

JIC: A320-25-65-01 / 00

Title: PORTABLE ELT PN 500-12Y BITE TEST

Area: CABIN

ATA: 25-65

Special Codes:

A/C: BIV

Job Instruction Card for - / -

**ITEM ONE - BUILT IN TEST**

**Panels:** none  
**Zones:** 200 (UPPER HALF FUSELAGE SIDE: LR)  
**References:** REF: 500-12,16 & 27 Maintenance Manual

**PERF. JIC A320-25-65-01, Rev. 00 HEADER - APPROVAL DATA**

Prepared by: 77835; 15.12.2017  
 Approved by: 23543; 15.12.2017

MECH	INSP

**PREPARATION**

MECH	INSP

**NOTE**

The antenna must be deployed for the BIT and re-stowed on completion of the test.

**NOTE**

If a safety clip is fitted to prevent inadvertent activation, remove before initiating Self Test. See Appendix A for details.

**NOTE**

To avoid interference and false distress signals the BIT frequencies are offset to 121.65 and 243.3 MHz and the 406 MHz frame is reversed. Excessive testing will reduce battery life. After long periods of inactivity the high capacity battery will develop a passivation layer and therefore not provide full power for a few seconds. It may be necessary to repeat the built in test several times to develop full battery power and a successful test (All high capacity batteries develop a passivation layer which reduce self discharge and increases shelf life).

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**REMOVAL**

**MECH**

**INSP**

- Place a finger around Pull Handle and PULL to break the SEAL, and pull the seat free from the securing peg
- Slide the Restraining Strap off the securing peg and lift away from the PLB
- Grip the sides of the PLB, through the cutaways provided in the PLB Container and lift the PLB free of the PLB/ELT Mounting Bracket.

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**TEST**

**MECH**

**INSP**

**NOTE**

Check the integrity of the antenna connection before operating the BUILT IN TEST function

The antenna must be deployed before carrying out the BIT and stowed after completion of the BIT.

The Built in Test is initiated by switching the slide switch (Figure 1 - No.1) to TEST.

The switch is spring loaded to OFF and must be held at TEST until the test is completed.

At the test position a short delay (3-5 secs) is followed by two audible swept tones and a flickering Light Emitting Diode (L.E.D) which is in sympathy with the audio tone.

Maintain the switch position until a beep is heard and the L.E.D remains permanently at ON.

The two short swept tones declare the 121.5 and 243.0 MHz beacon serviceable and the beep shows the 406 MHz beacon to be serviceable. A slow flash of the LED with pauses, indicates an internal circuit fault and a fast flashing lamp indicates low battery volts.

**NOTE**

To repeat the test, relax the switch to OFF before selecting TEST again.

**NOTE**

After long periods of inactivity the long life battery may passivate and therefore not provide full power for a few seconds. It may be necessary to repeat the built in test several times to develop full battery power and a successful test.

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**INSTALLATION**

**MECH**

**INSP**

- Place PLB into PLB Container, as shown on Installation Drawing no. A0861, ensuring that the lanyard/toggle assembly is safely stowed in the area provided, at the rear of the PLB Container on the opposite side to the PLB Antenna.
- Wrap the restraining strap over the PLB and secure onto the securing peg located on the side of the PLB Container
- Thread the Seal/Release Pull through the hole in the securing peg, ensuring that the restraining strap is sandwiched between the PLB Container and the Seal/Release Pull and that the Pull Handle is forward

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**APPENDIX A - SAFETY CLIP INSTALLATION INSTRUCTION**

MECH

INSP

The assembly of the 01348 switch stop to the 500-12 series or 500-27 series beacon is to ensure that the beacon cannot be accidentally activated via the lanyard or the TEST-OFF-ON switch.

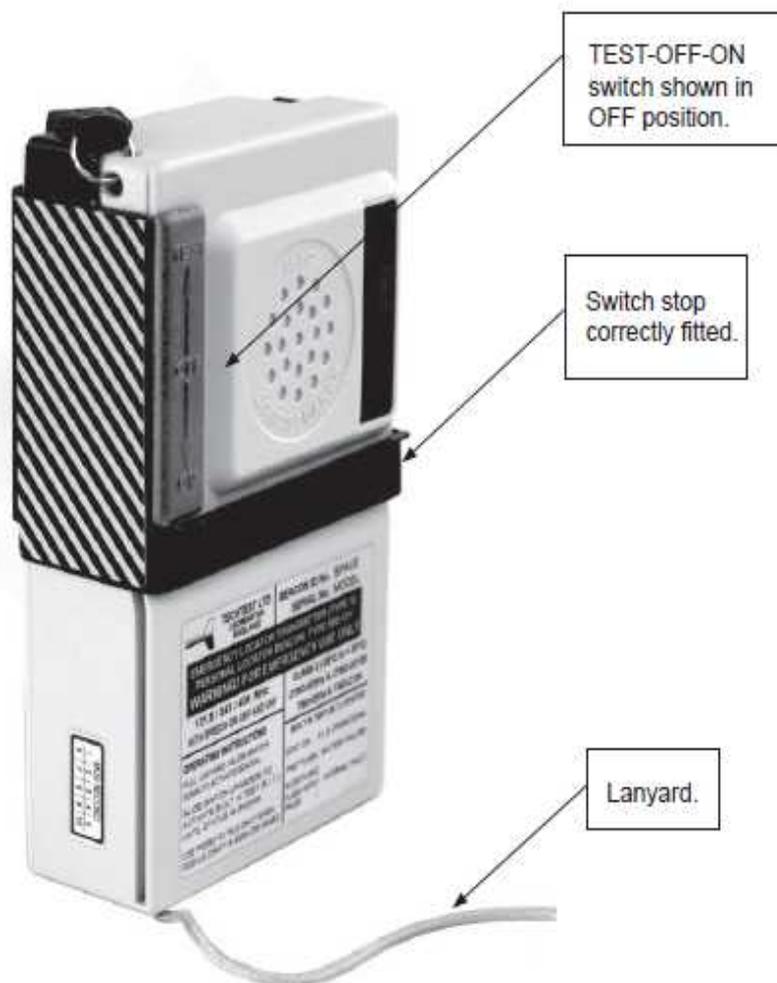
1. Before commencing assembly ensure the TEST-OFF-ON switch is in the OFF position.
- 2.

**NOTE**

Minimal force is required to fit the switch stop

The 01348 switch stop is clipped to the side of the beacon as shown in the photograph below.

3. On completion of the assembly check the unit cannot be activated with either the TEST-OFF-ON switch or the lanyard.



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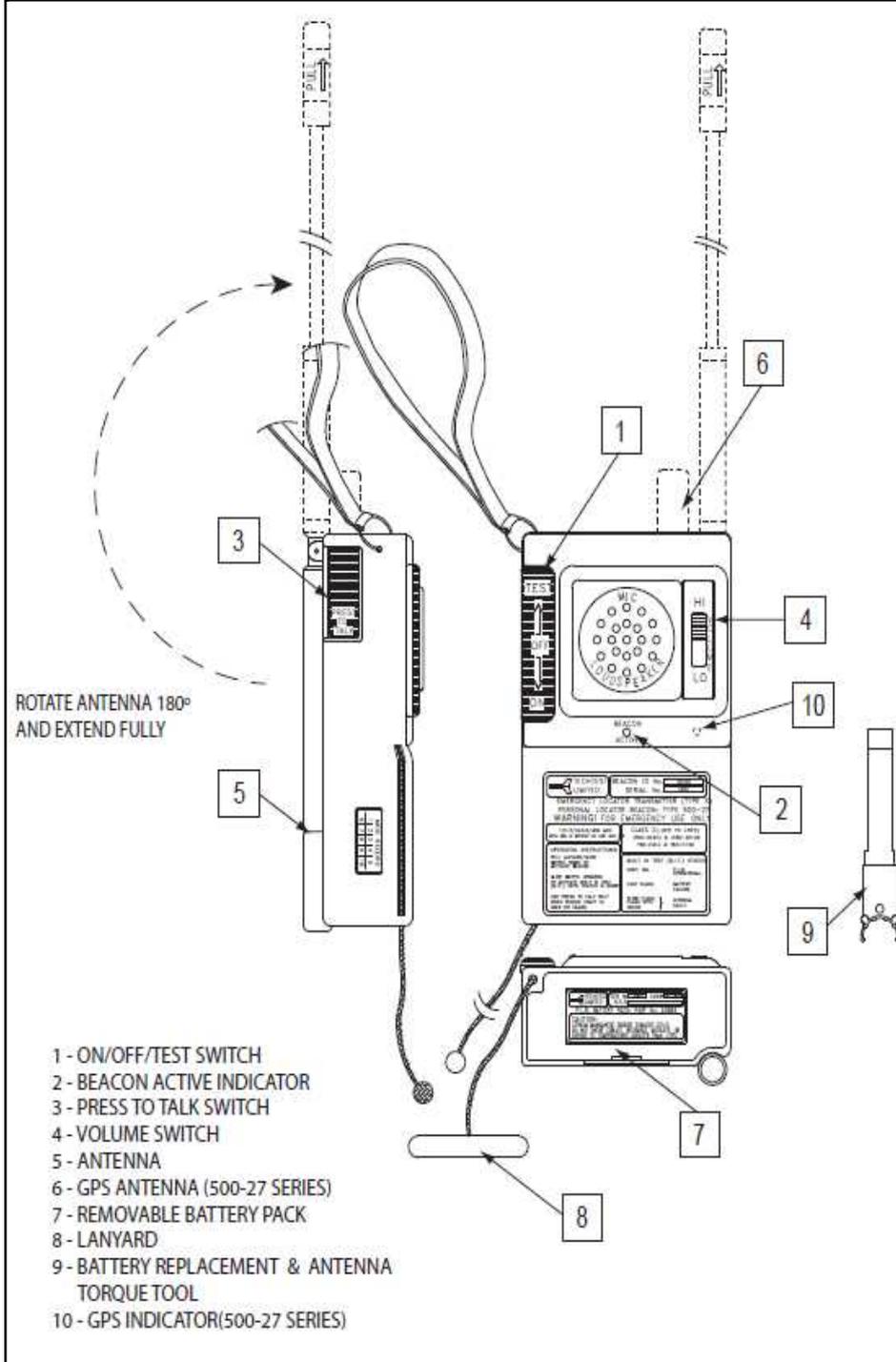
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**FIGURE 1 - PERSONAL LOCATOR BEACON (PLB)**

MECH	INSP



- 1 - ON/OFF/TEST SWITCH
- 2 - BEACON ACTIVE INDICATOR
- 3 - PRESS TO TALK SWITCH
- 4 - VOLUME SWITCH
- 5 - ANTENNA
- 6 - GPS ANTENNA (500-27 SERIES)
- 7 - REMOVABLE BATTERY PACK
- 8 - LANYARD
- 9 - BATTERY REPLACEMENT & ANTENNA TORQUE TOOL
- 10 - GPS INDICATOR(500-27 SERIES)

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