



## Remote Continuity Tester Model 82148

**CAUTION:** Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

- Safety
- Operation
- Español

### ONE YEAR FULL WARRANTY

ONE YEAR FULL WARRANTY ON CRAFTSMAN Continuity Tester  
If this CRAFTSMAN Continuity Tester fails to give complete satisfaction within one year from the date of purchase, RETURN IT TO THE NEAREST SEARS STORE OR OTHER CRAFTSMAN OUTLET IN THE UNITED STATES, and Sears will replace it, free of charge.  
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.  
Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

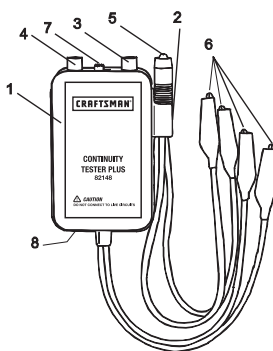
For Customer Assistance Call 9am - 5pm (ET)  
Monday through Friday 1-888-326-1006

**WARNING: USE EXTREME CAUTION IN THE USE OF THIS DEVICE.** Improper use of this device can result in injury or death. Follow all safeguards suggested in this manual in addition to the normal safety precautions used in working with electrical circuits. DO NOT service this device if you are not qualified to do so.

**DO NOT CONNECT TO LIVE WIRES. Use only on non-energized circuits**

### DESCRIPTION

1. Master –Continuity Tester
2. Remote - Probe
3. Power LED (Green)
4. Continuity Tester LED (Flashes Red)
5. Bi-Color Probe LED (Indicates Polarity)
6. Alligator Clips
7. Power Switch
8. Battery Compartment (Rear)



### SPECIFICATIONS

Power supply	9 Volt Battery
Beeper	85dB beeper
Battery life	Approx. 12 months with normal use.
Continuity confirmation	Equal to or less than 1.0 K Ohms
Continuity drive current:	Pulsed (2.0 Hz) 20 - 50mA at 10 Ohms and 2.0mA - 8.0mA at 1000 Ohms of wire resistance
Wire Verification Distance	10,000 Ft, 3,000 m (26 Gage min.)
Operating Temperature	10F to 113°F (-12 to 45°C)
Storage Temperature	-4 to 176°F (-20 to 80°C)
Operating Humidity	10 to 90% RH (non-condensing)
Dimensions	3.6 x 1.97 x 1.07" (90 x 50 x 27mm)
Weight	9.2oz (260g)

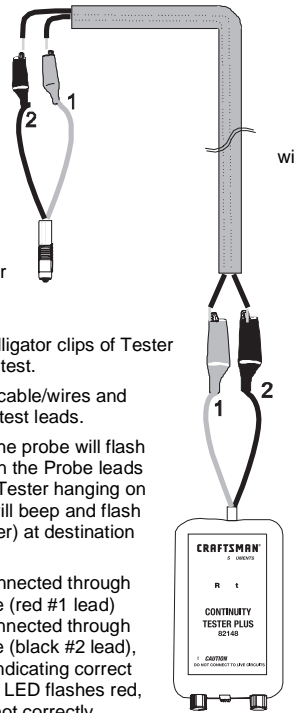
### OPERATING INSTRUCTIONS

**DO NOT CONNECT TO LIVE WIRES. Use only on non-energized circuits**

#### Remote Continuity

Remote continuity is a different mode of usage for the Tester and requires the Remote Probe. This mode is primarily used for: **A.** remote verification of continuity for cable/wires, **or** **B.** individual cable/wires for identification and labeling. Properly used, the Tester with Remote Probe eliminates numerous trips when testing cable TV, electrical cables, and speaker/telephone wiring in multi-room/multi-floor installations.

1. Turn power on. The green power LED will glow. If green LED fails to light replace 9V battery.
2. Attach red (#1) and black (#2) alligator clips of Tester to one end of cable/wires under test.
3. Proceed to the other end of the cable/wires and connect them to Remote Probe test leads.
4. If continuity exists, the LED on the probe will flash either green or red depending on the Probe leads orientation. Note: At this point, Tester hanging on cable/wires at origination end, will beep and flash red while remote probe (with user) at destination end is verifying continuity.
5. When Tester (red #1 lead) is connected through wire under test to Remote Probe (red #1 lead) and Tester (black #2 lead) is connected through wire under test to Remote Probe (black #2 lead), then Probe LED flashes green indicating correct connection orientation. If Probe LED flashes red, this indicates Probe Leads are not correctly connected. Reverse probe leads to produce green light.
6. Once correct orientation has been achieved (flashing green LED), then wires under test can be labeled consistent with numbers on tester and probe leads.

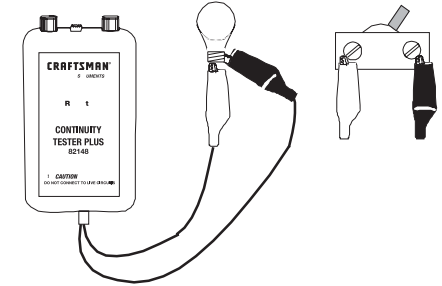


### Advanced Remote Continuity and Wire Identification

The Remote Continuity mode can be used to check continuity and to identify two, three or more cables/wires simultaneously by applying simple logic and a testing strategy. To facilitate cable/wire marking and identification, the red leads are labeled #1 and the black leads are labeled #2.

#### Local Continuity

Using just the tester (without probe) you can easily test any in-wall wiring from point to point locations in the same room. Other handy uses are to quickly test light bulbs, fuses, switches, relay contacts, diodes, low ohm power resistors, circuit breakers, etc. for electrical continuity.



1. Turn power switch on. The green power LED will glow. If green LED does not light, replace 9V battery.
2. To check same room wiring runs, attach both red and black alligator clips of Tester to both wires on one end of multi-wire cable under test and let Tester hang from wires.
3. Go to other end of same cable and momentarily connect wires in cable together. The Tester will beep and red LED will flash indicating continuity.
4. When continuity is found, label both ends of cable with the same number or name.
5. To test other devices (listed above) connect Tester leads to device terminals in any\* lead orientation (red or black). If device makes internal electrical connection then Tester will beep and its red LED will flash indicating continuity.

\*Exception: When testing a diode, the red Tester lead is positive and will show continuity when connected to the anode (positive (+) side) with black Tester lead to cathode (negative (-) side).

### BATTERY REPLACEMENT

1. Disconnect the continuity tester from all test cables or circuits before Loosen Phillips head screw of battery compartment and remove cover (rear).
2. Replace 9 volt battery and compartment cover, then tighten screw.