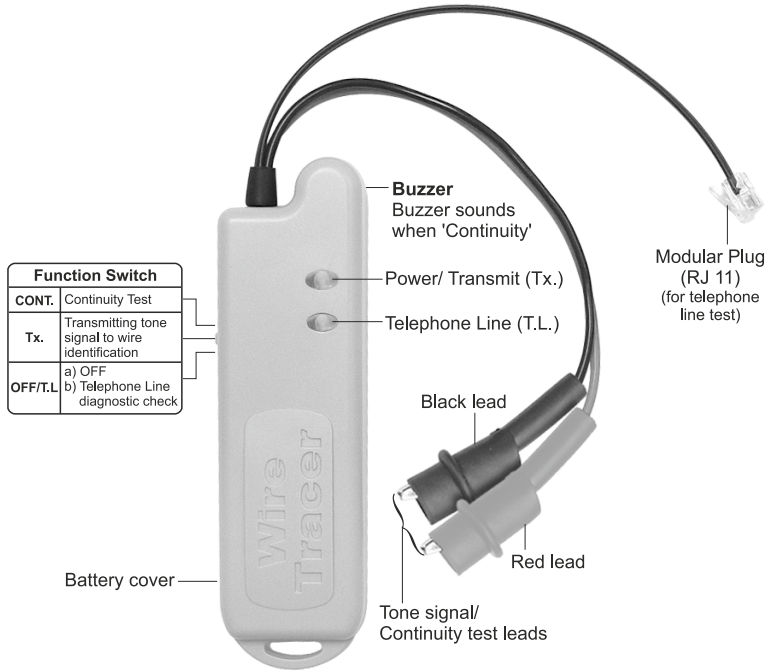


# Wire Tracer (Transmitter)

## OPERATION MANUAL



### BATTERIES REPLACEMENT :

Loosen the screw at the back of the unit, take off the cover and replace 1 pc. 9 Volt battery NEDA 1604/1604A IEC 6F22/6LR61

### NOTES :

- 1) The wire tracer transmitter should not be connect on any AC/DC energized voltage.
- 2) Operating temperature within  $-10^{\circ}$  to  $+50^{\circ}\text{C}$  ( $14^{\circ}$  to  $122^{\circ}\text{F}$ ). But best environmental temperature range up to  $30^{\circ}\text{C}$ , humidity 80% at an altitude up to 2,000 meter.
- 3) it is necessary to check proper functioning of transmitter before starting to trace wires, with the help of Wire Tracer Receiver (MS-47TR).
- 4) The wire tracer must not be used in the presence of moisture (e.g. dew or rain).
- 5) Damaged wire tracer must not be used.
- 6) Save this instructions.

# 1. Telephone Line Test

☞ Set the 'Function Switch' to 'OFF/ T.L.' position to perform telephone line diagnostics check.



Insert 'Modular Plug' into telephone line.



'Red' LED indicates a working line not in use with reverse polarity.



'Green' LED indicates a working line not in use with correct polarity.



'Green/Red' flashing LED indicates a working ringing line.



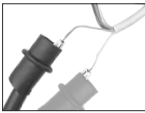
A dim 'Green or Red' LED indicates a working line not in use with correct or reverse polarity.



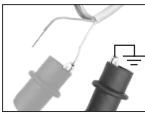
No lamp indicates an open pair (no telephone line service supplied).

# 2. Wire Identification

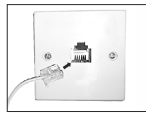
Set the 'Function Switch' to 'Tx' position, connect the 'Test Leads' to the subject wire(s). 'Power/ Transmit(Tx.)' LED blinks. For reference, optional connections are illustrated as follows:



Connect the red and black leads to a twisted pair conductor. For thick or complex twisted wires (i.e. CAT 5) connect the leads the conductors of two different pair. Such as red to pair No. 1 and black to pair No. 2.



Connect the red lead to the subject wire and the black lead to an independent equipment or earth ground.



Connect the 'Modular Plug' to a jack to apply signal through the pins. (Additional adaptor require.)



Connect the red lead to the shield and the black lead to ground of a shield/coaxial cable.



Connect the red lead to the shield and black to centre conductor of a coaxial cable.



**CAUTION:** The transmitter is not designed for use on energized AC circuits. DO NOT CONNECT ANY LIVE LINES.

**NOTE:** Transmitter will not generate signal in 'short circuit' configurations.

# 3. Continuity Test

☞ Set the 'Function Switch' to 'CONT.' position. 'Power/ Transmit(Tx.)' LED lights up.

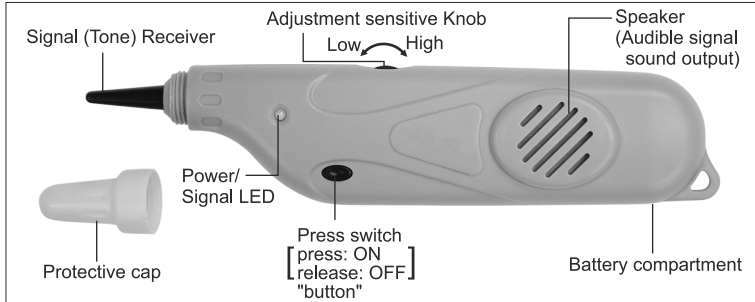


Buzzer sound indicates continuity on 'Test'.

**NOTE:** Always check continuity of a two wire circuit before attempting to apply a tone signal.

# Wire Tracer (Receiver)

## OPERATION MANUAL



**BATTERIES REPLACEMENT :**  
Type : AAA; RO3; UM4; ER03X; (1.5Vx2pcs.)

**HOW TO REPLACE THE BATTERIES :** Remove the cover at the back side and replace 2 pcs. fresh batteries according to the polarity shown.

**CAUTION:** Do not operate the detector with cover open.

### NOTES :

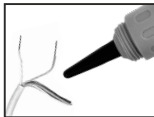
- 1) Operating temperature within  $-10^{\circ}$  to  $+50^{\circ}\text{C}$  ( $14^{\circ}$  to  $122^{\circ}\text{F}$ ). But best environmental temperature range up to  $30^{\circ}\text{C}$ , humidity 80% at an altitude up to 2,000 meter.
- 2) Before starting to use Receiver, it is necessary to check it's proper functioning with the help of Wire Tracer Transmitter (MS-78WT1).
- 3) The wire tracer must not be used in the presence of moisture (e.g. dew or rain).
- 4) Damaged wire tracer must not be used.
- 5) Save this instructions.

## Self Test



Depress and hold the button while placing the sensor near the 'Test Leads' of MS-78WT1 (Wire Tracer Transmitter). Adjust the volume control (sensitive knob) to a comfortable sound level.

## Wire Identification



Depress and hold the button while placing the sensor near the remote end of the conductor.



Tone signal will intensify as the sensor approaches near the conductor and be loudest on the subject wire(s). To confirm wire identification, touch the sensor tip of the unit to the metallic conductor. Signal will be notable stronger.

**NOTE:** The receiver will pick up any signal generated by equipment i.e. hum of electricity; banging the sensor.