

EBC



I44JR.


**emergency
beacon corp.**

15 RIVER STREET, NEW ROCHELLE, N.Y. 10801

W A R R A N T Y

The equipment described herein is sold under the following warranty:

EMERGENCY BEACON CORPORATION (EBC) agrees to repair or replace, at EBC's option, without charge for a period of ninety (90) days from the date of delivery to the Buyer, any equipment, parts or accessories which are found to be defective as to design, workmanship or material, and which are returned to EBC at its factory, transportation prepaid, provided that:

- a) The warranty card shall have been properly and completely filled out by the Buyer and returned to EBC within ten (10) days of the date of purchase; and,
- b) Notice of the claimed defect is given to EBC in writing within ninety (90) days from the date of delivery to the Buyer and the equipment is returned to EBC in accordance with EBC's instructions.
- c) Equipment, parts or accessories not manufactured by EBC or from EBC design, are subject to only such adjustment as EBC may obtain from the supplier thereof.
- d) No item of equipment or accessory shall be deemed to be defective if, due to excessive exposure to the elements or abusive use after delivery, it shall fail to operate in a normal and proper manner; and
- e) This warranty is void if equipment is altered or repaired by anyone other than EBC or its authorized service representative.

The foregoing is in lieu of any other warranty, expressed or implied, including without limitation, any warranty of merchantability, and shall constitute the Buyer's right and remedy hereunder. In no event shall EBC have any liability for consequential damages, or liability for loss, damage or expense directly or indirectly arising from the use of the equipment, or inability to use the equipment in combination with other equipment or materials or any other liability.

WARRANTY VOID IF SEAL ON RADIO IS BROKEN OR REMOVED

EBC-144 Jr. Manual

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SECTION I

DESCRIPTION

The EBC-144 JR. is a high performance, "state of the art" digitally synthesized VHF transceiver, that when properly operated, will offer excellent communication functions. Every effort has been made during design to incorporate high quality, technologically advanced components in a convenient, compact format.

A frequency range of 143.5 MHz to 148.5 MHz is covered in 5 KHz increments by use of the front panel thumbwheel switches. There is provision made for automatic offsets when desired.

The ultra-sensitive receiver features a rated .35 uV sensitivity with excellent adjacent channel and spurious noise rejection. As with any digitally synthesized receiver with 1,000 possible input frequencies, there are some internal spurious responses. The design has limited these to less than 1 microvolt equivalent input signal strength. It is only because of the excellent sensitivity (typically .20 uV) that they are observable at all.

With an eye to the future, and to the existing situation in the New York Metropolitan Area, the EBC-144 JR. has been constructed for 15 KHz channel spacing and a modulation acceptance of ± 6 KHz which has been factory set so that modulation does not exceed ± 4.5 KHz. Therefore, if your area has a trend to operate transmitters with deviation levels of greater than ± 5 KHz, you may notice some deterioration of performance.

The frequency determining oscillator of this unit is a very sensitive circuit designed to accurately track to the desired programmed frequency. The extreme sensitivity makes it susceptible to slight changes in component values, such as can occur when the mechanical configuration of an inductor is disturbed. This can happen if the volume of the speaker is excessively loud. Effort has been made to mechanically decouple the speaker from the case. But the only way to completely avoid this problem is to use an external speaker, for which a jack is provided. As this oscillator is the frequency determining component, there is some transition time when changing from one frequency to another. This is the case when going from the receive mode to the transmit mode. Therefore, you may notice that the first syllable of your transmission is clipped, if it is your practice to begin talking at the instant you start transmitting. It is recommended that you make it a practice of pausing approximately 0.5 seconds to allow the phase locked loop to lock before speaking.

We at Emergency Beacon Corporation feel that you now own a superior piece of equipment and we hope that your EBC-144 JR. will bring you many hours of operating pleasure.

