

SOLAR PIR SENSOR LIGHT

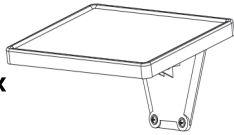
Installation and User Instructions

Typ No.: RB079B(98013)

■ PARTS SUPPLIED

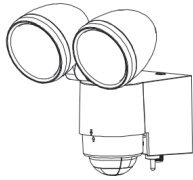
■

1 x



■

1 x



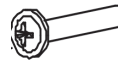
■

2 x Φ 4L 30mm
for mounting
of sensor light



■

4 x Φ 4L 35mm
for mounting
of solar panel



■ 6 x

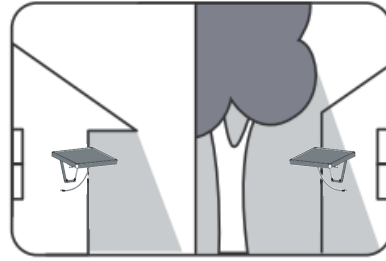
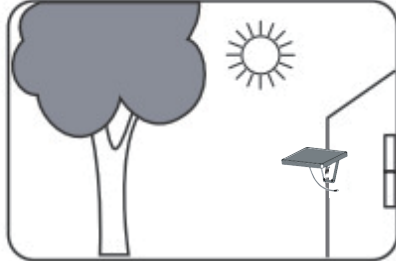


■ TOOLS REQUIRED (NOT SUPPLIED)

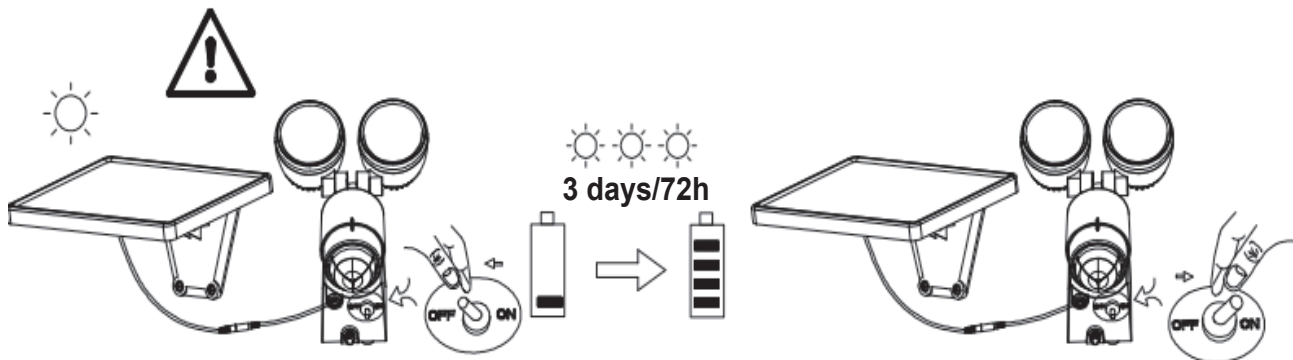
6mm Cross Headed Screwdriver
Pencil
Power Drill

■ HOW TO DETERMINE WHERE TO MOUNT YOUR SOLAR LIGHT

Make sure that the Solar Panel is mounted under direct sunlight.



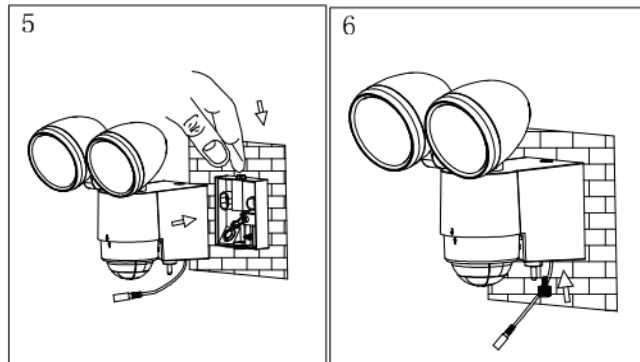
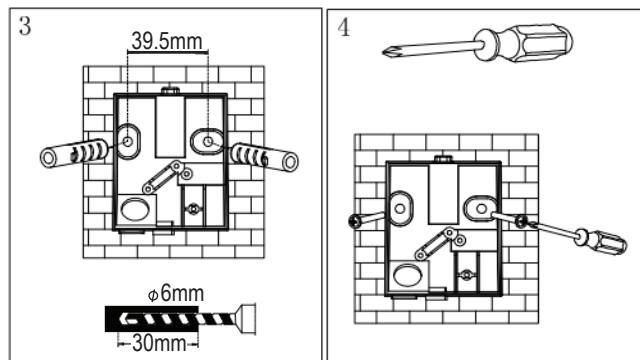
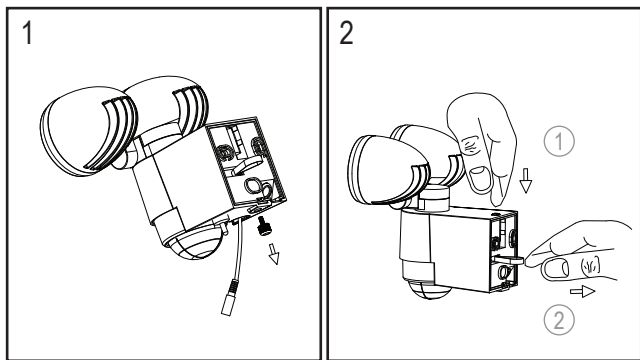
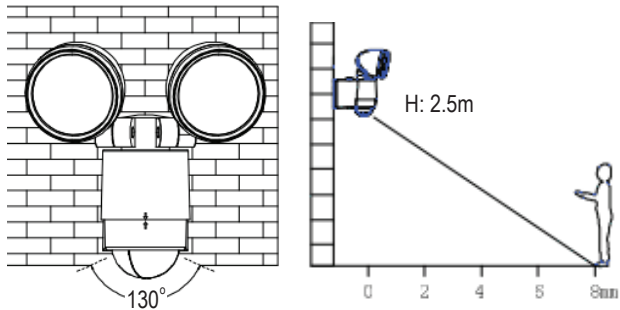
Important: Please ensure you pre-charge the solar light in maximum sunlight for a period up to 3 days (for 2200mAh Ni-MH) before switching on the light.



■ Main Unit:

The main unit contains the 2*6*0.5W LED, motion sensor and battery (1 x Ni-MH Rechargeable battery, 3.6V 2200mAh).

After mounted at 2.5 metres' height, The PIR detects in a fan-shaped arc of **approximately 130°(horizontal)** for a distance up to 8 metres (depending on weather conditions and the mounting height).

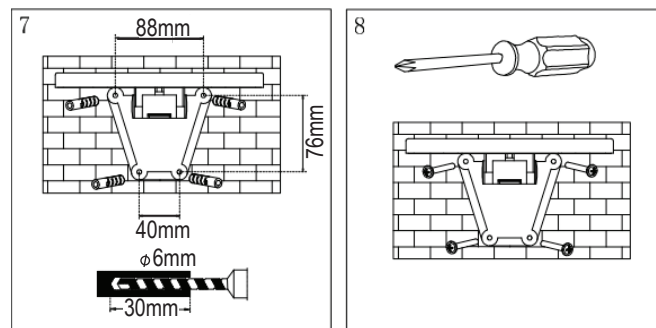


The PIR sensor works more effectively when approached by walking across its detection range, rather than being approached head on.

■ Solar Panel:

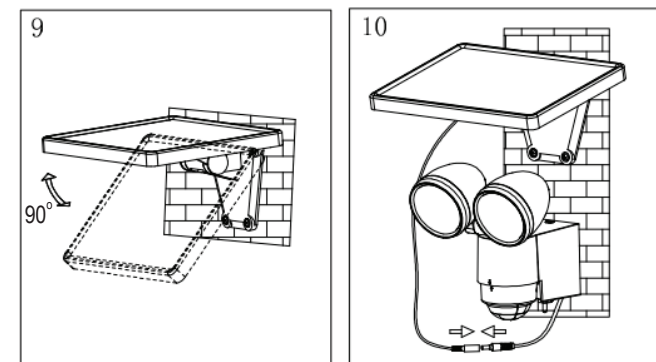
The solar panel is the power source for the SOLAR PIR SENSOR LIGHT. It converts the sun's energy into electricity that charges the battery stored in main unit. This requires DIRECT SUNLIGHT falling onto the face of solar cell for as long as possible over the course of day.

Use the three screws supplied (③ on parts list) to mount the solar panel unit onto a solid surface. Make sure it is anchored into the solid surface.



You can adjust the angle of the solar panel by moving the adjustment support to the appropriate hook on the mounting bracket. Remember, it must face as much DIRECT SUNLIGHT over the course of the day as possible. Keep in mind shadows that may block sunlight at some point during the day.

Now carefully route the solar panel power cord to the main unit and plug it into the connector on the side of the unit.



■ FINAL ADJUSTMENT AND START-UP

After you successfully installed your SOLAR PIR SENSOR LIGHT, you are almost ready for carefree

operation with a few final steps:



Initial 3-days Charge:

On the main unit there is a dial switch with 2 positions:

■ OFF ■ ON

ON —

Position for normal operation of the unit.

OFF —

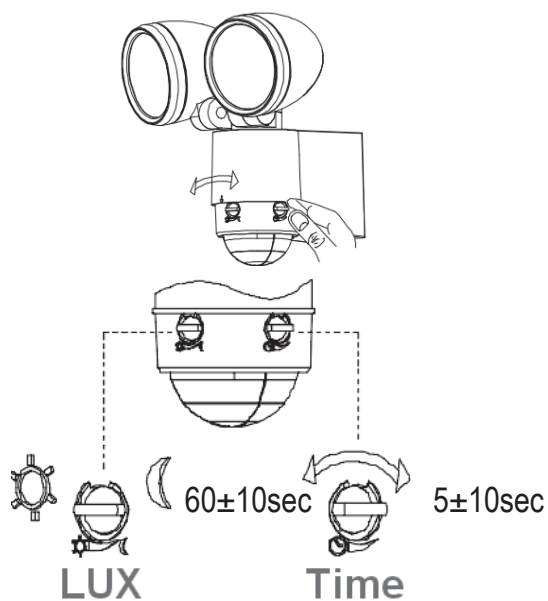
- 1) Position for shipping or extended periods of non-use
- 2) Position for initial 3-day-pre-charge before final adjustment and first use. (Although the unit can be charged, it is not operate in this mode)

Turn the dial switch to OFF position. In this position the solar panel will charge the battery without activating the unit. Leave the switch in this position for 3 sunny days to ensure that the battery has a full charge prior to motion sensor adjustment and normal operation. (Refer to drawings on page 1)

HOW TO ADJUST THE MOTION SENSOR

After the initial 3-day-pre-charge, slide the switch on the main unit to ON position.

On the motion sensor there are two adjusting knobs:



TIME / LUX

1) **TIME ---** Duration time: Depending on how long you wish the unit to stay lit after motion stops in the field of vision, the duration time will be adjusted from 5 seconds to 1 minute. **Note:** Once the light has been triggered by the PIR sensor any subsequent detection will start the time period again from the beginning.

2) **LUX –** Lux control level: The Lux control module has a built-in sensing device (photocell) that detects daylight and darkness. (☀) position denotes that the loading will be turned on by PIR during day and night, (☾) position denotes that the loading will be turned on by PIR only at night. You can set to operate the unit at the desired level by adjusting the LUX knob.

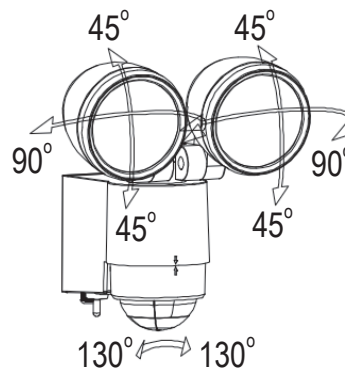
Note: If, in daily position, the unit turns on when it is too light outside, turn the control towards (☾). However, if the light is not activating during nighttime because of a street light or bright house light, turn this control towards (☀).

Walking-test:

Point the motion sensor to face the area you want to detect motion in and set the TIME knob to minimum (-) position and LUX knob to "light" (☀) position. Walking slowly within its detection area, the sensor can detects moving invisible infra-red radiation given off by a human body and then turn on the light. Test the coverage of the area by walking slowly around until not to switch on the light.

ADJUSTMENT OF THE LAMP HOUSING:

Point the lamp housing to face the area you wish to illuminate.



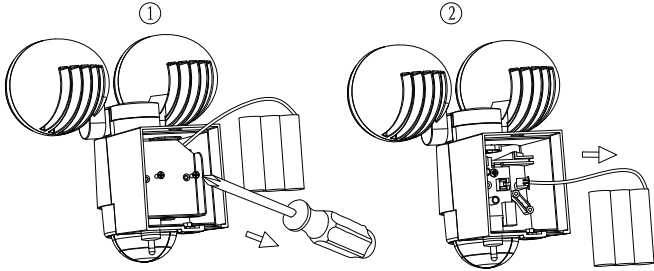
BATTERY REPLACEMENT

Caution: When replacing the battery, the dial switch on the main unit must be in the **OFF** position.

The battery in your SOLAR PIR SENSOR LIGHT is

designed to last for about 2 years.

The old battery can be replaced by first removing the unit from its mounting surface. Then remove the battery by hand on the back of the main unit. See the following figure:



Caution: Make sure the (+) and (-) leads are attached correctly to the appropriate (+) and (-) battery terminals. Serious damage to the unit may result if they are connected backwards.

It is important to dispose of the battery in an environmentally conscious manner. Dispose of according to applicable governmental regulations of the recyclables.

GENERAL ELECTRICAL AND SAFETY WARNINGS

- 1) The ON/OFF switch on the main unit must be in the OFF position when disposing battery.
- 2) Do not cut the solar panel wire. Do not use the unit if the wire becomes frayed or broken.
- 3) Do not immerse components in liquid or water.
- 4) The unit must be charged by the solar panel supplied. Do not charge it by another charger. This may result in injury or damage to the light and voids any warranty.
- 5) Position the unit so that the cord is securely fastened and will not result in a hazard (such as tripping).
- 6) Battery disposal must always be carried out or supervised by an adult.

CLEANING

Regularly clean the solar panel. This will ensure that the batteries recharge efficiently and light up and switch off functions work correctly

STORAGE

If you wish to store your light indoors for more than two or three days, follow these steps to prevent damage to

battery:

1. Turn the switch to OFF position
2. Store the light and solar panel where it can receive some sunlight or room light each day. The battery needs light to maintain a charge during storage

TROUBLE SHOOTING:

1. Light doesn't activate in normal operation.

Correction: make sure that:

- 1) The main unit switch is at the ON position.
- 2) The Lux control is not set too far toward (☾)
- 3) The motion sensor is positioned to face oncoming movement.
- 4) The solar panel is position directly under sunlight.
- 5) Battery is not fully charged, charge for 3 sunny days—switch turned to OFF.

2. Light turns on during the day.

Correction: Make sure that

- 1) The Lux control is not set too far toward (☀)

3. Light quickly flashes on and off

Correction:

- 1) Move the Lux control toward (☀)
- 2) Lower battery capacity, charge for 3 sunny days—switch turned to OFF.

4. Light is not as bright as normal.

Correction:

- 1) Lower battery capacity, charge for 3 sunny days—switch turned to OFF.

SPECIFICATION

LED	2x6x0.5W LED
Battery	1xNi-MH, 3.6V 2200Ah
Mounting Height	2.5 metres
Warm-up Time	1 minute
Detection Range	Approx. 130 ⁰ (horizontal)for a distance up to 8 metres
Time Adjustment	10±5sec to 60±10sec
Lux Adjustment	10±10LUX-200LUX
Protection Degree	IP44: Splash-proof
	Conformity with all relevant EC Directive requirements.
	Environmental Protection. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

SFD Ltd. BA228RT