



Figure 1

1. INTRODUCTION

These instructions are concerned with the Tone Tracer 1490533-1 (Figure 1) used with Tone Generator 1490530-1 and Butt Set 1490532-1. Refer to 408-8654 for Tone Generator instructions; refer to 408-8656 for Butt Set 1490532-1 instructions.

After the audio frequency tone generator is hooked up to the cable to be traced, the tone tracer picks up the audio signal, allowing the cable to be traced.

2. FEATURES

- Ergonomic shape with soft edges
- Volume control
- Recessed "on" switch
- Tip replacement without opening case
- Battery low indicator
- Headset jack for Butt Set 1490532-1 headset or standard cell phone headset
- Duckbill and round tips included
- Lanyard attachment point

3. OPERATION

DANGER

To avoid personnel injury and reduce the chance of damage to the tone tracer, do NOT touch the tracer to live AC circuits.

3.1. Normal Operation

To trace a tone, proceed as follows:

1. Connect an audio frequency tone generator, such as the the tone generator described in 408-8656, to the cable to be traced.

NOTE

-- Application Hints

When tracing wires terminated to a terminal block such as a "66 block", attaching both generator leads to the cable or pair tends to contain the signal within the cable. The tracer must nearly touch the end of the cable to detect the signal, which is helpful when the wires are close together, as when terminated.

When tracing along cable runs and to maximize radiated signal, connect one lead of the generator to the wire or cable, and the other end to ground (case of an electrical box, electrical conduit, metallic water pipe or ground rod). If no ground is available, do not connect the other lead to anything - let it dangle as near to the earth as possible. Connect the generator to the ungrounded shield of a coax cable. The shield will do it's job, if connected to the center lead.

2. Press the recessed black ("On") button to turn on the tone tracer. The power is on only as long as the button is being depressed. It's normal for the battery low LED to flash on and off while the button is being depressed.
3. Adjust volume to a comfortable level. If the signal is very loud when near the cable, the volume may need to be reduced to keep from overloading the tone tracer. When overloaded, small increases or decreases in the signal at the tip cannot be heard.
4. Hold tip of the tone tracer near cables to be identified. The signal will be loudest on the wire or cable with the generator attached to it. Separating the wires or cables may help in identifying the correct one.

3.2. Using a Headset

1. Insert 2.5 mm headset plug into end of tone tracer by the lanyard loop (see Figure 1), be sure to fully seat the plug into the jack. The speaker is automatically disconnected.

2. Proceed as described in in Paragraph 3.1.

4. REPAIR/REPLACEMENT

4.1. Changing the Tip

1. Remove the screw nearest to the tip on the back of the tone tracer.
2. Pull the tip out of the front.
3. Push the new tip into the front.
4. Replace the screw and tighten the screw to about four in.-lbs. Be careful NOT to overtighten the screw.

4.2. Battery Replacement

When the battery low LED indicator is lit continuously when the "on" button is depressed (that is, it is *not* flashing), replace the battery as follows:

1. Remove screw at the back of the tone tracer.
2. Remove battery door.
3. Remove old battery and disconnect from battery leads.

4. Snap battery leads onto new battery (9 volt, alkaline). Place battery in case.
5. Replace battery door and screw. Do not overtighten the screw.

5. REPAIR/RETURN POLICY

Order replacement tone tracers through your Tyco Electronics representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 1-717-986-7605 or write to:

CUSTOMER SERVICE (38-35)
TYCO ELECTRONICS CORPORATION
P.O. BOX 3608
HARRISBURG, PA 17105-3608

For Tone Tracer 1490533-1 repair service, please contact a Tyco Electronics representative at 1-800-526-5136.

6. REVISION SUMMARY

Per EC 0990-0597-02

- Initial release of document