

1. Purpose

This Manual is intended to provide descriptive information of the Model WAB-MX8 Marine Lifejacket Light, information for its maintenance and overhaul, instruction concerning the proper mounting of the light on lifejackets to ensure continued compliance with prescribed minimum performance standards, and pertinent operating instructions and limitations for the device.

2. Description of Device

The Model WAB-MX8 Marine Lifejacket Light consists of a water-activated battery and a light assembly, connected by an electrical wire

The battery consists of two cells, each containing a cuprous chloride cathode and two magnesium alloy anodes in an injection-molded plastic case. Each case contains two holes, one on the top and one on the side near the bottom. The holes allow water to enter the cavities between the cathode and anodes and act as an electrolyte. The holes are plugged by a pull-plug, which prevents water or moisture from entering the battery until activation of the light is needed.

The light assembly consists of a 3.2-Volt miniature incandescent lamp mounted in a plastic bulb holder and covered by a clear acrylic lens.

3. Operating Instructions


The pull-plug provided should be firmly attached to the battery case until there is a need to activate the light.

For manual activation, the plug handle should be gripped firmly and pulled up and away from the battery. Automatic activation is possible with an inflatable lifejacket, by rigging the pull-plug to the jacket so that the plug is removed from the battery on inflation.

Once the pull-plug is removed, the battery cells of the WAB-MX8 are activated automatically in less than one minute following immersion of the battery in fresh water or seawater, and the light will light automatically.

4. Maintenance and Overhaul Information

1. No maintenance is required.
2. Periodic overhaul is not required. Overhaul at end of life is not possible. Defective or passivated units must be returned to the manufacturer or otherwise disposed of.

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3. Inspection of light assembly
 - One) Lamp Electrical Test:
 - a) Pierce the electric wire with two pins connected to a 3.0 VDC power supply. Two 1.5 VDC batteries connected in series may be used in place of the power supply.
 - b) Check that the lamp lights up. An inoperative light should be rejected.
 - Two) Battery Test:
 - a) Replace lifejacket light if one or both of the battery cases shows obvious signs of swelling (e.g., cracking or discoloration of the plastic, bulging at one end of the case).

5. Instructions for Mounting on Lifejackets

1. Some recommended methods for mounting the WAB-MX8 on life vests are:
 - One) Attach light assembly to lifejacket on the top or front of the shoulder.

One may use velcro patch or tie wrap, or sew light assembly to jacket, attaching at any four of eight holes provided in lower ring of plastic bulb holder.
 - Two) Attach battery low on the lifejacket, in an area that will be submerged when worn in water.


One may attach battery firmly to strap using plastic clip bracket and base provided (upon ordering) with the WAB-MX8. (see page 5)

Alternatively, one may attach battery firmly to strap or fabric with tie wraps, or by attaching firmly with adhesive strip. Battery may also be sewn to the jacket, attaching through the hole provided in the top (next to the handle of the pull-plug).

IMPORTANT: Be sure that the pull-plug is not trapped in any way, and that all four plugs can be removed without hindrance.

6. Limitations of the Device

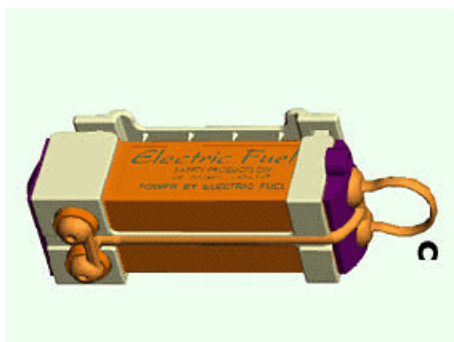
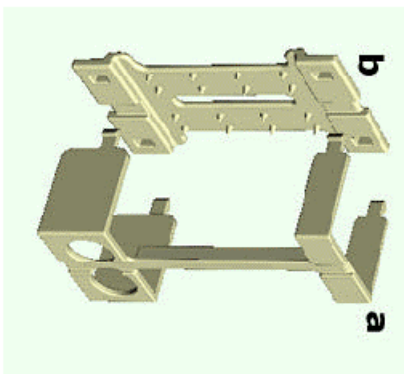
1. The device is designed to provide light intensity of at least 0.75 candlepower (cd) in all directions of the upper hemisphere of the lens, as required under IMO SOLAS regulations, for a minimum of eight (8) hours after activation.
2. Once activated by immersion in water or any other conductive liquid, even if subsequently removed and dried, the device should not be used again as a safety appliance under any marine safety regulation.

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WAB-MX8 SOLAS Lifejacket Light Fast-Attach Plastic Clip

2 piece clip, ready for assembly

Clip attached to battery



1. Gently remove pull-plug (c) from top and bottom side of battery.
2. Line up clip (a) to battery, lining up holes on clip with plug holes on bottom side of battery.
3. Gently re-attach pull-plug to the battery case, making sure plug is **firmly** in place both on the top and the bottom side of the battery.
4. Attach battery firmly to lifejacket strap by feeding strap along the back of battery and fastening plastic base (b) to clip by pushing the clip's four plastic hooks through the corresponding holes on the clip base (the plastic spikes should face inwards, holding the strap firmly in place).

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