

TENMA®



Tone Generator and Amplifier Probe

Model: 72-8500

IMPORTANT SAFETY INFORMATION

Please read these instructions carefully before use and retain for future reference.

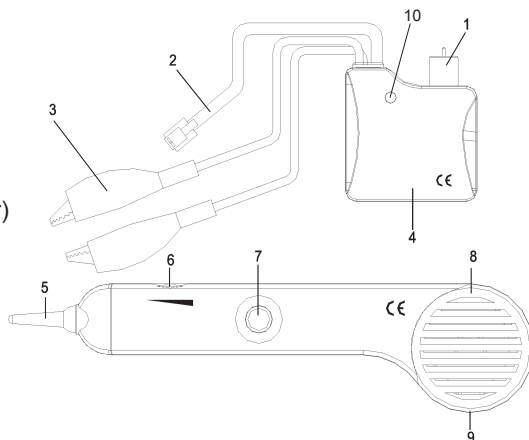
- Please operate according to this manual, otherwise the protection provided by the device will be impaired or fail.
- Check the condition before using. If you find any cracking, breakage, damage or abnormality, or you consider the device broken, stop using the device immediately
- Do not use the Tone Generator if it operates abnormally. 220V high voltage protection may be impaired. When in doubt, have the Tone Generator serviced.
- Do not operate the Tone Generator around explosive gas, vapour, or dust.
- Do not leave the Tone Generator on or near objects of high temperature.
- Replace the batteries as soon as the performance starts to reduce.
- Remove dead batteries from the Tone Generator if it is not going to be used for a long time.
- Never mix old and new batteries together, or different types of batteries.
- Never dispose of batteries in a fire, or attempt to recharge ordinary batteries.
- Before replacing the battery, turn off the Tone Generator and disconnect all the test leads.
- To prolong battery life turn off the Tone Generator after use.

WHAT'S INCLUDED

- Tone generator.
- Amplifier probe.
- Test lead set.
- 9V 6F22 Alkaline Battery x 2 (included)
- Instruction manual

FEATURES

1. Power switch
2. Modular connectors
3. Test leads
4. Battery compartment
5. Probe tip
6. Volume/sensitivity control
7. Power button
8. Battery compartment (rear)
9. Headphone jack
10. Indicator LED



OPERATION FUNCTION

- The output of the tone generator can be set to continuous or variable. To change the type of output, change the tone type switch position (located in the battery compartment).
- Identifies telephone cable condition.
- Identifies tip and ring connection.
- Continuity testing.

Cable / Wire Tracing

1. Connect the tone generator to the cable.
 - a) For cables terminated at one end, connect the red alligator clip to a wire and the black alligator clip to equipment ground.
 - b) For un-terminated cables, connect the red alligator clip to one wire and the black alligator clip to another wire.
 - c) For cables with modular connectors, plug the RJ11 connectors directly into the matching cable connectors.
2. Set the tone generator power switch to the TONE position.
3. On the amplifier probe, press and hold the side on/off switch.
4. Hold the insulated probe tip against the wire in question to pick up the signal generated by the tone generator.
5. Rotate the volume/sensitivity control on the top of the probe for the appropriate level and sensitivity to identify and trace the wire.
6. The tone will be the loudest on the wire(s) connected to the tone generator.

Note: A headphone jack is located on the bottom of the probe.

Telephone cable identifying Tip and Ring - using crocodile clips

- Switch the tone generator to the OFF position.
- Connect the red test lead to one line and the black lead to the other line using the alligator clips.
- The LED colour indicates the connection to the RED test lead as:
GREEN = Ring side, RED = Tip side.

Telephone cable identifying Tip and Ring - using the RJ-11 Connectors

- Switch the tone generator to the OFF position.
- Connect the RJ-11 connector to the phone socket.
- The LED colour indicates the condition of the telephone jack wiring.
GREEN = Jack wired properly, RED = Jack wired with reversed polarity.

Telephone cable identifying line condition

- Switch the tone generator to the OFF position
- Connect the red test lead to the RING side and the black test lead to the TIP side.
- The LED will indicate line condition by:
GREEN = CLEAR, OFF = BUSY, Flickering YELLOW = RINGING
- Switch the tone generator power switch to CONT to terminate the call.

Continuity testing

- Connect the test leads to the wire pair under test.
- Switch the tone generator to the CONT position.
- The LED will glow bright GREEN for a low resistance or continuity. The LED will glow less brightly as the resistance increases and will extinguish at approximately 10,000ohms.

MAINTENANCE

Changing the battery

- To install or change the 9V battery, open the battery compartment. Replace only with the same type of battery.

Cleaning the casing

- Wipe using a damp cloth or sponge. Do not use solvents as these may damage the casing. Do not immerse in water.

SPECIFICATIONS

Tone Output	1kHz 6V square wave
Power	6F22 9V Battery (1 off in probe plus 1 off in generator)
Probe dimensions	228 x 57 x 25.4mm
Generator dimensions	58.5 x 58.5 x 34.3mm
Weight	270g



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT

These symbols indicate that separate collection of Waste Electrical and Electronic Equipment (WEEE) or waste batteries is required. Do not dispose of these items with general household waste. Separate for the treatment, recovery and recycling of the materials used. Waste batteries can be returned to any waste battery recycling point which are provided by most battery retailers. Contact your local authority for details of the battery and WEEE recycling schemes available in your area.



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