

OPERATION and MAINTENANCE INSTRUCTIONS

Product Name: Morse Signal Torch

Product Code: LNK-WET-02

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Section I Purpose

This set of instructions serve to guide users how to operate and maintain LNK-WET-02 Morse Signal Torch properly.

Section II Description

2.1 Introduction

LNK-WET-02 Morse Signal Torch is a compact signaling torch that complies with ISO18813:2022 and SOLAS. It is specifically designed for use in liferafts and lifeboats and can also be used in other lifesaving situations, leisure, or outdoor sports as an illuminating torch. The torch is IP67 waterproof, self-floatable, and features a replaceable alkaline battery with a high-efficiency LED light. With a new LONAKO battery, it can provide over 12 hours of continuous illumination at 200cd luminous intensity.

LNK-WET-02 Morse Signal Torch has two functions:

- 1) A gentle press for Morse signal code (indicated by ① in Figure 1)
- 2) A deep press to lock the illumination (indicated by ② in Figure 1)

Each unit of LNK-WET-02 Morse Signal Torch comes in a storage box that contains a spare LED and a spare alkaline battery.

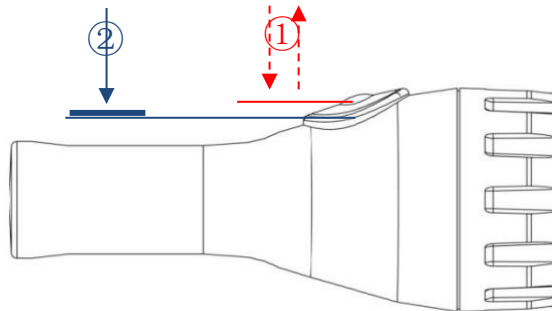


Figure 1 Switch Operation

2.2 Product Structure

2.2.1 LNK-WET-02 Morse Signal Torch consists of the main body, an alkaline battery, PCB pack, an LED bulb and a lampshade. The structure is shown as below in Figure 2.

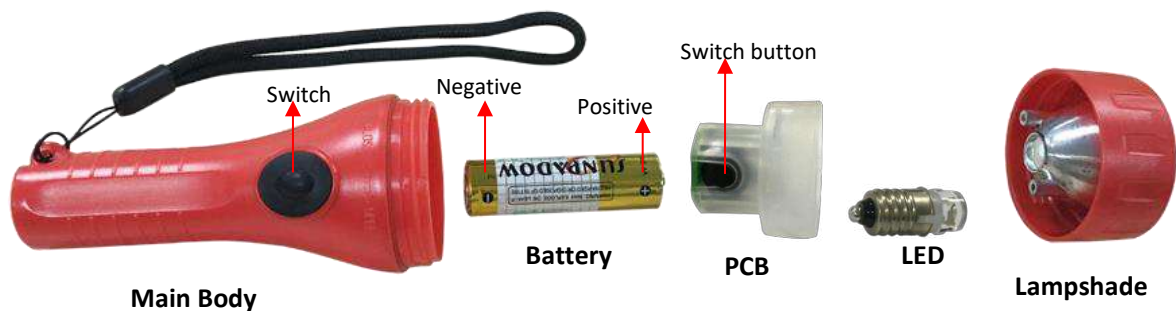


Figure 2 Product Structure

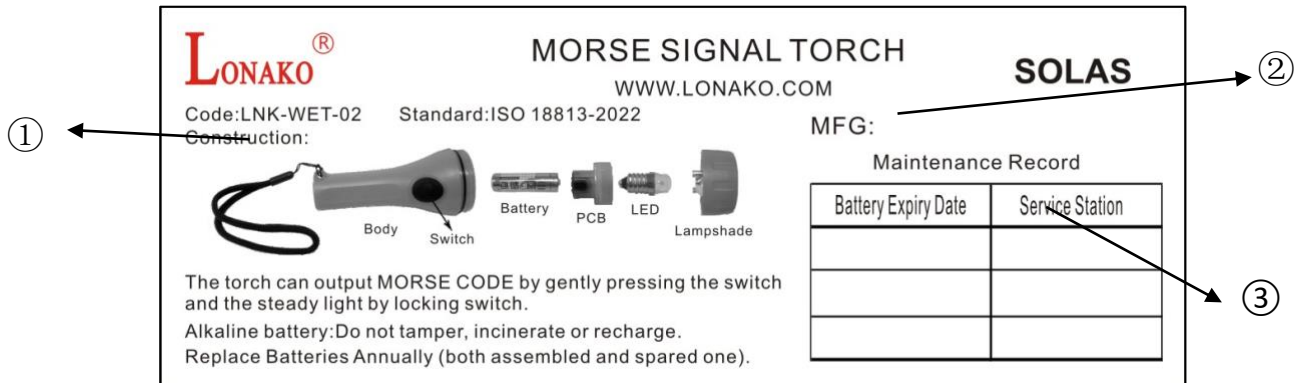
2.3 Technical Parameters

Table 1 Technical Parameters

Technical Parameters	Specification
Battery Type	1* AA alkaline battery
Light Source	High efficiency LED
Chromaticity	White
Max. Frequency	≥180 times/min
Function	Morse Signal and Steady light
Light Intensity	≥200cd
Operation Time	≥12h (25±5°C)
Waterproof Rating	IP67
Buoyancy	Self-floatable
Storage Temperature	-30°C ~ 65°C
Optimal Working Temperature	-1°C ~ 30°C
Weight	Torch: 65g Whole packaging: 115g
Dimensions	Main Body: 105*Φ42.36mm Packaging Box: 114*48*45mm
Activation	Gently press the switch to output Morse signal code, Deeply press the switch to output steady light
Performance	Fire-resistant, Oil-resistant, Mould-proof, Corrosion-proof, Waterproof
Environment Performance	Meet RoHS and asbestos-free requirement
Standards	ISO18813:2022, SOLAS
Certification	Type Approval of ISO18813:2022

2.4 Product Mark

2.4.1 The product mark of LNK-WET-02 Morse Signal Torch is shown in [Figure 3](#) below.



[Figure 3](#) Product Mark

2.4.1.1 The product mark will be displayed on the surface of the storage box.

2.4.1.2 The product mark contains:

- ① Basic information: Product name, Manufacturer's company website and logo, Product code, Fulfilled ISO and SOLAS standards, Product structure, Safety caution
- ② MFG which represents the manufacturing batch number, where "MM" represents the month of manufacturing, "YYYY" represents the year of manufacturing.
- ③ Maintenance Record to facilitate traceability of maintenance activities

Section III Installation & Reassembly Instructions

3.1 Installation Instructions

LNK-WET-02 Morse Signal Torch is an independent handheld device. No installation is required.

3.2 Reassembly Instructions after Replacing Battery or LED

LNK-WET-02 Morse Signal Torch comes in a waterproof storage box with a spare LED and an AA alkaline battery as required by the ISO18813:2022 standard. The torch and its storage box are shown in [Figure 4](#) and [Figure 5](#).

When replacing the battery or LED of LNK-WET-02 Morse Signal Torch, users should follow the instructions below carefully, and ensure that the light is reassembled to its original configuration as [Figure 1](#) shows.

3.2.1 Unscrew the lampshade from the main body in the "OPEN" direction as indicated on the torch. Take out the PCB pack and battery in [Figure 1](#).

3.2.2 To replace the LED, unscrew the used LED from the PCB pack and replace it with the spare LED.

3.2.3 To replace the battery, insert the new battery in the direction indicated in [Figure 1](#), with the negative and positive poles correctly positioned. It is important to ensure correct alignment

and avoid reversing the polarity of the battery.

3.2.4 After the replacement is complete, ensure that the switch button on the PCB pack is aligned with the switch button on the main body when inserting it back into the torch. To verify, gently press the button and confirm its response.

3.2.5 Before reassembly, ensure that the rubber ring is placed correctly. Tighten the lampshade by screwing it in the "CLOSE" direction. Ensure that the lampshade is tightened sufficiently to maintain the torch's waterproof properties.



Figure 4



Figure 5

Section IV Storage Requirements

4.1 Environment Requirements

LNK-WET-02 Morse Signal Torch should be stored in its waterproof storage box and packed with a spare LED & battery. The storage box should be stored in a clean, non-polluted and liquid-free environment.

4.2 Temperature and Humidity Requirements

Storage temperature should be within $-30^{\circ}\text{C} \sim +65^{\circ}\text{C}$ ($-22^{\circ}\text{F} \sim +149^{\circ}\text{F}$) and the environment humidity should be less than 80%.

Section V Service Life & Safety

5.1 The service life of LNK-WET-02 Morse Signal Torch is five years from the date of manufacture. During the service time of the torch, storage and application conditions should meet the requirements listed in Section 4.

5.2 With the original LONAKO supplied battery, the torch can operate continuously for over 12 hours at 200cd luminous intensity.

5.3 The original LONAKO supplied battery has a storage life of five years. If users need to replace the battery with a non-LONAKO supplied option, it is important to use an AA alkaline battery. It is strongly recommended to replace the battery annually for optimal performance and reliability.

5.4 LNK-WET-02 Morse Signal Torch contains batteries. These processes must be handled correctly:

5.4.1 Do not dismantle the batteries.

5.4.2 Do not make any external electrical connection.

5.4.3 Do not recharge the batteries.

5.4.4 Do not incinerate.

5.4.5 Store between $-30^{\circ}\text{C}\sim+65^{\circ}\text{C}$.

Section VI Inspection

6.1 Routine Inspection

LNK-WET-02 Morse Signal Torch should be inspected annually. Replace the battery if required.

6.2 Inspection Methods

6.2.1 Visually inspect the torch, storage box, spare battery & LED for any sign of damage or corrosion.

6.2.2 Ensure that there is a spare LED and battery in the storage box.

6.2.3 Test the torch by pressing the switch gently, the torch should be able to output flashing signal; By pressing the switch deeply, the torch should be locked and output steady light.

6.2.4 If any defective appearance is found or not functioning well the torch should be regarded as defected. The defective torch should be replaced by a new one.

Section VII Maintenance

LNK-WET-02 Morse Signal Torch should undergo annual maintenance if it has been stored in stock. During usage, maintenance should be carried out whenever the battery is depleted or the LED is broken.

7.1 If the waterproof box is deformed, or if the torch, spare LED, or spare battery exhibit signs of damage or corrosion, replace the defective parts with new ones.

7.2 If the spare LED or battery is missing, users should replace with a new one.

7.3 When replacing the battery and LED, carefully follow the instructions in Section III, Part 3.2.

7.4 When the battery has been replaced, record the date of battery replacement and the service station on the label as depicted in [Figure 3](#).

Section VIII Repair & Disposal Instructions

8.1 Repair Instructions

LNK-WET-02 Morse Signal Torch cannot be repaired. Dispose and replace used, expired or defective torches with a new unit.

8.2 Disposal Instructions

Disposal of used, expired or defective lights should be in accordance with local regulations. This process should be done through an approved environment disposal agent.

Section IX Packaging Information

- 9.1 The torches are packed individually in a storage box which are packed into cartons.
- 9.2 Detailed information for each individual torch pack is provided in [Figure 4](#) and [Figure 5](#).
- 9.3 Each carton contains 100 units of LNK-WET-02 Morse Signal Torch. The dimensions of carton are 515*260*275mm and the gross weight of each carton package is about 12.2 KG.

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