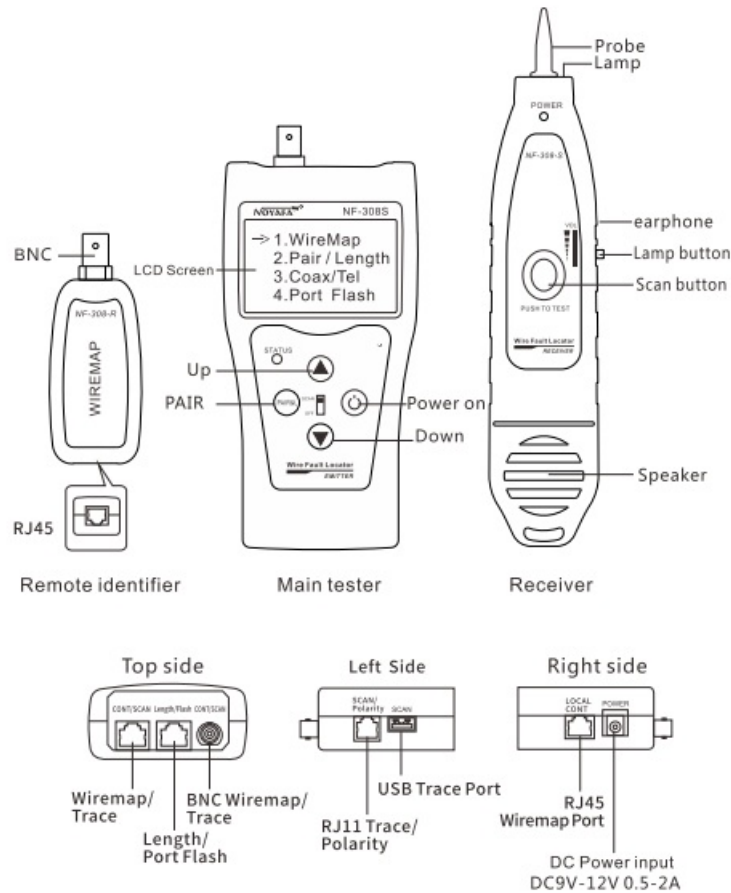
**11. Positive and negative judgment**

The main tester can polarity testing by clipping wires.

**12. Port Flash**

Insert one end of the network cable into the “port flash” port on the main tester, another end to the switch. It will help to find the target cable easily ( network cable condition must be good ).

## Product interface and keypad introduction



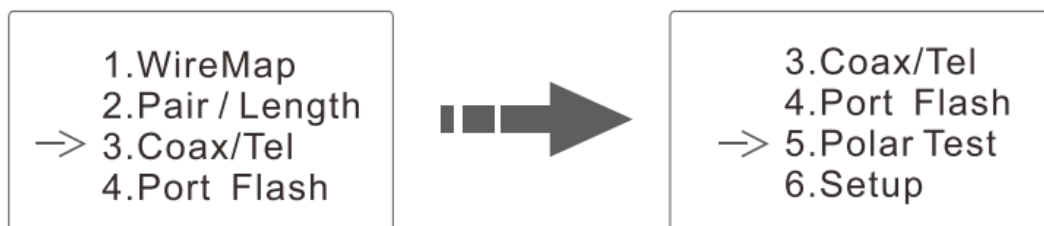
## Product operation methods

### Boot Screen

Carry out self-checking at the same time (The dotted line dynamically displays the course of self-checking from left to right):

Welcome to choose noyade NF-308S

Wait 5 seconds or push any arbitrary key to display main menu. Main menu display:



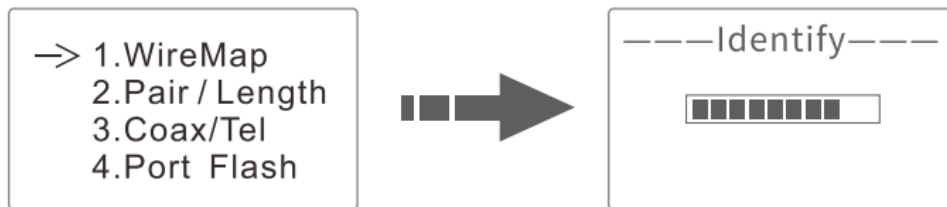
There are six functions to be chosen on main menu.

1. WireMap—Wiring diagram measurement to check end-to-end continuity of cables in M, R and locate errors.
2. Pair & Length—Pair and measure length to know open, short, points, verify cable length, open circuit distance.
3. Coax/Tel— Coaxial cable and telephone line.
4. Port Flash—Insert the cable into port flash , it will help find the target cable which connected to the switch easily.
5. Polar. Test—help find the positive and negative power.
6. SETUP—Calibrate and set up the tester (Refer to description hereinafter).

**Note** Never put a telephone cable into RJ45 Port especially a charged one, for fear of burnout to the tester.

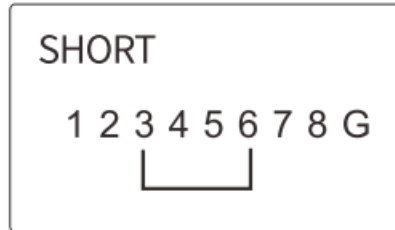
### 5.1, Wiremapping

After entering the wiring diagram (WIREMAP), the tester shall carry out wiring diagram (WIREMAP) test and displays as follows.



#### 1. Test Result : Short circuit (SHORT)

It displays as follows if there is any short circuit in cable or terminal: (e.g.3 6 short circuit in the sample)



At the moment, press “OC)” key to restart testing or press ” PAIR&L” key to return main menu.

#### 2. Test Result : It will display as follows if the cable to be checked does

Not insert into the far-end matcher ( ID ) or the cable does not insert into the local port.

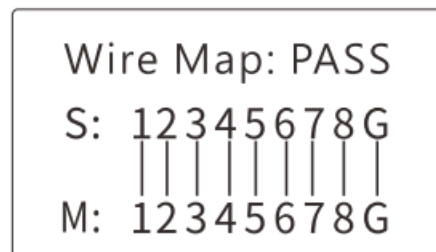


Cable open or too short !

At the moment, press ” (DC)” key to restart testing or press ” PAIR & L” key to return main menu.

#### 3. Test Result : Good condition (eg, STP cable)

Local test mode: One end to “MAIN” port, the other end to “RJ45 SCAN” port of transmitter. The result is as below.



Remote test mode: One end to “MAIN” port of transmitter, the other end to “RJ45” port of remote. The result is as below.

#### Attention:

“R” is short for “Remote” .

“s ” is short for “SCAN” .

“M” is short for “Main” side.

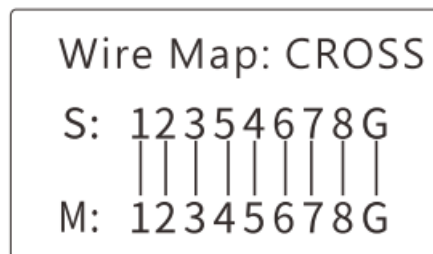
“G” means the cable is STP cable. At the moment, press

“Q0” key to restart testing or press

” PAIR&L” key to return main menu.

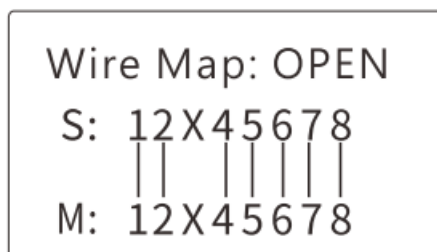
#### 4. Test Result : Cross condition(eg,4 5 cross in the sample)

It displays as follows if there is any cross in cable or terminal:

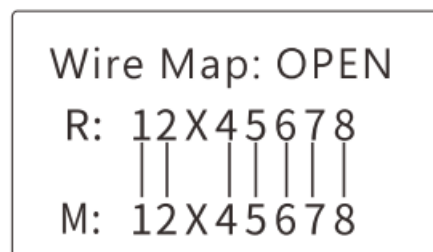


### 5. Test Result 5: Open circuit in the middle

In the above two test modes, pin 3 is open around at the middle of the cable.



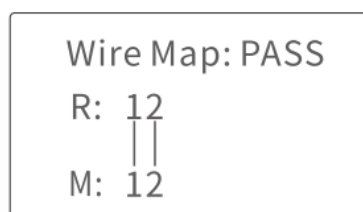
Local wiremap



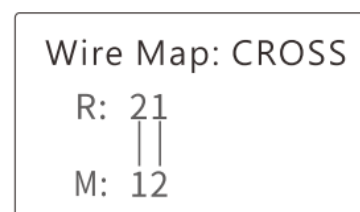
Remote wiremap

### 6. Test Result 6: Coaxial cable continuity testing

After entering into coaxial cable measurement(Coax/Tel)function, the tester shall start to test and show the test result as follows:



Good condition



Cross conditon



Open condition



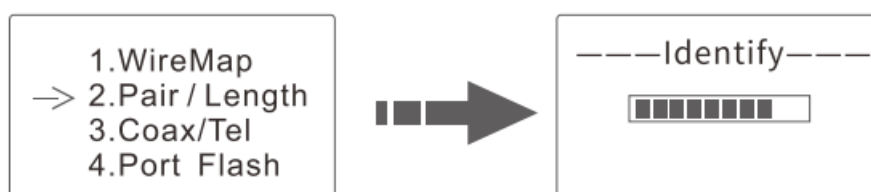
Short condition

It shall display “OPEN” if there is any open circuit or the coaxial cable is not connectedly shall display “SHORT” if there is any short circuit.

At the moment, press “▲▼” key to restart testing or press ” PAIR&L” key to return main menu.

### 5.2, Measuring length for RJ45

Pair and length measurement (PAIR & LENGTH) function: When testing cable length, just connect one end of cable with Main tester (Length/flash port), no need the remote unit. After entering into “PAIR & LENGTH” function, it will display as follows to indicate the measurement is being undertaken:



**Note:** In view of different technical parameters in various brand cables,the user should calibrate the cable length before length measurement(Refer to the details herein).

### Test Result :

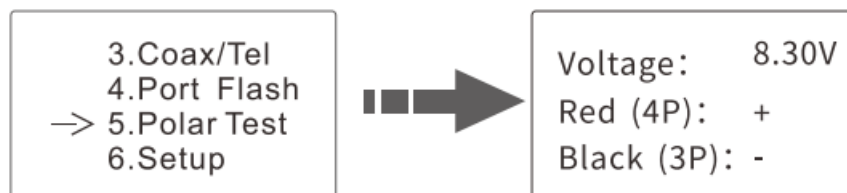
Normal pair and length (PAIR & L ENGT H) display It will display as follows if pair and length(PAIR & LENGTH) measurement is in normal condition:

Pair	12	105.3m
Pair	36	105.3m
Pair	45	105.3m
Pair	78	105.3m



### 5.3, Polarity test

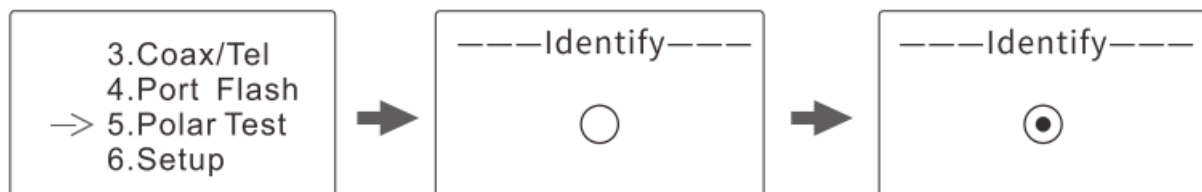
Firstly, insert into RJ11/SCAN port with the standard alligator clips. Secondly, choose “polar Test” from the main menu when you have clamped the battery polarity with the clips.

Thirdly, you can see the result shown on the screen: Voltage of the battery, Red & Black tells you the polarity. ( “+” means anode, “-” means cathode). ATTENTION: whenever you connect anode or cathode for the red & black clips, it’s doesn’t matter for the result.




### 5.4, Port-flash testing:(Only used to tracing RJ45 cable)

Choose “Port flash” function in the menu, take one side of the RJ45 cable insert into “Length/flash” Port, the other side connects with switch/router,press” Pa ilk” to enter port-flash testing, and the screen display  if the cable continuity is well,the LCD will display  . ,and the flash frequency is same as the LED light of the port on switch/router. it will help find the target cable which connected to the switch easily.



### 5.5 Low battery alert

When the battery of the main tester is less than 7V, LCD screen display a flash icon “ ”

### 5.6 Start up or shut down and hunting function

1. Press PUSH key, the hunting indicator light (SCAN) flashes,which indicates that audio frequency transmission of main tester is normal , insert the cable to be tested into RJ45 SCAN Port . then hold the receiver to trace cable needed (the usage of receiver is shown in the following). RJ11/BNC/ USB cable is located when inserted into its corresponding port.



### 2. Usage of the receiver

Install 9V battery ,press “PUSH” key, then approach the cable with probe and find targeted one among lots of cables. When the probe is near target wire, the “beep, beep and beep” sound will come out and the signal indicator light “POWER” will be on. When loudest “beep” and brightest indicator means that is the required cable.

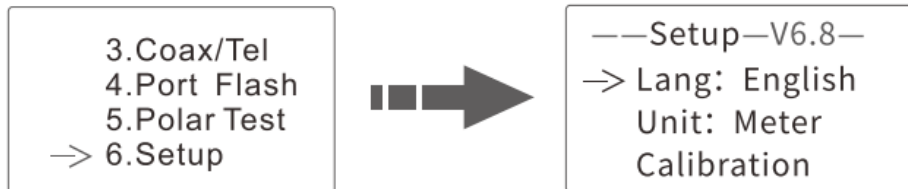


- The user can turn volume switch to control the volume.
- The lamp function helps the users operate in dark environment.
- Earphone helps avoid external interference in noisy environment.
- The tester can not measure cable length and wire faults when it is operated to trace cable.

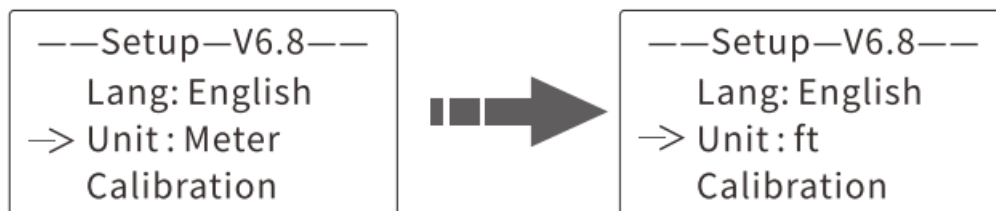
## Setting function

Choose "Set" function in the menu,press "Paarl" enter the setting menu,press ▲▼ "TO to choose term:

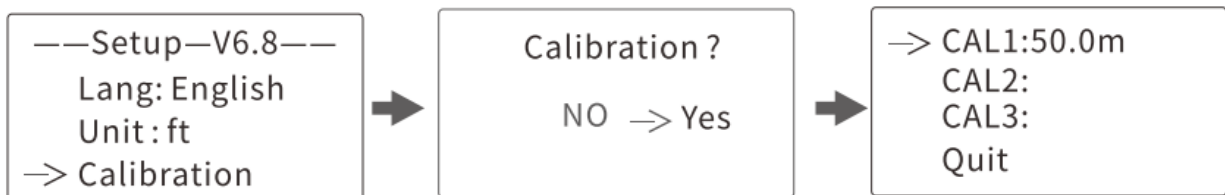
- Language setting: press "Paarl" to switch Chinese/English.



- Unit setting: press "Paarl" to switch m/feet.

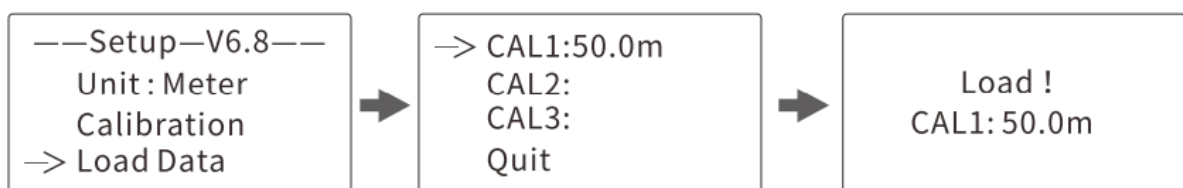


- Calibration: Take a given length cable, one side insert into "Length/flash" port, the other side is empty.



Press "Paarl" to test the length result,press "TC)" to adjust the data is same with the given length cable. Press "Pa ilk" to save the data to "Calibration 1/2/ ",choose return to menu.

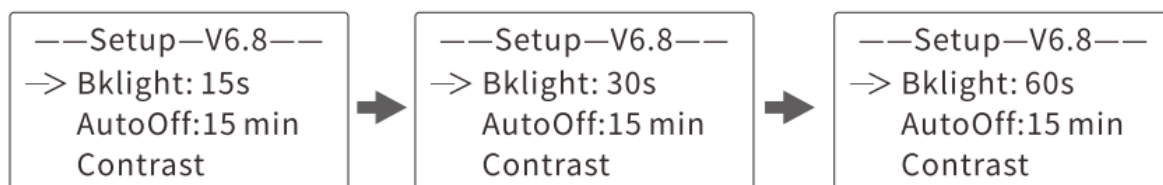
- Load data: press "Paarl" to enter and choose the Calibration data.



- Backlight time set:press "Pair&L" to set backlight time 15s/30s/60s.



- Auto-off time set: press "Pair&L" to set auto-off time 15nin/3min/lh/2h/OFF.



## Accessories list

3085 Main Tester	1 pc	Alligator clips	1 pc
308S Receiver	1pc	RH23 adapter	1pc
3085 Remote	1pc	User manual	1pc
Earphone	1pc	Carry bag	1pc
Telephone line adapter	1 pc	Color box	1 pc
Certification Card	1pc		

## Diagram of series products



## Documents / Resources



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Manuals+.