

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.

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°C and $+65^{\circ}\text{C}$

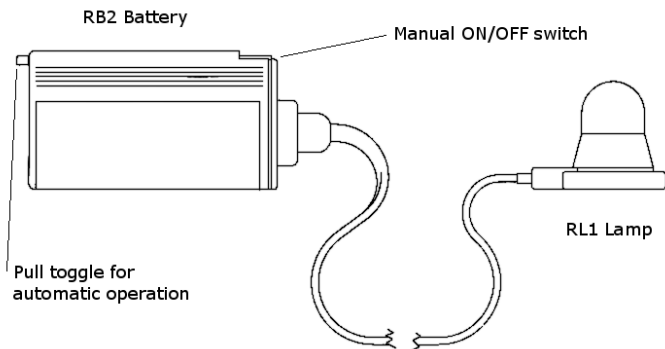
Health and Safety information

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.

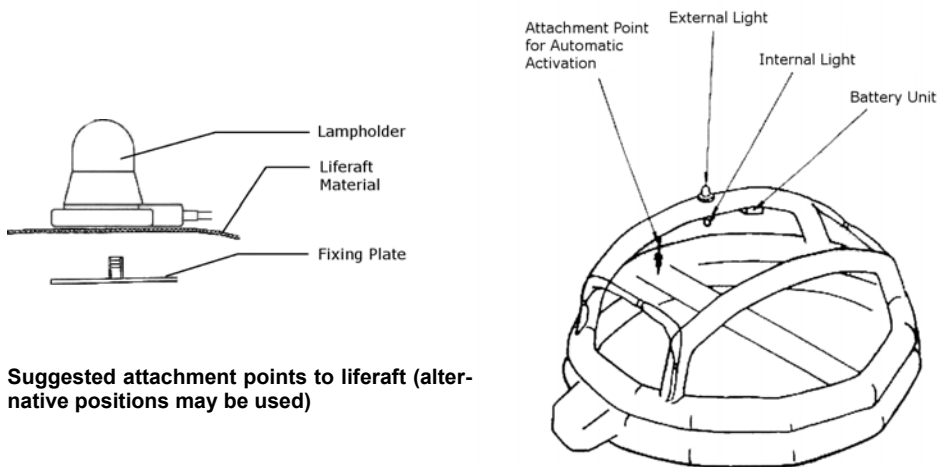
Battery disposal

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)

Product Disposal Instructions

Daniamant's Survivor Location Lights contain batteries as well as electrical and electronic components, and must therefore be segregated from the domestic waste stream and recycled. Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Daniamant's lights are marked with the symbol below which conveys that this waste must be treated separately from household waste.

To ensure compliance with the WEEE and Battery Regulations, the Survivor Location Lights placed on the market in the UK or Denmark should be returned to Daniamant in the UK or Denmark, or deposited in your nearest WEEE Designated Collection Facility, operated by your Local Authority.



Daniamant



RL4 Liferaft light & RB2 Battery pack also applies to RL4 (RFD/DSB) & RB2 (RFD/DSB)

Installation and Maintenance Instructions



Description

- RL4** The RL4 is a high intensity flashing light for mounting externally on liferafts. The unit is fully sealed and watertight, and comprises a plastic dome, incandescent lamp and electronic circuit. Two cables with moulded plugs are provided to connect to the sockets of two RB2 battery packs. The dome is sealed by a neoprene 'O' ring.
- 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. Operational life is 12 hours minimum.



Installation

Light

The base of the RL4 has two fixing slots. The unit can be attached to the raft by:

- Being stitched to raft fabric, then mounted by adhesive at the apex of the canopy.
- By a fixing plate, as shown in the attached drawing.

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

Battery

Two battery packs are required as the power source for one flashing light. Note: the battery packs are connected in series through the electronics unit. The batteries are installed in a pocket or restrained by elastic straps under the raft canopy, where they are easily visible for manual operation. Battery packs must be installed at least 50mm apart to prevent magnetic interaction. If the instructions on the battery label are obscured, they should be repeated elsewhere on the raft. For automatic operation both pull toggles should be fixed by their cords to the side of the raft opposite the batteries so that they are pulled out when the raft inflates.

Operation

When installed for automatic operation, the light will illuminate and flash when the raft is inflated. Slide switches on the sides of the battery packs may be pressed down and up to turn the light on or off; both switches must be on for the lamp to operate. This permits manual operation of the lamp, as often as necessary.

Maintenance

Routine service and battery replacement

RL4 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 toggles from RB2 battery packs – light should illuminate and flash immediately. If light fails to operate, go to step 4. If light operates, replace toggles in battery packs; test is complete.
4. If light fails to operate, replace battery packs with checked units and retest from step 3. If light continues to malfunction, replace light and cable assembly with a checked unit.

After Use

Both battery packs, light and cable assembly must be changed after use.

Battery disposal

Dispose of used batteries in accordance with local regulations. This should be done through an approved environmental disposal agent. See page 4.

Safety

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

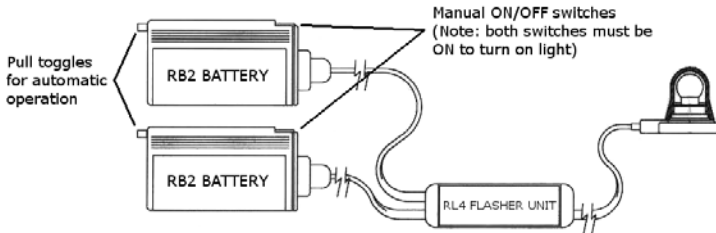
- Do not dismantle battery pack
- Do not make any external electrical connection
- Do not recharge
- Do not incinerate
- Store between -30°C and $+65^{\circ}\text{C}$

Health and Safety information

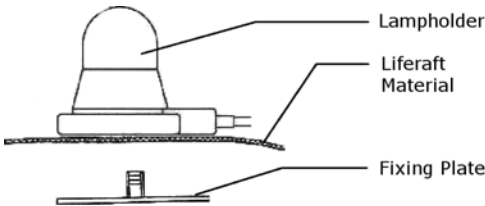
Daniamant lithium-powered marine safety light systems have a design life of 5 years. The batteries are hermetically sealed pressurised primary Lithium/Sulphur Dioxide cells, and as supplied are electrically protected by diodes and a fuse, and are environmentally protected by a moulded plastic housing. 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.

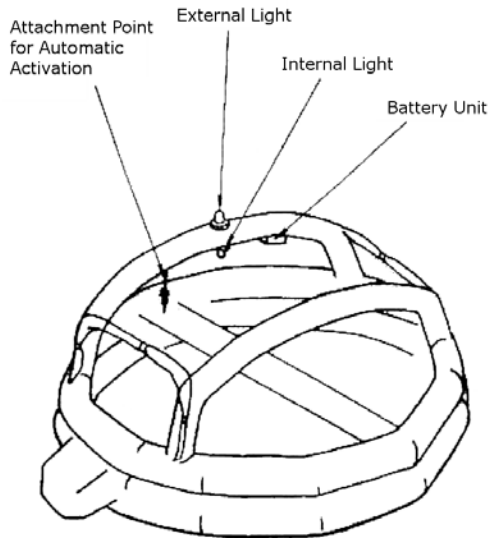
Light and battery pack



Method of attaching light



The fixing plate is a flat disc with protruding tabs on one face which clip into the base of the lampholder. The fixing plate requires two holes 6mm diameter at 30mm centres in the liferaft material to provide clearance for the clip tabs. Suitable for fixing to material of maximum thickness 3mm



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

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