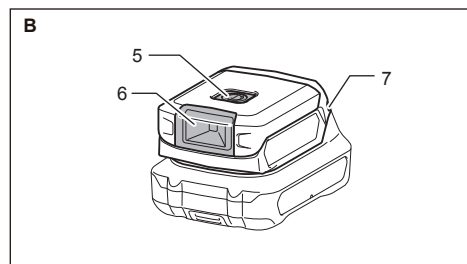
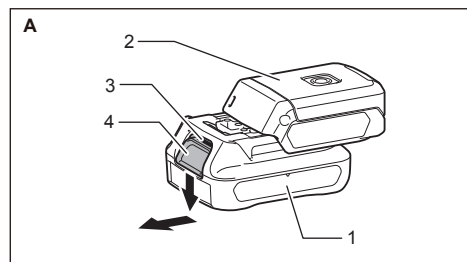




**Cordless LED
Flashlight**

Instruction manual

ML103



ENGLISH

SPECIFICATIONS

Model	ML103	
Voltage	D.C. 10.8 V - 12 V max	
LED	1.5 W	
Operating time	with BL1016	Approx. 11 hours
	with BL1021B	Approx. 14 hours
	with BL1041B	Approx. 28 hours
Dimensions	without battery	77 mm x 54 mm x 28 mm (3" x 2-1/8" x 1-1/8")
	with BL1016/BL1021B	87 mm x 64 mm x 54 mm (3-7/16" x 2-1/2" x 2-1/8")
	with BL1041B	87 mm x 64 mm x 73 mm (3-7/16" x 2-1/2" x 2-7/8")
Net weight	without battery	0.06 kg (0.1 lbs)
	with BL1016/BL1021B	0.27 kg (0.6 lbs)
	with BL1041B	0.43 kg (1.0 lbs)

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.



- Read instruction manual.



- Indoor use only



- Only for EU countries
Do not dispose of electric equipment or battery pack together with household waste material!
In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.



- Optical Radiation (UV and IR).
Minimize exposure to eyes or skin.



- Do not stare at operating lamp.



- Use appropriate shielding or eyes protection.



- Take particular care and attention!

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING: When using electric luminaires, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:

READ ALL INSTRUCTIONS.

⚠ CAUTION:

1. When the luminaire is not in use, always switch off and remove the battery cartridge from the luminaire.
2. Do not cover or clog the lit luminaire with cloth or carton, etc. Covering or clogging it may cause a flame.
3. This battery holder part is not waterproof. Do not use it in damp or wet locations. Do not expose it to rain or snow. Do not wash it in water.
4. Do not use the luminaire in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
5. Do not look in the LED light or see the source of light directly.
 - a) Proper assembly, installation, maintenance and safe use, including clear warnings concerning precautions to avoid possible exposure to hazardous optical radiation.
 - b) Advice on safe operation procedures and warnings concerning reasonably foreseeable malpractices, malfunctions and hazardous failure modes.
 - c) NOTICE: UV and IR emitted from this product.
 - d) WARNING: IR emitted from this product.
 - e) CAUTION: Possibly hazardous optical radiation emitted from this product.
 - f) Minimise exposure to eyes or skin. Use appropriate shielding.
 - g) Use appropriate shielding or eye protection.
 - h) Do not stare at operating lamp. May be harmful to the eyes.
 - i) Eye or skin irritation may result from exposure. Avoid eye exposure.

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CARTRIDGE

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
 - (1) Do not touch the terminals with any conductive material.
 - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
 - (3) Do not expose battery cartridge to water or rain.
 A battery short can cause a large current flow, overheating, possible burns and even a breakdown.

6. Do not store the luminaire and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Be careful not to drop or strike battery.
9. Do not use a damaged battery.
10. The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.
For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required. Please also observe possibly more detailed national regulations.
Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.
11. Follow your local regulations relating to disposal of battery.

SAVE THESE INSTRUCTIONS.

⚠ CAUTION: Only use genuine Makita batteries. Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita luminaire and charger.

Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop luminaire operation and charge the battery cartridge when you notice less luminaire power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 10°C – 40°C (50°F – 104°F). Let a hot battery cartridge cool down before charging it.

FCC Cautions to the user

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ICES-003 STANDARD : CAN ICES-3(B)/NMB-3(B)

INSTALLING OR REMOVING BATTERY CARTRIDGE (Fig. A)

To install the battery cartridge (1), align the tongue on the battery cartridge with the groove in the luminaire (2) and slip it into place. Always insert it all the way until it locks in place with a little click. If you can see the red indicator (3) on the upper side of the button (4), it is not locked completely. Install it fully until the red indicator cannot be seen. If not, it may accidentally fall out of the luminaire, causing injury to you or someone around you. To remove the battery cartridge, slide it from the luminaire while sliding the button on the front of the cartridge.

BATTERY PROTECTION SYSTEM

The light goes off during operation when the remaining battery capacity gets low.

This is caused by the activation of protection system and does not show the light problem. Remove the battery cartridge from the light and charge it.

LIGHTING UP THE LED LIGHT (Fig. B)

Press the switch (5) once, the light (6) shines. To turn off the light, press the switch once again.

HANGING LUMINAIRE (Fig. B)

The luminaire equips a strap hole (7). Make use of the hole in accordance with the situation.

MAINTENANCE

⚠ CAUTION: Always be sure that the luminaire is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

CLEANING

From time to time wipe off the outside (luminaire body) of the luminaire using a cloth dampened in soapy water.

⚠ CAUTION: Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

OPTIONAL ACCESSORIES

⚠ CAUTION: These accessories or attachments are recommended for use with your Makita luminaire specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Makita genuine battery and charger

NOTE: Some items in the list may be included in the luminaire package as standard accessories. They may differ from country to country.