ECHNICAL INFORMATION

Model No.)▶ ML102

Description > Rechargeable LED Lantern

CONCEPT AND MAIN APPLICATIONS

Model ML102 is a rechargeable LED lantern powered by either Makita 7.2V-1.0Ah Li-ion battery BL7010 or 10.8V-1.3Ah Li-ion battery BL1013 (12Vmax.-1.3Ah Li-ion battery BL1014*1).

By turning the knob to change the internal LED direction, this light can be used 2 way as Lantern and Flashlight.

Its other features are as follows:

- equipped with warm color 1.25W single LED for long continuous illumination.
- IP54 rated waterproof design for use in outdoor applications or harsh environments
- Hooks on the top and the bottom enable to hang the light from either end
- Strap hole for using a commercial strap to protect the Lantern from accidental drop

Specification Model No.			ML102	
Battery	Voltage: V		7.2	10.8 (12Vmax.*1)
	Capacity: Ah		1.0	1.3
	Energy capacity: Wh		7.2	14
	Cell type		Li-ion	Li-ion
	Charging time (approx.): min.		30 with DC07SA	50 with DC10WA (DC10WB*1)
Continuous rating input: W			1.5	1.6
Light source	Туре		Single LED (1.25W)	
	Illuminance: lx	Lantern*2	80	
		Flashlight*3	120	
	Luminous flux: lm		100	
Continuous illumination (approx.): hour			4.5	8.0
Dustproof and dripproof			IP54	
Overdischarge protective circuit				Yes
Weight according to EPTA-Procedure 01/2003: kg (lbs)			0.2	32 (0.7)*4

*1 For North, Central and South American countries except Argentina

*2 Illuminance: measured at 0.4m in front of the radial lightsource

*3 Illuminance: measured at 0.5m in front of the radial lightsource

*4 With battery BL7010

Standard equipment

No

► Optional accessories

Battery BL7010 Battery BL1013 (BL1014 for North, Central and South American countries except Argentina) Charger DC07SA (for BL7010) Charger DC10WA (DC10WB for North, Central and South American countries except Argentina)



Dimensions : mm (")			
Diameter (D)	ø65 (ø2-9/16)		
Height (H)	180 (7-1/8)		



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CAUTION: Repair the machine in accordance with "Instruction manual" or "Safety instructions".

[1] NECESSARY REPAIRING TOOLS

Code No.	Description	Use for
1R291	Retaining ring S & R pliers	removing Knob
	Hex socket bit 5.5	removing Nut (M3)

[2] LUBRICATION

It is not required to lubricate the machine because of no section to be lubricated.

[3] DISASSEMBLY/ASSEMBLY

Remove Lower cover from Main body by turning the cover counterclockwise and pull off the battery. (See Fig. A)

[3] -1. Handle

DISASSEMBLING

Fig. 1



ASSEMBLING



[3] DISASSEMBLY/ASSEMBLY[3] -2. LED component

DISASSEMBLING

(1) Remove Hook as drawn in Fig. 1.

(2) Remove Upper cover and Knob. Then, remove LED component as drawn in Fig. 3.



[3] DISASSEMBLY/ASSEMBLY[3] -2. LED component (cont.)

ASSEMBLING

Assemble LED component to Upper cover as drawn in Fig. 4.



[3] DISASSEMBLY/ASSEMBLY[3] -3. Switch circuit board assembly

DISASSEMBLING

- (1) Disassemble Hook as drawn in **Fig. 1**.
- (2) Disassemble LED component as drawn in Fig. 2.
- (3) Disassemble Switch circuit board assembly as drawn in Fig. 5.



[3] DISASSEMBLY/ASSEMBLY[3] -3. Switch circuit board assembly (cont.)

ASSEMBLING

(1) Assemble the components parts by reversing the disassembly procedure. (Refer to Fig. 5)

(2) Assemble Upper/ Lower of main internals into Main body. (See Fig. 6)

Fig. 6



(3) Assemble Mid ring to Main body as drawn in Fig. 7.



