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TRIPP LITE RJ45 Multi Function Cable Tester Wire Tracker

TRIPP LITE RJ45 Multi Function Cable Tester Wire Tracker Owner's Manual

Contents

TRIPP LITE RJ45 Multi Function Cable Tester Wire Tracker

Product Information

Specifications

- **Model:** T010-001-K
- **Supported Connectors:** RJ45, RJ11, BNC, USB

Product Features

- Main Tester Unit
- Remote Probe Unit
- Remote Tester Unit
- LCD Interface Menu

Product Usage Instructions

Wire Mapping Test

1. Connect a patch cable (Cat5, Cat6, RJ11, USB, BNC) from the appropriate connector on the Main Tester unit to the Remote Tester unit. Alternatively, you can connect an installed cable from a faceplate, switch, or other device to the Main Tester.
2. Press the On/Off button on the Main Tester unit to turn it on.
3. In the menu, use the Up/Down buttons to navigate to the Type option.
4. Press the Enter button to toggle between the cable type options until you get to the type of cable you are testing.
5. Navigate to the Wire Mapping option in the menu and press the Enter button to initiate the test.
6. A screen will appear indicating that the tester is identifying the wire mapping of the connected cable, followed

by the results of the test.

Cable Length Test
If performing a Cable Length test for the first time, it is recommended to perform Calibration for the most accurate results. Follow the steps below:

1. Connect a cable to the appropriate port on the Main Tester unit.
2. Press the On / Off button on the Main Tester unit to turn it on.
3. In the menu, use the Up / Down buttons to navigate to the Cable Length Test option.
4. Press the Enter button to initiate the test.
5. Follow the on-screen instructions to complete the calibration process.
6. After calibration, navigate to the Cable Length Test option again and press the Enter button to perform the test.

FAQ

Q: What connectors are supported by the Multi-Function Cable Tester?
A: The Multi-Function Cable Tester supports RJ45, RJ11, BNC, and USB connectors.

Q: How do I perform a Wire Mapping Test?
A: To perform a Wire Mapping Test, follow these steps:

1. Connect a patch cable or installed cable to the appropriate connectors on the Main Tester and Remote Tester units.
2. Turn on the Main Tester unit.
3. Select the cable type in the menu.
4. Initiate the test by selecting the Wire Mapping option in the menu.
5. View the test results on the screen.

Q: How do I perform a Cable Length Test?
A: To perform a Cable Length Test, follow these steps:

1. Connect a cable to the Main Tester unit.
2. Turn on the Main Tester unit.
3. Select the Cable Length Test option in the menu.
4. Initiate the test and follow the on-screen instructions for calibration.
5. Perform the Cable Length Test after calibration.

Package Includes

- Main Tester Unit
- Remote Tester Unit
- Remote Probe Unit
- RJ11 Jumper Cable – 6 in.
- RJ45 Jumper Cable – 6 in.
- RJ11 to Alligator Clips Adapter
- Headphones for Cable Tracing

- Owner's Manual

Product Features

- All-in-one, multi-function kit for testing cable wiring, length, fault, and location of cables
- Easy-to-use LCD interface
- Test cable wiring for open, short, cross, reverse and pairing connection
- Determine the location of the open circuit position
- Determine the length of a cable, whether in a wall or on a spool—up to 4,920 ft. (1,500 m)
- Perform cable tracing to find a cable within a bundle of cables
- Allows for testing of RJ45 (STP/UTP), RJ11, USB and BNC cabling and common metal wires (using alligator clips adapter)
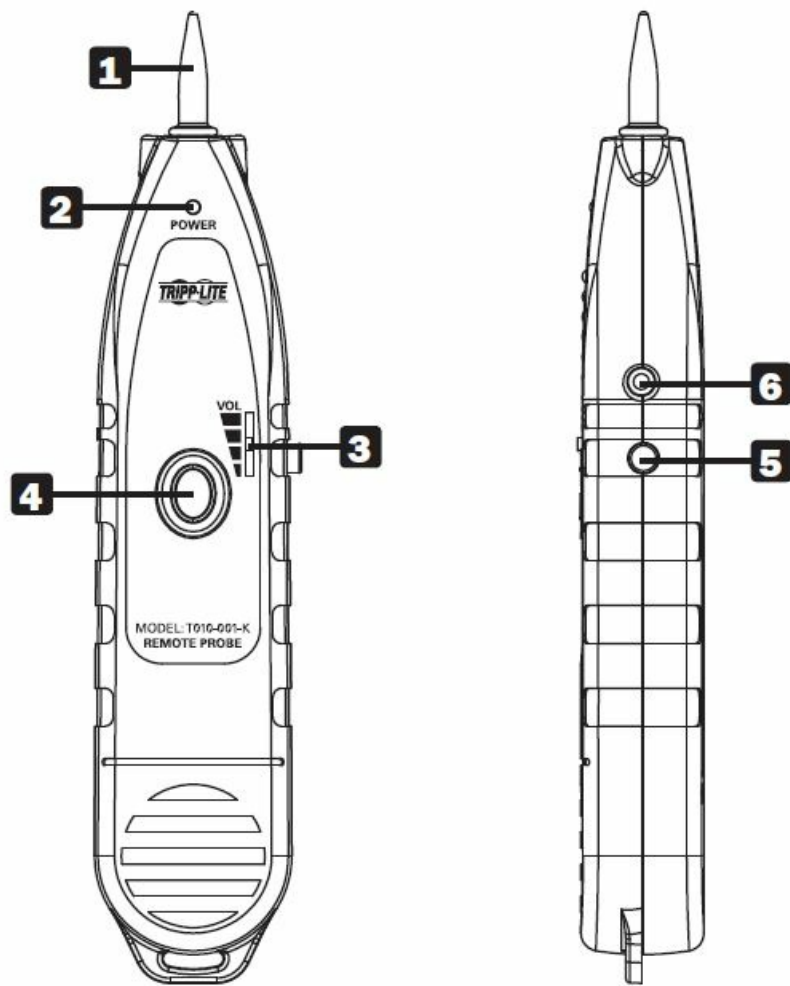
Main Tester Unit

1. RJ11 Port
2. USB B Port
3. BNC Port
4. RJ45 SCAN Port – Used for cable tracing test.
5. RJ45 MAIN Port – Used in cable wiring, length and fault test.
6. UP Button – Press to move up through the menu in the LCD interface.
7. DOWN Button – Press to move down through the menu in the LCD interface.
8. ON/OFF Button – Press to turn the Main Tester on and off.
9. ENTER Button – Press to select an option in the LCD interface menu.
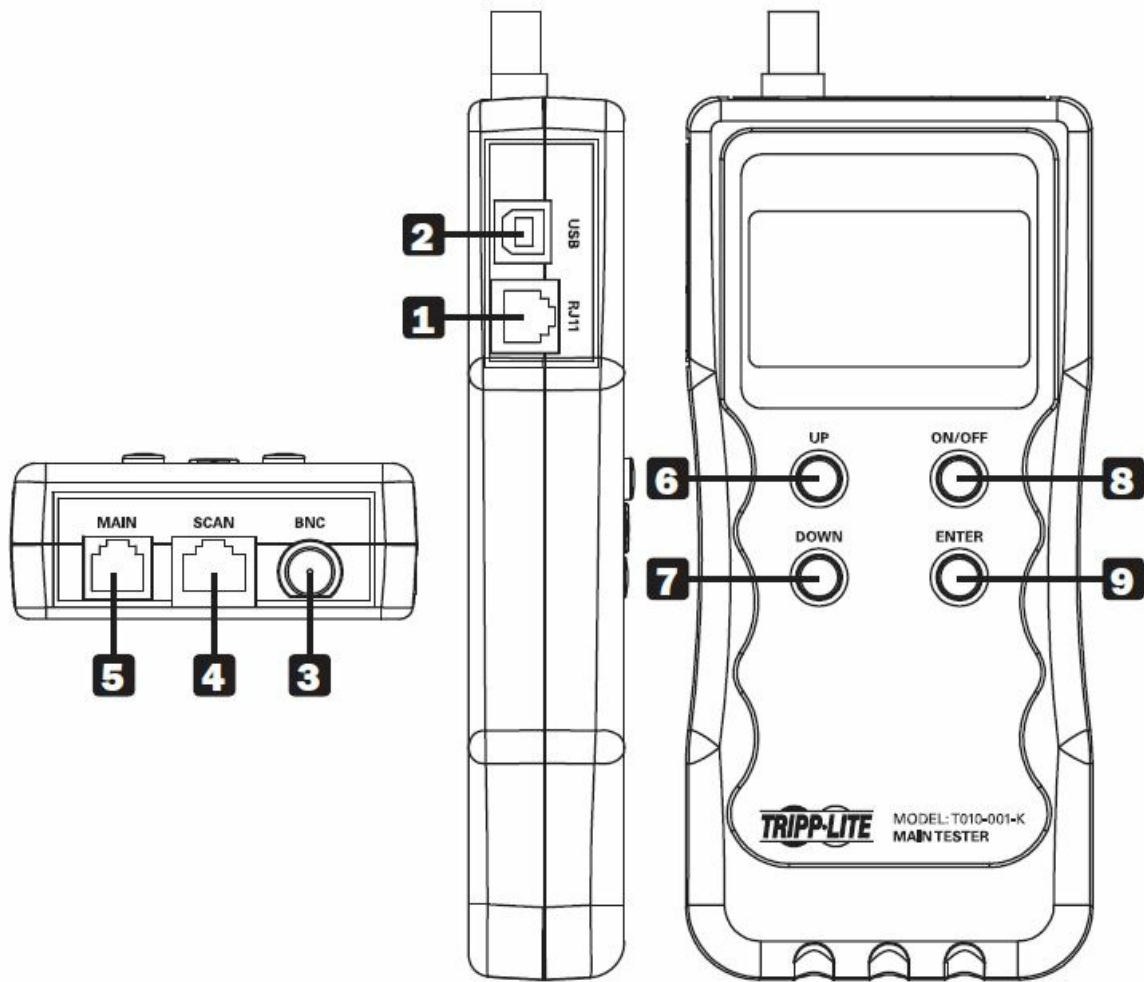
Remote Probe Unit

1. **Probe** – Part of the unit that is pointed towards the cable when performing cable tracing.
2. **Power LED** – Illuminates red when the test button is pressed during cable tracing.
3. **Volume Slider** – Move it up and down to adjust the volume of the tone generated during cable tracing.
4. **Test Button** – Press to send the tone through the cable when performing cable tracing.
5. **Flashlight Button** – Press to turn on the flashlight at the front of the probe.
6. **Audio Jack** – Plug in the included headphones here.

Remote Tester Unit

1. RJ45 Port
2. USB A Port
3. RJ11 Port
4. BNC Port
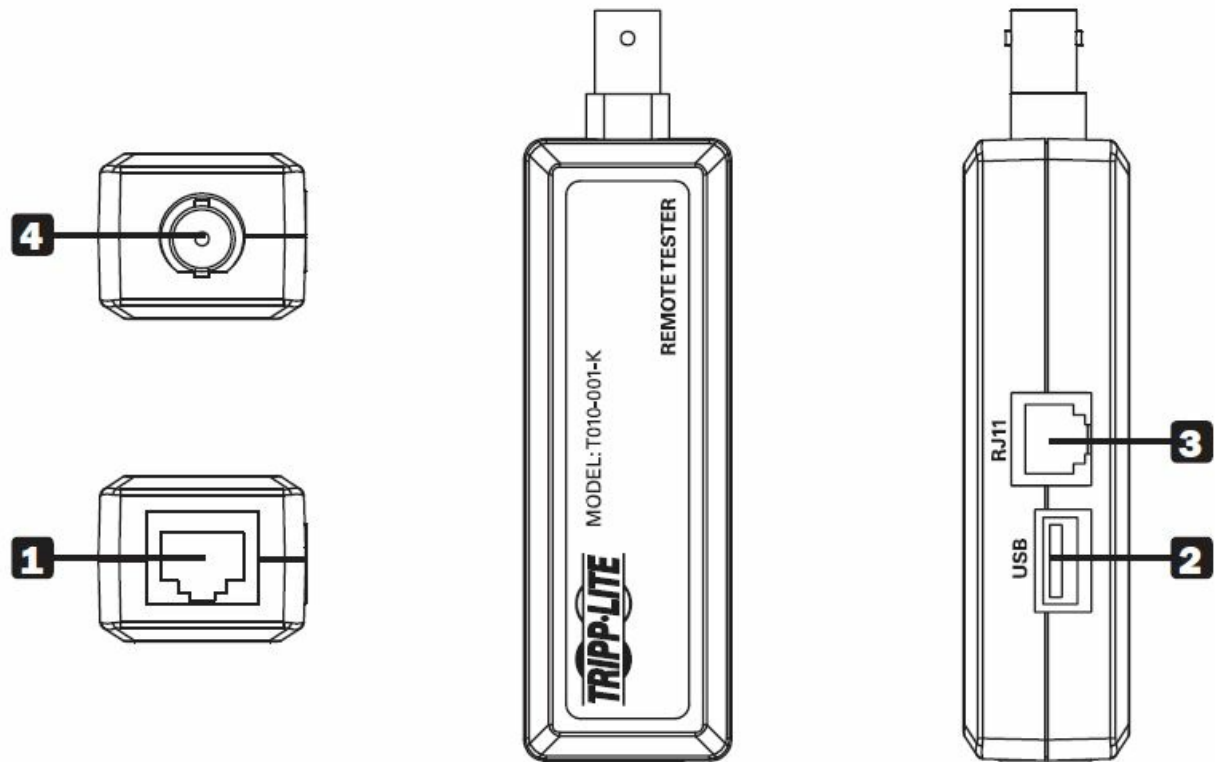
LCD Interface Menu

The following options are available in the LCD Interface Menu.

- **Language** – Select the language in which to display the LCD Interface Menu.
- **Type** – Choose the type of cable you are connecting to.
- **Wire Mapping** – Used to perform Wire Map testing.
- **Cable Length** – Used to perform a Cable Length test.
- **Scan Cable** – Used when performing the Wire Tracking function.
- **Unit** – Determine the unit of measurement in which to display length information.
- **Calibration** – Used to calibrate the tester prior to performing a Cable Length test.
- **Load Data** – Used to load saved calibration data.
- **Auto off-time** – Used to determine the length of inactivity before the unit shuts off.

Wire Mapping Test

1. To perform a Wire Mapping test, connect a patch cable (Cat5, Cat6, RJ11, USB, BNC) from the appropriate connector on the Main Tester unit to the Remote Tester unit. You can also connect an installed cable from a faceplate, switch or other device to the Main Tester.
   **Note:** When testing the Cat5 / Cat6 cable, use the RJ45 port on the Main Tester marked Main.
2. Press the On / Off button on the Main Tester unit to turn it on.
3. In the menu, use the Up / Down buttons to navigate to the Type option. Press the Enter button to toggle between the cable type options until you get to the type of cable you are testing.
4. After selecting the cable type, navigate to the Wire Mapping option in the menu and press the Enter button to initiate the test. A screen will appear indicating that the tester is identifying the wire mapping of the connected cable, followed by the results of the test. Listed below are the possible test results.

Note: Test results are shown for Cat5 / Cat6 cable testing. The number of pins shown in the test results will differ based on the type of cable being tested.

- **Correct Connection** – When a cable with a correct connection is tested, results like those to the right will appear to indicate that all of the proper pins are connected and there are no faults.

```
Wire Map: Remote
M:  1 2 3 4 5 6 7 8 G
    | | | | | | | | |
    | | | | | | | | |
R:  1 2 3 4 5 6 7 8 G
```
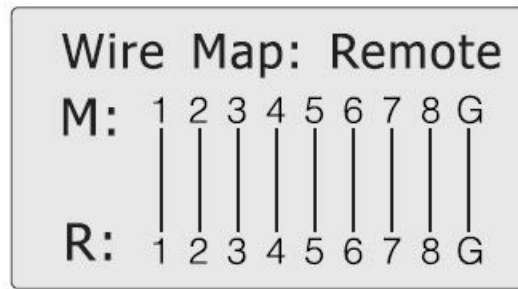
- **Cable Open/Too Short** – When the results to the right appear, it means that either the cable under test does not have any pins directly connected from one end to the other, you do not have a cable connected at all (or one end is not connected), you do not have the appropriate cable type selected in the LCD Interface, or the cable is too short to be tested.

```
⚠  Cable open or
   too Short!
```
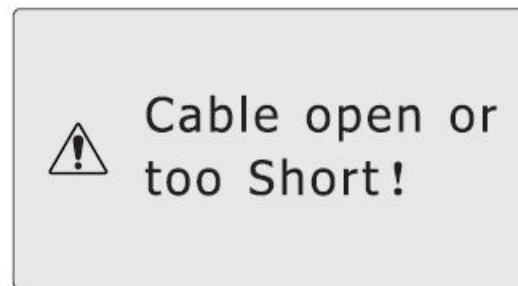
- **Open Circuit on Near End** – If there are open pins found on the near end of the cable, results like those to the right will appear, indicating the open pins with an X.

```
Wire Map: Local
M:  1 2 X 4 5 X 7 8
    | |   | |   | |
    | |   | |   | |
S:  1 2 3 4 5 6 7 8
```
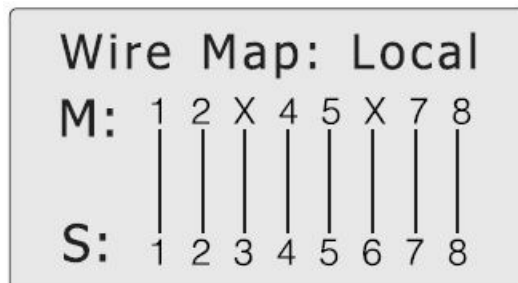
- **Open Circuit on Far End** – If there are open pins found on the far end of the cable, results like those to the right will appear, indicating the open pins with an X.

```
Wire Map: Remote
M:  1 2 3 4 5 6 7 8
    | | |     | | |
    | | |     | | |
R:  1 2 3 X X 6 7 8
```
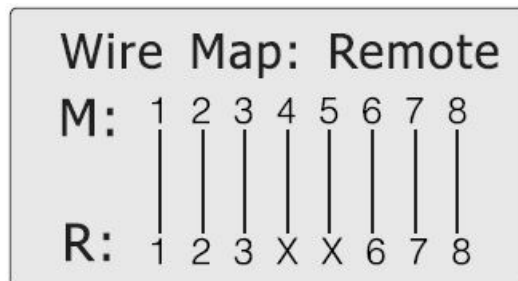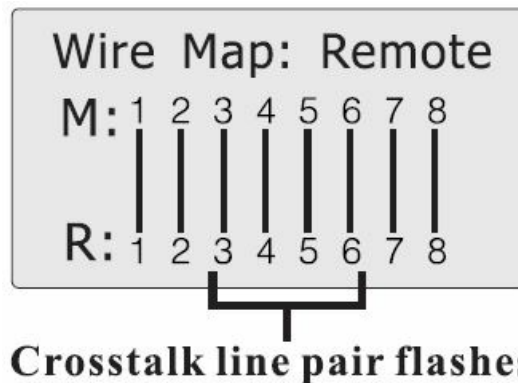
- **Open Circuit In-Between Near and Far Ends** – If there is an open circuit in-between the near and far ends, results like those to the right will appear, indicating the open pins with an X on both sides. When there is an open circuit between the near and far ends of the cable, you can locate the position of the fault by performing a Cable Length test.

```
Wire Map: Local
M:  1 2 X 4 5 6 7 8
    | | | | | | | |
    | | | | | | | |
S:  1 2 X 4 5 6 7 8
```
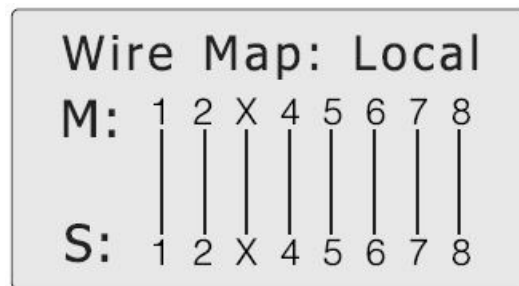
- **Short Circuit** – If there is a short circuit, results like those to the right will appear to indicate the affected pins.

```
Short mapping:
1 2 3 4 5 6 7 8
      |___|
```
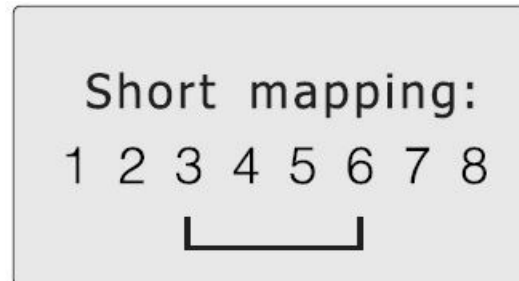
- **Crosstalk** – If crosstalk is found, results like those to the right will appear. The pins where crosstalk is detected will be flashing.

```
Wire Map: Remote
M: 1 2 3 4 5 6 7 8
   | | | | | | | |
   | | | | | | | |
R: 1 2 3 4 5 6 7 8
        |___|
```

Crosstalk line pair flashes

- **Correct Connection (Installed Cable)** –When testing an installed cable that connects from the Main Tester unit to a wallplate, switch or other device, a correctly connected cable is indicated by results like those to the right.

```
Short mapping:
1 2 3 4 5 6 7 8
|_|_|_|_|_|_|_|
```
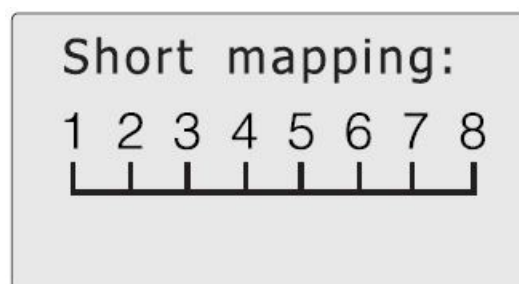
- **Open Circuit (Installed Cable)** – When testing the installed cable that connects from the Main Tester unit to a wallplate, switch or other device, open circuits are indicated by results like those to the right. They indicate pins 1 and 2 are open.

```
Short mapping:
1 2 3 4 5 6 7 8
    |_|_|_|_|_|
```
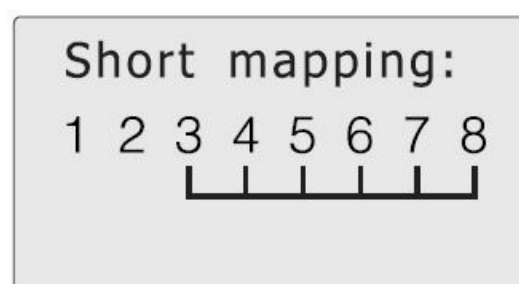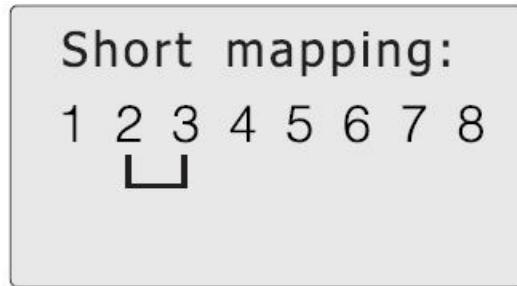
- **Short Circuit (Installed Cable)** – When testing the installed cable that connects from the Main Tester

unit to a wallplate, switch or other device, a short circuit is indicated by results like those to the right. They indicate a short circuit involving pins 2 and 3.

```
┌─────────────────────────┐
│                         │
│  Short mapping:         │
│                         │
│  1 2 3 4 5 6 7 8        │
│    └┘                   │
│                         │
│                         │
└─────────────────────────┘
```

Cable Length Test

If performing a Cable Length test for the first time, it is recommended you perform Calibration for the most accurate results. To perform Calibration, follow the steps below.

Calibration

1. Connect a cable to the appropriate port on the Main Tester unit, using the RJ45 port marked Main for Cat5 / Cat6 cables. You do not need to connect the other end to the Remote Tester unit.
2. Navigate to the Type option in the LCD Interface Menu and select the type of cable you have connected by pressing the Enter button to toggle through the options.
3. Once you've selected the appropriate cable, navigate to the Unit option and select the unit of measurement you want to display results in by pressing the Enter button to toggle through the options.
4. Once you've selected the unit of measurement, navigate to the Calibration option and press the Enter button to initiate calibration.
5. A screen will appear asking if you want to proceed. Choose Yes and press the Enter button to proceed with calibration.
6. The tester will measure the cable, providing the results as a Base Adjust measurement. Use the Up and Down buttons to bring the length to the exact measurement of the cable you have connected and press the Enter button.
7. Upon pressing Enter, a screen will appear that lists Calibration 1 through Calibration 7. You can save up to seven sets of calibration data to use with various cables. Select the desired option and press the Enter button to store your calibration data in that option.
8. To use the stored data, navigate to the Load Data option in the LCD Interface Menu and press Enter. The same list of calibration options appears, listing Calibration 1 through Calibration 7. Select the desired option and press Enter to load the calibration data into the tester. You are now ready to to perform Cable Length testing.

Performing a Cable Length Test

1. Connect a cable to the appropriate port on the Main Tester unit, using the RJ45 port marked Main for Cat5 / Cat6 cables. You can choose to connect the other end to the Remote Tester unit or not.
2. Navigate to the Type option in the LCD Interface Menu and select the type of cable you have connected by pressing the Enter button to toggle through the options.
3. Once you've selected the appropriate cable, navigate to the Unit option and select the unit of measurement you want to display results in by pressing the Enter button to toggle through the options.

4. Once you've selected the unit of measurement, navigate to the Cable Length option and press the Enter button to initiate the test.

5. A screen will appear indicating the tester is identifying the length of the connected cable, followed by the results of the test. The possible test results are listed below.

- **Normal Pairing and Length** – When there are no faults in the cable pairing, results like those to the right will be shown. If you have the other end of the cable connected to the Remote Tester unit, the middle column of text will show M-R. If you do not have the remote end of the cable connected, the middle column of the text will show OPEN. The Pins will be displayed in the left column of the text, and the calculated length in the right column. Press the Up and Down buttons to toggle to pins that are not displayed on the screen.

1	Open	105.0m
2	Open	105.0m
3	Open	105.0m
4	Open	105.0m

- **Abnormal Pairing and Length** – When there are faults found in the cable pairing, test results similar to the Normal Pairing and Length results will be shown, except for any pins with faults, the length shown in the right column will be shorter than that of the rest of the cables. This will indicate the location of the fault along the wire.

Wire Tracker Test

Notes:

- The included headphones can be used when in a noisy environment to ensure you are hearing the tone from the Remote Probe Unit.
- Press the flashlight button on the side of the Remote Probe Unit to turn on the light for use in dark areas.

1. Connect a cable to the appropriate port on the Main Tester unit, using the RJ45 port marked Scan for Cat5 / Cat6 cables.
2. Navigate to the Type option in the LCD Interface Menu and select the type of cable you have connected by pressing the Enter button to toggle through the options.
3. Once you have selected the cable type, navigate to the Scan Cable option and press the Enter button to initiate the test. A screen will appear to indicate that a scan is taking place.
4. Using the Remote Probe Unit on the other end of the cable, press and hold down the Test button while running the probe across the various cables. When the probe comes into contact with the cable connected to the main tester, the probe tone will sound to indicate that you have found it.

Warranty and Product Registration

1-YEAR LIMITED WARRANTY
TRIPP LITE warrants its products to be free from defects in materials and workmanship for one (1) year from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material

Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service centre with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment, which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

EXCEPT AS PROVIDED HEREIN, TRIPP LITE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL TRIPP LITE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, TRIPP LITE is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

PRODUCT REGISTRATION
Visit **www.tripplite.com/warranty** today to register your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

- No purchase is necessary. Void where prohibited. Some restrictions apply. See website for details.

**WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)**
Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

Use of this equipment in life support applications where the failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.
1111 W. 35th Street, Chicago, IL 60609 USA **www.tripplite.com/support**.

Documents / Resources
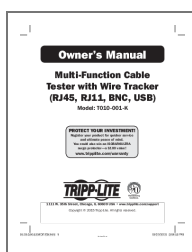
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RJ45 Multi Function Cable Tester Wire Tracker, RJ45, Multi Function Cable Tester Wire Tracker, Function Cable Tester Wire Tracker, Cable Tester Wire Tracker, Tester Wire Tracker, Wire Tracker, Tracker

References

- **Help Center | Eaton**
- **Product Registration | Eaton**
- **Manual-Hub.com - Free PDF manuals!**
- **User Manual**