



**DANIAMANT**

## **RL1 Liferaft lights & RB2 Battery pack also applies to RL1 (RFD/DSB) & RB2 (RFD/DSB)**

### Installation and Maintenance Instructions



#### **Description**

- RL1** The RL1 is an internal light for liferafts to provide adequate light for reading inside a covered raft, for a minimum of 12 hours. The unit is fully sealed and watertight, and comprises a plastic dome and incandescent lamp. A cable with moulded plug is provided to connect to the socket of a RB2 battery pack.
- RB2** Each battery pack comprises a single lithium cell in a sealed moulded housing including a switch; this permits both automatic and manual operation. The battery is protected against damaging currents and short circuits by a fuse.

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## Installation

### Light

The base of the RL1 has two fixing slots. The unit can be attached to the raft by:  
Being stitched to raft fabric, then mounted by adhesive inside the apex of the canopy.  
By a fixing plate, as shown on Page 3.

Battery leads should be stitched into a seam during raft manufacture. The lead length is configured to suit the raft requirements.

### Battery

The battery pack is a power source for one light only. The battery is installed in a pocket or restrained by straps in the raft, where it is easily visible for manual operation. If the instructions on the battery label are obscured, they should be repeated elsewhere on the raft. For automatic operation the pull toggle should be fixed by its cord to the side of the raft opposite the battery so that it is pulled out when the raft inflates.

## Operation

When installed for automatic operation, the light will illuminate when the raft is inflated. A slide switch on the side of the battery pack may be pressed up and down to turn the light on or off. This permits manual operation of the lamp, as often as necessary.

## Maintenance

### Routine service and battery replacement

RL1 and RB2 units are maintenance free, but the following checks should be made at each service of the liferaft:

1. Check date on battery pack. Battery packs must be replaced not more than 5 years after date of manufacture; consequently, if the battery expiry date is earlier than the next liferaft service then the battery should be replaced (Standard replacement part 71-C200).
2. Inspect light and batteries for signs of damage or corrosion. Lightly grease battery connector 'O' ring with silicone grease and replace connector. If damage or corrosion visible the unit is to be replaced.
3. Remove pull toggle from RB2 battery pack – light should illuminate immediately. If light fails to operate, go to step 4. If light operates, replace toggle in battery pack; test is complete.
4. If light fails to operate, replace battery pack with a checked unit and retest from step 3. If light continues to malfunction, replace light and cable assembly with a checked unit.

### After use

Battery pack, light and cable assembly must be changed after use.

## Safety

RB2 battery packs contain a Lithium cell. This must be handled correctly:

- Do not dismantle battery pack
- Do not make any external electrical connection
- Do not recharge
- Do not incinerate
- Store between  $-30^{\circ}\text{C}$  and  $+65^{\circ}\text{C}$

## Health and Safety information

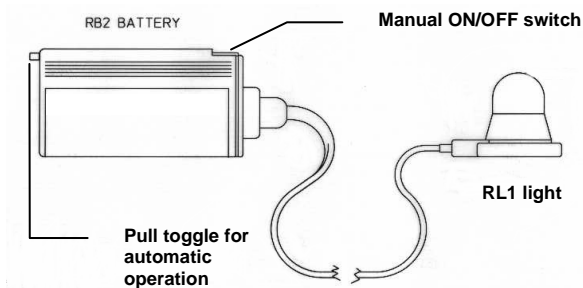
Daniamant lithium-powered marine safety light systems have a design life of 5 years. The batteries are hermetically sealed pressurised primary Lithium/Sulphur Dioxide cells, and as supplied are electrically protected by diodes and a fuse, and are environmentally protected by a moulded plastic housing. In this condition the units pose no definable hazard to health.

Information on the composition and behaviour of these products is contained in the Material Safety Data Sheet, available on our website: ([www.daniamant.com](http://www.daniamant.com)) or on request.

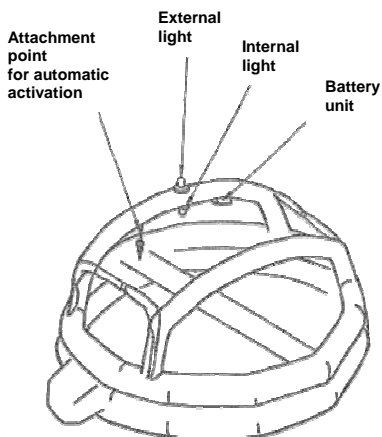
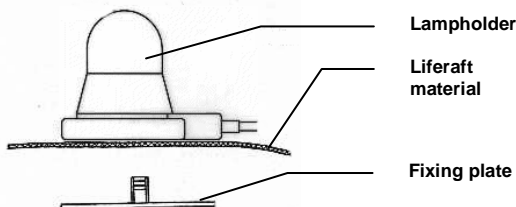
## Battery disposal

Dispose of used batteries in accordance with local regulations. This should be done through an approved environmental disposal agent.

## Light and battery pack



## Method of attaching light



***Suggested attachment points to liferaft  
(alternative positions may be used)***

***This page contains no other  
data***

Further copies of this installation and maintenance instructions are available to download from  
our website **[www.daniamant.com](http://www.daniamant.com)**  
A copy of these instructions must be held with the ships/owners training manual.