



ICF-B88

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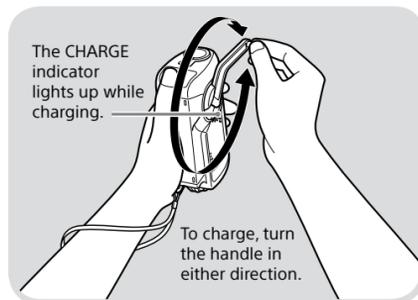
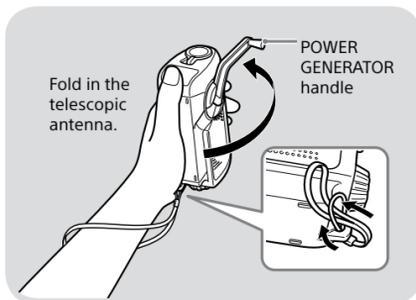
## Charging the Built-in Rechargeable Battery

You can charge the battery while listening to the radio.

### Charging by Hand Cranking Method

**1** Hold the unit firmly and pull out the **POWER GENERATOR** handle.

**2** Turn the handle to charge.



Put your hand through the hand strap to prevent accidents and injuries from dropping the unit.

As a guideline, turn the handle at a speed of approx. two turns or more per second.

#### Rechargeable battery operating time (Approx. minutes)

	FM	AM	Light
1 minute of charging by turning the handle*1	50*2	75*2	15

\*1 When the handle is turned at a speed of approx. two turns per second

\*2 At power output of approx. 1 mW

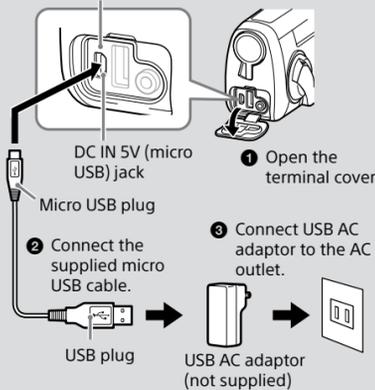
#### Notes

- Each time you turn the handle for two or three minutes, pause approx. one minute and then start turning the handle again.
- If the CHARGE indicator does not light up even when you turn the handle at a speed of two turns or more per second, stop turning the handle to charge the battery so that overcharging does not occur.
- If you charge the battery while listening to the radio, there may be noise interference in the radio.

### Charging by USB AC adaptor

You can charge the built-in rechargeable battery using the USB AC adaptor (not supplied).

The DC IN 5V indicator will light up while the battery is being charged and the indicator will turn off when charging is completed.



After the battery is charged, disconnect the micro USB cable.

#### Rechargeable battery operating time (Approx. hours)

	FM	AM	Light
When the rechargeable battery is fully charged	32 (JEITA*)	40 (JEITA*)	20

\* JEITA (Japan Electronics and Information Technology Industries Association) standards. The actual battery life may vary depending on the circumstances.

#### Notes

- There may be noise interference in the radio while the rechargeable battery is being charged using the USB AC adaptor.
- Do not turn the handle to charge the rechargeable battery while the USB AC adaptor is being used to charge the battery.
- After the rechargeable battery is fully charged by the USB AC adaptor, do not charge it again by turning the handle to prevent overcharging.
- It is recommended to charge the rechargeable battery in a place with a temperature between 10°C and 30°C to maximize the battery performance.
- It takes approx. 3 hours to charge the rechargeable battery from the fully discharged state to fully charged.

### Charging by Solar Panel

Place this unit so that the entire solar panel is exposed to sunlight.



#### Rechargeable battery operating time (Approx. minutes)

	FM	AM	Light
60 minutes of solar-powered charging*1	40*2	60*2	10

\*1 When the unit is charged outdoors in sunny weather

\*2 At power output of approx. 1 mW

#### Notes

- To efficiently charge the rechargeable battery, place the unit with the solar panel facing the sunlight.
- The rechargeable battery will not charge unless all of the solar panel is exposed to sunlight.
- The solar panel of this unit is designed for outdoor use. You cannot charge the rechargeable battery using room lighting.
- The rechargeable battery cannot be charged with sunlight through UV-cut glass or glass laminated with UV-cut film.
- Charge the rechargeable battery in a place with a temperature between 0°C and 40°C and good ventilation that does not trap heat.
- The solar-powered charging function is designed to use for listening to the radio or using the light. You cannot use this function for charging a smartphone.

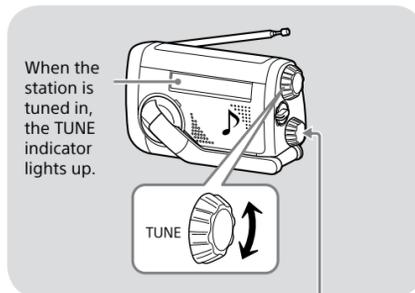
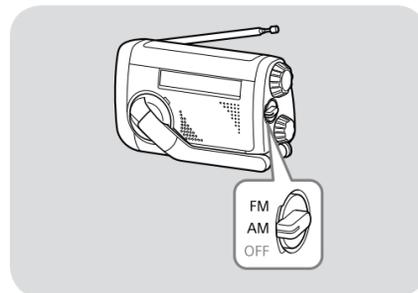
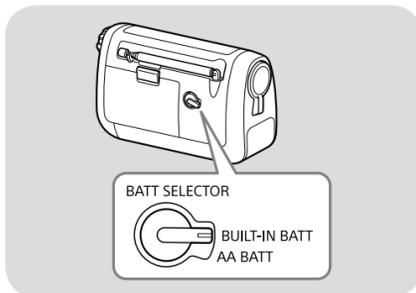
## Listening to the Radio

You can charge the battery while listening to the radio.

**1** Choose the power source.

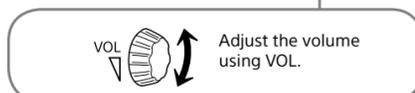
**2** Select "FM" or "AM."

**3** Tune to the desired station.



**BUILT-IN BATT:** When using the built-in rechargeable battery as the power source.

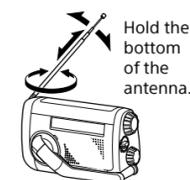
**AA BATT:** When using LR6 (size AA) batteries (not supplied) as the power source.



### To improve radio reception

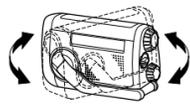
#### FM

Extend the telescopic antenna and/or change the direction of the antenna.

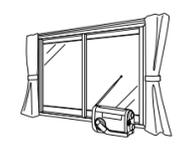


#### AM

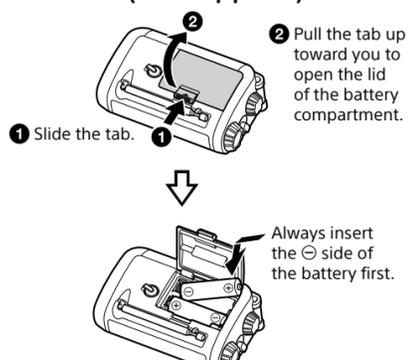
The unit is equipped with a telescopic antenna. Rotate the unit to get the best reception.



If you are unable to get clear reception, change the location of the unit (e.g. move the unit close to a window when it is being used indoors).



### Installing two LR6 (size AA) batteries (not supplied)



The built-in rechargeable battery cannot be charged from LR6 (size AA) batteries.

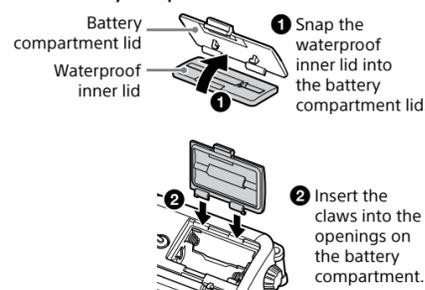
#### Battery operating time (Approx. hours)

	FM	AM	Light
LR6 (size AA) dry batteries*1	80 (JEITA*2)	100 (JEITA*2)	50

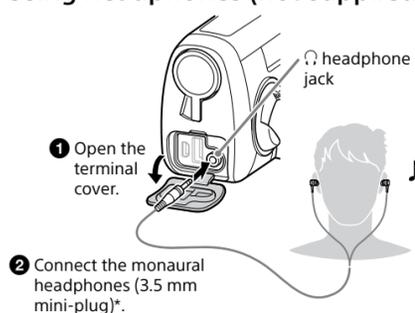
\*1 When two brand-new Sony alkaline LR6 (size AA) dry batteries are used until they are exhausted

\*2 JEITA (Japan Electronics and Information Technology Industries Association) standards. The actual battery life may vary depending on the circumstances.

#### If the battery compartment lid comes off

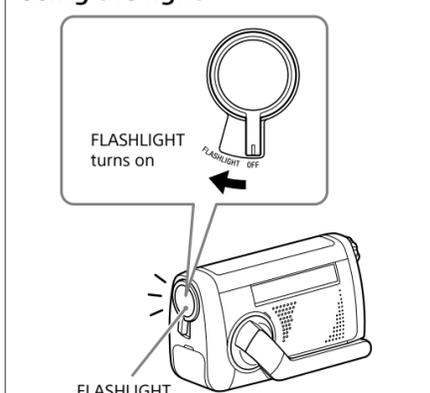


### Using headphones (not supplied)



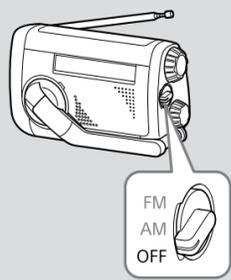
\* You can also use stereo headphones. Note, however, that the unit will produce the exact same sound from the left and right channels.

### Using the light



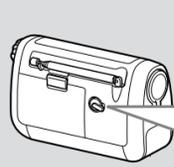
# Charging a Smartphone

## 1 Set power to "OFF."



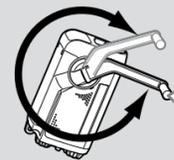
You cannot charge a smartphone while listening to the radio.

## 2 Choose the power source.



**Charging a smartphone from the built-in rechargeable battery:**  
(If you charge the smartphone using a fully charged built-in rechargeable battery, you will be able to continuously talk on the smartphone for approx. 25 minutes.)

**Charging a smartphone from LR6 (size AA) batteries (not supplied):**  
(If you charge the smartphone using two brand-new Sony alkaline LR6 (size AA) dry batteries, you will be able to continuously talk on the smartphone for approx. 25 minutes.)



### Charging a smartphone using the hand cranking method:

When you turn the handle, charging of the smartphone will start. Even while the smartphone is being charged using the built-in rechargeable battery or LR6 (size AA) batteries, if you turn the handle, the charging operation will be switched to the hand cranking method. (The CHARGE indicator will not light up.)

(Turn the handle at a speed of approx. two turns or more per second. If you charge the smartphone for one minute, you will be able to continuously talk on the smartphone for approx. one minute. If you turn the handle at slower than the specified speed, the smartphone may not be charged.)

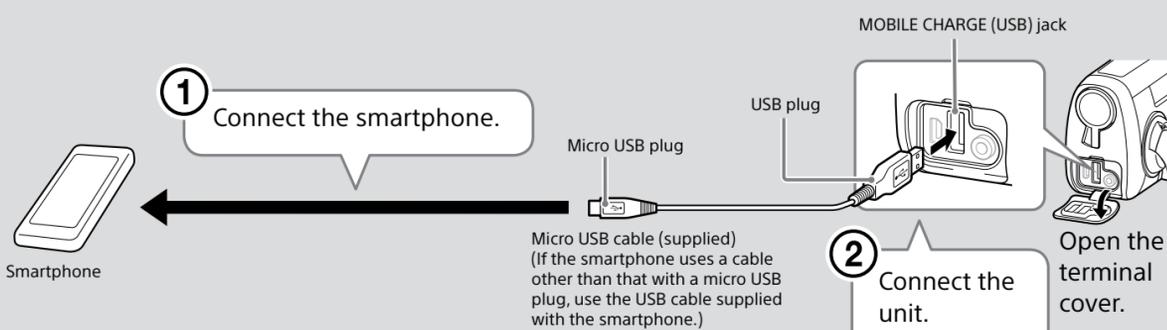
### Notes

- Charge a smartphone before the battery of the smartphone is completely exhausted.
- You cannot charge a smartphone from the size AA manganese dry batteries.
- When you charge a smartphone using alkaline dry batteries, be sure to use brand-new batteries.
- You cannot charge the built-in rechargeable battery using the USB AC adaptor while a smartphone is being charged.
- The battery sometimes becomes very hot after charging, so be careful not to burn yourself when you handle it.
- This unit does not guarantee that it can be used for charging all products that can be charged via USB.

### Tips

- Check the charge status on the smartphone screen.
- If a warning message is displayed on the smartphone while you are turning the handle, pause briefly and then start turning the handle again.
- To charge a smartphone using the built-in rechargeable battery or LR6 (size AA) batteries after charging the smartphone using the hand cranking method, stop turning the handle and then disconnect and reconnect the USB cable.

## 3 Connect the unit to a smartphone to charge the smartphone.



## 4 After charging is finished, disconnect the cable and close the terminal cover.

### 1 Disconnect the USB cable.



### 2 Close the terminal cover.



## Specifications

**Frequency range**  
FM: 87.5 MHz — 108 MHz  
AM: 530 kHz — 1,710 kHz

**Speaker**  
Approx. 3.6 cm dia. round 8 Ω (1)

**Input**  
DC IN 5V (micro USB) jack (1)

**Output**  
◡ headphone jack (ø 3.5 mm mini jack) (1)  
MOBILE CHARGE (USB) jack (1)

**Power output**  
60 mW (Using the built-in rechargeable battery)  
90 mW (Using Sony alkaline LR6 (size AA) batteries, not supplied)

**Power requirements**  
Built-in Nickel Metal Hydride (2.4 V, 900 mAh, Ni-MH or 2.4 V, 700 mAh, Ni-MH) battery or 3 V DC, two LR6 (size AA) dry batteries

**Dimensions**  
Approx. 132 mm × 79 mm × 58 mm (W/H/D)

**Mass**  
Main unit: Approx. 338 g  
When dry batteries are used: Approx. 385 g (incl. LR6 (size AA) batteries)

**Supplied accessories**  
Carrying pouch (1), Micro USB cable (1), Emergency whistle (1), Hand strap (1), Operating instructions (1)

Design and specifications of this unit are subject to change without notice for improvement of performance.

The company names and product names indicated in this instructions document are the trademarks or registered trademarks of those companies.

### Operating time

The actual battery operating time may vary depending on the surrounding environment and operating conditions. The battery operating time for a smartphone is an approximate guide based on measurements of typical models.

### Battery operating time

	FM	AM	Light
1 minute of charging by turning the handle <sup>*1</sup>	Approx. 50 minutes <sup>*2</sup>	Approx. 75 minutes <sup>*2</sup>	Approx. 15 minutes
When the rechargeable battery is fully charged	Approx. 32 hours (JEITA <sup>*3</sup> )	Approx. 40 hours (JEITA <sup>*3</sup> )	Approx. 20 hours
60 minutes of solar-powered charging <sup>*4</sup>	Approx. 40 minutes <sup>*2</sup>	Approx. 60 minutes <sup>*2</sup>	Approx. 10 minutes
LR6 (size AA) dry batteries <sup>*5</sup>	Approx. 80 hours (JEITA <sup>*3</sup> )	Approx. 100 hours (JEITA <sup>*3</sup> )	Approx. 50 hours

### Notes

- If using this unit for the first time, if it had not been used for a long time, or if the power has been left on, the battery operating time may be short even after charging it. In that case, charge (for more than a minute) and discharge the battery (using the radio or light) several times. The battery life will be restored.
- When you do not use this unit for a long time, remove the LR6 (size AA) batteries and set the BATT SELECTOR switch to "AA BATT" to prevent deterioration of the built-in rechargeable battery. It is also recommended to fully charge the rechargeable battery at least once a year using the USB AC adaptor.
- When the battery is exhausted, the sound will become weak or distorted, or the TUNE indicator will grow dark. In that case, charge the built-in rechargeable battery or replace LR6 (size AA) batteries with new ones.
- You cannot replace the built-in rechargeable battery.
- If the operating time of the radio is too short even after charging the unit, please contact your nearest Sony dealer.

### Smartphone operating time<sup>\*6</sup>

	Continuous standby state	Continuous talking
Charged from built-in rechargeable battery <sup>*7</sup>	Approx. 16 hours	Approx. 25 minutes
Charged from LR6 (size AA) dry batteries <sup>*8</sup>	Approx. 16 hours	Approx. 25 minutes
1 minute of charging by turning the handle <sup>*1</sup>	Approx. 40 minutes	Approx. 1 minute

<sup>\*1</sup> When the handle is turned at a speed of approx. two turns per second.

<sup>\*2</sup> At power output of approx. 1 mW

<sup>\*3</sup> JEITA (Japan Electronics and Information Technology Industries Association) standards. The actual battery life may vary depending on the circumstances.

<sup>\*4</sup> When the unit is charged outdoors in sunny weather

<sup>\*5</sup> When two brand-new Sony alkaline LR6 (size AA) dry batteries are used until they are exhausted

<sup>\*6</sup> The operating time varies depending on the smartphone model and operating conditions.

<sup>\*7</sup> When the smartphone is charged from the built-in rechargeable battery under the condition in which the rechargeable battery is fully charged until it is exhausted

<sup>\*8</sup> When two brand-new Sony alkaline LR6 (size AA) dry batteries are used for charging a smartphone until these batteries are exhausted (The time required to finish charging varies depending on the type of batteries and model of smartphone.)

## Precautions

### On handling the unit

- Do not drop the unit or subject it to shock; doing so may cause a malfunction.
- Do not leave the unit in the following locations.
  - In a place exposed to extremely high temperatures (60°C or higher) or low temperatures (0°C or lower)
  - Near heat sources
  - In a place exposed to high humidity
  - In the cabin of a car with closed windows (particularly in summer)
  - In a place exposed to excessive dust
  - In a confined space such as a bookcase or built-in cabinet
- Do not place lighted candles on the apparatus.
- Do not expose the batteries installed to excessive heat such as sunshine, fire or the like for a long time.
- Do not let any solid object or liquid fall into the unit.
- When the cabinet becomes soiled, clean it with a soft dry cloth. Never use chemical solvents such as thinner or benzene, as they may mar the cabinet.
- Do not leave magnetic bank cards, magnetic train passes, or other cards containing magnetic information near the speaker. The information on the card may be erased by the magnet inside the speaker.
- Keep the volume at a moderate level so as not to harm your ears.

### On splash proof performance

Although this unit is splash proof to a degree against exposure to a spray of rain, snow, and water, exercise caution in the following situations.

- Do not splash a large amount of water on the unit.
- Do not immerse the unit in water.
- If water is splashed on the unit or it is dropped into water, immediately remove the unit from the water and wipe moisture from the unit with a soft dry cloth.
- If water gets into the speaker, turn the speaker side of the unit downward and pour the water out from the speaker.
- When the ◡ headphone jack or USB port is not used, be sure to close the terminal cover. If you do not close the terminal cover, the unit's splash proof state will be compromised. When these terminals are being used with the cover open, be careful not to expose them to water.
- After the unit is exposed to water, take caution it does not make nearby objects wet.

On using this unit, Sony shall not be liable for any damage caused by smartphone memory data loss or inability to talk on the smartphone, loss in profit, or any claim from a third party.

If the unit malfunctions, do not open the cabinet. Contact your nearest Sony dealer.

### Disposing of the unit

Remove the built-in rechargeable battery for environmental protection. Before removing the built-in rechargeable battery, set the BATT SELECTOR switch to "AA BATT."

- 1 Detach parts of the main unit in the following order.
  - 1 **Bottom cover:** Remove two screws.
  - 2 **Panel with FLASHLIGHT:** Remove the screw near the ◡ headphone jack under the terminal cover.
  - 3 **Panel with VOL control:** Pull out and remove the three dials, and then remove the screw under the VOL control.
  - 4 **Solar panel cover on top of the unit:** Remove three screws on the antenna rest at the rear of the unit.
  - 5 **Side of unit with battery compartment:** Remove two screws on the right edge, two screws on the lower edge, and the screw at the upper right corner in the battery compartment. Then remove two screws on the lower side of the solar panel.
- 2 Remove the screw on the board to detach it and then remove the built-in rechargeable battery.
- 3 Hold the connector plug of the board and disconnect the built-in rechargeable battery from the board.



**WARNING**

Do not open the cabinet except when disposing of the unit.



**CAUTION**

- Be sure to disconnect the rechargeable battery from the board. Electricity flows when the battery is connected and it can be unsafe. When removing the battery, be careful not to touch the interior of other parts.
- Make sure that the built-in rechargeable battery is completely exhausted and then remove the rechargeable battery.