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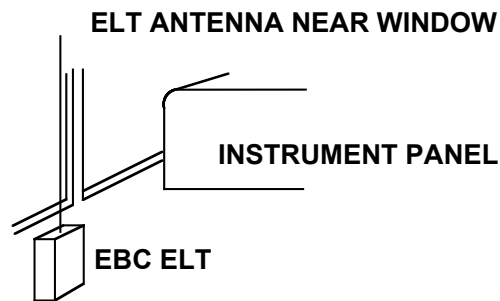
MODEL EBC 302V (P, AP)

CONSISTING OF

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

INSTALLATION INSTRUCTIONS

- 1 - The EBC 302V must be installed by a certified airframe mechanic. This installation must be entered in the aircraft logbook.
- 2 - The EBC 302V can be installed in any convenient location in the cockpit.
- 3 - The EBC 302V 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 302V must be securely attached to the aircraft.
- 6 - The shorting wire (with tag) next to the test lamp must be removed for the EBC 302V 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 302V.



- 7 - Remove the red cap on the switch by unscrewing the cap counter-clockwise.

8. – With the red cap and the shipping 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 shipping wire and the cap.

NOTE #1 – The mounting bracket supplied with this ELT meets the airworthiness requirements of FAR Part 23.561 or FAR Part 25.561 as appropriate.

Note # 2 – As Emergency Beacon Corporation has no direct control of the actual installation it is incumbent on the installer to mount the ELT such that all the requirements of FAR 91.52 and FAR Part 23 or 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

NOTE: DO NOT ACTIVATE THE TRANSMITTER UNTIL YOU THOROUGHLY UNDERSTAND HOW TO DEACTIVATE THE TRANSMITTER.

Before the ELT is installed into its mounting bracket, the following test must be performed. It is recommended that the test receive prior approval of the nearest control tower. FAA and FCC regulations require that transmitter testing be performed only during the first 5 minutes of each hour and last no longer than 3 audio sweeps.

The 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 of time (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.

To manually activate this ELT, move the switch to the “ON” position. To test the automatic feature of the EBC 302V, tune the aircraft transceiver to 121.5 MHz. With the switch in the “ARM” position, hold the beacon vertically, antenna pointed towards the sky, with your arm fully extended horizontally. Swing the beacon around your body (like a forehand tennis swing) as fast as possible, keeping the antenna pointed vertically towards the sky. This may take some practice since it takes a great deal of force to simulate a crash. Proper activation will be indicated when the PEOW-PEOW signal is heard through the aircraft’s transceiver. Deactivate the ELT after each test by

momentarily placing the switch into the “OFF-TEST” position and allowing the switch to return to the ARM position.

After an accident, when you leave the aircraft, be sure to take the EBC 302V with you.

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 of the EBC 302V. Place the switch in the “ON” position. The beacon’s emergency signal will be heard through the 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 302V 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.

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 302V should not be stored in an environment where the ambient temperature is above 110°F. The EBC 302V is for use when operating under FAR Parts 91, 121, and 135.

BATTERY REPLACEMENT

The EBC 302V uses two(2) GS-21 battery packs manufactured by Emergency Beacon Corporation.

- 1. CAUTION: If the batteries are not connected exactly as stated, the beacon will be permanently damaged.
- 2. Remove the screws holding the cover and remove the cover.
- 3. Remove the wire connectors by unscrewing them counter-clockwise.
- 4. Remove the old batteries noting their position in the battery cavity.
- 5. Replace the old batteries with the new ones by connecting the black wires from the beacon with the black wires from one new battery.
- 6. Connect all four red wires together.
- 7. Screw the wire connectors on clockwise.
- 8. Install the cover and screws.
- 9. Install the label “Replace Battery Before _____” on the side of the case.

EBC-302V SPECIFICATIONS

Voice Transmitter Operating Frequency	- 121.5 MHz
Operating life, Room Temperature	- Greater than 48 hours
Emergency 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	- Minimum 5 G's for 12 milliseconds Maximum 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 6 axes	- Meets room temp. specs. after exposure
Vibration Test 10 G's	- Meets room temp. specs. after exposure
Temperature Variation Test	- Frequencies within +.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 transmit 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

Shipping costs to and from the factory are to be paid by the customer.

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REV. #2 - 2/2005

(Cut here)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
15 RIVER STREET
NEW ROCHELLE, NEW YORK 10801

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