

MANUAL AND ROADMAP



REV. 05, APRIL 2023



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WARRANTY

The following conditions apply:

If within 24 months of the purchase of your instrument, a defect or damage is identified by faulty manufacture, LB Altimeters will repair the unit at no cost the end user.

To make a claim under this warranty, send the unit to an authorized dealer or to our service center together with the dated purchase invoice or receipt.

The warranty becomes void if damage is caused by external circumstances or if the unit has been serviced or repaired by third parties unauthorized by our national agents or LB Altimeters.

All further claims, especially for defects after skydiving accidents, are excluded.

LB Altimeters has no obligation to honor any extension of warranty granted by any national agent.

For more info please visit [LBaltimeters.com/warranty](https://lbaltimeters.com/warranty)

WAIVER OF LIABILITY

The buyer and user of the SOLO II™ indemnify the manufacturer and vendor from any liability for damage incurred before, during and after skydiving with the instrument.

WARNING!

The SOLO II™ is intended to be a complementary source for altitude awareness and must not be relied upon as your primary means of maintaining altitude awareness. The SOLO II™ at your own risk.

When testing the SOLO II™ on the ground the alarm's sounds may be perceived louder than in freefall, due to

the lack of outside wind noise and pressure changes.



The device poses a risk for hearing damage due to high sound pressure (approximately 117dB) near the ears. Exposure to high-energy impulse noise can cause sudden loss of hearing. Exposure to noise is also associated with other hearing disorders such as tinnitus (perception of sound in the absence of an external source). Avoid using a higher volume setting than necessary.

The SOLO II™ must be mounted correctly, to ensure the alarms are audible during freefall. Always ensure the SOLO II™ is mounted correctly prior to jumping.

The SOLO II™ must be active (powered on) prior to entering the airplane.

INTRODUCTION

Congratulations on purchasing your new SOLO II™!

The SOLO II™ audible altimeter is the latest in micro technology and freefall parameters. The SOLO II™ is fully automatic. It continually records the ambient air pressure and temperature and adjusts the electronic circuitry to the local elevation.

The SOLO II™'s small ergonomic design provides the user with comfort and less bulk when used inside a soft or hard-shell helmet.

The SOLO II™ is specifically designed for advanced skydiving disciplines: Relative Work, Free Flying, Student, Tandem, and AFF.

For further information or to ask questions about SOLO II™ or any other LB Altimeters altitude awareness instruments, please visit [LBaltimeters.com](https://lbaltimeters.com)

INSTRUCTIONS

Power ON

The SOLO II™ has been powered off prior to shipping from the factory. To turn the power ON, press and hold any key until the unit beeps, then release the key. The SOLO II™ runs a self-test and beeps three times.

Performing ACCESS

To avoid any unintentional changes in settings, all settings are "locked" behind an ACCESS sequence. ACCESS is required to unlock and change any settings.

1. Press and release .
2. When the ACCESS indicator light illuminates, immediately press and hold .
3. When the ACCESS indicator light illuminates again, release immediately. The unit is now in ACCESS mode. The SOLO II™ now displays three preset warning altitude lights. If no button is pushed for 5 seconds, the SOLO II™ automatically leaves ACCESS mode.

Setting the Warning Altitudes

The SOLO II™ factory preset warning altitudes are:

- 1st warning: 4,500 ft.
2nd warning: 3,000 ft.
3rd warning: 1,500 ft.

Setting the warning altitudes can be performed either on the ground or in the airplane during climb to jump altitude.

3 Warning Alarms

1. Press .
2. Press or to change 1st warning altitude
3. Press again
4. Press or to change 2nd warning altitude
5. Press again
6. Press or to change 3rd warning altitude

Sequence of Warning Alarm Altitudes

Please note that when setting the warning altitudes, it is possible to set the 1st warning alarm altitude lower than the 2nd, or even the 3rd, warning altitude indicator. The 2nd warning altitude could be set to a higher value than the 1st warning altitude indicator, or a lower value than the 3rd warning altitude indicator, and so on. This is not a problem – when the SOLO II™ exits ACCESS mode, it will automatically sort and store the warning alarms such that the highest warning altitude become the 1st warning alarm, the next highest warning altitude becomes the 2nd warning alarm, and the lowest warning altitude becomes the 3rd warning alarm.

2 Warning Alarms

It is possible to have only 2 warning alarms. The procedure is the same as above, but choose the same altitude for the 1st and 2nd warning alarms (the SOLO II™ then sounds only the 2nd and 3rd warning alarms).

1 Warning Alarm

It is possible to only have 1 warning alarm. The procedure is the same as above, but choose the same altitude for all 3 warning alarms (the SOLO II™ then sounds only the 3rd warning alarm).

Testing the Alarm Sounds

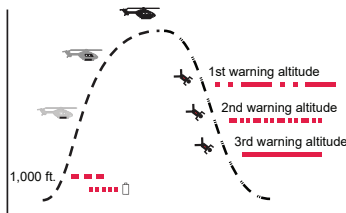
Press and hold .

Power OFF

The SOLO II™ can be manually powered OFF to further extend the battery life time when not in use. The preset warning altitudes are stored in nonvolatile memory when the SOLO II™ is powered OFF. When powered OFF, the SOLO II™ cannot be used for jumping.

Press repeatedly until the OFF indicator light illuminates. Press and hold both and until the altitude warning lights display starts to count down (from 65, 60, 55, etc.) then release. The SOLO II™ will shut off.

1,000 Feet Test



At 1,000 feet $\pm$ 100 feet, the SOLO II™ sounds a sequence of beeps. These beeps have 2 functions:

1. The beeps indicate that the SOLO II™ has calibrated itself to the local ground elevation and is ready to jump.
2. The number of beeps indicates the altitude at which the highest warning alarm is set; for example: If set to 5,500 ft., the signal will sound beep-beep-beep-beep (pause) beep. The number of rapid-sequence beeps indicates the highest warning altitude in thousands of feet. The beep after the pause (if any) signifies a 500-foot altitude increment.

Should the battery voltage of the SOLO II™ be low, the 1,000 ft. test sequence is followed by 5 short beeps. This indicates that the batteries should be replaced.

Prior to Jumping

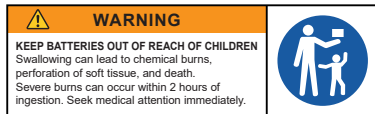
The SOLO II™ normally continuously adjusts itself to the local elevation. However, if the "READY" indicator light flashes, the unit has not adjusted itself to the local elevation and it must be powered OFF and ON again prior to jumping or reset the SOLO II™.

Setting a Drop Zone (DZ) Offset

If the DZ elevation is higher or lower than that of the take-off airport, take this into account when setting your alarm altitudes; don't forget to reset the warning altitudes when you return to your normal DZ environment.

Low Battery

When the 'Low Bat' indicator illuminates, replace the batteries. If the battery voltage is low, the SOLO II™ sound 5 short beeps when climbing through 1,000 feet.



Battery replacement

Carefully remove screw from battery cover and remove batteries. Install new batteries and note polarity. Use only Renata CR 2325. Do not over-torque the screw. Note: Reset the SOLO II™ after replacing batteries.

Reset

Press a paperclip into the tiny hole on the rear side of the unit and release. The unit restarts.

Note: reset the unit after battery replacement and when trouble-shooting.



Air Filter

The SOLO II™ is water resistant against minor splashes of water. The Air Filter is the white circular part mounted on the side of the unit. If it becomes wet, let the SOLO II™ dry in a warm place for 48 hours.

Note: The Air Filter must be replaced if jumping is resumed quickly or if the SOLO II™ has been submerged into water. The Air Filter removal tool kit is an accessory which can be purchased separately.

Mounting the SOLO II™

The SOLO II™ can be mounted on the outside of a helmet. Loop the wax cord through the four mounting holes and fasten with knots to the helmet.

Note: Make sure that there is no material between the SOLO II™ loudspeaker hole and your ear.

Trouble-shooting

When the SOLO II™ detects a fault, the warning altitude "65" LED flashes 2 to 4 times. At the same time the unit beeps every minute.

The "65" LED flashing codes are as follows:
2, 3 or 4 flashes: The unit is not functioning properly. Remedy: perform reset.

If the unit does not function correctly even after replacing batteries and pressing reset, perform the following: Press and hold while resetting.

The SOLO II™ resets to factory altitude warning settings.

If the unit is still faulty, please contact your local dealer or LB Altimeters.

SPECIFICATIONS

Dimensions: 52 x 40 x 11 mm
(2.16 x 1.57 x 0.43 inches)

Weight: 24 grams (0.8 oz.)

Battery type: 2 x Renata CR 2325

Battery Life Time: 2.5 years or 500 jumps

Freefall alarm sounds:

1st warning: One 3 second pulsating alarm if vertical airspeed exceeds 13 m/sec at preset altitude.

Sound sequence: Pulsating, low repetition.

2nd warning: One 4 second pulsating alarm if vertical airspeed exceeds 13 m/sec at preset altitude.

Sound sequence: Pulsating, high repetition.

3rd warning: Siren alarm as long as vertical airspeed exceeds 13 m/sec at or below the preset altitude. After deployment the trigger speed switches to 35 m/sec.

Sound sequence: High pitch continuous siren.

Alarm output volume: 120 dB

Calibration range: 0 to 6,500 feet

Altitude selection interval: 500 feet

Altitude selection interval: 500 feet

Operating altitude: 0 to 40,000 feet

Accuracy: $\pm$ 100 feet

Operating Temperature Range: -20° C to +50° C
(-4° F to +122° F)

Storage Temperature Range: -30° C to +60° C
(-22° F to +140° F)

Electromagnetic Compatibility: 2014/30/EU

LB Altimeters part no.: 205112

NATO Stock no.: 6675-22-620-5097

ROAD MAP



REV. 04, FEBRUARY 2023

WARNING

This Road Map does not replace the SOLO II™ Manual nor releases the user from the obligation to comply with the contents of the SOLO II™ Manual.



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ACCESS

- 1** Press and release the **mode** button .
- 2** When the ACCESS indicator light turns on, immediately **press and hold** the **mode** button – the ACCESS indicator turns off again.
- 3** When the ACCESS indicator light turns back on again, **release** the **mode** button . The SOLO II™ is now in **ACCESS** mode.

Note: The SOLO II™ exits ACCESS and returns to the Main Window if no button has been pressed within 5 seconds. ALL functions (except Power ON) can be performed ONLY when the SOLO II™ is in ACCESS mode.

