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SREELINK 406 MHz GPS Personal Location Beacon kannad USER MANUAL AUS, N/Z

An Orolia Group Business 91-344 Issue 3

SAFETY NOTICES

WARNING: A Personal Locator Beacon (PLB) is an emergency radio beacon;

Use only in situations of grave and imminent danger to life.

A CAUTION: False alerts endanger lives and cause expensive disruption to Search and Rescue services, deliberate misuse of the PLB could result in penalty and fine.

A CAUTION: Spring action antenna deployment; tilt the PLB away from your face when deploying the antenna.

CAUTION: Do not dismantle the PLB: contains no user-serviceable parts.

CAUTION: Contains lithium batteries. Do not incinerate, puncture, deform, shortcircuit or recharge.

CAUTION: Dispose of a used PLB in accordance with local waste disposal regulations. Refer to End of Life Statement. **A CAUTION:** Avoid using chemical solvents to clean the PLB as some solvents can damage the case material.

A CAUTION: Radio licensing; the PLB is a radio transmitter. Some administrations may require that the user holds a valid radio license to cover its ownership and use.

A CAUTION: Never completely remove the integral buoyancy pouch.

Radio Frequency Exposure Warning

WARNING: The PLB emits low levels of radio frequency radiation; avoid handling the antenna once activated

REGISTRATION

WARNING: The PLB must be promptly registered with the appropriate National Authority. Failure to register the PLB could delay a Search and Rescue (SAR) response and may be unlawful.

Your PLBs unique identification information

Programming label here

INTRODUCTION

Congratulations on purchasing the SafeLink SOLO Personal Location Beacon (PLB). When carrying a SafeLink SOLO you enjoy the reassurance of a last resort safeguard against any life threatening incidents that may occur anywhere in the world. If you find yourself in a remote area without any other form of emergency communication, on land or at sea, your SafeLink SOLO can call for help.

SafeLink SOLO will transmit a unique emergency identifier to the COSPAS-SARSAT satellite system which can determine your location anywhere on the earth's surface. In most cases the emergency alert is received within 5 minutes of activation, but depending on satellite coverage at the time, this can sometimes extend to 45 minutes.

SafeLink SOLO has a secondary 'homing' transmitter which allows SAR teams to direction find or 'home' on it once they arrive on scene. SafeLink SOLO has a storage life of 6 years and once activated will continue to transmit emergency alerts for a minimum of 24 hours.

For further information visit COSPAS-SARSAT on line at www.cospas-sarsat.org and www.kannadmarine.com.



ADVICE TO OWNERS OF PERSONAL LOCATOR BEACONS

Registration of the PLB with the PLB Registration Section of the Australian Maritime Safety Authority (for Australian registration) or Civil Aviation Authority of New Zealand (for registration in New Zealand) is mandatory because of the global alerting nature of the system. The information provided in



Pull back the buoyancy pouch to view information (for clarity the buoyancy pouch is not shown).

the registration card is used only for rescue purposes. Fill in the owner registration card immediately upon completion of the sales transaction. Mail the registration card immediately. If the beacon is to enter service immediately, complete the registration card and fax the information to the national authority; Australian Fax number; 1800 622 153, New Zealand Fax Number: +64 4 577 8041. The original card must still be mailed to the relevant national authority for hard-copy reference and filing. If the current owner is transferring the begon to a new owner, the current owner is required to inform the national authority by letter, facsimile or telephone of the name and address of the new owner. The subsequent owner of the beacon is required to provide the national authority with the information as shown in the owner registration card. This obligation transfers to all subsequent owners.

Battery expiry date

Country name & Hex ID

Fit "proof-ofregistration" DECAL label here

IMPORTANT

Batteries should be changed on or before the expiry date indicated on the equipment and the battery replacement date label on the equipment updated appropriately.

OVERVIEW

Red pull handle

Pull to expose antenna

Only pull in an emergency

Pulling breaks the plastic anti-tamper seal that cannot be reset by the user

White indicator Light

Flashes every 3 seconds once PLB is active, Long flash every 50 seconds means satellite transmission OK Flashes twice a second when GPS is searching 3 rapid flashes means GPS location sent

Antenna

Unwraps and stands vertical once cover is off

GPS antenna zone

Do not obstruct Needs a clear view of the sky for best operation

ON button

Press once to activate PLB

When the PLB is on, push the ON button again to make the indicator light flash an SOS signal pattern

TEST / OFF button

Push and hold to start the self test feature, a flash of white light indicates that the self test is successful

> Once PLB is active Hold TEST to turn PLB off

> > Eyelet for lanyard



(For clarity the buoyancy pouch is not shown).

ACTIVATING THE SAFFLINK SOLO

Only ever activate in situations of grave or imminent danger.

- 1) Peel away bouyancy pouch if fitted
- 2) Flip up the red pull handle, Pull the antenna cover off IMPORTANT

The antenna cover is an anti-tamper seal, once broken it can not be refitted.

Hold the end of the antenna.
Unwrap the antenna until it stands vertical

CAUTION

Spring action antenna deployment; tilt the PLB away from your face before deploying the antenna.

4) Press the ON button

Transmission of the first emergency alert message takes place 50 seconds after initial activation. In the event of an accidental or false activation this delay allows time for the user to turn off the Safel ink SOLO before the first alert is transmitted.







DEPLOYING THE PLB

- Always position the PLB so that the antenna stands vertical
- If it is windy, rotate the PLB so that the white indicator light faces into the wind









Use around water

The SafeLink SOLO is waterproof to 10 meters submersion for short periods. To avoid loss if dropped into water, fit a retaining lanyard through the eye hole in the base of the PLB and fasten it securely to your clothing or personal floatation device.

Never completely remove the integral buoyancy pouch.

Note: The SafeLink SOLO PLB is not designed to float in an upright position or transmit a distress alert when floating in water.



INDICATOR LIGHT

The indicator light will start flashing immediately the SafeLink SOLO is activated.

SafeLink SOLO Light indication











PLB ACTIVE 1 flash every 3 seconds



SATELLITE TRANSMISSION OK Large flash once every 50 seconds

SafeLink SOLO GPS Light indication







GPS SEARCHING 2 flashes every 1 second



SATELLITE TRANSMISSION SENT WITH GPS LOCATION OK Sequence repeats every 50 seconds









PLB ACTIVE 1 flash every 3 seconds

FLASH SOS FFATURE

When the PLB is active, pressing the ON button will cause the indicator light to flash a Morse code SOS pattern. This can be used to attract attention after nightfall. The SOS pattern is repeated four times on each press.



To conserve battery life, a maximum of 30 presses are allowed, after which this feature is disabled.



DE-ACTIVATION AFTER USE

To turn off the SafeLink SOLO, press and hold the TEST button for several seconds until the indicator light stops flashing.

We recommend the antenna is re-wound under the plastic peg. If possible, the yellow antenna cover should be pushed back in place and temporarily taped over, to avoid



accidental pressing of the ON button.

Important

As soon as possible the PLB should be returned to a service agent, who will fit a new antenna cover and check the battery condition. If the PLB was active for more than a few hours we recommend fitting a fresh battery to ensure the full 24 hour operational life is still available.

SELF TEST

Self-test verifies operation of the PLB by checking all key features including the battery and alert transmitters.

TEST button

Push and hold the SELF TEST button very firmly for a minimum of 2 seconds, the indicator light will flash once to



indicate the start of the self test sequence.

After a few seconds, a good self-test will result in the indicator light flashing a number of times in quick succession depending on battery usage;



fresh battery self test pass



minimum usage self test pass medium usage self test pass



The PLB will switch off automatically when the self-test has completed.

Important

Each self-test draws small amounts of energy from the battery pack. Unnecessary testing of the PLB will reduce the run time of the PLB in an emergency. On average, the PLB should only be self tested 12 times per year, or a total of 60 times during the 6 year battery lifetime.

GPS POSITION ACQUISITION TEST

When testing the GPS, take the PLB outside into an open space with a clear view of the surrounding sky.

Self testing of the in-built GPS is restricted to a maximum of 10 tests throughout the 6 year storage life of the battery. Once all the tests have been used up, attempting further tests will cause the indicator light to flash 4 times in quick succession and the PLB to power off.

The GPS self-test feature can only be accessed after first completing a standard PLB self-test routine;

Push and hold the TEST button for a minimum of 2 seconds, the indicator light will flash once to indicate the start of the self test sequence. Release the TEST button.

After a few seconds the standard self-test routine will complete and should result in the indicator light flashing a number of times in quick succession depending on the past battery usage.

Immediately after the indicator light stops flashing, hold down the TEST button for around 30 seconds The GPS test routine starts when the indicator light begins to flash, now release the TEST button. The light will continue to flash slowly for up to 5 minutes; you should continue to watch the PLB throughout this period.

A successful GPS test is signalled by the indicator light flashing a number of longer flashes in quick succession.



Important

To preserve battery life, GPS testing is restricted to a maximum of 10 tests throughout the 6 year battery life. Once used up, further GPS tests are prohibited.

No GPS tests remaining

CHOOSING THE BEST LOCATION

The SafeLink SOLO works best under an unobstructed view of the sky. This ensures the emergency alert message reaches the satellite system and gives the GPS receiver the best signals to work with.

If it's not possible to pick a location with an unobstructed view of the sky, then try to maximize the amount of sky available.

Tree canopy degrades performance. Find a clearing with as much sky view as possible.

Ravines, canyons, caves and overhangs should be avoided if at all possible.

Stay put - Rescue teams expect you to remain stationary. Trying to walk for help is generally not advised and will probably slow down the rescue effort.

On foot

If you must walk for help, ensure the SafeLink SOLO antenna remains vertical.

Aircraft

A PLB is often used as an additional carry-off safety device. The PLB should NOT be activated aboard an aircraft. The signal will be blocked by metalwork and the PLB may be damaged by any impact. Activate the PLB after landing, away from the aircraft, as it may cause shadowing.

Vehicles

The PLB will not work well inside a vehicle due to metalwork shadowing. Exit the vehicle, activate the PLB, and place it on the roof, the hood, or just on the ground away from the vehicle.

Land

Find the best sky view, then place the PLB on flat ground. Keep the antenna pointing towards the sky and ensure wind does not knock the PLB over. Do NOT allow the antenna to sit in a puddle of water.

Aboard ship

Place the PLB flat on the deck, choosing a position with the best sky view.

Liferaft

Try to keep the PLB flat and try to elevate the PLB to avoid bodies blocking the signal. Consider holding the PLB outside the canopy. But first attach a lanyard between the PLB and your clothing to avoid loss of the PLB.

Lifejacket

Attach a lanyard cord between the PLB and clothing to avoid loss of the PLB. Hold the PLB flat on top of the life vest and try to keep it above any wave wash. Keep the antenna vertical. Avoid holding the antenna, or blocking the GPS zone with your hand.

False alerts

If the PLB has been accidentally activated, or if rescue has been effected before arrival of the rescue services:

- Switch off the PLB and notify the appropriate rescue services or authorities at the earliest possible time.
- Contact the rescue services, coastguard, or police by radio or telephone to advise them of the false alert.

In Australia contact AusSAR Tel 1800 406 406 In New Zealand contact New Zealand Search and Rescue (NZSAR)

Tel +64 4 914 8383

TRANSPORTATION

Passenger Aircraft;

These products contain small lithium metal batteries. They can normally be carried on board passenger aircraft as a personal item in carry-on baggage. Orolia Ltd always recommends declaring the PLB to airline staff at check in, in the same way you would for a laptop PC or video camera.

As air cargo;

These products contain small lithium metal batteries. Due to the overall low level of lithium content they are not restricted as air cargo under IATA UN3091-PI 970, always check with the carrier concerned for any additional restrictions that could apply.

END OF LIFE STATEMENT

At the end of the products useful life, it is vital that the battery is removed from the main body of the PLB to prevent false alerts. False alerts cause expensive disruption to Search and Rescue services and may endanger lives as a consequence.

Safe disposal

Contains traces of lithium, may contain lead and brominated flame retardants (BFRs), both in the housing material and circuit boards.

DO NOT INCINERATE

Orolia Ltd strongly recommends that this PLB product is disposed of in a sensible and considerate manner. For example, do not simply discard the product in the domestic waste. Instead take it to a civil recycling facility, or contact Orolia Ltd for advice.

SAFELINK SOLO

STANDARDS	COSPAS-SARSAT	ELECTRICAL	
APPLIED	T.001/T.007 class2 RTCM SC110 STD 11010.2	406.037 MHz transmitter	\pm 1KHz, 5W \pm 2dB
	ETSI EN 302-152-1 AS/NZS 4280.2 NSS-PLB06	121.5 MHz transmitter	± 3KHz, 50mW ± 3dB PERP
ENVIRONMENTAL		Homer sweep direction	UP or DOWN
Exterior Finish	Highly visible yellow	Transmit Antenna	Deployable flexible
Sealing	Temporary immersion to 10m (30 ft) for 5 mins.		verticál blade
	(IP 58, IPX7)	Programming interface	Optical Infra-red link
Operating temperature Class 2, -20°C to +55°C		PHYSICAL	
0 1	Class 2, -30°C to +70°C	SafeLink SOLO	
Altitude BATTERY	MIL-STD-810E	Size (D x W x L)	36 x 50 x 112mm (1.42" x 1.97" x 4.40")
Battery Type	6V Lithium Metal	Weight	165g (5.8oz)
Battery storage	6 years	GPS	50 channel
Battery	By service centre	Receive Antenna	Ceramic Patch
replacement Battery use	Logged by microcontroller	GPS Self test	Position acquisition test (10 operations allowed)
OPERATION		PART NUMBER	·
Activation	Three stage manual activation	K91-001-311A	SafeLink SOLO PLB (with
Self test	Tests transmitters, battery and light		GPS) retail pack
SOS flash light	Morse code SOS pattern (30 operations allowed)	To comply with legislation this PLB has been fitted with a buoyancy pouch	
TRANSPORTATION		wiiii a booyancy po	ocn
Air cargo	UN 3091, not restricted, IATA SP 188 - PI 970		

DISCLAIMER

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WARRANTY

Subject to the provisions set out below Orolia Ltd warrants that this product will be free of defects in materials and workmanship for a period of five years from the date of purchase. Orolia Ltd will not be liable to the buyer under the above warranty:

- for any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow Orolia Ltd's instructions (whether oral or in writing) including a failure to install properly and/or to use batteries recommended and/or supplied by Orolia Ltd, misuse or alterations or repair of the product by persons other than Orolia Ltd or an Approved Service Agent;
- for parts, materials or equipment not manufactured by Orolia Ltd in respect of which the buyer shall only be entitled to the benefit of any warranty or augrantee given by the manufacturer to Orolia Ltd:
- for the battery storage life which is specifically excluded from this warranty:
- if the total price for the product has not been paid.

THE LIMITED WARRANTY STATED ABOVE IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

Orolia Ltd will not be liable for indirect, special, incidental or consequential damages of any kind sustained from any cause. In no event shall Orolia Ltd be liable for any breach of warranty or other claim in an amount exceeding the purchase price of the PLB. This warranty does not affect any statutory rights of the consumer

In order to be valid, claims must be made under the above warranty in writing as soon as practicable after discovery of the defect or failure and within the warranty period referred to above. Proof of purchase will be required. The claim should be sent together with the product in question to the address set out below or to an Approved Service Agent. Following a valid warranty claim Orolia Ltd shall be entitled to repair or replace the product (or part) in question free of charge, or at Orolia Ltd's sole discretion to refund to the buyer the price of the product (or a proportional part of the price). Orolia Ltd shall not be liable to a buyer who is not a consumer for any other loss or damage (whether indirect, special or consequential loss of profit or otherwise) costs. expenses or other claims for compensation which arise out of or in connection with this product. In the case of a consumer Orolia Ltd shall only be liable where other loss or damage is foreseeable.

Nothing shall limit Orolia Ltd's liability for death or personal injury caused by its negligence.

This warranty is to be interpreted under English law.