

FM/AM Dynamo Radio

SB-1083/Dynamo Radio 3 LED Flashlight Torch

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WORKING PRINCIPLE:

This product adopts the principle of cranking for power by 3 brushless generator which after commutating and filtering to charge its built-in 80 mAh/3.6V Ni-MH rechargeable battery, the energy stored is used as the power source of LED and FM/AM radio. The radio circuit adopts the specified radio CMOS chip CD2003 to realize FM/AM radio function, the wave band can be changed by the "AM/FM switch", mechanical tuning and speaker output.

FUNCTIONS:

- 1.Cranking to charge the built-in 80mAh/3.6V Ni-MH rechargeable battery.
- 2.Three lighting model: 1 LED lighting, 3 LEDs lighting, 3 LEDs flashing.
- 3.FM/AM radio function.

FEATURES:

- 1.Cranking for power, no external batteries needed, store energy by built-in rechargeable battery; green, environmental friendly, economy, safety, (the common battery will leak easily), reuse limitlessly.
- 2.3 brushless generator to crank for power, long handle, low noise and high efficiency.
- 3.High sensitive FM and AM radio and lighting at night.
- 4.Speaker and earphone output, the volume is adjustable.
- 5.Brightness is adjustable and flashing for warning.
- 6.Controlled by electronic switch, long life-span.
- 7.Delicated appearance, novelty and fashion.

MAIN TECHNICAL PARAMETERS:

FM Sensitivity	> 15uV
AM Sensitivity	> 3mV/m
FM Frequency Coverage	87~108MHz In Japan: 76~91 MHz
AM Frequency Coverage	530~1600 kHz
Audio Output Power	> 100mW
Radio playing time after being fully charged	About 55 min
Radio playing time after 1 minute cranking	About 8 min

MAIN LIGHTING PARAMETERS:

Max. Luminous flux	2.7 Lm
Max. brightness	30 000 Mcd
3 LEDs lighting time after 1 minute cranking	About 40 min
1 LED lighting time after 1 minute cranking	About 60 min
1 LED flashing time after 1 minute cranking	About 60 min
3 LEDs lighting time after being charged fully	About 3.5 hrs.
Flash frequency	2Hz

MAIN PARTS LIFE-SPAN

Switch lifetime	100 000 times
The whole unit	5 years
Plastic part lifetime	5 years
LED lifetime	50 000 hrs.

SPECIFICATION

Length of the telescoping antenna	About 255mm
Size of the whole unit (Handle is locked)	About 146*57*55 mm
Weight of the whole unit	About 214 g
Built-in battery specification	80 mAh, 3.6 V Ni-MH rechargeable battery

OPERATION METHOD:

- 1.Cranking for power:
Unlock the handle, crank it at the speed of 2.5 to 3 circles per second. The faster you crank, the higher efficiency to charge. (It's better to crank it for no more than 4 circles per second.)
- 2.Lighting:
press for the first time, 1 LED is on; press for the second time, 3 LEDs are on; press for the third time, 3 LEDs flash; press once more, 3 LEDs are off.
- 3.Radio playing:

A.Operation of the radio switch and volume adjusting: Turn the volume knob anticlockwise to increase the volume. Contrariwise, turn the volume switch clockwise can decrease the volume gradually, a "crack" sound will be heard to show power off.

B.FM/AM wave band shifting: push the switch down is FM, push it up is AM.

C.Searching ways: Turn the "tuning knob", contrapose the "tuning display" to find the station you want to listen. When the signal is strong enough, the tuning indicator will light, then you can modulate the "tuning knob" slightly till the indicator brighter and make the volume more clear.

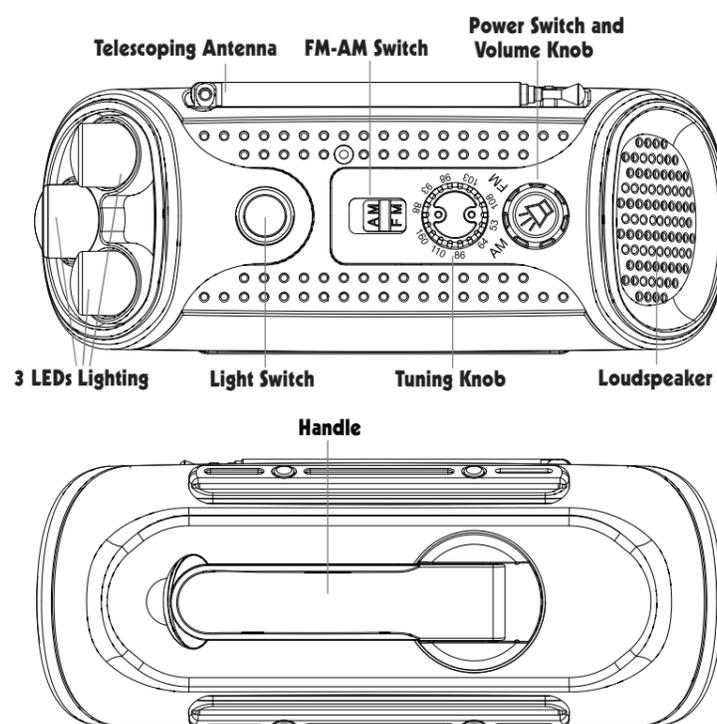
D.Use of antenna:

a). This product adopts telescoping antenna to receive signal for FM. When the signal is weak, you can pull out the antenna or change the direction of the antenna to find the optimal position, thus can improve the effect of radio. Whereas, shrink the antenna when the signal is strong.

b). It adopts built-in magnetic antenna to receive signal for AM. You can change the position of the product properly when the signal is weak.

Note: a. It is advised to turn the volume to the optimal position (be comfortable) when you listen to the radio. It will be anamorphic if the sound is too loud.

b. Avoid places like high building, basement, etc as possible as you can, such places will badly affect the effect of the reception. Leave far away from the induction cooker, fluorescent lamp, car generator, motor, computer or such electrical equipment that may disturb the signal easily.



CAUTIONS:

- 1.Pay attention to the holding gesture when cranking which can protect your finger and nail from hurting. Keep rotating steadily.
- 2.Don't point the light to anyone's eyes in case of hurting the eyes.
- 3.In order to assure the using life of the battery and mechanical parts, pls pay attention to the things below:
 - a) Do not crank it for more than 5 minutes when the power of the battery is enough (lighting and radio normally) and less than 20 minutes when it runs out of power.
 - b) When the light is dim or the radio is soundless, it means the battery is lack of power badly, pls turn off the light and radio and crank it for a while.
 - c) Crank it as even as possible (keep rotating steadily, 2.5 or 3 circles per second is best). Avoid cranking too violent and quick or changing the cranking direction abruptly. Too slowly cranking would make current weak and influence the charging efficiency, and too violent cranking will possibly damage the driving system.
 - d) Do not crank it for a long time or too violent.
 - e) In order to prolong the lifespan of the battery, you should crank it for at least one minute once a month.
4. Do not place this product in a place where temperature or humidity is high. Do not drop or hit this product.
5. Turn off the light when charging to enhance the efficiency of charging.
6. The product will be a little hot if cranking for a long time.
7. We do not give notice again if the parameter of this product changed.
8. We reserve the final right to interpret this product.