

**TCT700**

# 3-in-1 Professional TRACER / TONER / CABLE TESTER

## User's Guide

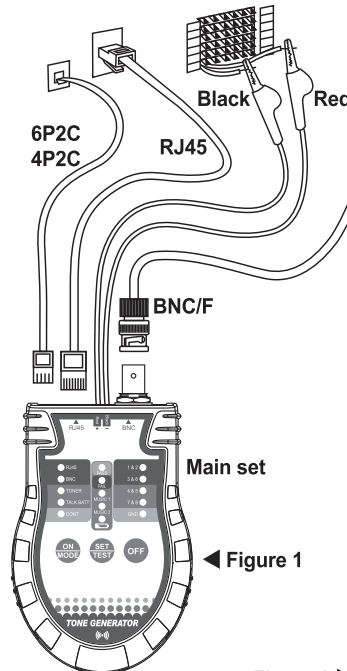


Figure 1



Figure 2

### INTRODUCTION:

TCT-700 is a multi-function cable tester for **RJ45 LAN cable**, **BNC/F coaxial cable**, **tone generator**, **talk battery**, **continuity** and **6P2C / 4P2C jack** (Figure 1).

The sensing tip is used to avoid accidental short-circuits, wherein it's provided with volume adjusting knob, audio frequency signal strength indicator and earphone plug for applications in different environment, and it has many different interfaces - 6P2C / 4P2C telephone jack to check polarity (Figure 2), and it's attached with power shortage indicator and hand-free to carry for on-site use.

### OPERATION:

#### Simple and easy to operate by membrane keyboard:

- ON/MODE** : To select **RJ45**, **BNC**, **TONER**, **TALK BATT**, **CONT** functionals.
- SET/TEST** : To enter for the testing result, and also can set up **MUSIC 1** and **MUSIC 2** on **TONER** mode, user can select what the music be comfortable.
- OFF** : Please note to press **OFF** button after end of works.  
(Auto-off power & shut down on **RJ45**, **BNC**, **TALK BATT**, **CONT** mode)  
(**TONER** mode must press **OFF** button to finish the testing.)

#### RJ45 Cable Tester Mode:

- Push **ON/MODE** button, turn on the **RJ45** mode power, the present mode is display by the yellow LED on the left. If it's not in **RJ45** mode then push **ON/MODE** to select **RJ45** mode (Figure 3).
- Connection **RJ45** LAN cable from main set to remote terminator. Push **SET/TEST** indicator "**PASS**" by green LED and "**FAIL**" by red LED (Figure 4).
- The **RJ45** cable tester mode can verify the pair wire for **OPEN**, **SHORT** to indicator by the yellow LED on right.  
Example: 1) If the wire pair 1 & 2 does not go to the end, the indicator for the pair 1 & 2 by yellow LED will not illuminate.  
2) If the wire pair 3 & 6 are shorted, the indicator for the pair 3 & 6 by yellow LED will flash.  
3) If the wire pair 4 & 5 go to the end successfully, the indicator for the pair 4 & 5 by yellow LED will illuminate.
- If user does not operate the tester within 20 seconds, it will auto-off power & shut down.

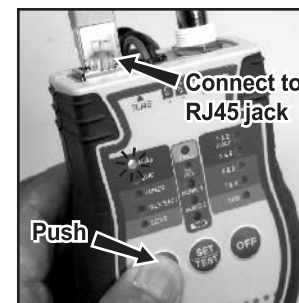


Figure 3

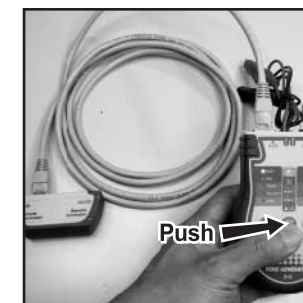


Figure 4

#### BNC/F Coaxial Cable Tester Mode:

- Push **ON/MODE** button, turn on the **BNC** mode power, the present mode is display by the yellow LED on the left. If it's not in **BNC** mode then push **ON/MODE** to select **BNC** mode (Figure 5).
- When the connection **BNC** or **F** coaxial cable from main set to end with 50Ω, if connected then "**PASS**" light up in green and pair 1 & 2 LED light up in yellow. And if disconnected then "**FAIL**" light up in red and pair 1 & 2 LED will flashing in yellow (Figure 6).
- If user does not operate the tester within 30 minutes, it will auto-off power & shut down.

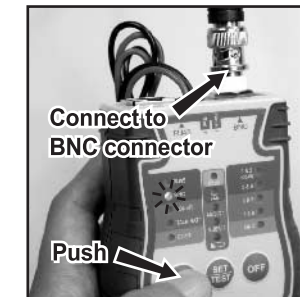


Figure 5

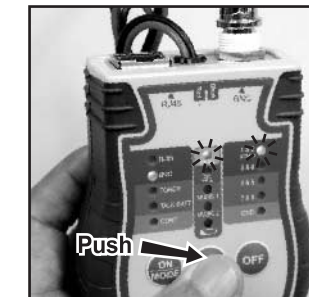


Figure 6

●Toner Mode:

1. Push **ON MODE** button, turn on the **TONER** mode power, the present mode is display by the yellow LED on the left. If it's not in **TONER** mode then push **ON MODE** to select **TONER** mode (Figure 7).
2. Push **SET TEST** button to select **MUSIC 1** and **MUSIC 2** what you prefer to it (Figure 8).
3. Connect LAN cable on RJ45 jack or any two wire end cable on alligator clip and push probe's test button to trace the cable and large music will indicate you to seek the wire broken easily.
4. The audio frequency is through the interfaces of red & black test leads, RJ12 jack, and RJ45 jack to connect with the unelectrified circuit for testing. It can be used to trace the cables and network cables hidden in the walls, ceiling or bundles, or seek the location of disconnection.
5. Different music can be switched by push **SET TEST** button, the music 1 LED shows the first kind of music, music 2 LED shows the second kind of music.
6. If user does not operate the tester within 30 minutes, it will auto-off power & shut down.



▲ Figure 7

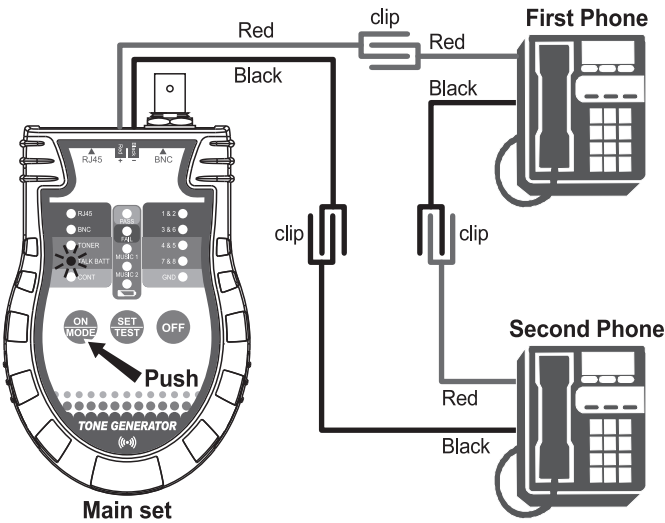


▲ Figure 8

●Talk Batt Mode:

1. Push **ON MODE** button, turn on the **TALK BATT** mode power, the present mode is display by the yellow LED on the left. If it's not in **TALK BATT** mode then push **ON MODE** to select **TALK BATT** mode (Figure 9).
2. The red line of the first telephone is clipped by the red test lead and the black line of the first telephone is connected with red line of the second telephone, and the black line of the second telephone is clipped by the black test lead so as to complete the connection between the two telephones for communication (Figure 9).
3. If user does not operate the tester within 30 minutes, it will auto-off power & shut down.

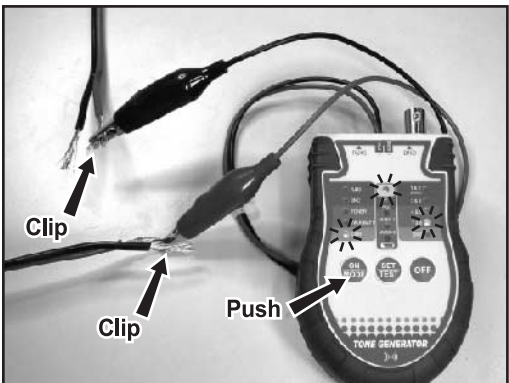
\*\* Note: Low battery will be caused out of working on **TALK BATT** mode.



▲ Figure 9


●Cont Mode:

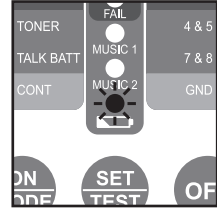
1. Push **ON MODE** button, turn on the **CONT** mode power, the present mode is display by the yellow LED on the left. If it's not in **CONT** mode then push **ON MODE** to select **CONT** mode (Figure 10).
2. The two ends of the conducting wire are clipped by the red and black test leads. When the conducting wire is normally connected then "**PASS**" light up in green and pair 7 & 8 LED light up in yellow, if the conducting wire is disconnected then "**FAIL**" light up in red and pair 7 & 8 LED will flashing in yellow (Figure 10).
3. If user does not operate the tester within 20 seconds, it will auto-off power & shut down.



▲ Figure 10

●Low Battery Indication:

1. If the power of the battery is under 6.5V, the  light flashes indication low battery and needs to be replaced.



●Technical Data:

1. **Display:** LEDs, music
2. **Operating voltage:** Amplifier Probe - 9V battery x 1pc  
Tone Generator/Cable Tester - 9V battery x 1pc
3. **Weight:** Amplifier Probe - 115g (not includes battery)  
Tone Generator/Cable Tester - 137.2g (not includes battery)
4. **Dimensions (L x W x H):**  
Amplifier Probe - 230(L) x 60.3(W) x 28(H) mm  
Tone Generator/Cable Tester - 104(L) x 70(W) x 36(H) mm (only housing)
5. **Accessories:**  
BNC to CATV female adaptor x 1pc  
50Ω BNC terminator x 1pc  
Carrying zipper bag x 1pc  
9V batteries x 2pcs  
Belt clip x 1pc  
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