

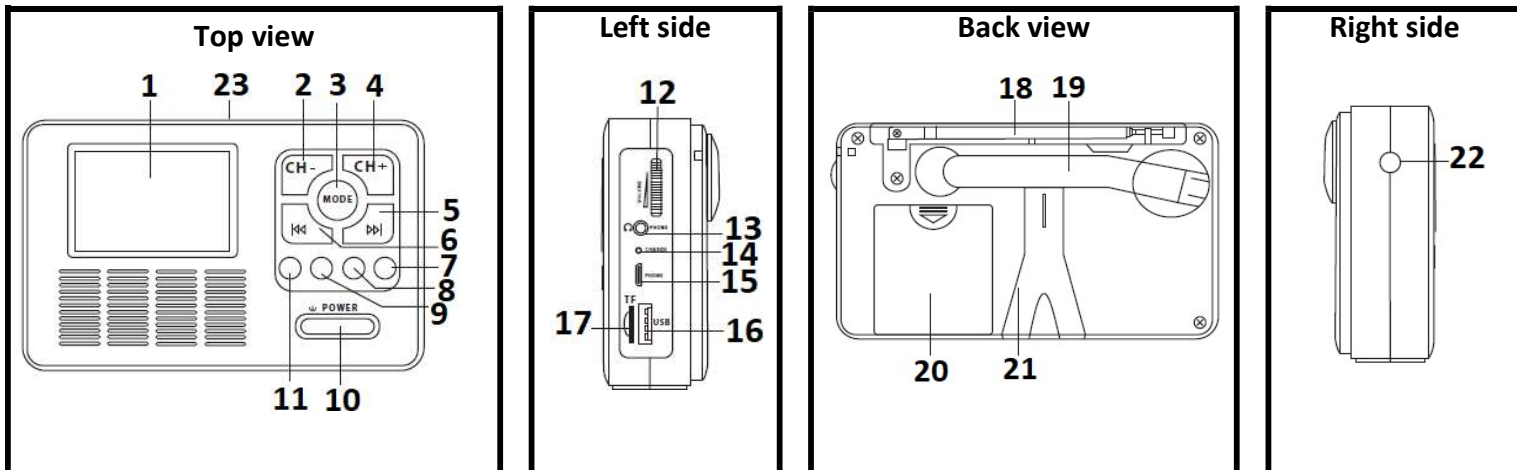
**SOLAR DAB+/FM RADIO/ SOLAR DAB+/FM RADIO/ RADIO
DAB+/FM A ÉNERGIE SOLAIRE/**



INSTRUCTION MANUAL/ BEDIENUNGSANLEITUNG/ MODE D'EMPLOI/ GEBRUIKSAANWIJZING

PLEASE READ THE MANUAL BEFORE YOUR FIRST USE. KEEP THIS MANUAL SAFE FOR FUTURE REFERENCE ! / LESEN SIE DIE GEBRAUCHSANLEITUNG VOR DER NUTZUNG DES PRODUKTS AUFMERKSAM DURCH UND BEWAHREN SIE DIESE FÜR DEN SPÄTEREN GEBRAUCH AUF. / VEUILLEZ LIRE LE MODE D'EMPLOI AVANT D'UTILISER LA LAMPE ET CONSERVEZ-LE POUR RÉFÉRENCE ULTÉRIEURE. / LEES ALSTUBLIEFT DE VOORWAARDEN ALVORENS HET GEBRUIK VAN DEZE DIENST, EN BEWAAR DEZE VOORWAARDEN ZORGVULDIG VOOR LATER GEBRUIK.

1. PRODUCT DESCRIPTION



- | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. TFT LCD Screen 2. Previous FM station 3. Mode 4. Next FM station 5. NEXT 6. PREVIOUS 7. Pause/Play/Auto scan 8. Return to Last Menu | <ol style="list-style-type: none"> 9. Menu/ Info 10. Power ON/ OFF 11. LED torch ON/OFF 12. Volume Control Knob 13. Headset Jack 14. Charging indicator 15. 5V charge input 16. USB slot | <ol style="list-style-type: none"> 17. TF socket 18. Antenna 19. Crank Handle 20. Battery compartment 21. Tilt Bracket 22. LED Torch 23. Solar panel |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Included accessories: USB cable (x1) + Earphones (x1)

2. TECHNICAL SPECIFICATIONS

- Frequency ranges: FM 87.5-108MHz/ DAB 174.928-239.00 MHz
- Rechargeable battery: 1 x Lithium 3.7V 2000mAh (included)/ Dry batteries: 4 x 1.5V AAA (6V -not included)
- Type of solar panel : polysilicon solar cell 5V 80mA
- Handle crank generator output: 150mAh, 5V, 0.75W.
- Micro USB charging cable: 5V/ 1A
- LED : 1 x 0.2W, 9lm

3. BATTERY INSTALLATION/ CHARGING MODES OF RECHARGEABLE BATTERY

The main sources of power for the DAB+/ FM radio are dry batteries (1), built-in battery after being charged (2) and DC input with USB cable.

POWER SOURCES

- 1) **Dry batteries:** If you choose this power source, you should set the radio to the battery operation mode before turning it on. To do so, open the cover of battery compartment (20). Inside, on the bottom right side, set the switch to “BATT” for dry battery-powered. *Note: When installing the battery, make sure to respect the polarity direction indicated inside the battery compartment.*

- 2) **Lithium rechargeable battery:** Set the switch to “LI BATT” for rechargeable battery-powered. *Make sure the radio is charged or charge it beforehand. See procedure for charging below.*

CHARGING MODES

Lithium battery charged via USB cable is the main charging mode. Solar panel and crank handle are auxiliary charging functions.

- 1) **Lithium rechargeable battery:** Connect the radio with the charging device such as a powerbank via the USB charging cable. The red indicator is on during charging. When fully charged, it turns green. Then, remove the cable.

Notes:

- The radio can be used while charging. The charging icon displays when plugged in.
- If you use a micro USB cable charger, make sure not to use one with specifications inferior to 5V 1A!
- Charging the rechargeable battery can be safely done in any charging mode while the dry batteries are inside since they are isolated.

- 2) **Solar panel :** As long as there is sunlight, the solar energy will charge automatically the lithium battery.

- 3) **Dynamo loading: Full charge :** The charging indicator becomes green.

PLEASE DO NOT ROTATE THE HANDLE MORE THAN 120 TIMES PER MINUTE. WHEN ROTATING, THE SPEED SHOULD NOT BE TOO FAST OTHERWISE THE HANDLE WILL BREAK. WHEN YOU USE DYNAMO POWER RECHARGING, KEEP STEADILY SPEED AND CONSISTENT DIRECTION.

4. OPERATION

After selecting the power source, proceed as below:

4.1 BASIC FUNCTIONS

4.1.1 Turn on or off: POWER

1. To turn on, press and hold “ POWER” button till the message « **Welcome to Digital radio DAB+** » displays. The radio is on.
2. To turn off, press and hold “ POWER” button for 2-3 seconds. The radio enters sleeping mode and displays the standby clock interface (see the picture in the opposite). Press and hold again till the message « **GOOD BYE** » displays. The radio turns OFF.
Note : To exit standby mode, press “ POWER” once.



4.1.2 MODE function

1. Press “MODE” button to enter mode function.
2. Press or repeatedly to toggle between the different modes below:



3. When reaching your desired mode, press « SCAN » to enter or wait about 2/3 seconds without pressing any button.



4.2 USING YOUR DAB+/ FM RADIO

IMPORTANT REMARKS ON DAB and FM:

- Pull out the antenna completely before scanning.
- The radio can store up to 40 DAB and 40 FM stations.



- Signal strength can be reduced in very built-up areas, in basements, and inside buildings with walls made of materials such as thick stone or reinforced concrete. **Placing the radio near a window can help, and reception may be better upstairs than downstairs.**
- If you have moved your radio to another location e.g. go on holiday, do a local scan before using it.
- Some areas may not be covered by DAB+ signal. To make sure that DAB+ coverage exists in your area, check on the Internet about information on DAB+ reception in your area.
- As additional DAB+ stations and services regularly become available, carry out a scan every now and then to get an updated station list stored in memory of your radio.
- If an existing DAB station is already stored under the chosen preset number, it will be overwritten when storing the new DAB one. When storing DAB radio station presets, these do not overwrite your FM station presets. Both remarks can be also applied to FM stations.

Earphones (included)

- Insert the earphones (included) into the earphone jack for using.
- Ensure that the volume is not too loud before using your earphones.



	To avoid possible hearing damage, do not listen at high volume levels for long periods.
	Make sure to adjust the volume to a sound level that best fits your hearing sensitivity.




Note: The volume could only be set when the radio, the USB key or TF card are playing.

4.2.1 DAB+ mode


Full scan on first use: The enabled mode by default is DAB mode. So when the radio is first turned on an automatic full scan of the available local DAB+ stations starts. When scanning, the number of saved stations displays. When finished, the radio tunes in the displayed station and plays. Note : If no station is scanned, the screen displays « **DAB NO station** ».

On next uses, proceed as below:

Entering DAB mode:






1. Press **MODE** button.
2. Press  or  to choose DAB icon.
3. Press «  **SCAN** » to enter DAB mode or wait about 2/3 seconds.

Full scan

In DAB mode, press and hold «  **SCAN** » button till the radio starts scanning available DAB+ stations. **DO NOT** press any button when scanning!

Listening to preset DAB+ stations

Once the scanning has successfully completed and saved the stations:

1. In DAB+ mode, press  or  once to get the list of saved DAB+ stations.
2. Repeatedly press  or  to scroll through the different stations and stop pressing when reaching the desired station.
3. Press «  **SCAN** » to listen.
4. Rotate the antenna and/ or alter the position of radio to achieve the best reception.

DAB station display information: Menu info




When listening to a DAB+ station, repeatedly press [**MENU INFO**] to display the different types of information related to this radio, if available, as follows: (1) « **Radio Text** »: Information about description of the radio, program details, etc. If not available, "No radio text" displays. (2) **Program Type**: Type of program

broadcast: rock, jazz, etc. - If not available, "No PTY" displays. **(3) « Group name »:** Collection of national or local radio stations that are bundled and transmitted together in a single frequency/ **Frequency :** for instance : 11B 218.640 MHz. **(4) Signal error :** The range number is between 0 and 99. If the signal error rate is 30 or more, the reception quality will not be satisfactory Try adjusting the antenna or relocating your radio to improve reception/ **Signal strength :** represented by number of coloured bars. **(5) Audio information:** Bit rate, codec, audio type, etc. **(6) Date/ Weekday :** Data saved automatically.


Note: The DAB + radio can automatically synchronize its clock with that of a DAB station that transmits time signals. When a station is found or tuned, the time and date will be automatically adjusted and updated based on the time of the local radio station. The accuracy of time and date depends on the information broadcast by the radio station.

4.2.2 MODE FM



Entering FM mode:

1. Press **MODE** button.
2. Press  or  repeatedly to choose FM mode.
3. Press  to enter FM mode.

Full scan

1. In FM mode, press and hold  to start auto-scan.
2. When scanning, the radio displays the number of saved stations. When finished, the radio tunes in the displayed station and plays.




Listening to preset FM stations

1. In FM mode, press "CH-" or "CH+" to select previous or next saved FM station.
2. If the quality reception is bad, fine tune the frequency by pressing either  or  to advance or decrease by 0.05MHz on each press.

FM station display information

When listening to a FM station, repeatedly press [MENU INFO] to display the following information (if available): Radio text (text broadcast by the station), Programme station name, Programme type (describes type of music that is being broadcast e.g. Rock or Classical), station frequency, date and weekday.

4.2.3 Bluetooth mode



1. Press **MODE** button.
2. Press  or  to select bluetooth icon.
3. Press  to enter. "Pairing" displays.
4. Turn on your phone or other device. Activate bluetooth in its setting menu. Find "EP712 DAB RADIO". Pair your device with the radio to connect them.
5. When pairing is successfully done, play your device as you normally do.

NOTE:







- Make sure the distance between your bluetooth device and the unit is within 10 meters.
- Avoid having other bluetooth devices nearby interfering the signal and connection.

4.3 USB MODE/ TF CARD MOD - MP3 file playback


- Compatible audio files: MP3 only./ - Maximum capacity of TF card and USB key (not included): 32GB/ - The USB key or TF card should contain at least one MP3 audio file in order to be detected by the radio.

1. Press **MODE** button.
2. Press  or  repeatedly to choose TFcard or USB icon.






3. Press «  **SCAN** » to enter.
4. Insert TF card or USB key into the corresponding slot. The radio accesses the track list on the TF card or USB key. Note: MP3 files may automatically play 2-3 seconds later.
5. Press  or  to play previous or next track. Long press  or  to rewind or fast forward.
6. Play «  **SCAN** » to pause or resume listening.


4.4 FLASHLIGHT LAMP

Press lamp button  to turn on the Flashlight, Press again to turn off.




4.5 MENU MODE in DAB+ and FM modes

4.5.1 Entering Menu mode

1. In DAB or FM mode, press and hold "MENU INFO".
2. Press  or  repeatedly to choose the desired menu among menus which whole sequence according to DAB or FM mode is as below. Press " **SCAN**" to confirm.
 - DAB MODE - MENU LIST:** Station list - Preset recall – Preset store – Scan – Manual tune – Prune - Backlight – Time/ Date – Alarms- Sleep – EQ – Language – Factory reset – System version
 - FM MODE - MENU LIST:** Preset recall – Preset store – Scan – Backlight – Time/ Date – Alarms- Sleep – EQ – Language – Factory reset – System version




Note: To exit menu, submenus or options' mode', press .

4.5.2 Station list (DAB mode only)

1. After entering menu mode and then "Station list" menu. (refer to steps 1 and 2 of section 4.5.1 : "Entering menu mode »), press  or  to select the desired radio station.
2. Press «  **SCAN** » to listen to its programme.







4.5.3 Preset recall

In FM menu, it displays after scanning. In DAB menu, it is the list of radio stations that have been previously stored.

1. After entering menu mode and entering "Preset recall". (refer to steps 1, 2 and 3 of section 4.5.1 : "Entering menu mode »), press  or  to select the desired radio station.
2. Press «  **SCAN** » to listen to its programme.

4.5.4 Preset store

In FM menu, it displays after scanning. For DAB, proceed as below to store:

1. In DAB mode, tune your radio to the station you wish to store (refer to section 4.5.1: "DAB mode" - Listening to preset DAB+ stations.
2. Press and hold down « **MENU INFO** ».
3. Press  or  repeatedly to choose "Preset store". Press «  **SCAN** » to enter. Press  or  to choose storage position 1. Press «  **SCAN** » to allot this position to the radio station. A message : « Favorite station set » displays.
4. Repeat step 1, 2 and 3 to store other stations.

4.5.5 Scan

After entering menu and then "Scan" menu (refer to steps 1 and 2 of section 4.5.1 : "Entering menu mode »), press « **||◀ SCAN** » to perform a scan.

4.5.6 Manual tune (DAB mode only)

1. After entering menu and then "Manual tune" menu. (refer to steps 1 and 2 of section 4.5.1 : "Entering menu mode »), Press **◀◀** or **▶▶** to select the channel frequency among the list from "5 A" to "13F".
2. Press « **||◀ SCAN** » to enter. **Adjust antenna or move radio to another place or room to get the strongest signal for that channel and facilitate progress of scan.**
Once search is completed, the radio will begin to play.

Notes: In case radio failed to receive the signal, press **↻** to exit and select another channel frequency.

4.5.7 Prune function (DAB mode only)

This menu, only available in DAB+ mode, allows you to delete radio stations which cannot be received well in your area (with weak signals) from the station list. After performing a scan, proceed with prune function just as below. The system will automatically identify all invalid stations and then they will be no longer displayed.

After entering the PRUNE menu:

1. Press **◀◀** or **▶▶** to select "Yes".
2. Press " **||◀ SCAN** " to prune the station list.

4.5.8 Backlight

After entering menu mode and then " Backlight" menu (refer to steps 1 and 2 of section 4.5.1 : "Entering menu mode »), press **◀◀** or **▶▶** to select the either « timeout » or « level ». Press « **||◀SCAN** » to enter.
Press **◀◀** or **▶▶** to select the desired option. See the tables below for details. Press « **||◀SCAN** » to confirm.

TIMEOUT (setting of backlight duration in seconds)								
Always on	10	20	30	45	60	90	120	180

LEVEL (Backlight brightness)		
Low	Medium	High

4.5.9 Sleep

After entering menu mode and then " Sleep" menu (refer to steps 1 and 2 of section 4.5.1 : "Entering menu mode »), press **◀◀** or **▶▶** to select the desired duration option: OFF (deactivation), 15mn, 30mn, 45mn, 60mn, 1H15, 1H30, 1H45, 2H. Note : Your radio will turn off automatically after the timer has elapsed.

4.5.10 EQ = Equalizer

EQ stands for the sound effect mode which is only workable when playing TFcard, USB key and bluetooth function. It is not valid in DAB and FM modes.

After entering menu mode and then " EQ" menu (refer to steps 1 and 2 of section 4.5.1 : "Entering menu mode »), press **◀◀** or **▶▶** to select the desired **option**: Normal, classic, pop, jazz, etc. Press « **||◀SCAN** » to confirm.

4.5.11 LANGUAGE

After entering menu mode and then " **Language**" menu (refer to steps 1 and 2 of section **4.5.1 : "Entering menu mode »**), press **◀◀** or **▶▶** to select the desired language: English, German, French, Norwegian, Italian, Swedish, Danish, Polish and Finnish. Press **◀ ▶▶ SCAN »** to confirm.

4.5.12 Factory reset

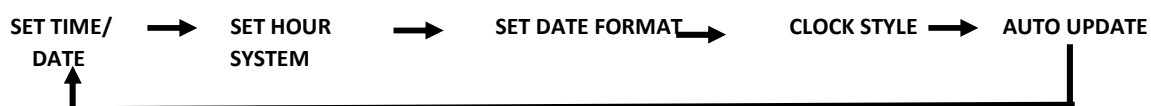
After entering menu mode and then " **Factory reset**". (refer to steps 1 and 2 of section **4.5.1 : "Entering menu mode »**), press **◀◀** or **▶▶** to select "Yes". Press **◀ ▶▶ SCAN »** to confirm. The factory default settings will be restored and the radio will perform a scan of the available station radios.

4.5.13 System version

After entering menu mode and then " **System version**" mode (refer to steps 1 and 2 of section **4.5.1 : "Entering menu mode »**), press **◀ ▶▶ SCAN »** to display the information about software version.

4.5.14 Entering "Time/ date"

1. After entering menu mode and choosing " **Time/Date**". (refer to steps 1 and 2 of section **4.5.1 : "Entering menu mode »**), press **◀ ▶▶ SCAN »** to enter.
2. Press **◀◀** or **▶▶** to select the desired submenu among the list below and



3. Press **◀ ▶▶ SCAN »** to enter:

4.5.14.1 Time and date setting

1. After selecting and entering "set time and date" submenu (see steps 1, 2 and 3 in section 4.5.9.14: above), press **◀◀** or **▶▶** to set the flashing day (« dd »).
2. Press **◀ ▶▶ SCAN »** to confirm and switch to the next flashing value to set.
3. For the next settings : month (« mm »), year (« yyyy »), hour digit and minut digit, proceed as follows to set : Press **◀◀** or **▶▶** to adjust the flashing value. Press **◀ ▶▶ SCAN »** to confirm and switch to the next flashing value to set.

4.5.14.2 Other time/ date submenus

For the following submenus: set hour system/ Set date format/ clock style/ Auto update, proceed as below:

1. After selecting and entering "set time and date" menu (see steps 1, 2 and 3 in section 4.5.9.1: Entering time/date), press **◀◀** or **▶▶** to select the submenu. Press **▶ ▶▶ SCAN »** to enter.
2. Press **◀◀** or **▶▶** to select the desired option. See tables below for the details about the options.
3. Press **▶ ▶▶ SCAN »** to confirm.

SET HOUR SYSTEM	
24HR format	12HR format

SET DATE FORMAT		
dd-mm-yyyy	mm-dd-yyyy	Yyyy-mm-dd

* d=Day, m= Month, y=Year

CLOCK STYLE	
Analog	Digital

AUTO UPDATE (TIME & DATE)	
No update	Update from radio

4.5.15 Alarms 1 & 2

1. In DAB or FM mode, press and hold "MENU INFO".
2. Press **⏪** or **⏩** to select "ALARMS". Press **⏪** **SCAN** **⏩** to enter.
3. Press **⏪** or **⏩** to select alarm 1 or 2. Note: By default, "Alarm 1 OFF" is highlighted.
4. Press **⏪** **SCAN** **⏩** to enter.
5. Press **⏪** **SCAN** **⏩** to either select ON (activation) or OFF (deactivation).
6. Press **⏩** once to reach Alarm time. Press **⏪** **SCAN** **⏩** to enter.
7. Press **⏪** or **⏩** to set the flashing alarm hour digit. Press **⏪** **SCAN** **⏩** to confirm.
8. Repeat step 8 to set the alarm minute digit.
9. To set the next settings: alarm sound, alarm occurrence and volume, proceed as follows: Press **⏩** once to reach the next setting. Press **⏪** **SCAN** **⏩** to display the list of options. Press **⏪** or **⏩** to select the desired option. Press **⏪** **SCAN** **⏩** to confirm.
10. To set Alarm 2, press **↶** to reach the former page. Repeat steps from 3 to 9 to do the settings.

NOTES:

When the alarm sounds:

- To STOP IT, press **⏻** **POWER** button.
- To ACTIVATE SNOOZE FUNCTION, press button **⏪** **SCAN** **⏩**, **↶** or "MENU INFO". The alarm will sound 5 minutes later. Note: After pressing one of these buttons, you can set the snooze interval duration. When "SNOOZE 5 minutes" display, gently turn the volume control knob and stop turning when the desired figure display: 5, 10, 15 or 30. Do not press any button till the snooze interface exits.

5. WARNINGS

1. Keep away from sources of heat, direct sunlight, humidity, water or other liquids.
2. Do not operate it under high temperature.
3. Do not immerse in water.
4. Do not subject it to strong impacts and do not throw it.
5. Do not drop, short-circuit, modify, disassemble or puncture it.
6. It is not a toy. Keep out of reach of children.
7. In case of abnormalities (bulge, heat, etc.) during charging, disconnect USB connector, stop using it and take it to a qualified technician.
8. Do not try to repair your radio. All the repairs must be made by a qualified technician.
9. Disconnect it from USB connector after completion charge.

6. BATTERY WARNINGS

- Please remove the batteries if you plan not to use the clock for a long period.
- Never mix alkaline, regular (carbon-zinc) and rechargeable (nickel hydride) batteries.
- Never mix old and new batteries.
- Never try to charge non-rechargeable batteries.
- Remove rechargeable batteries from the appliance (if possible) before charging.
- Rechargeable batteries should always be charged under the supervision of an adult.

- Remove used batteries.
- Never short-circuit the power terminals.
- Always use batteries of the recommended type or equivalent type.
- Observe the correct polarity when replacing the batteries

7. SAFE INSTRUCTIONS FOR RECHARGEABLE BATTERY

ATTENTION

- Lithium-ion batteries can easily rupture, ignite, or explode when exposed to high temperatures, or direct sunlight.
- Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.
- The battery should not be removed until it is not completely discharged.
- The battery must be removed from the appliance before it is scrapped.
- The appliance must be disconnected from the mains supply when removing the battery.
- Do not plug the device after removing the battery.
- The battery must be disposed safely.

Since the battery cannot be removed from the product, please dispose of the product together with battery safely in the collection points intended for disposal of this kind of product. Make sure that the battery has been completely discharged before disposing of the product.

8. MAINTENANCE

- Clean only with a dry cloth.
- It is important that no liquid reaches the inside of the unit.

WARNING: You should not dispose of this device with your household waste. A selective collection system for this type of product is implemented by your local authorities. Please contact your local authorities to find out how and where collection takes place. These restrictions apply because electrical and electronic devices contain dangerous substances that have harmful effects on the environment or on human health and must be recycled. This symbol indicates that electrical and electronic devices are collected selectively. The symbol shows a waste container crossed out with an X symbol.

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