

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

EBC 302H EMERGENCY LOCATOR TRANSMITTER, (P, AP)

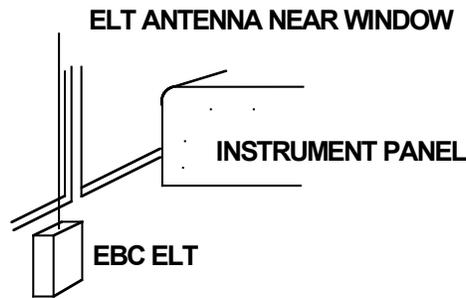
CONSISTING OF:

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

The EBC-302H differs from other ELTs in that it contains an additional “G” switch orientated ninety degrees to the vertical axis so as to sense any activation forces in the vertical direction as well as the horizontal. It senses activation in both the complete 360° azimuth planes. It is responsive to activation forces from any direction.

INSTALLATION INSTRUCTIONS

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



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

DO NOT ACTIVATE THE TRANSMITTER UNTIL YOU THOROUGHLY UNDERSTAND HOW TO DEACTIVATE THE 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 (no more than five seconds) and observing that the amber light flickers dimly*. Replace the batteries when the 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-302H, tune the aircraft transceiver to 121.5 MHz. With the switch in the “ARM” position, hold the ELT at arm’s length with the antenna pointed vertically toward the sky. Swing the ELT around your body in the

horizontal plane (like a forehand tennis swing) as fast as possible. To test the vertical activation, hold the ELT at arm's length with the antenna pointed toward the horizon. Swing the ELT around your body as fast as possible. 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.

*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.

OPERATING LIMITATIONS

The FAA requires that the batteries in an emergency locator transmitter must be replaced before the replacement date marked on the EBC-302H. All battery packs are time-limited items. EBC ELT's are required to have their batteries replaced every two years or after one hour of cumulative use. The EBC-302H takes two GS-21 alkaline battery packs manufactured by Emergency Beacon Corporation. The GS-21 is not merely a power source, but an integral part of the entire ELT system. Be aware that the use of "foreign" batteries may void the warranty as well as cause problems to your ELT.

BATTERY REPLACEMENT

CAUTION: If battery is not connected exactly as stated, beacon will be permanently damaged.

- 1 - Remove screws holding cover and remove cover.
- 2 - Remove wire connectors by unscrewing counter-clockwise.
- 3 - Replace batteries. Connect the Black wire on the beacon to the Black wires on both batteries. Connect the Red wire on beacon to the Red wires on both batteries.
- 4 - Replace the cover and screws.
- 5 - Apply the "Replace Battery By _____" label to the outside of the ELT.

EBC-302H DATA SHEET (P,AP)

Operating life, Room Temp.	Greater than 48 hours
Operating Frequencies	121.500 MHz +/-0.005% and 243.000 MHz +/-0.005%
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	5-7 G's for 12-15 mS
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 @1000 G's, 6 axis	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 packs installed
Battery	Uses two GS-21 Alkaline Battery Packs
Case	Aluminum
Finish	Yellow Baked Enamel
Antenna	Flexible non-telescoping antenna extends 19" above transmitter body

SPECIAL FEATURES

True 360° spherical 6 axis G-switch system
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

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 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. Should repairs become necessary, write or call EMERGENCY BEACON CORPORATION describing symptoms of faulty operation. Instructions will be sent to you for obtaining service, if factory judges necessary, authorization for shipment will be given to you. Do not ship without first obtaining this authorization. Pack well and insure when shipping. Repairs will be made without charge for materials and labor within two years from date of warranty registration. Transportation charges both ways are to be borne by the customer. Beyond this warranty period fair charges will be made for service by skilled personnel using factory approved/new parts. This warranty is void if:

- 1- ELT is damaged in transit.
- 2- ELT is abused in any way.
- 3- Repair is attempted by persons not authorized by EBC.
- 4- Unapproved battery is installed.

EMERGENCY BEACON CORPORATION, 15 River Street, New Rochelle, New York USA 10801
Phone: (914)235-9400 Fax (914)576-7075 E-mail: emergencybeacon@verizon.net

(CUT HERE AND RETURN TO FACTORY)

TWO YEAR WARRANTY REGISTRATION

Model No: _____ Serial No: _____
Date Purchased: _____
How did you hear of this product? _____
What persuaded you to purchase it? _____
Dealer: _____ City: _____
My name: _____
Address: _____
City: _____ State: _____ Zip: _____

Return this portion to: EMERGENCY BEACON CORPORATION
15 RIVER ST.
NEW ROCHELLE, NY 10801 USA

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