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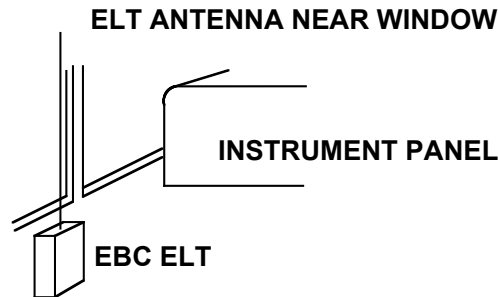
MODEL EBC-302VR (P, AP)

CONSISTING OF

1 EBC-302VR EMERGENCY LOCATOR TRANSMITTER
1 BB-9 MOUNTING BRACKET

INSTALLATION INSTRUCTIONS

1. The EBC-302VR must be installed by a certified airframe mechanic. This installation must be entered in the aircraft logbook.
2. The EBC-302VR can be installed in any convenient location in the cockpit.
3. The EBC-302VR must be vertical with as much as possible of the antenna visible through a window, when viewed from outside the aircraft.
4. The antenna should be at least one inch from any metal window post.
5. The BB-9 mounting bracket supplied with the EBC-302VR must be securely attached to the aircraft.
6. The shorting wire (with tag) next to the test lamp must be removed for the EBC-302VR to be ready for automatic operation, and should be reinstalled only to deactivate the automatic feature, as would be the case if it were necessary to remove or ship the EBC-302VR.



7. With the shorting wire removed, temporarily place the switch in the "OFF-TEST" position and allow the switch to return to the "ARM" position. This will ensure that the ELT was not activated during the removal of the shorting wire.

Note #1: The mounting bracket supplied with this ELT meets the air worthiness requirements of FAR Part 23.561, or FAR Part 25.561, as appropriate.

Note #2: Since Emergency Beacon Corporation has no direct control of the actual installation it is incumbent on the installer to mount the ELT so that all the requirements of FAR 91.52 and FAR Part 23 or FAR Part 25 are met. Emergency Beacon Corporation recommends that the mounting bracket be securely attached to a rigid member of the fuselage using fasteners that comply with FAR Part 23.561 or FAR Part 25.561. If necessary, a suitable mounting shelf should be fabricated by the installer in order to provide a rigid and secure attachment point for the mounting bracket.

****** DO NOT INSTALL THE MOUNTING BRACKET TO THIN, ******
******* UNSUPPORTED SKIN OR UPHOLSTERY MEMBERS *******

TEST PROCEDURE

RECEIVER: THE ONLY WAY TO TURN ON THE RECEIVER IS BY INSERTING THE HEADPHONE PLUG AND THE ONLY WAY TO TURN OFF THE RECEIVER IS BY REMOVING THE HEADPHONE PLUG

Insert headphone plug into jack near antenna – rushing noise in the headphones indicates normal operation. Using another transceiver (located in a different aircraft, for example) have someone else make a brief, less than five seconds, voice transmission on 121.5 MHz from a distance of approximately 500 feet to verify normal receiver operation. After completion of all tests, turn receiver off by unplugging headphones.

NOTE: THIS RECEIVER WILL RESPOND TO STRONG ADJACENT CHANNEL (121.4, 121.45, 121.55, 121.6 MHz) SIGNALS, BUT SIGNALS ON 121.5 MHz WILL PREDOMINATE.

TRANSMITTER: DO NOT ACTIVATE TRANSMITTER UNTIL YOU THOROUGHLY UNDERSTAND HOW TO DEACTIVATE TRANSMITTER. Transmitter is deactivated by momentarily placing switch in the spring-loaded “OFF-TEST” position and allowing the switch to return to the “ARM” position. Normal power output may be tested by holding the switch in the “OFF-TEST” position for a short period (not more than five seconds) and observing that the amber light flickers dimly*. Replace batteries when amber test lamp no longer lights. The emergency signal (PEOW-PEOW) may be monitored on the aircraft transceiver on 121.5 MHz.

VOICE TEST PROCEDURE

Keep transmission to an absolute minimum. Tune the aircraft’s transceiver to 121.5 MHz. Plug the standard microphone plug (PJ-068 Type) of your aircraft microphone into the jack nearest the test light of the EBC-302VR. Place the switch in the ON position. The beacon’s emergency signal will be heard through your transceiver. Depress the push-to-talk (PTT) switch on your microphone and speak directly into the microphone. The beacon signal will stop and your voice will be heard through the aircraft’s speaker at a reduced volume. When the PTT switch is released, the emergency signal will resume. This illustrates two of the many safety features designed into the EBC-302VR in order to make the unit automatically fail-safe – (1) a reduction in output power under voice operation so as to conserve battery life, and (2) a deliberate depression of the PTT switch in order to override the emergency signal. **NOTE: FOR TWO-**

WAY COMMUNICATIONS THE BEACON'S EMERGENCY SIGNAL MUST BE DEACTIVATED AT THE END OF EACH VOICE TRANSMISSION AS DESCRIBED EARLIER. IT IS IMPOSSIBLE TO RECEIVE ANOTHER STATION.

*Some units will not light the lamp unless you grasp the antenna near its top, this is normal and if the amber light flickers dimly with or without holding the antenna top the batteries are okay. WHILE YOUR OWN EBC-302VR IS TRANSMITTING, SIDETONE, AS MONITORED IN THE HEADPHONES WHILE YOU ARE TRANSMITTING, MAY BE DISTORTED DUE TO RECEIVER OVERLOAD BECAUSE OF THE CLOSE PROXIMITY OF THE TRANSMITTER.

OPERATING LIMITATIONS

The FAA requires that batteries contained within an ELT MUST be replaced before the indicated replacement date. If the ELT has been stored in a location where the ambient temperature is normally above 80°F, the batteries should be replaced six months earlier. The batteries should also be replaced when the ELT has been in use for more than one cumulative hour. The EBC-302VR should not be stored in an environment where the ambient temperature is above 110°F. The EBC-302VR is for use when operating under FAR Parts 91, 121 and 135.

BATTERY REPLACEMENT

Only GS-21 battery packs manufactured by Emergency Beacon Corporation should be used in the EBC-302VR.

1. **CAUTION:** If battery is not connected exactly as stated, beacon will be permanently damaged.
2. Remove screws holding cover and remove cover.
3. Remove wire connectors by unscrewing counter-clockwise.
4. Replace batteries.
5. Connect one black wire from the beacon to black wire from one battery. Connect remaining black wire from beacon to black wire from other battery. Do not connect all four black wires together.
6. Connect all four red wires together.
7. Screw wire connectors on (clockwise).
8. Install cover and screws
9. Install label "Replace Battery _____" on back of case.

EBC-302VR DATA SHEET (P.AP)

Receiver Operating Frequency	121.5 MHz
Operating Life, Room Temp.	Greater than 48 hours
Operating Life-Voice (continuous operation)	200 hours
Operating Life-Beacon	200 hours
Operating Frequencies	121.5 MHz \pm .005% and 243.0 MHz \pm .005%
Modulation Percentage	100%
Sweep Range	1330 Hz to 340 Hz
Sweep Rate	3 Hz
Modulation Duty Cycle	43%
Transmitter Duty Cycle	100%
Peak Effective Radiated Power	Greater than 75 mW on both frequencies
Automatic Activation	Min. 5 G's for 12 milliseconds Max. 7 G's for 15 milliseconds
Low Temperature Performance -20°C	Meets room temp. specs. after exposure
High Temperature Performance +55°	Meets room temp. specs. after exposure
Altitude Performance 50,000 ft.	Meets room temp. specs. after exposure
Decompression 8,200 ft. to 40,000 ft.	Meets room temp. specs. after exposure
High Pressure Performance -15,000 ft.	Meets room temp. specs. after exposure
Humidity Performance 48 hours	Meets room temp. specs. after exposure
Shock Performance 50 G's on 6 axes	Meets room temp. specs. after exposure
Vibration Test 10 G's	Meets room temp. specs. after exposure
Temperature Variation Test	Frequencies within \pm .005% after exposure
Immersion Test 17 hours salt water	Meets room temp. specs. after exposure
Waterproofness--20 min. drip	Meets room temp. specs. after exposure

PHYSICAL FEATURES

Size	2.5"W x 2"D x 6.5"H
Weight	2.1 lbs. with battery pack installed
Case	Aluminum
Finish	Yellow Baked Enamel
Antenna	Flexible non-telescoping antenna extends 19" above transmitter body

SPECIAL FEATURES

Has built-in integral antenna
Intended for installation in cockpit or cabin area
Recessed 3-position toggle switch
2-year parts and labor warranty
Comes complete with mounting bracket, battery packs
Uses two GS-21 alkaline battery packs
Has voice and reception capability

TWO YEAR WARRANTY

FOR YOUR RECORDS:

Type of Equipment: _____

Model No. _____ Serial No. _____

Date Purchased: _____ Dealer: _____

PLEASE NOTE: ALL WARRANTIES ARE NULL AND VOID IF NON-FACTORY APPROVED BATTERIES ARE EVER USED IN YOUR ELT.

The EMERGENCY BEACON CORPORATION instrument you have purchased is conservatively designed and was carefully inspected before shipment. Properly operated in accordance with the instructions furnished, it will provide you with trouble-free service.

If you have a problem with the transmitter, contact EMERGENCY BEACON CORPORATION. If indicated, you will be instructed to send your unit to the factory. There will be no charge for labor or materials for repairs made within two years of date of purchase.

This warranty is void if the transmitter is:

- 1. Damaged in transit
- 2. Abused in handling
- 3. Repaired by unqualified persons
- 4. Unapproved battery pack (s) is installed

SHIPPING INSTRUCTIONS:

- 1. Disconnect and tape the battery leads before shipping. Ship with the battery enclosed in the unit.
- 2. Enclose a note describing the problem. Be sure to give your name, address and phone number.
- 3. Pack well and insure
- 4. Shipping costs to and from the factory are to be paid by the customer

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REV. #2 – 2/2005

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TWO YEAR WARRANTY REGISTRATION

Model No. _____ Serial No. _____

Date Purchased: _____

How Did You Hear of This Product? _____

What Persuaded You To Buy It? _____

Comments on Performance: _____

Dealer: _____

City: _____

Customer Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Return This Portion To: EMERGENCY BEACON CORPORATION
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