Linear
A NORTEK COMPANY

ET-1B MINIATURE EMERGENCY TRANSMITTER

Code Setting Instructions

Linear Corporation
2055 Corte Del Nogal, Carlsbad, CA 92009
(619) 438-7000 • (800) 421-1587 • CA (800) 321-1845
FAX (619) 438-7043 Made in Hong Kong

DESCRIPTION

The ET-1B (emergency transmitter) is one of the smallest portable signaling units in the Linear family of wireless security products. Since its original introduction in 1983, the ET-1 has represented various technological advancements in the development of miniature portable UHF transmitters.

Measuring only 1.5 by .75 inches, the ET-1B can be worn effortlessly (around-the-clock) on a chain as a pendant or attached to a key ring.

When activated by pressing both buttons, the ET-1B sends an alarm signal to a companion receiver tuned to the same frequency. The two-button feature provides protection against false alarms. For security, the transmitter can be coded to one of 256 discrete digital codes and is compatible with all of Linear's standard digital receivers.

A miniature 12-volt Duracell MN21 battery powers the transmitter and has an estimated life of one to two years.

DIGITAL CODING

The digital code for the ET-1B transmitter is selected by cutting "traces" on the circuit board. All Linear ET-1B digital transmitters are shipped with all eight traces un-cut, creating all "ON" codes. Cutting a trace changes the specific code to "OFF".

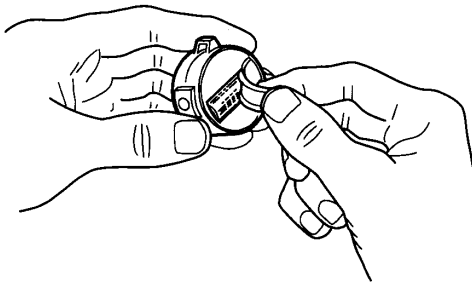


Figure 1. Rear View of ET-1B

✶ ***CAUTION: To avoid false receiver activation, ET-1B transmitters* must *be re-coded by the installer prior to operation.***

CODE SWITCH LOCATION

The digital coding traces in the ET-1B are located under the battery on the circuit board inside the transmitter case. To access the coding traces and the battery, gently pry off the soft-plastic cover and lift the battery out (see Figure 1).

CODE SETTING

The code to set in the transmitter is determined by the system requirements of the receiver. With single-channel receivers, the codes must simply match each other. Multi-channel receivers require different coding variations. Refer to the receiver's instructions for specific details.

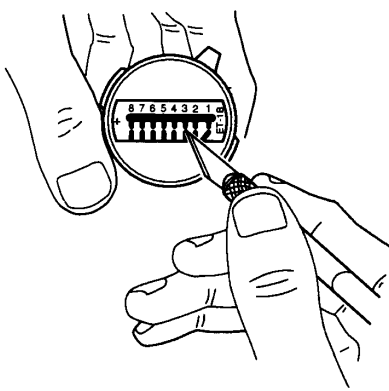


Figure 2. Severing Trace #3

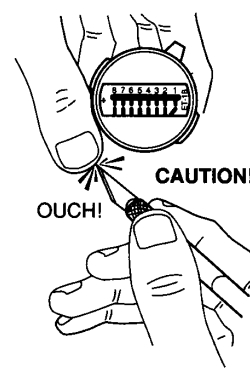
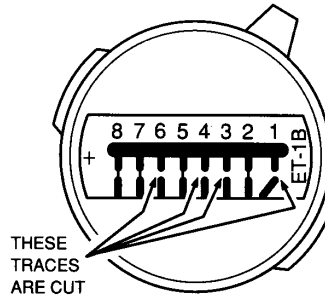


Figure 3. Be Careful!!

Figure 4. Example Transmitter with 1, 3, 4, and 6 Cut (OFF)



To create the code you select, **carefully** use a sharp instrument to sever the narrow part of the appropriate coding traces for each "OFF" position required (see Figures 2 , 3, and 4).

Although 256 codes are available, often-duplicated patterns such as all ON or OFF, alternating ON/OFF or OFF/ON should not be used.

In the example shown in Figure 4, the traces are shown as black and the circuit board is shown as gray. Traces numbered 1, 3, 4, and 6 are severed ("OFF"). Traces 2, 5, 7, and 8 are left intact ("ON").

Carefully observing polarity, replace the battery (see Figure 5). Replace the battery cover.

CHECKOUT AND TEST

After setting the digital code, replacing the battery and cover; the transmitter and receiver should be checked out as a system.

✶ ***WARNING: Because most emergency receiver systems are always armed, NEVER attempt to test the ET-1B unless the receiver is in a test mode or the central station has been informed that a test is in progress.***

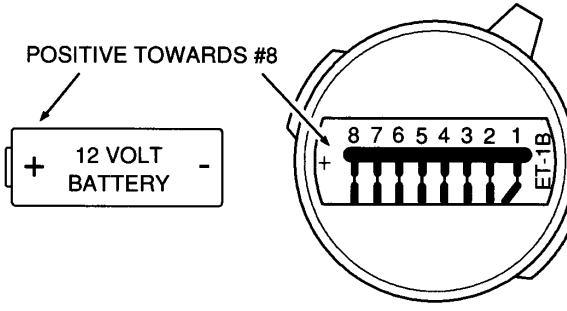


Figure 5. Battery Placement: Observe Polarity

Refer to the receiver's documentation for details on testing the ET-1B transmitter.

When both transmitter buttons are pressed, the unit will be transmitting. Operate the transmitter from various locations to identify any weak signal areas or "dead spots" that may be caused by interference or certain metal obstacles.

LINEAR LIMITED WARRANTY

This Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labeled on the product. **This warranty extends only to wholesale customers** who buy direct from Linear or through Linear's normal distribution channels. **Linear does not warrant this product to consumers.** Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. **There are no obligations or liabilities on the part of Linear corporation for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation.** All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until Warranty Expiration Date as labeled on the product. **This Linear Corporation Warranty is in lieu of all other warranties express or implied.**

For warranty service on Linear equipment return product, at sender's expense to:

U.S.A.
Linear Corporation
2350 Camino Vida Roble
Carlsbad, CA 92009
Attention: Repairs Department
Ph# (800) 392-0123

Canada
Linear Canada Inc.
673 Consortium Court
London, Ontario, Canada N6E 2S8
Attention: Repairs Department
Ph# (519) 685-3020

IMPORTANT !!!

Linear radio controls provide a reliable communications link and fill an important need in portable wireless signalling. However, there are some limitations which must be observed.

* For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
* Receivers may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
* A receiver cannot respond to more than one transmitted signal at a time.
* Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
* A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.

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