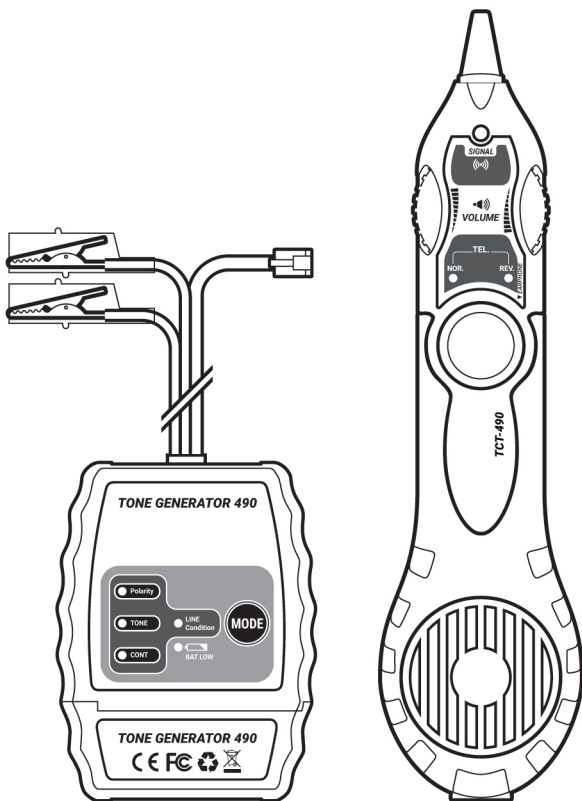


■■■■ TCT-490 **PRO LAN TRACER / TONER**

User's Manual



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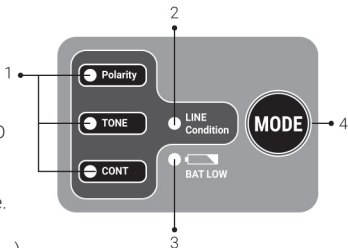
Tone Generator

► Features:

• Red and black test leads are provide, and has a standard 4 conductor modular core and plug.

• Switchless with Smart Control Panel,

1. Function Mode Indicator LED *3 to indicate that (Polarity, Tone, Continuity).
2. Telephone Line Polarity Indicator LED to indicate Normal or Reverse status.
3. Battery Power Low Indicator LED to indicate how energy of Battery inside.
4. Function Mode Select Key Switch *1 for decide (Polarity, Tone, Continuity, ...)



- a) Originally the Function Mode is (Power Turn OFF) by manufactory.
- b) Press the "MODE" Key to decide you wanted Function Mode, by Repeat the menu cycle {Polarity - Tone - Continuity - Power Turn OFF}
- c) When at Tone of menu cycle, Press "Mode" Key hold on 3 Seconds to change the melody of Tone.

⚠ DO NOT CONNECT TO AN ACTIVE AC CIRCUIT EXCEEDING 24V IN THIS MODE.

► Instructions:

• IDENTIFYING TIP & RING (SWITCH TO (Polarity Identify)):

When Use the (Alligator Clips)/(RJ-11 Plug) with 2-Wires to do Identifying Tip & RING:

1. Connect the RED test lead to the side of one line and the BLACK lead to the side of another line.
2. The LED will glow "GREEN" when you connect the RED test lead to the RING SIDE of the line.
3. The LED will glow "RED" when you connect the RED test lead to the TIP SIDE of the line.

• IDENTIFYING LINE CONDITION (SWITCH TO (Polarity Identify)):

When Use the (Alligator Clips)/(RJ-11 Plug) with 2-Wires to do Identifying Line Condition:

1. Connect the RED test lead to the RING SIDE of the line and the BLACK test lead to the TIP SIDE.
2. Watch the LED:
 - a) A BRIGHT "GREEN" LED indicates a CLEAR line.
 - b) No Lamp indicates a BUSY line.
 - c) A BRIGHTLY FLICKERING "Yellow" lamp indicates a RINGING line.

• **VERIFYING LINES (SWITCH TO (Power Turn OFF) THEN (Continuity Test)):**

1. Dial the line to be verified.
2. While the line is ringing, connect the RED lead to the RING SIDE of the line and the BLACK to the TIP.
3. In the "OFF" position, the indicator lamp will flicker "YELLOW" when the test leads are connected to the subject pair.
4. If you switch the test set to "CONT", it will terminate the call on the subject line.

• **SENDING TONE(SWITCH TO (Tone Output)):**

1. Connect the test leads to the pair, or attach one lead to ground and one lead to either side of the line.
2. Probe the suspected wires with the amplifier probe. Reception of tone will be strongest on the subject wire. IN cases of ready access to bare conductors, a headset or earphone may be used to receive the tone.

⚠ DO NOT CONNECT TO AN ACTIVE AC CIRCUIT EXCEEDING 24V IN THIS MODE.

• **TESTING CONTINUITY (SWITCH TO (Continuity Test)):**

1. Connect the test leads to the subject pair.
2. Use "CONT" position.
3. A bright "GREEN" light indicates continuity. The LED will not glow if the line resistance exceeds 10KΩ.

⚠ DO NOT CONNECT TO AN ACTIVE AC OR DC CIRCUIT IN THIS MODE.

• **TESTING CONTINUITY USING TONE (SWITCH TO (Tone Output)):**

1. Connect the test leads to the subject pair.
2. Use a headset or earphone at the remote end and touch the wire end(s) with the clip lead(s).
3. Reception of tone is an indication of continuity.

⚠ DO NOT CONNECT TO AN ACTIVE AC OR DC CIRCUIT IN THIS MODE.

• **COAX TESTING (SWITCH TO (Continuity Test)):**

Connect red to outer shield and black to center conductor then look result (Line Condition LED)

► **Maintenance:**

• **BATTERY REPLACEMENT INSTRUCTIONS:**

Separate the case, install a fresh 9V battery and reassemble. DO NOT OVERTIGHTEN.

- Warranty limited solely to repair or replacement; No warranty of merchantability, Fitness for a particular purpose or consequential damages.

Amplifier Probe

► Features:

- The Amplifier Probe is designed to identify and trace wires or cables within a group without damaging the insulation.
- Works with any Tone Generator to identify wires.
- Volume control for increased sensitivity and adjustable to suit work environment.
- Recessed ON/OFF button prevents battery drain.
- Power supply is in any 9V battery with a life of approximately 100 hours.
- A plug receptacle is provided for headset or earphone.

► Instructions:

1. Connecting the Tone Generator.

In terminated working cables:

Connect one test lead to a terminated wire and other test lead to earth or equipment ground.

In un-terminated or non-working cables:

Connect one test lead to a un-terminated wire and other test lead to another un-terminated wire.

2. Depress the round on/off spring-loaded button of amplifier probe.

The volume control switch can be adjusted to suit the environment.

Volume can be increased to overcome noise, or decreased to reduce interference.

3. Touch the tip of the amplifier probe to the insulation of each suspect conductor.
4. Reception of tone will be loudest on the subject wire.
5. The plug receptacle is provided for connecting to a headset or earphone.

► Maintenance:

- The Amplifier Probe is maintenance free except for battery replacement. Remove the screw from the battery compartment, Replace the 9V battery and reassemble. Warranty limited solely to repair or replacement;
- No warranty of merchantability, Fitness for a particular purpose or consequential damages.

