

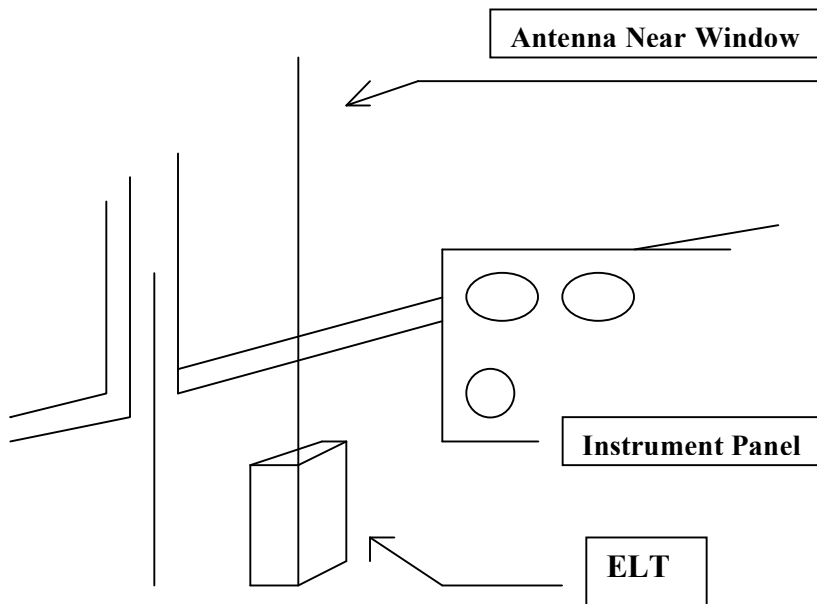
EMERGENCY BEACON CORPORATION  
15 RIVER ST  
NEW ROCHELLE, NEW YORK 10801  
PHONE: (914) 235-9400 FAX (914)576-7075  
emergencybeacon@verizon.net

**MODEL EBC-302 P, AP**

**CONSISTING OF 1 EBC-302 EMERGENCY BEACON AND  
1 BB-9 MOUNTING BRACKET**

**INSTALLATION INSTRUCTIONS**

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



NOTE #1: With 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 shorting wire.

NOTE #2: The mounting bracket supplied with this ELT meets the airworthiness requirements of FAR Part 23.561 or FAR Part 25.561 as appropriate.

NOTE #3: 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 and 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**

#### **DO NOT ACTIVATE TRANSMITTER UNTIL YOU THOROUGHLY UNDERSTAND HOW TO DEACTIVATE TRANSMITTER.**

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 (not more than five seconds) and observing that the amber light flickers dimly. 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.

Replace batteries when amber test lamp no longer lights. The emergency signal (PEOW-PEOW) may be monitored on the aircraft transceiver on 121.5MHz frequency.

To manually activate this ELT, move the switch to the “ON” position. To test the automatic feature of the EBC-302, tune the aircraft transceiver to 121.5 MHz. With the switch in the “ARM” position, hold the beacon vertical, 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.

## **OPERATING LIMITATIONS**

The batteries in an emergency locator transmitter must be replaced before their replacement date. The replacement date can be found either on an external label or on the battery itself. All battery packs are time-limited items. EBC ELTs are required to have their batteries replaced every two years or after one hour of cumulative use. EBC-302-series ELTs take two GS-21 alkaline battery packs. The GS-21 is not merely a power source, but an integral part of the entire ELT system. Also, be aware that use of “foreign” batteries may void the warranty as well as cause problems to your ELT.

## **BATTERY REPLACEMENT**

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 the red wire in the beacon to the red wires on both batteries (always connect the red wires first) and reinstall the wire connector.
6. Connect the black wire in the beacon to black wires on both batteries again using the wire connector.
7. Place the new battery(s) in the beacon with the labels facing outward.
8. Reinstall the plastic spacers.
9. Reinstall the cover and screws.
10. Place the “Replace Battery Before \_\_\_\_\_” label on the side of the ELT case.

## EBC-302 SPECIFICATIONS

Range – Satellite.....	1200+ miles
Range – Search Aircraft.....	Line of sight
Operating Life.....	200 hours or more @ 21°C
Operating Frequencies.....	121.5 and 243.0MHz +/- .005%
Modulation.....	Swept tone 1600Hz - 300Hz, 2-4 times per second
Sweep Range.....	1330Hz – 340Hz
Sweep Rate.....	3Hz
Modulation Duty Cycle.....	43%
Transmitter Duty Cycle.....	100%
Peak Effective Radiated Power.....	Greater than 75mW on both frequencies
Automatic Activation.....	3.5ft/second
Low Temperature Performance @ -20°C.....	Meets room temp. specs. after exposure
High Temperature Performance @ +55°C.....	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.....	Withstands 1000 Gs
Vibration Test – 10 Gs.....	Meets room temp. specs. after exposure
Temperature Variation Test.....	Frequencies within +/- .005% after exposure
Immersion Test – 24 hours salt water.....	Meets room temp. specs. after exposure
Size.....	2.5”W x 2”D x 6.5”H
Weight.....	2.1 lbs. with battery packs installed
Battery.....	2 GS-21 Alkaline Battery Packs
Case.....	Aluminum
Finish.....	Yellow Baked Enamel
Antenna.....	Flexible non-telescoping whip extends 19” above transmitter body

**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:

Damaged in transit.

Abused in handling.

Repaired by unqualified persons.

Unapproved battery pack 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.

EMERGENCY BEACON CORPORATION (REPAIR STATION #EYCR588X)

15 River Street, New Rochelle, New York 10801; Tel: 914-235-9400; Fax: 914-576-7075

Revision 2 – 8/2006

----- (cut here)-----

TWO YEAR WARRANTY REGISTRATION

MODEL NO: \_\_\_\_\_ SERIAL NO: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_ DEALER: \_\_\_\_\_

HOW DID YOU HEAR OF THIS PRODUCT? \_\_\_\_\_

COMMENTS ON PERFORMANCE \_\_\_\_\_

DEALER: \_\_\_\_\_ CITY: \_\_\_\_\_

MY

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

Return This Portion To: EMERGENCY BEACON CORPORATION

15 RIVER STREET

NEW ROCHELLE, NEW YORK 10801

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