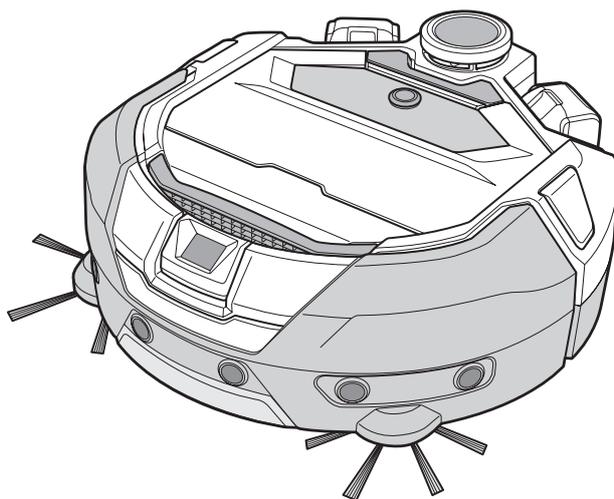




INSTRUCTION MANUAL

# Robotic Cleaner DRC300



  Read before use.

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## Warning

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

## About the Robotic Cleaner

### Major features

| Major feature            |                                  | Model:DRC300   |
|--------------------------|----------------------------------|--|
| Voltage                  |                                  | D.C. 18 V  |
| Continuous run time*1 *2 |                                  | Approx. 240 minutes  |
| Dust collection volume   |                                  | 3.0 L  |
| Dimensions               |                                  | 500 mm (L) × 500 mm (W) × 204 mm (H)   |
| Weight*2                 |                                  | 10.6 kg  |
| Wireless communication   | Communication system             | 1. Robotic cleaner-to-remote control :Bluetooth<br>2. Robotic cleaner-to-smartphone: Wi-Fi® (SoftAP) |
|                          | Estimated communication distance | 1. 20 m or less<br>2. 10 m or less   |
| Wireless LAN             | Frequency band                   | 2.4 GHz  |
|                          | Maximum radio-frequency power    | 17.48 dBm (EIRP)   |
|                          | Wireless LAN standards           | IEEE 802.11 b/g/n  |
|                          | Encryption method                | WPA/WPA2   |
|                          | WPS version                      | Version 2.0  |
| Bluetooth                | Frequency band                   | 2402.0 - 2480.0 MHz  |
|                          | Maximum radio-frequency power    | Remote controller: -4 dBm (EIRP)   |
|                          | Transmission range               | Approximately 10 m   |
|                          | Bluetooth® version               | 4.2 (Bluetooth low energy)   |
| Laser output             | Wave length                      | LiDAR sensor: 775 - 800 nm<br>Cliff sensor: 845 - 850 nm   |
|                          | Output                           | 1 mW or less (IEC 60825-1:2014 Laser Class 1)  |

- Please note that the major features, shape, and other characteristics are subject to change for improvement.
- The laser distance sensors of this product are Class 1 laser products as defined by international standard IEC 60825-1:2014 on the safety of laser products.

\*1. When used on smooth flooring such as vinyl floor tiles with the vacuum fan turned on. The run time varies depending on the conditions of the running location, the kind of the floor, the battery conditions, the room temperature, etc. In addition, the run time can be shorter in low-temperature environments because of the characteristics of a lithium-ion battery.

\*2. When equipped with two BL1860B batteries.

### Applicable battery cartridge and charger

|                   |   |
|-------------------|---|
| Battery cartridge | BL1815N / BL1820B / BL1830B / BL1840B / BL1850B / BL1860B             |
| Charger           | DC18RC / DC18RD / DC18RE / DC18SD / DC18SE / DC18SF / DC18SH / DC18WC |

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

### WARNING

Only use the battery cartridges and chargers listed above. Use of any other battery cartridges and chargers may cause injury and/or fire.

### About cord connected power sources

Cord connected power sources cannot be used for this product. If used, they may cause injury or an accident.

## Intended use

This product is a robot vacuum cleaner intended for cleaning indoor floors. Some operations and settings can be performed with the remote control and the dedicated app.

## Symbols

The followings show the symbols which may be used for the equipment. Be sure that you understand their meaning before use.

|  |   |
|--|---|
|    | Read the instruction manual.  |
|    | Take particular care and attention.   |
|    | A representative battery applicable to this product.  |
|    | Only for EU countries<br>Due to the presence of hazardous components in the equipment, waste electrical and electronic equipment, accumulators and batteries may have a negative impact on the environment and human health.  |
|    | Ni-MH<br>Li-ion<br>Do not dispose of electrical and electronic appliances or batteries with household waste!<br>In accordance with the European Directive on waste electrical and electronic equipment and on accumulators and batteries and waste accumulators and batteries, as well as their adaptation to national law, waste electrical equipment, batteries and accumulators should be stored separately and delivered to a separate collection point for municipal waste, operating in accordance with the regulations on environmental protection.<br>This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment. |
|  | Do not step or put objects on the robotic cleaner.  |
|  | Do not use the robotic cleaner near an open flame or flammable and/or dangerous materials.  |
|  | Clean the cliff sensors on the bottom face if they are dirty or wet.  |
|  | CLASS 1 LASER PRODUCT<br>CONSUMER LASER PRODUCT<br>EN 50689:2021  |
| CONSUMER LASER PRODUCT<br>EN 50689 : 2021  |   |

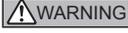
## Declarations of Conformity

### For European countries only

The Declarations of conformity are included in Annex A to this instruction manual.

## Safety precautions

About the meaning of , , and  in precautions

Considerations for using this product are classified into , , and .

Their respective meanings are as follows.

 **WARNING** : A precaution to indicate a risk of death or serious injury of the user when the product is handled improperly.

 **CAUTION** : A precaution to indicate a risk of injury of the user or a risk of property damage when the product is handled improperly. Note that a matter described as  may possibly lead to serious consequences depending on the situation. Be sure to observe these precautions as all of them are important for safety.

 **NOTICE** : Important precautions for handling of the product and its accessories.

- Be sure to observe the “Safety precautions” in order to prevent an accident such as fire, electric shock, and injury before it happens.
- Before using the product, read all of this “Safety precautions” thoroughly to ensure proper use of the product.
- After reading it, be sure to place it in safekeeping for use at any time by those who use the product.
- When lending the product to another person, give it together with the user’s manual.
- The following pictorial signs are used to classify and explain things to observe.

## Examples of pictorial signs



This pictorial sign indicates a “prohibited” thing, that is, what you must not do.



This pictorial sign indicates a “mandatory” thing, that is, what you must always do.

These illustrations are for reference purposes. Note that their design varies depending on the product.

|  |   |
|--|---|
|  <b>WARNING</b>   |  |
| <b>Do not wash the product in water. Do not use this product in a moist or wet place such as a bathroom.</b>   |   |
| <ul style="list-style-type: none"> <li>• Entry of water into the motor can cause a short, heat generation, or ignition.</li> <li>• Some components can be washed in water. Refer to “Care” on page 24.</li> </ul>  |   |
| <b>Never disassemble, repair, or modify the product.</b>   |   |
| <ul style="list-style-type: none"> <li>• Doing so can cause ignition or abnormal operation, resulting in injury.</li> </ul>  |   |
| <b>Do not let children play with this product or the charger.</b>  |   |
| <ul style="list-style-type: none"> <li>• A moment’s carelessness can result in serious injury.</li> </ul>  |   |
| <b>Do not use this product outdoors.</b>   |   |
| <b>Do not use this product in an unstable place such as stairs or a steep slope.</b>   |   |
| <ul style="list-style-type: none"> <li>• This product may tip over or fall, causing injury.</li> </ul>   |   |
| <b>Do not use items other than Makita-specified accessories and separately sold items.</b>   |   |
| <ul style="list-style-type: none"> <li>• Using an item other than the accessories and separately sold items given in this user’s manual and our catalog may cause an accident or injury.</li> </ul>  |   |
| <b>Do not place this product near flames, heating devices, etc.</b>  |   |
| <ul style="list-style-type: none"> <li>• Doing so may cause a short circuit or ignition due to deformation of the product.</li> </ul>  |   |
| <b>Do not use the product or charge the battery near flammable substances (gasoline, benzine, thinner, gas, etc.).</b>   |   |
| <ul style="list-style-type: none"> <li>• Doing so can cause explosion or fire.</li> </ul>  |   |
| <b>Do not store this product in a place where the temperature can reach 50 °C (122 °F) (metallic box, the inside of a car in summer, etc.).</b>  |   |
| <ul style="list-style-type: none"> <li>• Doing so can cause a short circuit or ignition due to deformation of this product.</li> <li>• The battery may deteriorate, causing smoking or ignition.</li> </ul>  |   |
| <b>Do not charge in the following conditions, as doing so may cause fire.</b>  |   |
| <ul style="list-style-type: none"> <li>• On paper such as corrugated cardboard, cloth such as a cushion, a carpet, vinyl, etc.</li> <li>• A charger with air holes is used but the air holes are blocked during charging. Or, metals or combustible things are inserted into air holes.</li> <li>• In a dusty place, for example, with cotton dust.</li> </ul> |   |
| <b>Do not charge in the rain, or remove or insert the power plug or battery with wet hands.</b>  |   |
| <b>Do not allow foreign matter such as pieces of metal or water near the terminal of the charger.</b>  |   |
| <ul style="list-style-type: none"> <li>• Doing so may cause electric shock or injury.</li> </ul>   |   |
| <b>Do not use a charger other than the dedicated charger.</b>  |   |
| <ul style="list-style-type: none"> <li>• Doing so can cause leakage, heating, or rupture of the battery.</li> <li>• Do not use the charger for purposes other than charging.</li> </ul>  |   |
| <b>Do not use the charger for purposes other than charging. Do not use the battery and charger for equipment other than specified by Makita.</b>   |   |

|   |  |
|---|--|
|  <b>WARNING</b>  |  |
| <p><b>Do not abuse the cord of the charger.</b></p> <ul style="list-style-type: none"> <li>Do not carry the charger while holding the cord or do not yank the plug cord to disconnect from the power receptacle.</li> <li>Keep the cord away from heat, oil, chemicals, and sharp corners.</li> <li>Be careful with the place for charging to prevent the cord from being stepped on, being caught, or being damaged due to excessive force. Electric shock or a short circuit may result, causing ignition.</li> </ul> |  |
| <p><b>Do not use if the cord of the charger is damaged or if the power plug is not firmly inserted.</b></p> <ul style="list-style-type: none"> <li>Electric shock, a short circuit, or ignition may result.</li> </ul>  |  |
| <p><b>The battery mounting part of the charger has a charging terminal. Do not allow foreign matter such as pieces of metal or water near the charging terminal.</b></p>  |  |
| <p><b>Do not cover the battery and the charger with a cloth or something during charging.</b></p> <ul style="list-style-type: none"> <li>Charge the battery in a well-ventilated place. Otherwise, heating, rupture, or ignition may result.</li> </ul>   |  |

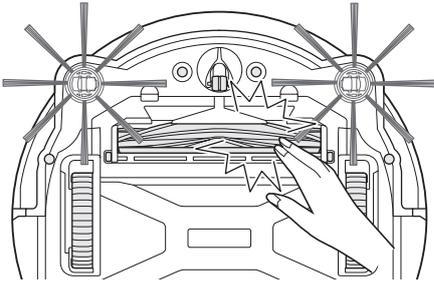
|   |   |
|---|---|
|  <b>WARNING</b>  |  |
| <p><b>Be sure to turn off the power and remove the batteries before care and inspection to prevent this product from starting accidentally.</b></p>   |   |
| <p><b>When inserting the battery into this product, be careful not to turn on the power.</b></p> <ul style="list-style-type: none"> <li>When you install the battery in conditions where the power can possibly be turned on (for example, when your finger is rested on the start/stop button), this product may begin to move suddenly, causing an accident.</li> </ul>   |   |
| <p><b>In the event of an inadvertent drop or collision, carefully check this product, etc. for damage, cracks, and deformation.</b></p> <ul style="list-style-type: none"> <li>Damage, cracks, and deformation can be a cause of injury.</li> </ul>   |   |
| <p><b>Move this product gently to prevent the product from being deformed and damaged.</b></p> <ul style="list-style-type: none"> <li>Damage, cracks, and deformation can be a cause of injury.</li> </ul>  |   |
| <p><b>If this product is not working properly or an abnormal sound is produced when you use the product, turn off the power immediately and stop using the product. Then, ask the shop from which you made a purchase or our sales office to do inspection and repair.</b></p> <ul style="list-style-type: none"> <li>If you continue to use the product, injury or an accident may result.</li> </ul>  |   |
| <p><b>Check for damaged parts.</b></p> <ul style="list-style-type: none"> <li>Before using the product, thoroughly inspect for damage on components and check that the product works properly and provides predetermined functionality.</li> <li>Check movable parts for proper positioning and tightening, and check components for damage and proper fitting. Then, check all other areas that can influence the operation to see if there is any abnormality.</li> <li>For replacement and repair of damaged components, follow the user's manual. If no description is given in the user's manual, ask the shop from which you made a purchase or our sales office to do repair.</li> </ul>             |   |
| <p><b>Carefully keep this product in good condition.</b></p> <ul style="list-style-type: none"> <li>For replacement of accessories, follow the user's manual.</li> <li>Periodically inspect the cord of the charger, and if it is damaged, ask the shop from which you made a purchase or our sales office to do repair. Electric shock or a short circuit may result, causing ignition.</li> <li>When an extension cord is used for charging, inspect it periodically, and if it is damaged, replace it. Electric shock or a short circuit may result, causing ignition.</li> <li>Always keep the carrying handle dry and clean and do not allow it to come into contact with oil, grease, etc.</li> </ul> |   |
| <p><b>When this product is not used, keep it in proper storage.</b></p> <ul style="list-style-type: none"> <li>Keep it in a dry, safe place out of the reach of children or in a dry place that can be locked. An accident may result.</li> </ul>   |   |
| <p><b>Pull out the charger from a power outlet when it is not used for charging.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause electric shock, current leakage, or fire due to insulation deterioration.</li> </ul>   |   |

|  |  |
|--|--|
|  <b>WARNING</b>  |  |
| <p><b>If you notice abnormal heat or other abnormal conditions during charging, pull out the power plug of the charger immediately to stop charging.</b></p> <ul style="list-style-type: none"> <li>If you let charging continue, smoke, ignition, or rupture may result.</li> </ul> |  |

|   |   |
|---|---|
|  <b>CAUTION</b>   |  |
| <p><b>Attach accessories securely in accordance with the user's manual.</b></p> <ul style="list-style-type: none"> <li>If they are not attached securely, it can cause injury, damage, or an accident.</li> </ul>           |   |
| <p><b>When carrying this product, always hold its carrying handle.</b></p> <ul style="list-style-type: none"> <li>Carrying the product while holding other than the carrying handle can cause failure or injury.</li> </ul> |   |

## Safety precautions for use of the robotic cleaner

|  |   |
|--|---|
|  <b>WARNING</b>  |  |
| <p><b>Do not use this product in a high place with no enclosure or in a place with a narrow width such as stairs.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause injury or failure due to a fall of this product.</li> </ul>  |   |
| <p><b>Do not use this product in a place where oil components such as edible oil are floating, in a place where sprays and chemicals are used, such as a barber shop, a beauty salon, a cleaning shop, or outdoors.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause failure.</li> </ul>                  |   |
| <p><b>Do not use this product in a place with a person who cannot operate this product properly, a young child, or an infant.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, an accident, or injury.</li> </ul>   |   |
| <p><b>Do not use this product in a place with an animal, etc.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, an accident, or injury.</li> </ul>   |   |
| <p><b>Do not use this product in a place with many people or with people coming and going constantly.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, an accident, or injury.</li> </ul>   |   |
| <p><b>Do not block the exhaust opening and suction opening or put in metals, flammable foreign objects, etc.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, ignition, or failure.</li> </ul>  |   |
| <p><b>Do not use this product near an object that may possibly block the suction opening.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, ignition, or failure.</li> </ul>   |   |
| <p><b>Do not throw this product into fire or heat it.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause a short circuit, ignition, liquid leakage, or explosion.</li> </ul>  |   |
| <p><b>Do not place this product in a high-temperature place, such as near fire or a space heater, a place exposed to direct sunlight, and the inside of a car under the blazing sun.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause a short circuit, ignition, liquid leakage, or explosion.</li> </ul> |   |
| <p><b>Do not put objects over this product.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause overheating, resulting in ignition.</li> </ul>   |   |
| <p><b>Do not place this product in direct sunlight.</b></p> <ul style="list-style-type: none"> <li>Doing so may cause incorrect response of the LiDAR sensor and infrared sensor, resulting in malfunction or failure.</li> </ul>  |   |
| <p><b>Do not block sensors of this product or put in foreign objects.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause faulty operation, malfunction, or failure.</li> </ul>  |   |
| <p><b>Do not affix a sticker or tape on sensors and wheels.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause malfunction or failure.</li> </ul>   |   |
| <p><b>Do not sit on this product, place a heavy object on it, or give a strong shock to it.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause damage or failure of this product or injury. Pay special attention when children are nearby.</li> </ul>  |   |

|  <b>WARNING</b>  |  |
|---|--|
| <p><b>During operation, do not touch drive wheels or put your hand or foot under this product.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause injury to a hand, etc. Pay special attention when children are nearby.</li> </ul>   |  |
| <p><b>Do not allow the product to be used by a child alone. People who cannot express their will and people who cannot operate the product independently should not use this product.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, an accident, or injury.</li> </ul>  |  |
| <p><b>Do not pour water or a detergent on this product or wash this product (except the main brush, side brush, dust box, and filter).</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock, a short circuit, or ignition.</li> </ul>   |  |
| <p><b>Do not touch the product with wet hands.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause electric shock.</li> </ul>   |  |
| <p><b>Do not use magnetic boundary line that is torn or deformed or appears to have lost its magnetic force.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause an accident or injury.</li> </ul>  |  |
| <p><b>Your body parts such as hands and hair and what you are wearing should not be put in the suction opening and exhaust opening of this product.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause injury.</li> </ul>  |  |
| <p><b>Your body parts such as hands and hair and what you are wearing should not be allowed to come into contact with a brush that is rotating.</b></p> <ul style="list-style-type: none"> <li>Doing so may cause injury.</li> </ul>  |  |
| <p><b>Do not allow this product to suck in the following. Doing so can cause fire, injury, or motor failure.</b></p> <p><b>Flammable substances</b></p> <ul style="list-style-type: none"> <li>Oils (kerosene, gasoline, etc.)</li> <li>Solvents (benzine, thinner, etc.)</li> <li>Burning things such as matches, incense, candles, and hot ash; things that emit smoke such as cigarettes; things with high temperatures.</li> <li>Combustibles such as toner</li> <li>Paints</li> <li>Grinding sparks, metal dust, etc. that are generated in metal cutting and grinding .</li> <li>Flammable gas (spray, etc.)</li> </ul> <p><b>Explosive substances</b></p> <ul style="list-style-type: none"> <li>Nitroglycerin, etc.</li> <li>Combustible substances</li> <li>Aluminum, magnesium, titanium, zinc, red phosphorus, yellow phosphorus, celluloid, and other chemical substances; dust, gas, and vapor thereof</li> </ul> <p><b>Sharp objects</b></p> <ul style="list-style-type: none"> <li>Glass, edged tools, wood chips, metal, stones, nails, razors, pushpins, needles, etc.</li> </ul> <p><b>Bubbly things such as carpet detergents</b></p> <p><b>Things that solidify and conductive fine powder (metal powder, carbon)</b></p> <p><b>Dehumidifying agents</b></p> <p><b>A large amount of powder (flour, ash, powder in a fire extinguisher, etc.)</b></p> <p><b>Substances that cause symptoms of poisoning</b></p> <p><b>Medicines</b></p> <p><b>Liquid and wet garbage</b></p> <p><b>Excrement and vomit of animals, etc.</b></p> <p><b>Large paper waste, plastic waste, strings</b></p> |  |

|  <b>WARNING</b>  |  |
|---|--|
| <p><b>Do not use the product in the following conditions, which can be a cause of fire.</b></p> <ul style="list-style-type: none"> <li>Large volume of combustibles are drifting.</li> <li>The exhaust opening is blocked.</li> <li>The dust box and filter are not attached.</li> <li>Trash gets caught in the main brush, which is locked.</li> <li>There are holes and tears in the filter.</li> <li>The battery is not fully inserted.</li> </ul> |  |
| <p><b>Do not cause a short circuit between the terminals of the USB power supply section (for repair).</b></p> <ul style="list-style-type: none"> <li>Inserting needles or wire into the USB terminal section may result in a short circuit, causing ignition or emission of smoke.</li> </ul>  |  |
| <p><b>Do not look directly into the laser light (beam).</b></p> <ul style="list-style-type: none"> <li>Doing so may cause injury to the eyes.</li> </ul>  |  |
| <p><b>This product complies with the applicable safety regulations, so do not modify this product.</b></p> <ul style="list-style-type: none"> <li>Performing repairs without the knowledge or skill to perform repairs may cause inadequate performance of the laser, as well as accidents or injury.</li> </ul>  |  |
| <p><b>Do not use rechargeable products near high-voltage power lines.</b></p> <ul style="list-style-type: none"> <li>There is a risk of malfunction or failure.</li> </ul>  |  |

|  <b>WARNING</b>  |  |
|---|---|
| <p><b>Stop using the product if it sometimes fails to operate even though the power is turned on.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause smoking, ignition, or electric shock.</li> </ul>  |   |
| <p><b>Stop using the product immediately when it is deformed or is abnormally hot.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause smoking, ignition, or electric shock.</li> </ul>   |   |
| <p><b>Stop using the product when it sometimes stops during operation.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause smoking, ignition, or electric shock.</li> </ul>   |   |
| <p><b>Stop using the product immediately when an abnormal sound is heard during operation.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause smoking, ignition, or electric shock.</li> </ul>   |   |
| <p><b>Stop using the product immediately when it smells like something is burning.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause smoking, ignition, or electric shock.</li> </ul>   |   |
| <p><b>Before use and maintenance, move lighted candles, vases, etc. on tables and shelves.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause them to fall due to a shock when hit by this product, possibly resulting in an accident.</li> </ul>  |   |
| <p><b>Before use and maintenance, move rubber bands and other objects that may possibly be dragged by this product.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause this product to drag a rubber band, etc. possibly resulting in an accident.</li> </ul>  |   |
| <p><b>Before use and maintenance, move equipment and devices with a controller located on the same level as this product.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause this product to hit and press a controller, possibly resulting in fire, injury, or an accident.</li> </ul>                |   |
| <p><b>Before maintenance and inspection, be sure to turn off the power of this product and remove the batteries.</b></p> <ul style="list-style-type: none"> <li>Not doing so can cause electric shock or injury.</li> </ul>   |   |
| <p><b>During maintenance, be careful not to get your fingers caught.</b></p> <ul style="list-style-type: none"> <li>Doing so can cause injury.</li> </ul>   |   |
| <p><b>If you have an implantable cardiac pacemaker or an implantable defibrillator, use this product more than 15 cm away from the implantation site.</b></p> <ul style="list-style-type: none"> <li>Radio waves may affect the operation of a medical device and can cause malfunction of the medical device.</li> </ul> |   |

|  |          |
|--|----------|
| <b>⚠ WARNING</b>   | <b>!</b> |
| <p><b>When you use equipment that emits radio waves in a medical institution, follow the instructions by the medical institution. In an area where use is prohibited, turn off the power of this product.</b></p> <ul style="list-style-type: none"> <li>• Not doing so can cause malfunction of medical devices.</li> </ul> |          |

|  |          |
|--|----------|
| <b>⚠ CAUTION</b>   | <b>⊘</b> |
| <p><b>During use and maintenance, do not put foreign objects in gaps and openings.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause electric shock, fire, or failure of this product.</li> </ul>  |          |
| <p><b>Do not use this product on a long-pile (exceeds 7 mm) carpet or other rugs.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause the side brushes to get caught, resulting in damage to the carpet and side brushes.</li> </ul>   |          |
| <p><b>Do not use this product on a delicate rug (mouton, felt, etc.), a delicate floor (a plain wood floor, a marble floor, etc.), and a freshly waxed floor.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause damage or scratches. If damage is caused, stop using the product.</li> </ul> |          |
| <p><b>Do not stand or sit on the top surface of this product.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause this product to move suddenly, resulting in injury such as falling down.</li> </ul>  |          |
| <p><b>Do not operate this product for long hours with the suction opening blocked.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause deformation or ignition of this product due to overheating.</li> </ul>  |          |
| <p><b>Do not put your hand or foot under this product.</b></p> <ul style="list-style-type: none"> <li>• There is a risk that your fingers or toes will get caught, resulting in injury.</li> </ul>   |          |
| <p><b>Do not continue using this product with the filter being dirty or with dust accumulated.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause reduction in suction power.</li> </ul>  |          |
| <p><b>Do not hold this product with its front facing downward.</b></p> <ul style="list-style-type: none"> <li>• Dust can fall from the suction opening.</li> </ul>   |          |
|  |          |

|  |          |
|--|----------|
| <b>⚠ CAUTION</b>   | <b>!</b> |
| <p><b>To prevent malfunctions, ensure that each sensor is well maintained.</b></p> <ul style="list-style-type: none"> <li>• An incorrect response of a sensor can cause injury or failure due to a malfunction or a fall of this product.</li> </ul>   |          |
| <p><b>Make sure that the long tassels of rugs such as a carpet and a mat are tucked inside.</b></p> <ul style="list-style-type: none"> <li>• The tassels may get caught in the drive wheels and/or main brush, causing damage to rugs and this product.</li> </ul>                                 |          |
| <p><b>When you carry this product, stop the operation first, then turn off the power. Hold the carrying handle firmly so as not to get your hands caught.</b></p> <ul style="list-style-type: none"> <li>• Lifting this product inadvertently can cause injury or failure.</li> </ul>              |          |
| <p><b>Put away cords and strings to ensure that they do not get caught in this product.</b></p> <ul style="list-style-type: none"> <li>• Not doing so can cause failure or faulty operation due to entanglement of the power cord.</li> </ul>  |          |
| <p><b>Before cleaning, move objects that break easily, objects that fall down easily, and objects that should not be sucked in. Put away long strings and cords.</b></p> <ul style="list-style-type: none"> <li>• Not doing so can cause damage, scratches, or failure of this product.</li> </ul> |          |

|   |          |
|---|----------|
| <b>⚠ CAUTION</b>  | <b>!</b> |
| <p><b>Use this product with the filter set correctly. Do not use this product with the filter removed, set in a wrong position, or torn.</b></p> <ul style="list-style-type: none"> <li>• Doing so can cause failure such as motor burnout.</li> <li>• Dust may escape and become harmful to health.</li> </ul>                               |          |
| <p><b>Be careful not to get your fingers caught when opening and closing the top cover of the body and the top cover of the dust box, attaching the filter, and connecting and disconnecting the battery.</b></p> <ul style="list-style-type: none"> <li>• There is a risk that your fingers will get caught, resulting in injury.</li> </ul> |          |

## About handling

1. Use this product indoors. Do not clean a place with a large amount of dust even if it is indoors.
2. Do not clean a floor whose surface is hard and bumpy. Doing so can cause brushes and wheels to wear out early.
3. After cleaning, remove sand dust stuck on the main brush, side brushes, and wheels. If they are left uncleaned, the floor surface may be damaged.
4. Always attach the main brush and its cover when using this product.
5. Do not lubricate the movable parts of the main brush, etc. Doing so can cause plastic parts to break.
6. For use on a delicate floor surface, it is recommended to replace with the separately sold items "soft main brush" and "soft side brush." However, scratches may be made depending on the floor surface conditions. In such a case, stop using the product.
7. Do not drag this product. Lift this product when moving it.
8. Do not affix a sticker or tape to sensor parts and wheels, deform the bumper and wheels, or allow the bumper to be pressed forcefully. Doing so can cause malfunction.
9. If fine powder (such as plaster, cement, and chalk) is sucked in, care for the filter, cliff sensor, and LiDAR sensor.
10. Do not allow this product to suck in the following, which can cause scratches on the inside of this product, clogging of dust, or failure. If any of them is sucked in accidentally, stop the operation and discard the dust.
  - (1) Wet waste (liquid and moist waste)
  - (2) Excrement of animals, etc.
  - (3) Large volume of sand and powder
  - (4) Strings
  - (5) Sharp-edged objects (glass, cutting tools, pins, etc.)
  - (6) Large size of rubbish and large volume of rubbish
  - (7) Objects with poor air permeability (food plastic wrap, vinyl, wrapping film, etc.)
11. If the bottom brush of the suction opening, casters, drive wheels, or the roller part of the main brush cover wears out, stop using this product and consult the shop from which you made a purchase or our sales office. Using the robotic cleaner with worn out parts can cause damage to the floor surface.
12. During operation, noise may occur on a TV screen but does not affect the TV itself.
13. Be careful when operating this product in a place where a security system works. This product may be wrongly detected as an intruder by the security system.
14. Do not do the following.
  - (1) Non-use for a long period of time with the battery installed
  - (2) Use with the sensor being dirty or with the filter clogged
  - (3) Use when you notice a battery error (a strange smell, liquid leakage, heating, deformation, or other abnormal things)
  - (4) Use without removing sand dust and other foreign matter stuck on the main brush, side brushes, and wheels
  - (5) Use with some components worn out or exhausted
  - (6) Use without reading the user's manual
  - (7) Turning the product upside down and performing maintenance with the battery installed
  - (8) Use without doing maintenance on the magnetic boundary line

## Battery tool use and care

|  |
|--|
| <b>⚠ WARNING</b>   |
| <p><b>Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.</b></p> |

1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery cartridge may create a risk of fire when used with another battery cartridge.
2. Use appliances only with specifically designated battery cartridges. Use of any other battery cartridges may create a risk of injury and fire.
3. When battery cartridge is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery cartridge or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery cartridge or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C (265 °F) may cause explosion.
7. Follow all charging instructions and do not charge the battery cartridge or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
8. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
9. Do not modify or attempt to repair the appliance or the battery cartridge except as indicated in the instructions for use and care.
10. Prevent unintentional starting. Ensure the switch is in the off position before connecting to the battery cartridge, or picking up or carrying the robotic cleaner. Carrying the robotic cleaner with your finger on the switch or energizing the robotic cleaner with the switch on may cause accidents.
11. Disconnect the battery cartridge from the robotic cleaner before making any adjustments, changing accessories, or storing the robotic cleaner. Such preventive safety measures reduces the risk of starting the robotic cleaner accidentally.
12. The battery cartridge is not charged sufficiently when factory-shipped. Charge the battery before use.
13. When not using the battery cartridge, always put the cover on it.

### 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 or tamper with the battery cartridge. It may result in a fire, excessive heat, or explosion.
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 and use the tool 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. Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge. Such conduct may result in a fire, excessive heat, or explosion.
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. When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.
12. Use the batteries only with the products specified by Makita. Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. If the tool is not used for a long period of time, the battery must be removed from the tool.
14. During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.
15. Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.
16. Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge. It may result in poor performance or breakdown of the tool or battery cartridge.
17. Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines. It may result in a malfunction or breakdown of the tool or battery cartridge.
18. Keep the battery away from children.

## 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 tool and charger.**

#### Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool 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.
4. When not using the battery cartridge, remove it from the tool or the charger.
5. Charge the battery cartridge if you do not use it for a long period (more than six months).

### Precautions regarding radio waves

- Do not use this product in the following locations.
  - In or near locations with medical equipment
  - Near electronic devices with high precision control or faint signals (Examples of electronic devices that require caution: hearing aids, pacemakers and other medical equipment, fire alarms, automatic doors and other automatically controlled equipment)
  - Inside of a hospital or aircraft (Follow the instructions of the hospital or airline and do not use the product in prohibited areas)
- Wireless connection and performance are not guaranteed in all environments. The radio waves may not be received or may be interrupted in the following cases.
  - Use in buildings constructed with concrete, rebar, and metal
  - Installation near obstacles
  - Use in locations where interference occurs with wireless communication devices that use the same frequency
  - Use in locations with equipment that produces magnetic fields, static electricity, or radio interference, such as microwave ovens

### Respective trademarks and registered trademarks

#### Trademark notice

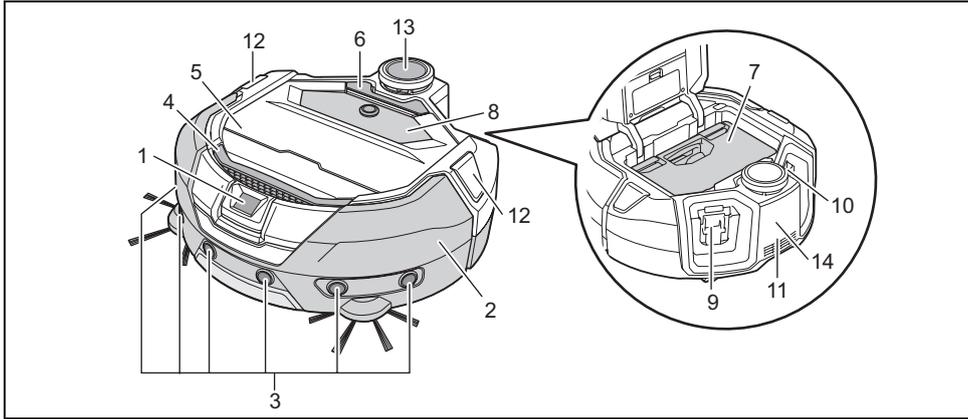
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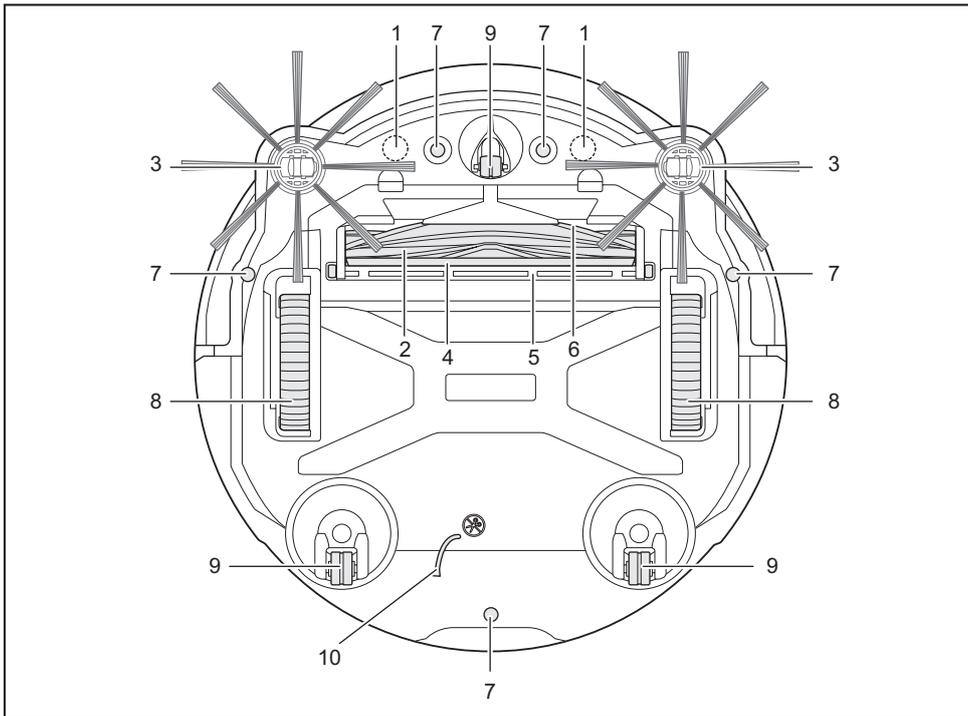
## Names of parts

### Main unit (top view, lateral view, interior)



- |                                   |  |
|-----------------------------------|--|
| 1. Camera sensor                  | 8. Operation panel (display) (See page 9.) |
| 2. Bumper                         | 9. Left-battery insertion slot             |
| 3. Ultrasonic sensor              | 10. Right-battery insertion slot           |
| 4. Carrying handle (See page 10.) | 11. Exhaust opening                        |
| 5. Top cover                      | 12. Position LED                           |
| 6. Open button                    | 13. LiDAR sensor                           |
| 7. Dust box (See page 13.)        | 14. CLASS1 LASER mark                      |

### Main unit (bottom view)



- |  |                    |
|--|--------------------|
| 1. Magnet sensor for boundary sensing (built-in) | 6. Suction opening |
| 2. Main brush                                    | 7. Cliff sensor    |
| 3. Side brush                                    | 8. Drive wheel     |
| 4. Bottom brush                                  | 9. Caster          |
| 5. Main brush cover                              | 10. Earthing line  |

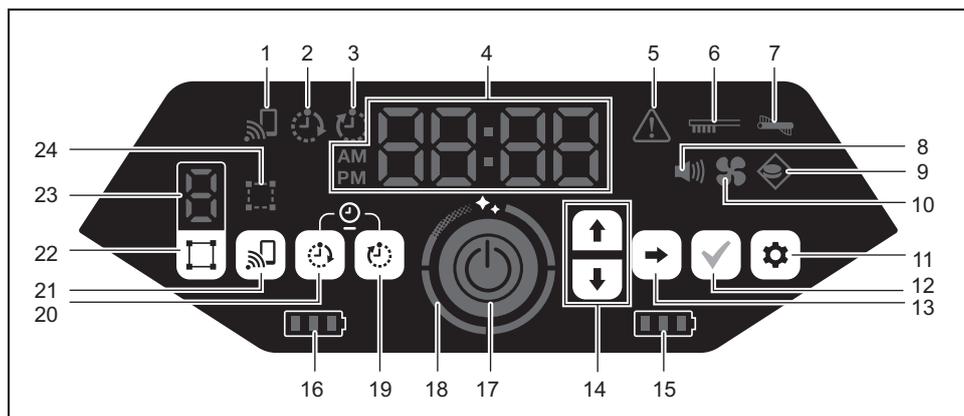
#### NOTICE

- The earthing line reduces the electrical charge on the sensor.



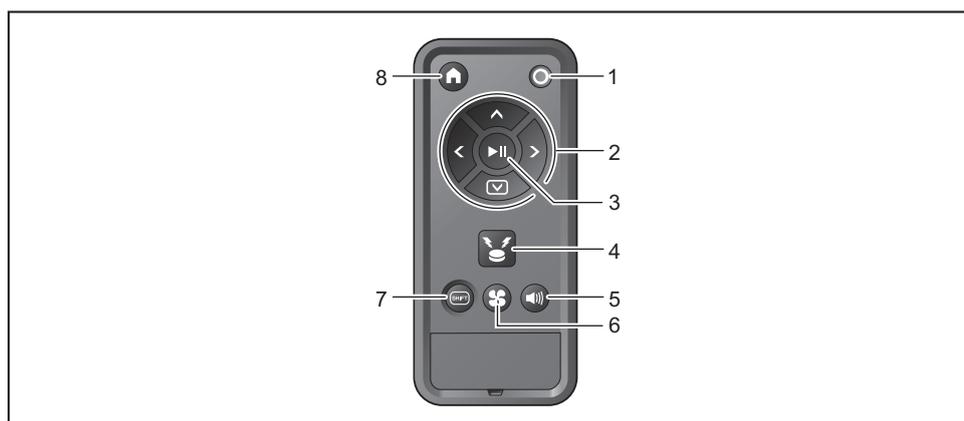
: Do not accidentally pull or cut the earthing line.

## Main unit (operation panel (display))



- |   |   |
|---|---|
| 1. Smartphone connection lamp (green)           | 13. Next button                                     |
| 2. ON timer lamp (green) (See page 19.)         | 14. Up button, down button                          |
| 3. OFF timer lamp (green) (See page 19.)        | 15. Right-battery power lamp (green) (See page 15.) |
| 4. Time indicator (green)                       | 16. Left-battery power lamp (green) (See page 15.)  |
| 5. Error lamp (red) (See page 28.)              | 17. Start/stop button (See page 15.)                |
| 6. Filter care lamp (red) (See page 28.)        | 18. Clean level lamp (white) (See page 17.)         |
| 7. Brush error lamp (red) (See page 28.)        | 19. OFF timer button (See page 19.)                 |
| 8. Sound lamp (green) (See page 22.)            | 20. ON timer button (See page 18.)                  |
| 9. Boundary-sensing lamp (green) (See page 20.) | 21. Smartphone connection button                    |
| 10. Vacuum fan lamp (green) (See page 18.)      | 22. Mode switch button (See page 16.)               |
| 11. Setting button                              | 23. Mode/room number display (See page 16.)         |
| 12. Confirmation button                         | 24. Room register lamp (green) (See page 16.)       |

## Remote control

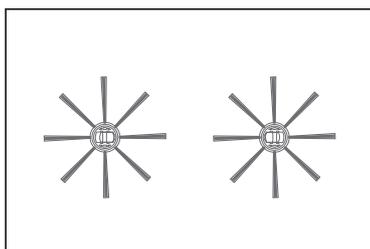


- |  |                             |
|--|-----------------------------|
| 1. Power OFF button                    | 5. Sound ON/OFF button      |
| 2. Action buttons                      | 6. Vacuum fan ON/OFF button |
| 3. Start/stop button                   | 7. Shift button             |
| 4. Location beacon buzzer/light button | 8. Start point button       |

## Standard accessories

- Side brushes (four)

Two are for replacement. Attach two to the robotic cleaner. (See page 13.)

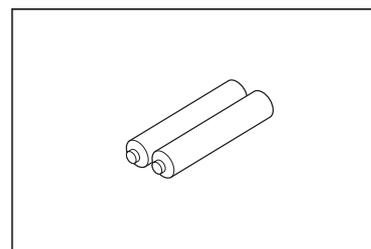


- Remote control



- AAA dry batteries (two) \* Country specific

Install them in the remote control. (See page 13.)



# Prepare Before Cleaning

## About carrying the robotic cleaner

### ⚠ CAUTION

When you carry the robotic cleaner, stop the operation, then turn the power off, and then hold the carrying handle firmly so as not to get your hand caught.

- Not doing so can cause your hand to be caught in the handle.

Keep proper footing and balance at all times when lifting the robotic cleaner.

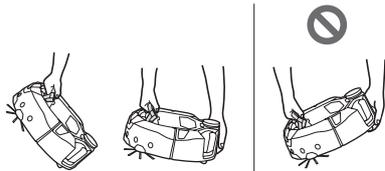
- Not doing so can cause injury or failure.

Do not lift the robotic cleaner carelessly.

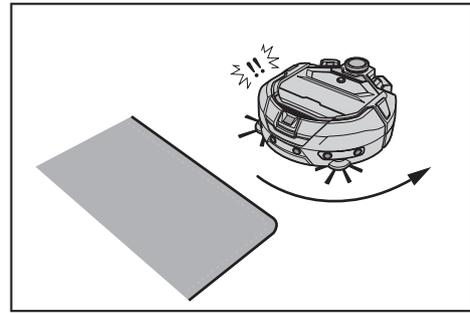
- Doing so can cause injury or failure.

Do not hold the robotic cleaner with its front facing downward.

- Dust can fall from the suction opening.



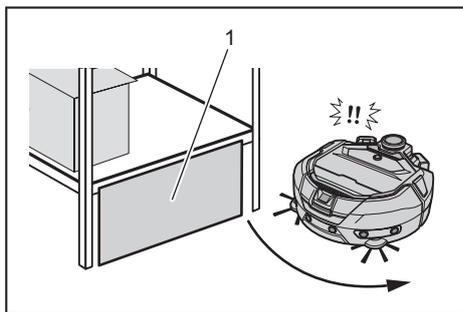
- A black floor, a transparent floor such as a glass floor, or black areas on the grain of wood flooring may be determined to be a step by the robotic cleaner, which then tries to avoid it.



- The robotic cleaner may not be able to suck dust in an area around a step over which the robotic cleaner can climb, a secluded or narrow space that the robotic cleaner cannot enter, or a place that the side brushes cannot reach.
- The robotic cleaner may kick away a small, hard object such as a small stone.
- The robotic cleaner may climb over a step accidentally if there is an object which can help it climbing up (for example, a board or carpet). Keep such objects away from the steps.

## About cleaning by the robotic cleaner

- The robotic cleaner detects obstacles by its LiDAR sensor and ultrasonic sensor and runs while avoiding those obstacles. It collects and sucks dust with its side brushes and main brush. It may fail to recognize an obstacle depending on the conditions. When it hits an obstacle, the bumper detects the contact and avoid the obstacle.
- The robotic cleaner can climb over a step of up to about 2.0 cm. If it is less than 2.0 cm, however, the robotic cleaner sometimes fails to climb over it depending on the conditions such as the shape of the step.
- On a slope or an uneven place, the undersurface of the robotic cleaner may be caught and a drive wheel may be lifted, which causes the robotic cleaner to stop due to an error. If the robotic cleaner stops often, do not allow it to enter that place. (See page 20.)
- Where there is an obstacle near a wall, the robotic cleaner may run up onto the wall while trying to avoid the obstacle.
- The LiDAR sensor may not be able to recognize obstacles with the following characteristics, which may result in inaccurate mapping or bumping into obstacles.
  - Highly reflective obstacles such as mirrors
  - Highly transparent obstacles such as glass
  - Obstacles made of black, glossy material
  - Slim obstacles such as the legs of a chair or desk
- When the robotic cleaner enters a narrow space lower than the height of the robotic cleaner, it can get caught and stuck. In such a case, place a screen or something.

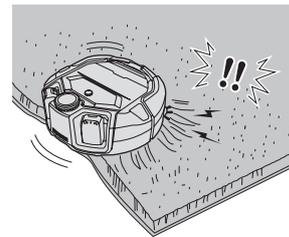


- ▶ 1. Block a gap with a screen or something.

### ⚠ CAUTION

Do not use the robotic cleaner in the following places.

- Do not use the robotic cleaner on places such as a carpet with a pile height of more than 7 mm, a rug with piles that fall out easily, and an uneven rug. On such a rug, the robotic cleaner may stop operating, piles may be caught in the side brushes, or the rug or the side brushes may be damaged. If the robotic cleaner cannot run well on a rug other than described above, avoid use on that rug.



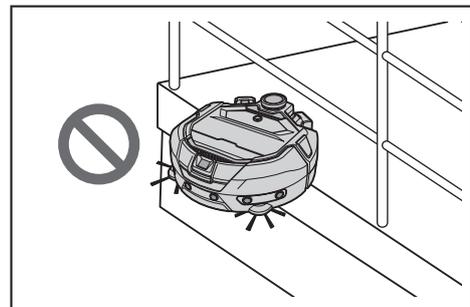
- Do not use the robotic cleaner on a mattress, a blanket, a floor cushion, etc.
- Do not use the robotic cleaner in a wet area, a toilet, a bathroom, an attic, outdoors, etc.
- Do not use the robotic cleaner in a wet place, a place that may become wet, or in a hot, humid place.

## To prevent the robotic cleaner from falling

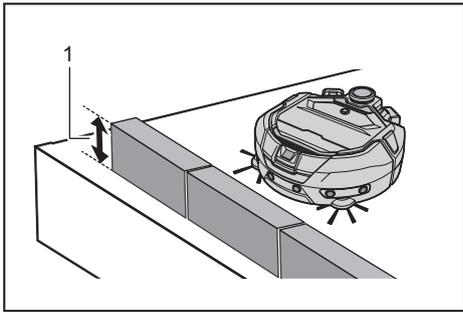
### ⚠ WARNING

Ensure that the robotic cleaner does not fall.

- If it falls, it may cause breakage or injury.
- Do not use the robotic cleaner in a mezzanine floor, a loft, a stairwell, a place without walls, or a place with a slope of 10° or more.

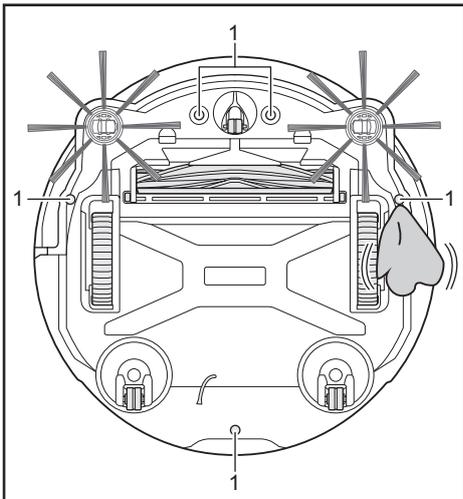


- In a place where an accident or other dangerous situation may occur due to a fall, place an object that has a height of 25 cm or more and can serve as a wall (object that does not move or topple over when hit by the robotic cleaner).



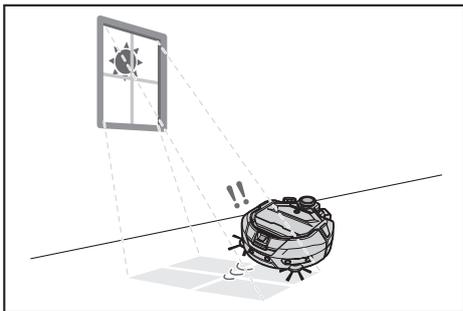
▶ 1. Height of 25 cm or higher

- If dirt or water droplets due to condensation are formed on the cliff sensor on the underside of the robotic cleaner, wipe them off with a dry, soft cloth, a cotton swab, etc.

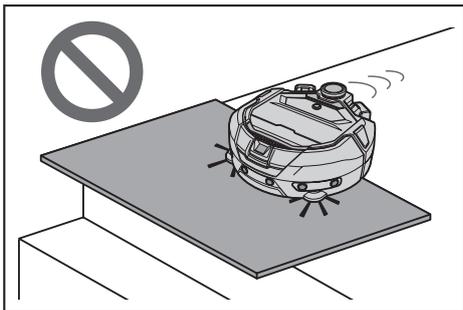


▶ 1. Cliff sensor (five places)

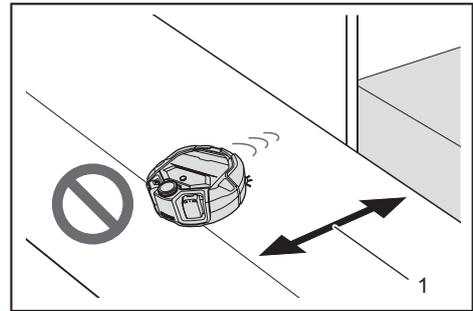
- The robotic cleaner may fail to operate properly when exposed to sunlight or infrared light from other equipment. Ensure that the robotic cleaner is not exposed to infrared light from a halogen heater, a remote control, a sensor, and other equipment and sunlight coming from frosted glass, etc.



- Do not use when there are objects such as carpets, mats, or plates near a step. If an object such as a carpet, mat, or plate is covering the step, the cliff sensor may not recognize the step correctly.

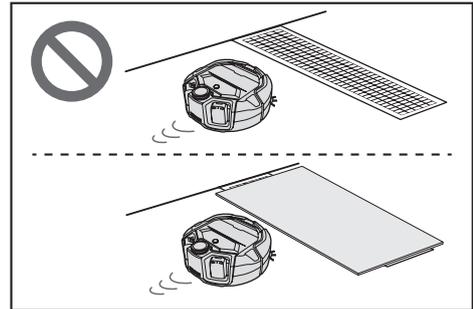


- In such a place that the distance from a wall to a step is less than about 1 m, the robotic cleaner may fall while moving backward. Do not use the robotic cleaner where the distance from a wall to a step is less than about 1 m.



▶ 1. Less than about 1 m

- Where there is a drain cover (grating cover), the cliff sensor may recognize it as a step and the robotic cleaner may not be able to pass over it. If it is necessary to pass over it, cover the grating with a plate or something.



- A step of about 3.0 cm or less may not be recognized as a step by the cliff sensor, resulting in the robotic cleaner climbing down the step while going straight. Where there is a step of from about 2.0 to 3.0 cm, refrain from using the robotic cleaner.
- Shut any sliding doors, screens, or windows because the level difference of their frames or rails may not be recognized as a step by the bumper sensors.
- Do not use the robotic cleaner on a breakable flooring surface such as glass.

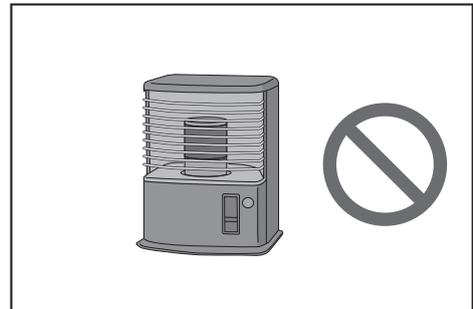
## Tidying up a place to clean

### ⚠ WARNING

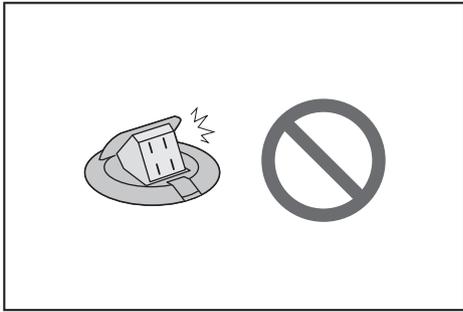
Move objects that may cause damage or an accident when the robotic cleaner comes into contact with them.  
 Put away objects that should not be sucked in, objects that hinder the movement of the robotic cleaner, and objects that are likely to get caught in the main brush, wheels, and side brushes.

- If you leave an object that will obstruct the movement of the robotic cleaner during cleaning, it may cause an accident or injury.

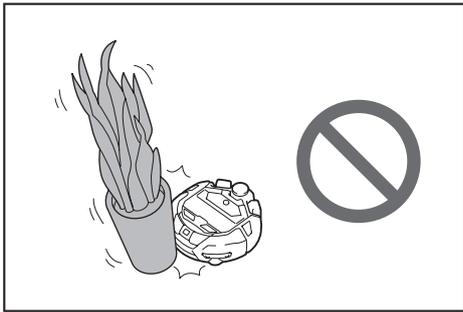
- Do not use the robotic cleaner near objects that get hot, such as a heating apparatus (space heater). Doing so can cause an accident, ignition, or failure. (Do not use a heating apparatus during operation.)



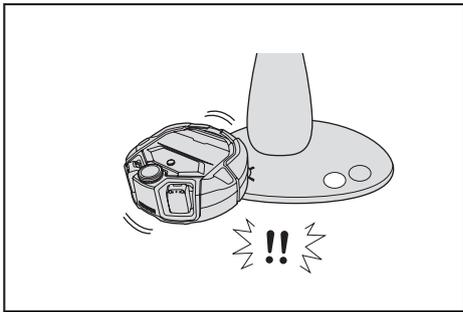
- Do not use the robotic cleaner in a place equipped with a retractable outlet. A retractable outlet should be always retracted.



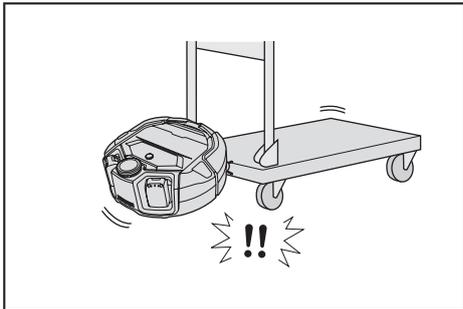
- For walls made of fragile material (e.g., a mud wall, a decorated door or sliding door, or a folding screen), place objects that serve as a wall in front of them so that they will not be damaged.
- Do not use in locations where unstable objects or objects that fall down easily are placed. Unstable objects and objects that fall down easily should be moved to another room.



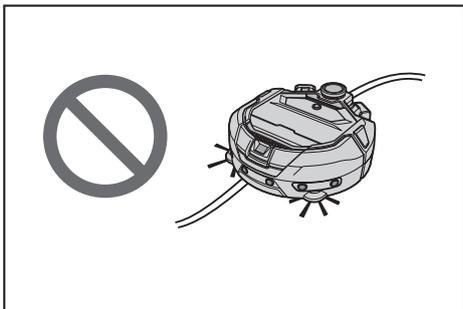
- Move equipment and devices with a controller located on the same level as the robotic cleaner.



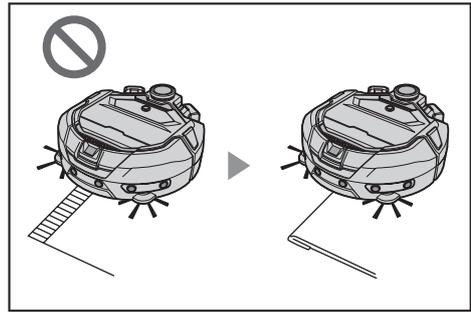
- Put away burning candles and easily breakable objects.
- For objects with casters such as a truck and a wheelchair, and light chairs that move easily, lock the casters or put them away.



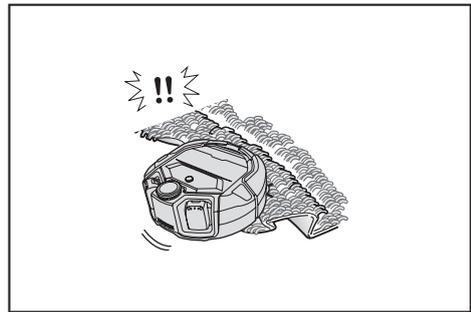
- Do not use with stray cords that may get caught or tangled. Make sure that power cables are laid alongside a wall so that the robotic cleaner will not be caught in them.



- Put away long, thin objects such as a cord and a belt.
- Put away small goods that are easily sucked in and valuable goods.
- Put away objects that block the passage of the robotic cleaner, such as a work table, a chair, a tool, and a plate.
- If animal excrement or other liquid wastes are sucked in, the robotic cleaner may malfunction. Clean them up.
- Make sure that the tassels of a mat or other coverings are tucked inside.



- Lift the hem of a curtain, etc. that hangs down on the floor. The hem may get caught in the main brush, etc.
- Put away thin, slippery rugs, such as a mat and a carpet. The rugs and side brushes may be damaged.



- Put away thin paper and cloth, plastic bags, etc.
- In a place leading to outside, close the doors to prevent the robotic cleaner from going to outside. If the doors cannot be closed, do not use the robotic cleaner. In addition, close the doors of rooms that the robotic cleaner should not enter.
- The robotic cleaner may not be able to run properly on a slippery floor surface. Check the condition of the floor before use.
- Ensure a pathway of 80 cm or more for cleaning.

## Preparation For Use

### Attaching the side brushes

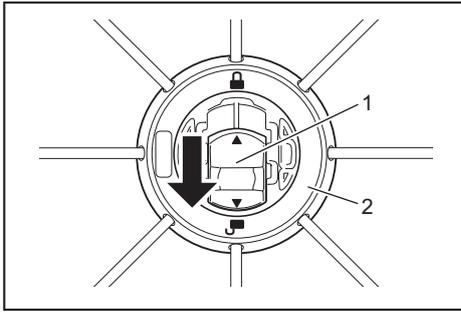
#### ⚠ WARNING

Before attaching the side brushes, make sure that the batteries are removed from the robotic cleaner.

- If a battery is left inserted in the robotic cleaner, electric shock or injury may result.

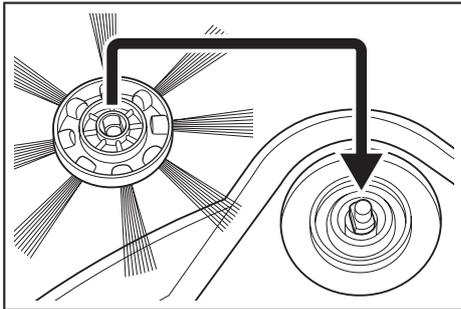
When attaching the side brushes, lay down a mat or something so that the robotic cleaner and the floor surface will not be damaged.

1. Turn the robotic cleaner upside down.
2. Slide the side brush lock lever to  (release mark).

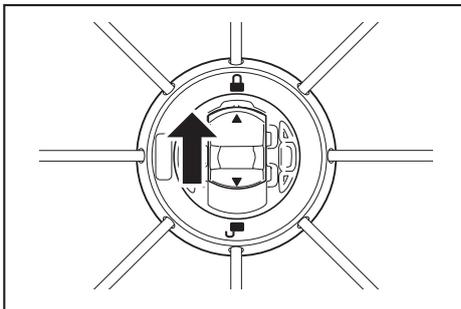


- 1. Lock lever 2. Side brush

3. Attach the side brush so that the shaft on the underside of the robotic cleaner fits the shape of the hole of the side brush.



4. Push the lock lever of the side brush toward  (lock mark) until it clicks. (Push in properly until it reaches the point shown in the drawing.)
  - After installation, lift the side brush slightly to see that it does not detach from the robotic cleaner.
  - Attach two side brushes, one on the left and one on the right.



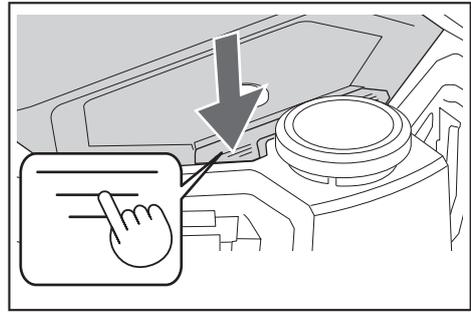
### Unpacking the dust box

#### ⚠ WARNING

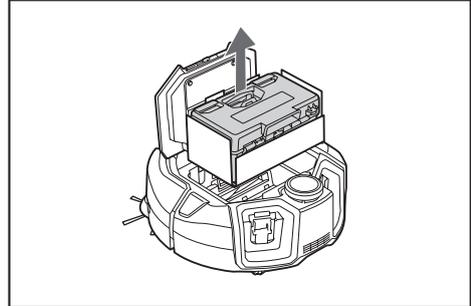
When you open the top cover of the robotic cleaner, make sure that the batteries are removed from the robotic cleaner.

- If a battery is left inserted in the robotic cleaner, electric shock or injury may result.

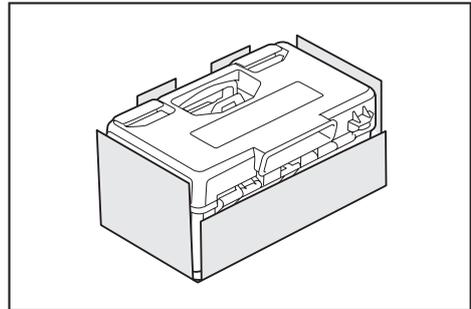
1. Press the open button () to open the top cover. Be careful because the top cover opens quickly.



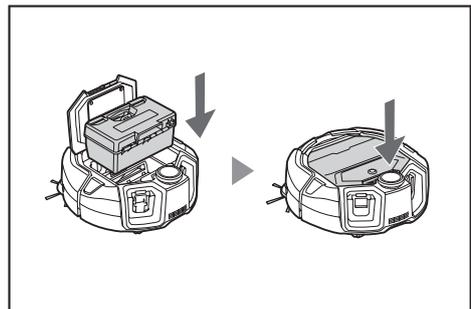
2. Remove the dust box.



3. Remove the packing material.

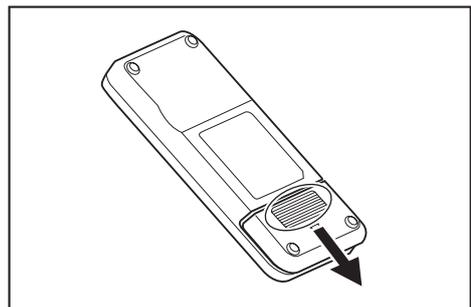


4. Put the dust box back in the robotic cleaner and push the top cover to close until it clicks. When closing the top cover, be careful not to get your fingers caught.

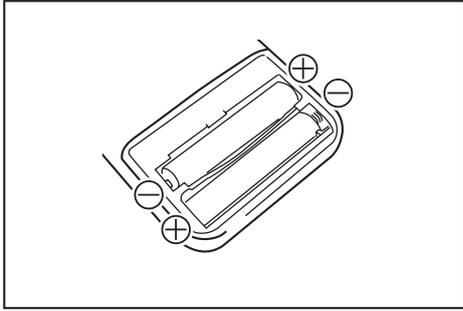


### Installing batteries in the remote control

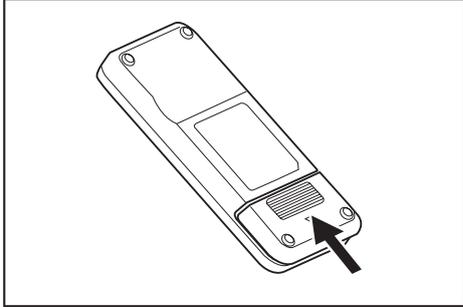
1. While pressing  on the lid of the remote control, slide the lid in the direction shown by the arrow and remove it.



2. Insert the batteries in the correct direction.



3. Attach the lid.

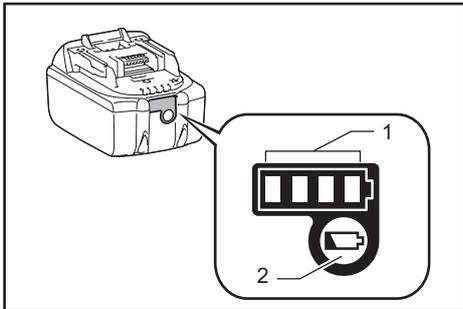


**NOTICE**

- Be sure to align the polarity of the batteries correctly.
- Two AAA dry batteries are required. The two batteries should be new and of the same type.
- Take out the batteries when you do not use them for a long period of time in order to prevent failure due to liquid leakage and rupture.
- If the solution in a battery gets into your eyes or contacts your skin or clothing, wash it away immediately with clean water.
- Do not subject the remote control to shocks or allow it to get wet with water. Do not place it in a place under direct sunlight or near a space heater, etc. Doing so can cause failure.

**Indicating the remaining battery capacity**

Only for battery cartridges with the indicator



- 1. Indicator lamps 2. Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for a few seconds.

| Indicator lamps |     |          | Remaining capacity                  |
|-----------------|-----|----------|-------------------------------------|
| Lighted         | Off | Blinking |                                     |
| ■ ■ ■ ■         |     |          | 75 % to 100 %                       |
| ■ ■ ■ □         |     |          | 50 % to 75 %                        |
| ■ ■ □ □         |     |          | 25 % to 50 %                        |
| ■ □ □ □         |     |          | 0 % to 25 %                         |
| ▣ □ □ □         |     |          | Charge the battery.                 |
| ■ ■ □ □         |     |          | The battery may have malfunctioned. |
| □ □ ■ ■         |     |          |                                     |

**NOTICE**

- Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.
- The first (far left) indicator lamp will blink when the battery protection system works.

**Installing and removing batteries (sold separately)**

- The robotic cleaner works even with only one battery.
- With two batteries, it can be run for a long period of time.

**How to install**

**⚠ WARNING**

A battery should be securely inserted as far as it will go. When the red part in the upper section of the button is visible, it means that locking is not complete. Insert a battery fully until the red part becomes invisible.

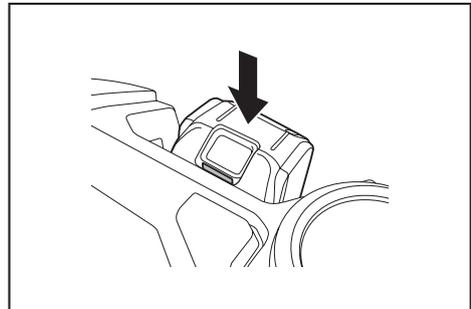
- If the insertion is not sufficient, the battery may come out, causing an accident or failure.

**Do not install the battery cartridge forcibly.**

- If the cartridge does not slide in easily, it is not being inserted correctly.

**Hold the tool and the battery cartridge firmly when installing the battery cartridge.**

Insert a battery securely along the groove of the robotic cleaner as far as it will go. As the battery is locked completely, it clicks.



**NOTICE**

When installing a battery, be careful not to get your fingers caught in between the robotic cleaner and the battery.

**How to remove**

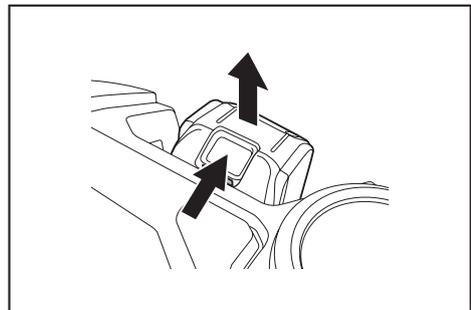
**⚠ WARNING**

When you remove a battery, be sure that the power of the robotic cleaner is off. Do not remove a battery when the robotic cleaner is in the stand-by state. (See "Turning the power on/off" on page 15.)

- Removing a battery with the power on can cause failure.

**Hold the tool and the battery cartridge firmly when removing the battery cartridge.**

Lift the battery while operating the button of the battery.

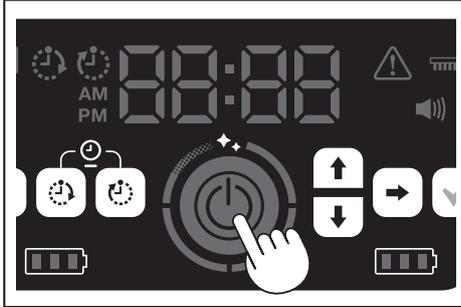


## Turning the power on/off

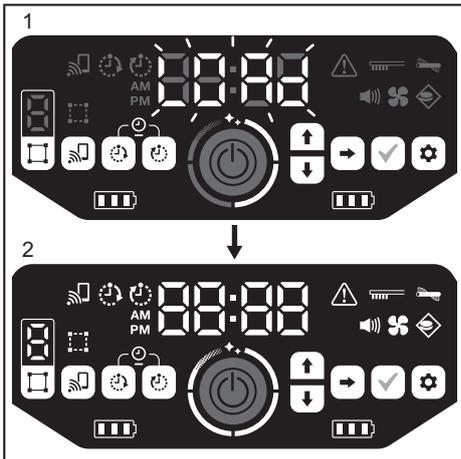
- As the power is turned on, the robotic cleaner enters the stand-by state. In the stand-by state, it is possible to do cleaning, change settings, and establish connection to the app.
- If the robotic cleaner, remote control, or the app have not been operated for approximately 30 minutes in the standby state, the power will shut off. (If the smartphone connection lamp is lit in the above case, the power will not shut off.)
- Turn off the power at the end of operation and at the time of storage.
- When the robotic cleaner is in the sleep state, communication from the app is not possible.
- When the power of the robotic cleaner is off, the robotic cleaner cannot be operated from the remote control or the app.

### How to turn on the power

- With the power of the robotic cleaner off, press the start/stop button of the robotic cleaner.



- Wait without operating until the time is displayed. When the robotic cleaner is used for the first time, time setting is necessary first. Set the time of day. (See page 22.)



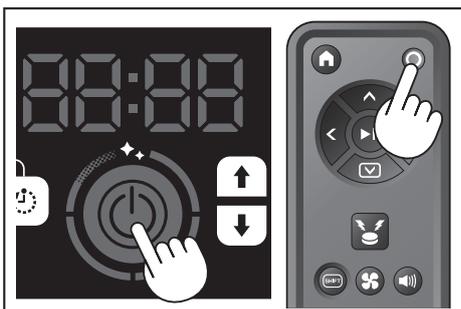
- [LOAD] flashes in the time indicator, and the four clean level lamps turn on and off clockwise. The switching speed of the lamps increases as the startup progresses.
- After all the lamps are lit, the robotic cleaner startup is complete (standby state).

### How to turn off the power

Hold down the start/stop button of the robotic cleaner, or press the power OFF button of the remote control.

As the power is turned off completely, the display and lamps of the robotic cleaner turn off. Therefore, wait without removing the batteries.

When finished using the robotic cleaner, or when storing it, turn off the power and remove the batteries.



## NOTICE

Do not remove the batteries before the power is turned off completely (before the display and lamps turn off). The saved map information and cleaning history may be deleted.

### How to read the battery power lamp of the robotic cleaner

| State of the battery power lamp | Remaining battery capacity                    |
|---------------------------------|---|
|                                 | About 60 % or more                            |
|                                 | About 20 to 60 %                              |
|                                 | Less than about 20 %                          |
|                                 | No remaining capacity<br>No battery installed |

The remaining capacity is a rough indication and can vary depending on the operating conditions, room temperature, battery type, and battery power consumption, etc.

## What to set up before cleaning

Before cleaning, make settings for the robotic cleaner as required.

### Switching the vacuum fan on/off

In the case of cleaning of visible large dust only, turning off the vacuum fan allows the running time to be longer. For how to switch the vacuum fan on/off, refer to page 18.

### Switching the sound setting on/off

When the sound setting of the robotic cleaner is off, the robotic cleaner cleans silently. (See page 22.)

### Setting the boundary-sensing feature

With the boundary-sensing feature on, the robotic cleaner recognizes magnetic boundary line set up on a floor surface. Magnetic boundary line serves as a boundary line, and the robotic cleaner does not go beyond the magnetic boundary line; that is, the running area can be limited. For how to set the boundary-sensing feature, refer to page 20.

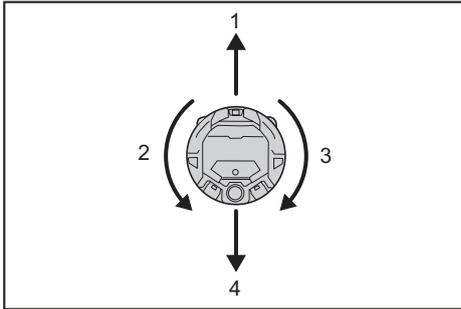
# How To Use

## Cleaning

- The robotic cleaner works in three ways:
  - free cleaning mode, which does not require map registration,
  - mapping cleaning mode (see "Cleaning a room with mapping" on this page), which requires room information to be registered for cleaning, and
  - manual operation using the remote control.
- Free cleaning mode is recommended for cleaning in various rooms or in an environment that involves frequent, significant layout changes.
- For a room that cannot be adequately lit at the time of mapping, use free cleaning mode.
- If the remaining battery charge of the robotic cleaner gets low, the robotic cleaner suspends cleaning and returns to the location cleaning started.

### Cleaning a room with the remote control

The robotic cleaner can be operated for cleaning by pressing the action buttons of the remote control.



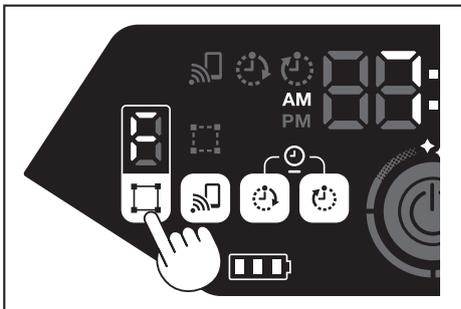
1. Move forward: Press
2. Turn left: Press
3. Turn right: Press
4. Move backward: While holding down , press

### NOTICE

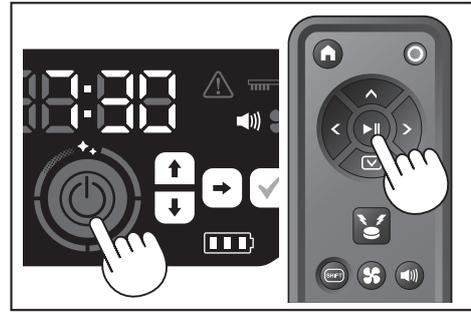
- Do not operate the robotic cleaner in a narrow or uneven place.
- When operating the robotic cleaner with the remote control, be careful to avoid collisions or falls.
- If there is an obstacle in front of the moving robotic cleaner, the robotic cleaner reverses to avoid it.

### Cleaning a room without mapping (free cleaning mode)

1. Place the robotic cleaner beside a wall of the place that you want to clean.
2. Put the robotic cleaner into the stand-by state. (See page 15.)
3. Press the mode switch button to select [F] (free cleaning mode). Each time the mode switch button is pressed, the displayed character is changed in the order "F, 1, 2, 3, 4, 5, F, ..." (each number represents a room number).



4. As the start/stop button is pressed, the robotic cleaner produces a sound and starts cleaning. (When the sound setting is on)



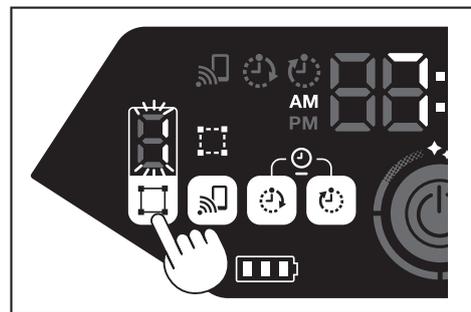
5. As the robotic cleaner determines that cleaning is finished, the robotic cleaner returns back to the place from which it started cleaning.
  - When the sound setting is on, completion of cleaning is informed with a sound. (See page 22.)
  - The robotic cleaner calculates its own position using the LiDAR sensor and camera sensor. For the camera sensor to function fully, it is recommended to make the room brighter for cleaning. If the room is dark, the robotic cleaner may not be able to clean some area or may fail to return back to the place from which it started cleaning.

## Cleaning a room with mapping

### Registering room information (mapping)

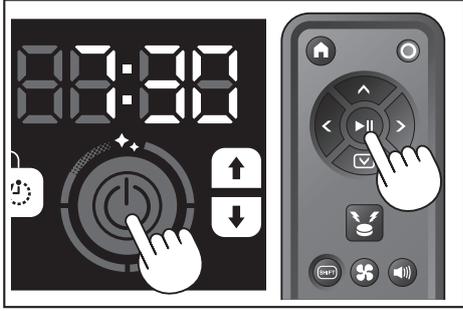
- When the rooms to clean are already determined, registering room information (registration of mapping information) in the robotic cleaner allows the cleaning to be more efficient. After completion of mapping, it becomes possible to check the cleaning result and set prohibited areas from the app.
- The number of rooms that can be registered is five.
- Make the room brighter during mapping.
- Keep away from the robotic cleaner during mapping.
- Do not pick up the robotic cleaner during mapping.
- The mapping fails if there are no obstacles with a height of 25 cm or more within a radius of about 11 m of the robotic cleaner. In this case, cleaning in free cleaning mode is recommended. (See "Cleaning a room without mapping (free cleaning mode)" on this page)

1. Place the robotic cleaner in the place from which you want the robotic cleaner to start cleaning.
  - This starting location will be a location for cleaning to start.
  - It is recommended to set the starting location near a wall, a corner of the room, or other point that is easy to identify.
  - Keep a distance of about 30 cm from a wall.
2. Put the robotic cleaner into the stand-by state. (See page 15.)
3. Select an unmapped room number by pressing the mode switch button.
  - [F] is free cleaning mode. (See "Cleaning a room without mapping (free cleaning mode)" on this page.)
  - Unmapped room numbers will be displayed blinking, and the room register lamp will be on.
  - Mapped room numbers will be displayed lit, and the room register lamp will be off.



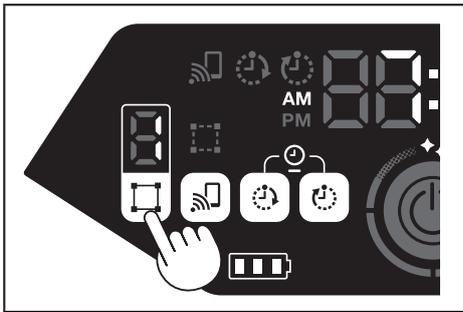
4. As the start/stop button is pressed, the robotic cleaner starts mapping. After mapping, the robotic cleaner goes back to where mapping began (starting point of cleaning) and then completes room registration.
  - Upon completion of mapping, the robotic cleaner enters the stand-by state. It may take time for the robot cleaner to enter the stand-by state. Do not turn off the power in this case.
  - When the sound setting is on, completion of mapping is informed with a sound.

- If the mapping is unsuccessful, add the mapping information manually using the app. (See page 39.)

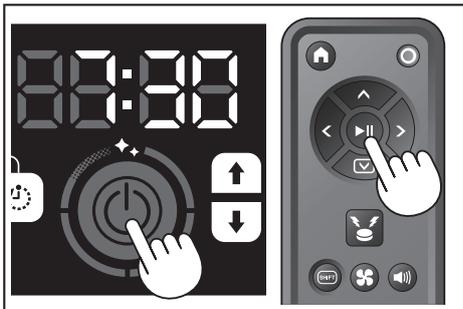


## Cleaning mapped rooms

- In mapping cleaning mode, the robotic cleaner works so that mapped rooms are cleaned more efficiently.
  - The use of mapping cleaning mode requires mapping information to be registered. (See "Cleaning a room with mapping" on page 16.)
1. Place the robotic cleaner at the starting point for mapping.  
Place the robotic cleaner with the same orientation as at the start of mapping as much as possible. This allows the robotic cleaner to start cleaning more smoothly.
  2. Put the robotic cleaner into the stand-by state. (See page 15.)
  3. Select a mapped room number by pressing the mode switch button.
    - [F] is free cleaning mode. (See page 16.)
    - Unmapped room numbers will be displayed blinking, and the room register lamp will be on.
    - Mapped room numbers will be displayed lit, and the room register lamp will be off.



4. Press the start/stop button to begin cleaning.



5. As cleaning ends, the robotic cleaner goes back to where it started cleaning.
  - The clean level lamp indicates what proportion of the whole room has been cleaned.
  - When the sound setting is on, completion of cleaning is informed with a sound. (See page 22.)
  - If the target cleaning area is too wide to clean all at once, we recommend using the [Continuous Cleaning] setting. (See page 42.)

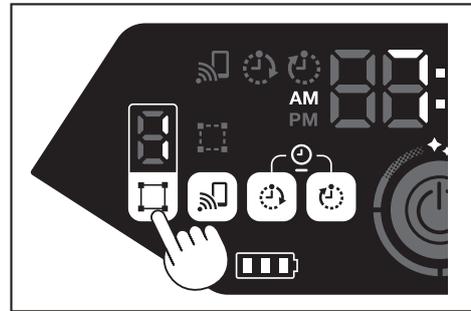
## How to read the clean level lamp

The clean level lamp informs you of the percentage cleaned area in the surface area of the mapped room.

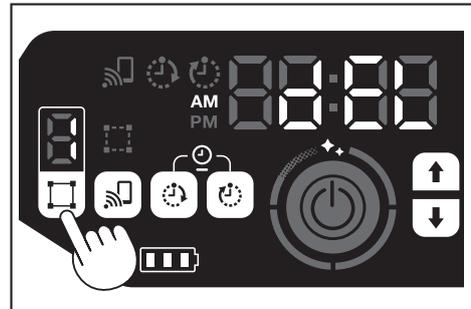
| Clean level lamp status | Percentage of completed cleaning area |
|-------------------------|---------------------------------------|
|                         | 90 % or more                          |
|                         | 75 % to less than 90 %                |
|                         | 50 % to less than 75 %                |
|                         | 25 % to less than 50 %                |

## Deleting mapping information

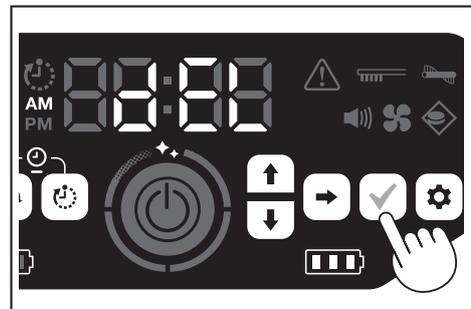
1. Put the robotic cleaner into the stand-by state. (See page 15.)
2. Select the room number for which you want to delete mapping information by pressing the mode switch button.
  - Each time the mode switch button is pressed, the room number is changed in the order "F, 1, 2, 3, 4, 5, F, ..." (For [F], deletion of mapping information is not possible since [F] is free cleaning mode.)
  - A mapped room number will illuminate on the display.



3. When the mode switch button is held down, [dEL] is shown for about 10 seconds in the time indicator.



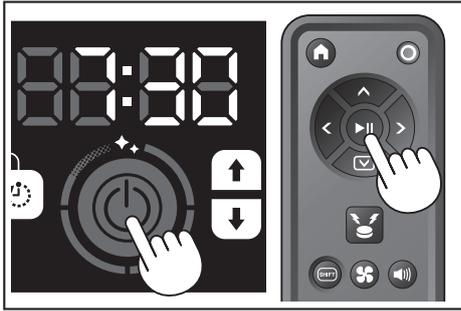
4. Press the confirmation button while [dEL] is shown.



- If the confirmation button is not pressed while [dEL] is shown, the robotic cleaner goes back to the stand-by state.
- When mapping information is deleted, the selected room number will blink and become unregistered.

## Suspending or ending cleaning

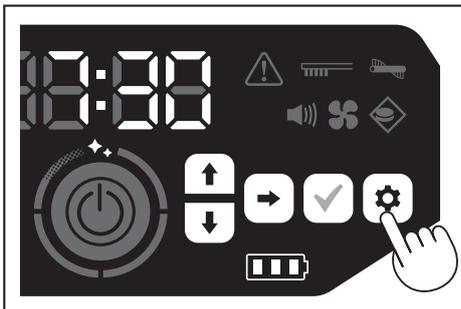
1. If the start/stop button is pressed during operation, the robotic cleaner comes to a temporary stop.  
If the start/stop button is pressed again, the robotic cleaner starts operating again in the same operating mode as before stopping.



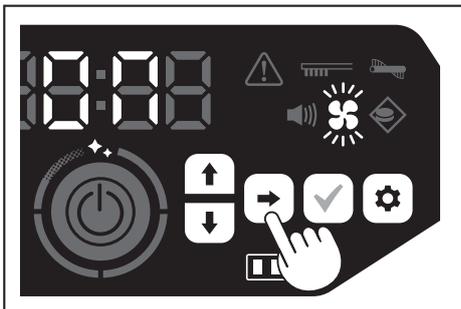
2. To quit cleaning during cleaning, press the starting point button of the remote control when the robotic cleaner is in operation or in a temporarily stopped state. The robotic cleaner goes back to where it started cleaning and then enters the stand-by state.
  - To quit cleaning immediately, press the mode switch button while the robotic cleaner is in a temporarily stopped state. Then, the robotic cleaner enters the stand-by state.
  - When cleaning is ended without going back to the starting point, the cleaning history may not be saved correctly.

## Switching the vacuum fan on/off

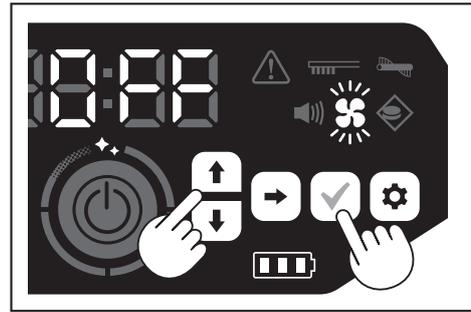
- When cleaning visible, large dust only, turning off the vacuum fan makes the running time about twice as long.
  - The vacuum fan can be set also from the remote control or the app. (See "Switching the vacuum fan on/off" on this page and "Operating the robotic cleaner with the app" on page 36.)
1. With the robotic cleaner set in the stand-by state, press the setting button to enter the setting selection mode.



2. Press the next button to make the vacuum fan lamp blink.



3. The up/down button can be used to switch between On and Off. After selecting On or Off, press the confirmation button to finalize the setting.
  - On: Vacuum fan lamp turns on.
  - Off: Vacuum fan lamp turns off.



### NOTICE

With the vacuum fan setting off, the filter care lamp does not light up even when the filter is clogged.

## Switching the vacuum fan on/off with the remote control

With the robotic cleaner set in the stand-by state, the vacuum fan can be switched on or off by pressing the vacuum fan ON/OFF button of the remote control. Even during cleaning, the fan can be switched on or off from the remote control.

## Using the location beacon function

- The robotic cleaner notifies of its own location with a buzzer sound and light. This function is used when the robotic cleaner cannot be found because it is cleaning a wide area or has entered a place where it cannot be found.
- As the location beacon buzzer/light button of the remote control is pressed, a buzzer sounds for about 10 seconds, with the position LED blinking.
- To stop the location beacon function halfway, press the location beacon buzzer/light button again.



### NOTICE

- The location beacon function cannot be used in the following cases.
  - When the power of the robotic cleaner is off.
  - When no battery capacity remains.
  - When the robotic cleaner is in a position where radio waves do not reach.
  - When the battery in the remote control is exhausted.
- Although the location beacon function can be used also from the app, your smartphone and the robotic cleaner must be connected in advance. When the robotic cleaner is in the sleep state, the function cannot be used from the app.

## Using the ON timer/OFF timer

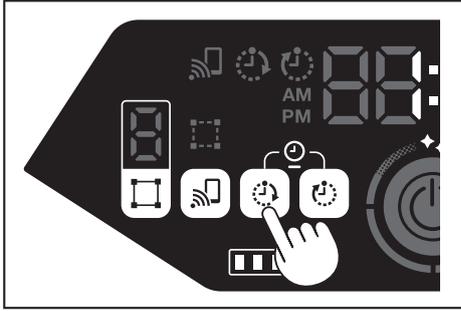
The ON timer and OFF timer can be used at the same time.

### Setting the ON timer

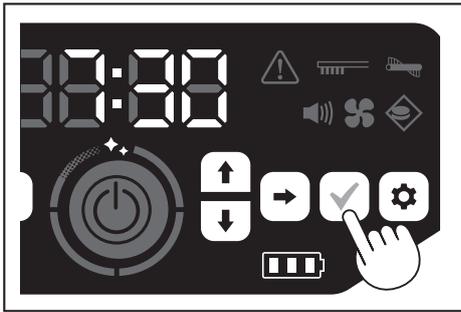
When a preselected time comes, the robotic cleaner starts cleaning in the selected cleaning mode. Before setting the timer, set the time of day. (See page 22.)

1. Put the robotic cleaner into the stand-by state. (See page 15.)

- Hold down the ON timer button to change the time setting of the ON timer.
  - The changing procedure is the same as the time setting procedure (See page 22).
  - The ON timer can be configured in increments of 10 minutes.

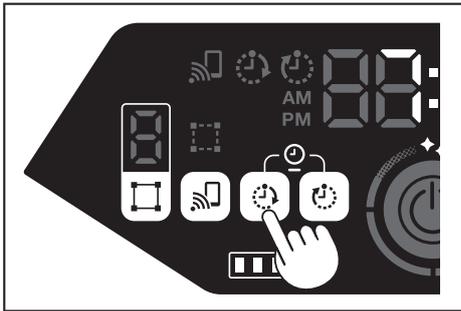


- Press the confirmation button to finalize the time of day.

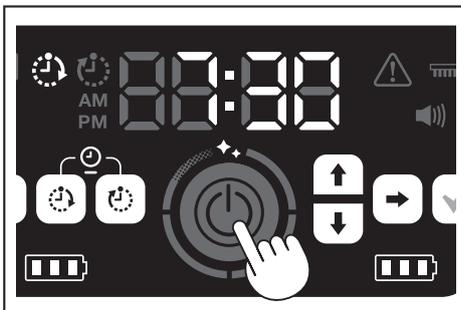


### Using the ON timer

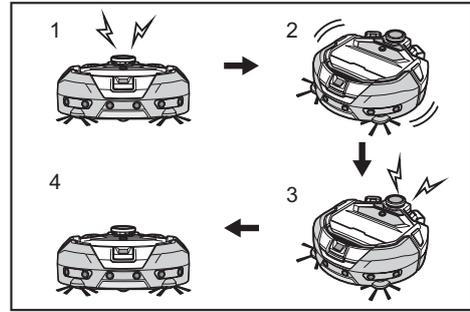
- Press the ON timer button to enable the ON timer function. The ON timer lamp lights up and the setting time blinks twice.
  - To cancel the ON timer function, press the ON timer button again to turn off the ON timer lamp.



- Select the operating mode of the robotic cleaner. (See pages 16 and 17.)
- As the start/stop button is pressed, cleaning by the ON timer function is reserved. (Sleep state)  
To cancel the ON timer function in the sleep state, press the start/stop button again to put the robotic cleaner into the stand-by state. To see the setting time after reservation, press any button except the start/stop button. Then, the setting time will light up for 3 seconds.



- Example of use: Make the robotic cleaner clean automatically in the morning. (Set the ON timer at 7:30. and the OFF timer at 9:00.)



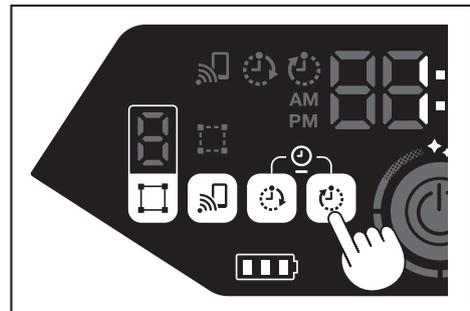
- Starts up at 7:30. (ON timer)
- Cleaning
- Finishes cleaning at 9:00. (OFF timer)
- Returns to the starting point.

- During adjustment of the hours/minutes, holding down the up/down button results in the hours/minutes changing quickly.
- When the time setting of the timer is already completed, you only have to follow the procedure for "Using the ON timer" on this page.

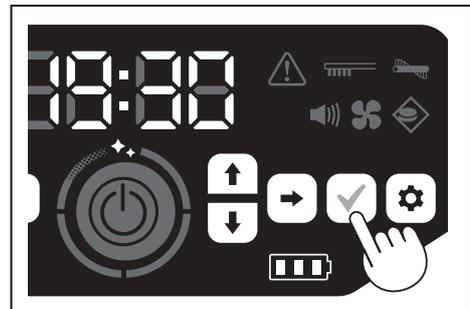
### Setting the OFF timer

As a preselected time comes after the start of cleaning, the robotic cleaner ends cleaning and goes back to the starting point. Before setting the timer, set the time of day. (See page 22.)

- Put the robotic cleaner into the stand-by state. (See page 15.)
- Hold down the OFF timer button to change the time setting of the OFF timer.
  - The changing procedure is the same as the time setting procedure (See page 22).
  - The OFF timer can be configured in increments of 10 minutes.



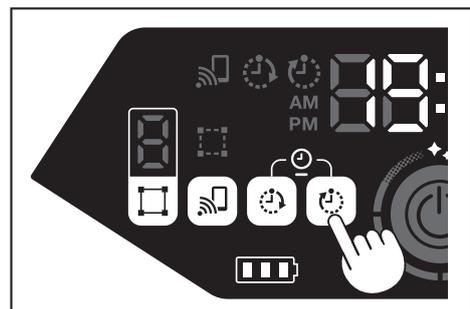
- Press the confirmation button to finalize the time of day.



### Using the OFF timer

Press the OFF timer button to enable the OFF timer function. The OFF timer lamp lights up and the setting time blinks twice.

- To immediately start cleaning and use the OFF timer, select the cleaning mode and start cleaning.
- To use the OFF timer in combination with the ON timer, refer to page 18.
- To cancel the OFF timer, press the OFF timer button again when the robotic cleaner is in the stand-by state.

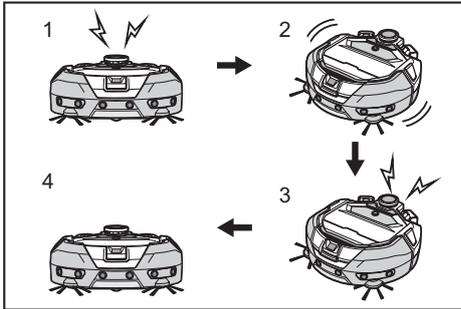


### NOTICE

- The reserved information is canceled when the power is turned off or the remaining battery capacity is completely lost.
- When the batteries are low, the robotic cleaner cannot wait for operation by ON timer reservation. For operation by ON timer reservation, it is recommended to bring the batteries to full charge.
- Operation by ON timer reservation is not possible when the power is turned off.
- When the ON timer is set, the operatable time will be somewhat reduced because the robotic cleaner consumes the battery during the sleep state.

## NOTICE

- The OFF timer setting is disabled when the power is turned off or the remaining battery capacity is completely lost.
- When the remaining battery capacity is low, the robotic cleaner may stop operating before the setting time of the OFF timer.
- Depending on the cleaning environment, it can take time for the robotic cleaner to return back to the starting point. In this case, set an earlier time for the OFF timer.
- Example of use: Make the robotic cleaner clean automatically only for 30 minutes in the evening. (Set the ON timer at 19:00. and the OFF timer at 19:30.)



- 1. Starts up at 19:00. (ON timer) 2. Cleaning 3. Finishes cleaning at 19:30. (OFF timer) 4. Returns to the starting point.

- When adjusting the hours/minutes, holding down the up/down button results in the hours/minutes changing quickly.
- When the time setting of the timer is already completed, you only have to follow the procedure for "Using the OFF timer" on page 19.

## Controlling the cleaning range

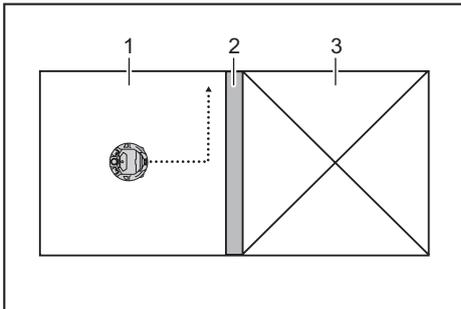
### ⚠ WARNING

**Do not use magnetic boundary line as a boundary line of an area where an accident can possibly happen due to intrusion or fall.**

- Doing so can cause an accident or injury due to intrusion or fall of the robotic cleaner.

**For an area with a risk of intrusion or fall of the robotic cleaner, place an object serving as a wall with a height of 25 cm or more (an object that does not move or fall over when hit by the robotic cleaner) on a flat surface.**

- The cleaning range can be limited by attaching magnetic boundary line (sold separately) on a floor surface to make a boundary line. The robotic cleaner detects and avoids magnetic boundary line.
- Set the cleaning range for the robotic cleaner in the following cases.

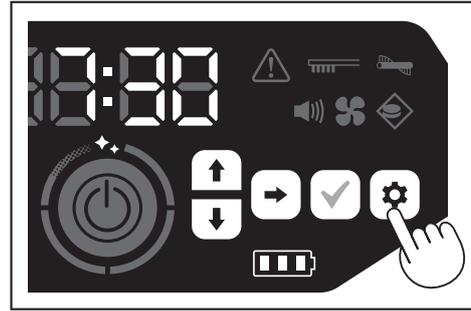


- 1. Cleaning area 2. Magnetic boundary line 3. Area in which you do not want the robotic cleaner to run

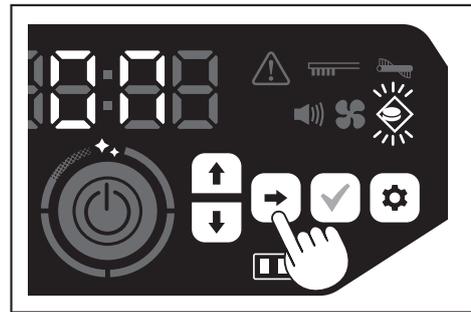
- When you want to divide a space that is too large to clean at one time into multiple areas for cleaning.
- When there is an area that you do not want the robotic cleaner to enter.
- When there is an area that the robotic cleaner can enter but cannot leave.
- When the robotic cleaner climbs over a low step but falls from it.
- When the robotic cleaner gets caught in the middle of a step.

1. Lay magnetic boundary line with the following points in mind.
  - Be sure to lay the magnetic boundary line without any gap between it and the floor surface.
  - Lay the magnetic boundary line about 15 cm away from the area that you do not want the robotic cleaner to enter.
  - Place the magnetic boundary line on a floor surface that is as flat as possible so that it does not become unsteady. Not doing so can cause the robotic cleaner to displace the line and fail to recognize the line correctly.
  - The robotic cleaner may not recognize a magnetic boundary line placed on a concave or stepped surface.
  - Make sure that the magnetic boundary line is a genuine product. If it is not a genuine product, performance and safety cannot be guaranteed.

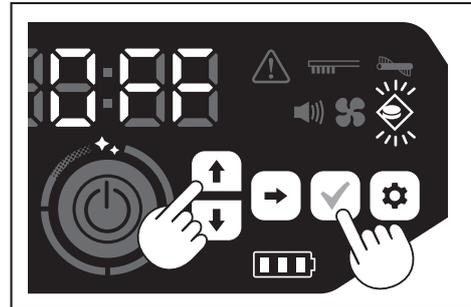
- Some floor surfaces may become dirty. Check the suitability properly before use.
  - Depending on the floor surface and operating environment, the magnet sensor for boundary sensing is likely to fail to recognize magnetic boundary line, or magnetic boundary line is likely to become dirty or torn. Check the suitability properly before use.
2. With the robotic cleaner set in the stand-by state, press the setting button to enter the setting selection mode.



3. Press the next button to make the boundary-sensing lamp blink.



4. The up/down button can be used to switch between On and Off. After selecting On or Off, press the confirmation button to finalize the setting.
  - On: Boundary-sensing lamp turns on.
  - Off: Boundary-sensing lamp turns off.



## NOTICE

- The boundary-sensing feature is based on recognition of magnetic boundary line by a magnetic sensor. If there is tearing, lifting, etc. on the magnetic boundary line, the line may not be recognized.
- Periodically check for tears, positional deviation, and other problems of magnetic boundary line. If there is a problem such as tears, replace the line with new line.
- The boundary-sensing feature may activate near a magnetic object. When you do not want the boundary-sensing feature to work, disable the boundary-sensing feature.
- In a place where people and things come and go frequently, magnetic boundary line is stepped on and damaged. If the line deteriorates, replace it with a new line.
- Depending on the floor material, it is recommend to paste the magnetic boundary line onto the floor because the robotic cleaner may move the magnetic boundary line when detecting it.
- The magnetic boundary line can be cut with scissors.

## How to attach, remove, and use separately sold items

Refer to the pages listed below for how to attach, remove, and use separately sold items.

| Separately sold items         | Reference page | Remarks   |
|-------------------------------|----------------|---|
| Magnetic boundary line        | 20             | –   |
| Main brush<br>Soft main brush | 25             | The handling procedure is the same as for the supplied main brush.                    |
| HEPA filter                   | 24             | Same as the supplied HEPA filter.   |
| Side brush<br>Soft side brush | 25             | The handling procedure is the same as for the supplied side brushes.                  |
| Battery                       | 14             | –   |
| Main brush cover              | 25             | Same as the supplied main brush cover.  |
| Bumper cushion                | –              | An anti-scratch cushion to be attached to the robotic cleaner to protect the objects. |

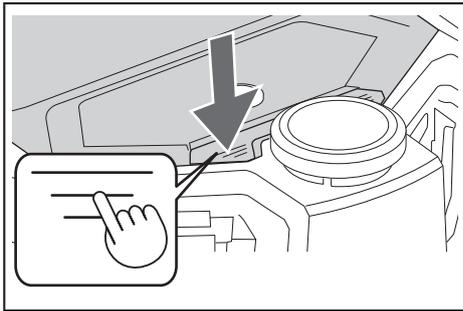
## How to dispose of garbage

### ⚠ WARNING

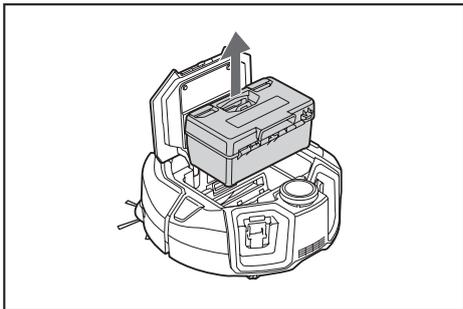
Be sure to turn off the power and remove the batteries from the robotic cleaner before opening the top cover of the robotic cleaner.

- If a battery is left inserted in the robotic cleaner, electric shock or injury may result.

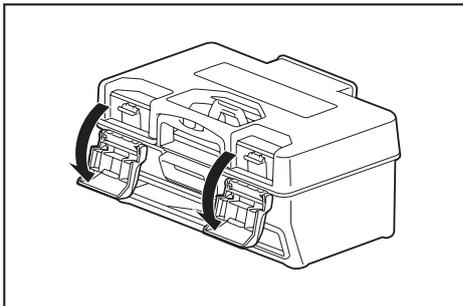
1. Pressing the open button (  ) opens the top cover. Be careful because the top cover opens quickly.



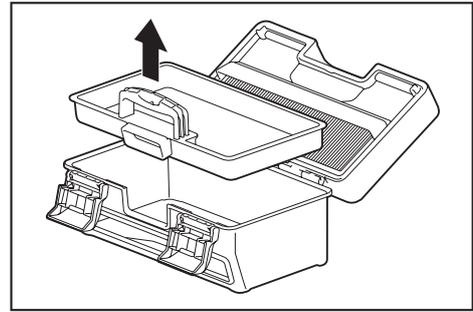
2. Remove the dust box. Do not hold the dust box with its opening facing downward. Doing so can cause dust to fall from the opening.



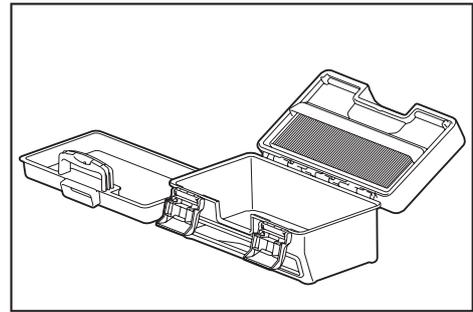
3. Release the two locked parts to open the top cover.



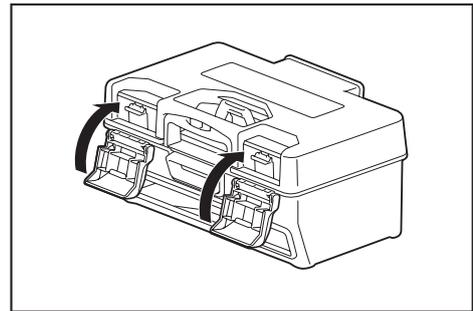
4. Take out the dust case. Be careful not to open the top cover on the filter side.



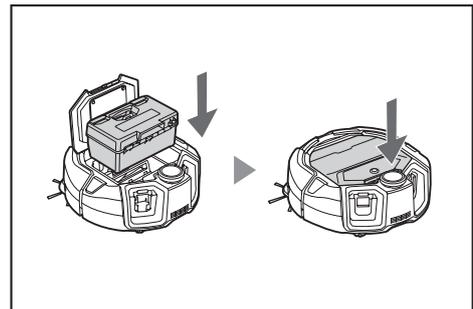
5. Dispose of garbage in the dust case and dust box, then remove dirt and dust in the filter. If the filter is too dirty, remove the filter and wash it with water. (See page 24.)



6. Put the dust case back in the dust box. Then, close the top cover and lock the two locking parts.



7. Put the dust box back in the robotic cleaner and push the top cover to close until it clicks. When closing the top cover, be careful not to get your fingers caught.



### NOTICE

- At the end of every cleaning, discard the garbage and care for the filter. If you continue cleaning without discarding garbage, the filter will get clogged and the suction power decreases.
- Correctly attach the dust box and the filter.

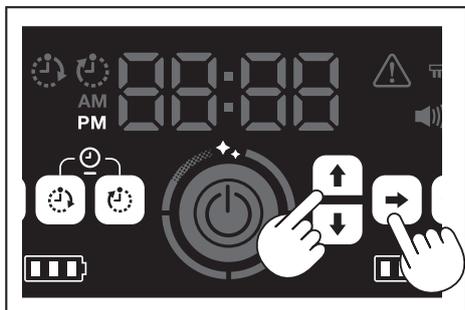
# Setting the Robotic Cleaner

## Setting the time of day

When using for the first time, start by setting the time of day.

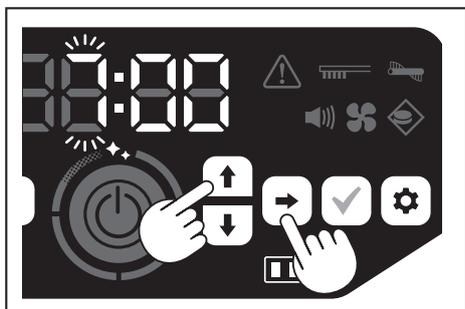
- Using the up/down buttons, select the display format from [AM], [PM], or no distinction (in 24-hour notation), then press the next button to accept the selection.

As the next button is pressed, the hours will blink.

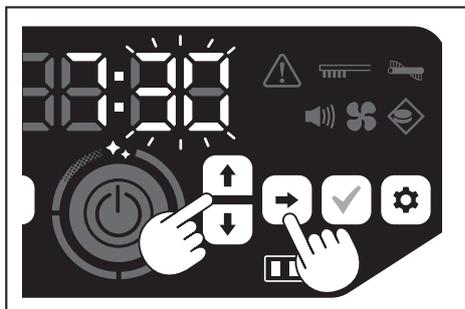


- Select the hours using the up/down buttons, then press the next button to accept the selection.

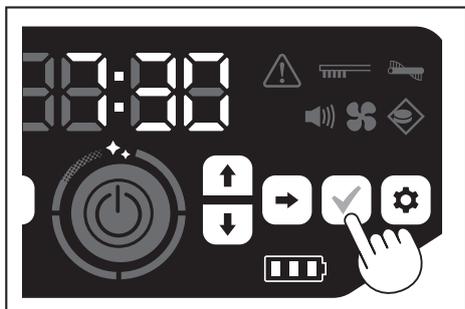
As the next button is pressed, the minutes will blink.



- Select the minutes using the up/down buttons, then press the next button to accept the selection.



- Press the confirmation button to finalize the time of day.



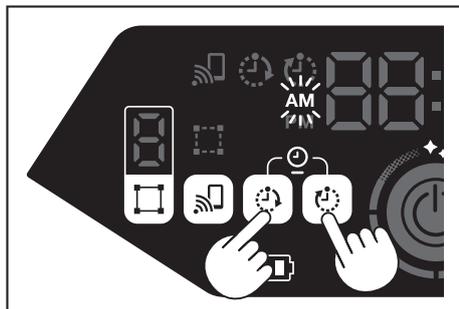
## Setting the time of day again

When the robotic cleaner is not used for a long period of time, the time setting will be inaccurate or reset.

When you connect the robotic cleaner to a smartphone using the app, the time of day on the smartphone is automatically set on the robotic cleaner.

If you want to set the time of day manually, perform the following procedure.

- Put the robotic cleaner into the stand-by state. (See page 15.)
- Hold down the ON timer button and OFF timer button simultaneously to make the time format [AM] or [PM] blink (does not blink when the previous setting was 24-hour notation).



- Set the time of day by following the "Setting the time of day" on this page from step 1.

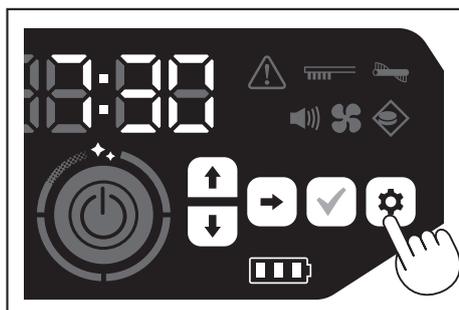
## Setting up Wi-Fi® (robotic cleaner and smartphone)

- To operate the robotic cleaner from the app, make Wi-Fi® settings for the app and robotic cleaner. (See page 33.)
- Install the app in your smartphone in advance.
- The robotic cleaner serves as the access point for the smartphone. When a smartphone is connected to the robotic cleaner, the smartphone will not be connected to any network other than the robotic cleaner.
- To connect a smartphone to the robotic cleaner, press the smartphone connection button to enable the Wi-Fi.
- When not using Wi-Fi, press the smartphone connection button to turn off the smartphone connection lamp.
- Multiple robotic cleaner can be managed with one app. In this case, establish wireless connection with the app one by one.

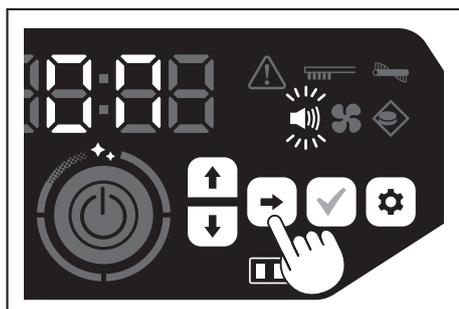
## Making a sound setting

- You can select whether the robotic cleaner makes sounds or not.
- This sound setting is also possible from the remote control.

- With the robotic cleaner set in the stand-by state, press the setting button to enter the setting selection mode.



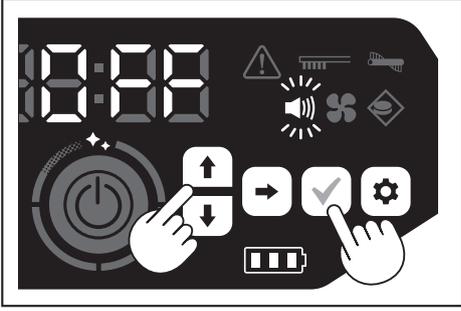
- Press the next button to make the sound lamp blink.



### NOTICE

- During adjustment of the hours/minutes, holding down the up/down button results in the hours/minutes changing quickly.
- When the robotic cleaner is not used for a long period of time, the time setting may become inaccurate due to the storage temperature or may be reset if the built-in battery power loses its charge.

- The up/down buttons can be used to switch between On and Off. After selecting On or Off, press the confirmation button to finalize the selection.
  - On: Sound lamp turns on (sound enabled).
  - Off: Sound lamp turns off (sound disabled).



#### NOTICE

Even if the sound setting is off, the robotic cleaner can sound to notify of an error, etc.

### Switching the sound setting on and off with the remote control

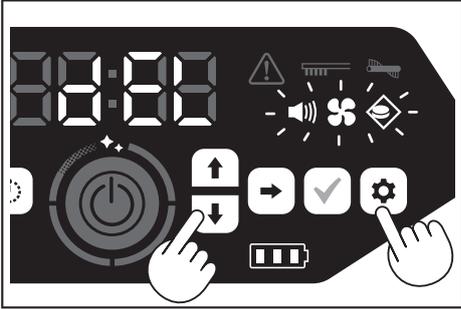
With the robotic cleaner set in the stand-by state, pressing the sound ON/OFF button of the remote control allows the sound setting to be switched between on and off.

The sound setting can be switched on and off even during cleaning if it is set from the remote control.

### Resetting the settings

You can reset the settings of the robotic cleaner to the factory defaults.

- Put the robotic cleaner into the stand-by state. (See page 15.)
- Hold down the down button and the setting button. [dEL] is displayed on the time indicator, and the icons and lamps other than the error lamp blink.



- Press the confirmation button while [dEL] is displayed (about 10 seconds).
  - If the confirmation button is not pressed while [dEL] is displayed, the robotic cleaner goes back to the stand-by state.
  - When the robotic cleaner is executing the reset process, the icons and lamps other than the battery power lamp turn off. Although the robotic cleaner will not work at this time even if you press the buttons on the operation panel, do not touch the buttons. In addition, do not remove the batteries.

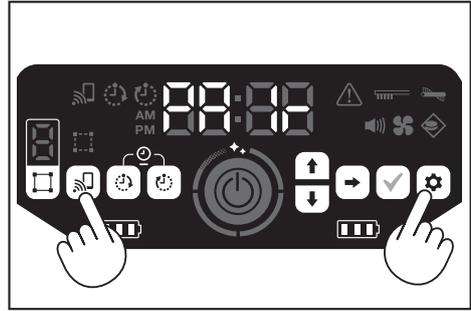


- Upon completion of the reset process, a restart is performed and then the time-of-day setting screen appears.

### Pairing the robotic cleaner and the remote control

When the remote control is replaced with a new one, establish a pairing of the robotic cleaner and the remote control.

- Hold down the smartphone connection button and the setting button simultaneously to make [PAIr] appear on the time indicator. [PAIr] is displayed for 10 seconds.



- During the period when [PAIr] is displayed, simultaneously press the action button (down) and the sound ON/OFF button of the remote control. When pairing is successful, the robotic cleaner issues two short beeps and returns to the standby state.



#### NOTICE

- If pairing fails, an error sound is made.
- If the robotic cleaner cannot receive a signal from the remote control during the period when [PAIr] is displayed, the robotic cleaner goes back to the stand-by state.

## Care

### ⚠ WARNING

Be sure to turn off the power and remove the batteries from the robotic cleaner before caring for the robotic cleaner.

- If a battery is left inserted in the robotic cleaner, electric shock or injury may result.

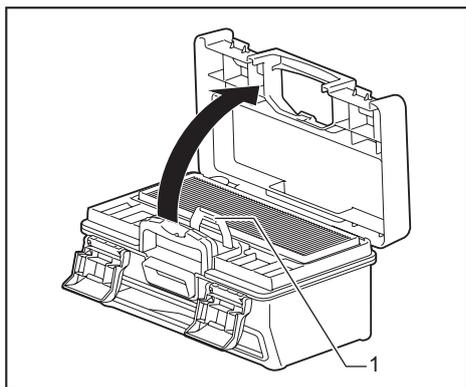
### ⚠ CAUTION

To keep optimum performance, periodically perform the maintenance mentioned in this section. If there is a problem, stop using the robotic cleaner and ask the shop from which you made a purchase or our sales office to do inspection and repair.

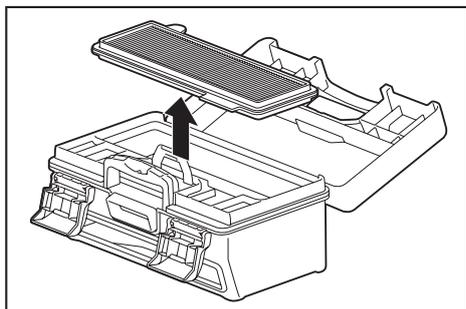
## Maintenance

### Caring for and replacing the dust box and the filter

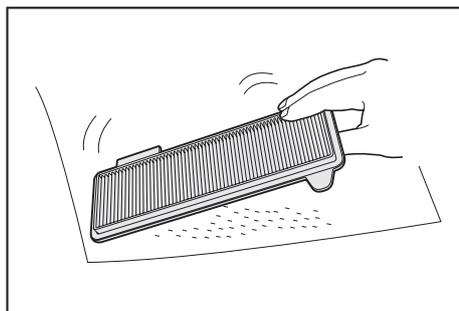
- When the suction power of the robotic cleaner goes down, when the dirt is noticeable, or when the filter care lamp lights up, remove the filter and wash it with water.
  - Lay down newspaper or something before caring.
  - Do not use chemicals or hot water with a temperature of 40 °C (104 °F) or more.
1. Dispose of garbage following steps 1 to 5 of "How to dispose of garbage". (See page 21).
  2. Put the dust case back in the dust box and close the top cover of the dust box.
  3. Unhook the hook and open the filter-side top cover.



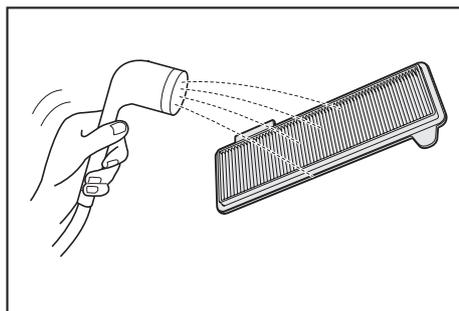
- ▶ 1. Hook
4. Remove the filter from the dust box.  
When removing the filter, do so slowly to avoid raising dust.



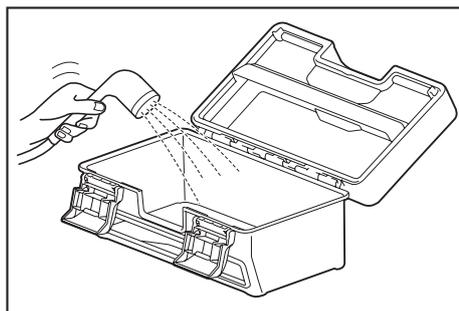
5. Let dirt and dust fall with light taps on the filter.
  - Do not scrub the filter hard or press it down with fingers.
  - Do not use a sharp-pointed object (such as a toothpick), which can be a cause of breakage.



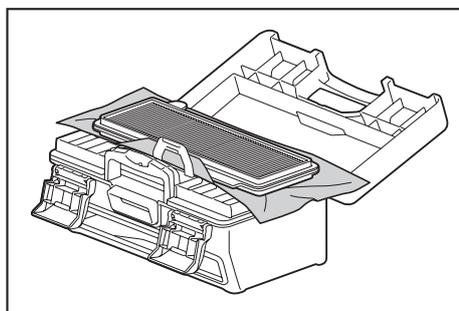
6. When the suction power of the robotic cleaner is weak, wash the filter with water.  
If the smell bothers you, let the filter stand in diluted neutral detergent for about three hours and then wash it with water.



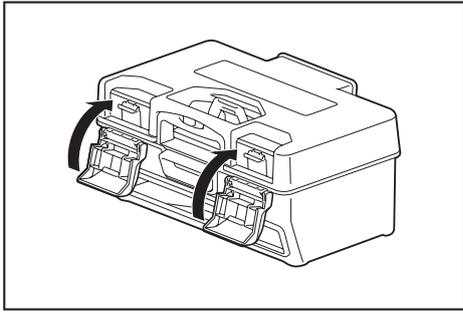
7. When the dirt of the dust box is noticeable, wash it with water or diluted neutral detergent.



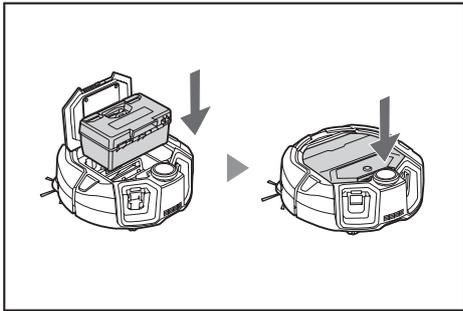
8. When you have washed the filter or the dust box with water, dry it sufficiently in a well-ventilated place out of direct sunlight.
  - Using parts without drying them properly may cause a reduction in suction power, as well as a reduction in motor life.
  - Using parts while moisture remains on them may cause an odor or failure.
  - The drying time should be about one day.
  - Avoid drying with a dryer, a blower, etc.
9. Attach the filter to the dust box.  
Putting dry tissue paper between them results in dirt being less likely to stick to the filter. Replace the tissue paper with a new one when discarding dust.



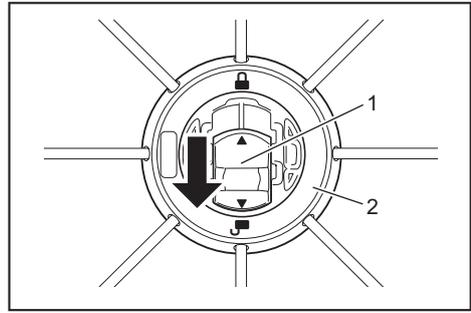
- Close the filter-side top cover and make sure that the hook is hooked. Then, lock the two locking parts.



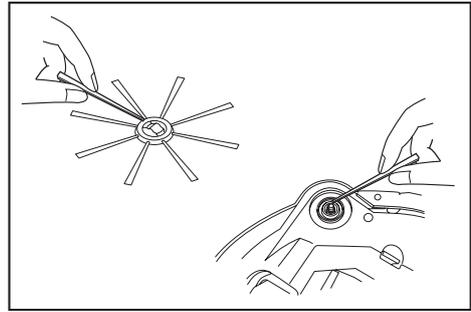
- Put the dust box back in the robotic cleaner and push the top cover to close until it clicks. When closing the top cover, be careful not to get your fingers caught.



- Slide the lock lever of the side brush to  (release mark).



- Lock lever
- Side brush
- Remove the side brush.
- Remove hair and dust caught in the side brush using tweezers or other tools.



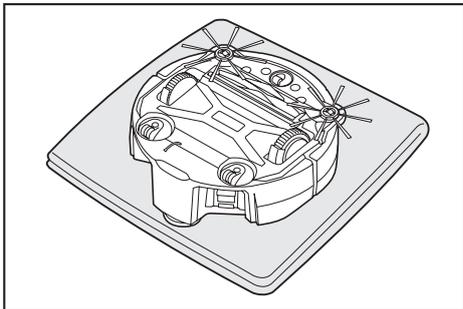
- Attach the side brush to the robotic cleaner. (See page 13.)

### NOTICE

- Do not use the robotic cleaner with the filter removed. Do not use the robotic cleaner with the filter damaged or dirty.
- The filter can be washed with water. Wash away the dust with water at regular intervals (every one to two months).
- When the filter deteriorates, replace it with a new filter.
- The filter is a consumable and thus it is recommended to prepare a spare.
- Do not damage the filter by scouring it with a hard object such as a brush or a spatula.
- Do not clean the HEPA filter with an air blower or a pressure washer because it is easily damaged.

### Precautions to take when caring for the underside of the robotic cleaner

- Take out the dust box before performing maintenance. (See page 21.) Not doing so can cause dust to fall from the opening.
- Turn the robotic cleaner upside down before caring for the side brushes, main brush, underside of the robotic cleaner, and wheels.
- During maintenance, lay a thick mat or something so that the robotic cleaner and the floor surface are not damaged and so that the LiDAR sensor is not subjected to pressure.



- Do not press the undersurface of the robotic cleaner hard with the robotic cleaner turned upside down. Pressing it hard can cause damage to the robotic cleaner.

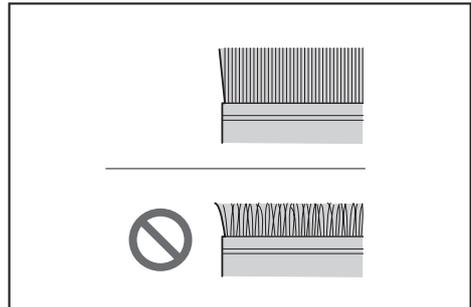
### Caring for and replacing the side brushes

- If an error indication (see page 28) is made, or dust and hair are caught in a side brush, care for the side brush.
- When the bristles of a side brush are bent or fall out, replace it with a new one.
- When a side brush does not rotate or is hard to rotate, remove the side brush and then care for it.

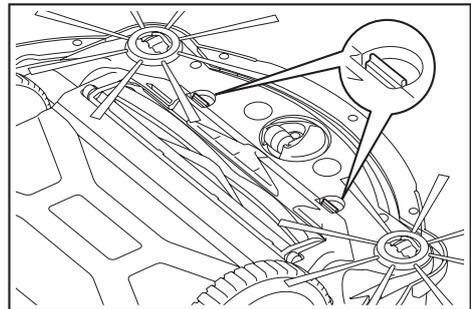
- Turn the robotic cleaner upside down on a mat, etc.

### Caring for and replacing the main brush

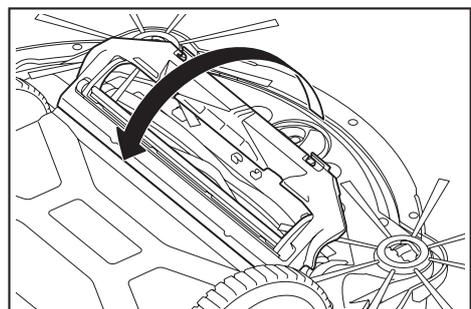
- If an error indication (see page 28) is made, or dust and hair are caught in the main brush, care for the main brush.
- If the bristles of the main brush wear and are becoming shorter, replace the main brush.



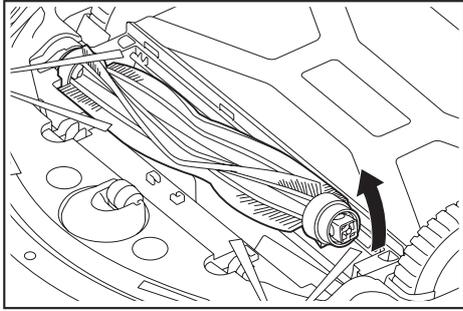
- Turn the robotic cleaner upside down on a mat, etc.
- Unhook the hooks of the main brush cover.



- Remove the main brush cover. Do not disassemble the main brush cover.



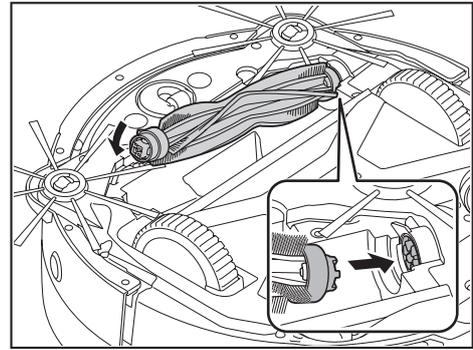
- Remove the main brush.



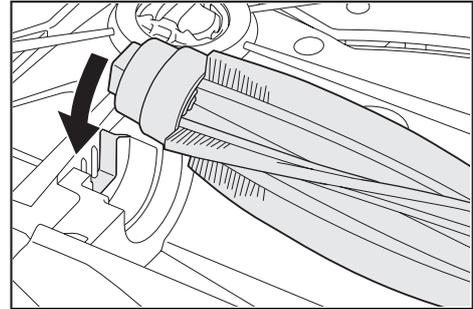
- Care for the main brush, main brush cover, main brush housing, and joints as described below.

| Part               | How to care   |
|--------------------|---|
| Main brush         | <p>Remove the bearing cap attached to the main brush and get rid of the trapped dust.<br/>For trapped hair and lint, cut them short along the bristles of the brush with scissors and then remove them. For clinging dust, wash it away with water.</p> <p>1. Bearing cap</p> |
| Main brush cover   | Wipe it clean with a cloth dampened with water or diluted neutral detergent. If the dirt is noticeable, wash it away with water.  |
| Main brush housing | Wipe it clean with a cloth dampened with water or diluted neutral detergent. It cannot be washed with water.  |
| Joints             | <p>For the joints attached to the robotic cleaner, loosen the screw with a screwdriver while holding the joint by hand. After that, pick the joint up.<br/>Remove dust caught inside the robotic cleaner.</p> <p>1. Joint 2. Screw</p>  |

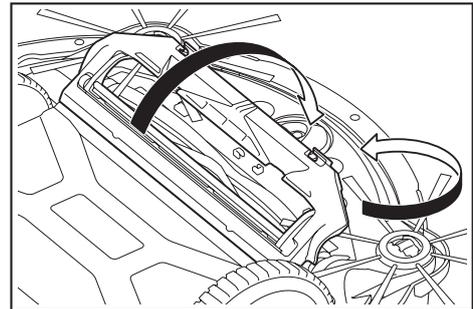
- Attach the main brush so that the shape of the main brush holder fits the groove of the joints of the robotic cleaner.



- Rotate the bearing cap to align the orientation, then insert it into the robotic cleaner.

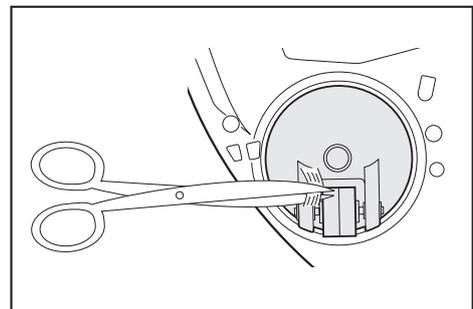


- Attach the main brush cover (push the hook in until it clicks).
  - Be careful not to get a side brush caught in the main brush cover.
  - Make it easier to avoid catching the side brushes by removing the side brushes temporarily or by attaching the main brush cover while rotating the side brush in the direction shown in the figure.



### Caring for wheels

- Care for wheels when dust and hair get caught in them.
- Do not remove wheels from the robotic cleaner.
- Get rid of dust caught in the casters. If it is hard to get rid of, use fine-tipped scissors, tweezers, etc.

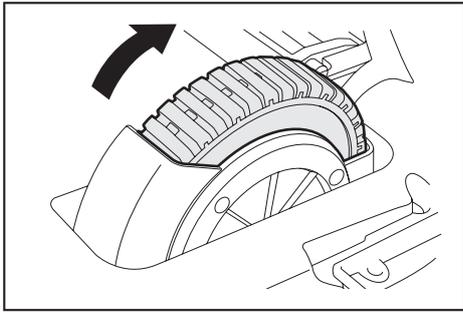


### NOTICE

Do not use thinner, benzine, alcohol, etc. because they can be a cause of deterioration or discoloration.

- Parts washed with water should be dried sufficiently in a well-ventilated place out of direct sunlight.
  - Using parts without drying them properly may cause a reduction in suction power, as well as a reduction in motor life.
  - Using parts while moisture remains on them may cause an odor or failure.
  - The drying time should be about one day.
  - Avoid drying with a dryer, a blower, etc.
- Put the bearing cap back to the original position in the main brush.
- Fasten the joints to the robotic cleaner using screws.

- Remove dirt on both drive wheels while rotating them. In this time, be careful not to get your hand caught.



## About repair

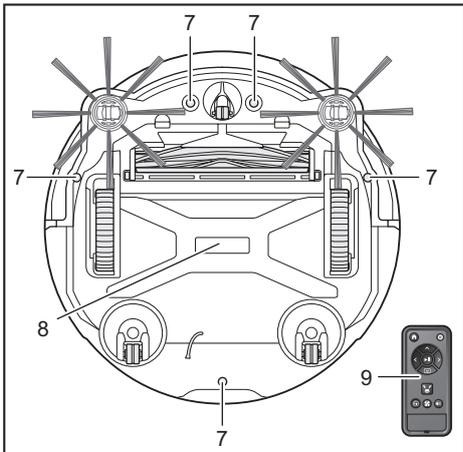
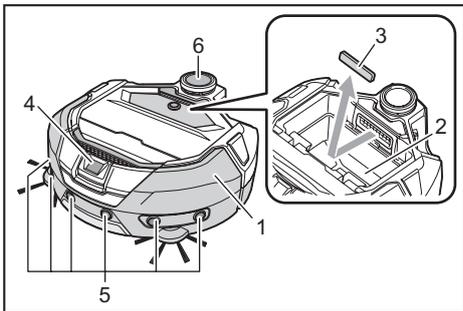
- If it is not possible to resume operation after removing the cause of a notification or error indication (see page 28), turn the power off and then on again.
- If the same notification or error is displayed repeatedly, ask the shop from which you made a purchase or our sales office to do repair.
- Do not do repair by yourself. Be sure to ask the shop from which you made a purchase or our sales office.
- When you ask for repair, bring the robotic cleaner together with the batteries and charger.

## Caring for the robotic cleaner

### NOTICE

- Do not use thinner, benzene, alcohol, etc. because they can be a cause of deterioration or discoloration.
- Do not use a sharp-pointed object (such as a toothpick) because it can be a cause of breakage or damage.

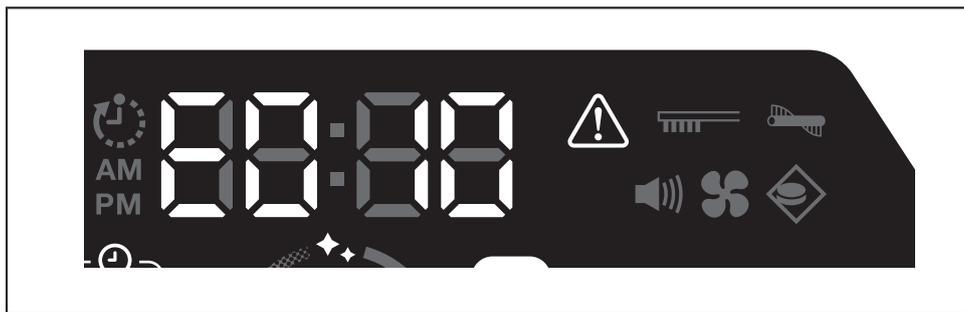
Follow the table below in caring for parts of the robotic cleaner.



| Number | Part   | How to care   |
|--------|--|---|
| 1.     | Robotic cleaner surface                            | Wipe it clean with a cloth dampened with water or diluted neutral detergent.              |
| 2.     | Interior of the robotic cleaner (dust box housing) | Wipe it clean with a cloth dampened with water or diluted neutral detergent.              |
| 3.     | Suction opening sponge inside the robotic cleaner  | Take out the sponge and wash away the dust on the sponge with water.                      |
| 4.     | Camera sensor                                      | Wipe dirt off with a soft cloth or a cotton swab while being careful not to cause damage. |
| 5.     | Ultrasonic sensor                                  | Wipe it clean with a cloth dampened with water or diluted neutral detergent.              |
| 6.     | LiDAR sensor                                       | Remove dust and dirt inside the cover of the LiDAR sensor.                                |
| 7.     | Cliff sensor (5 locations)                         | Wipe dirt off with a soft cloth or a cotton swab while being careful not to cause damage. |
| 8.     | Underside of the robotic cleaner                   | Wipe it clean with a cloth dampened with water or diluted neutral detergent.              |
| 9.     | Front face of the remote control and its buttons   | Wipe dirt off with a dry cloth.   |

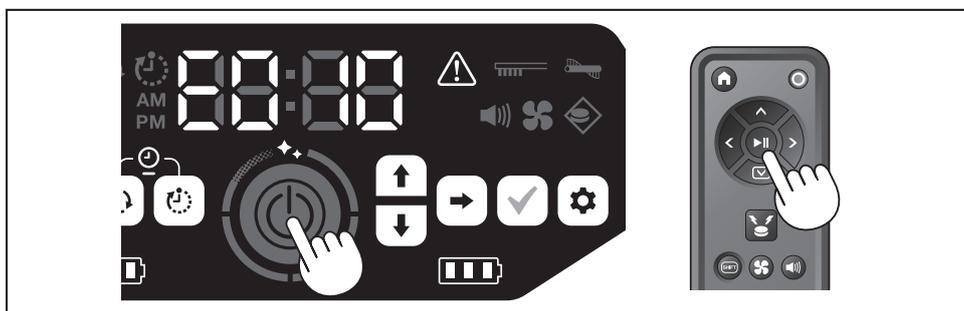
# Notification and Error Indication

When care is required or an error occurs, a red lamp lights up on the operation panel of the robotic cleaner, with the error number displayed. In addition, there can be a notification with a sound.



## Canceling a notification and error indication

- When a notification for filter care appears, the robotic cleaner can be operated but may not work properly. Remove the cause before using the robotic cleaner.
  - When an error notification appears, the robotic cleaner stops operating. Take action as follows.
1. Check the error number and remove the cause of the error. (See "Notification of a need of care, etc." on this page.)
    - If you turn off the power or the power runs out due to loss of the battery capacity before removal of the error cause, the robotic cleaner cancels the error temporarily.
  2. Pressing the start/stop button of the robotic cleaner or the remote control cancels the error indication, and the robotic cleaner enters the stand-by state.



3. Check that the error is cleared before using the robotic cleaner.

### NOTICE

- Restart the robotic cleaner if you cannot operate the robotic cleaner after removing the cause.
- If the same error appears repeatedly, ask the shop from which you made a purchase or our sales office to do repair.

## Notification of a need of care, etc.

If the lamp lights up, turn off the power and remove the batteries. Then, take action as described below.

| Notified problem  | Cause   | Action  |
|---|---|---|
| <ul style="list-style-type: none"> <li>• Filter care is necessary. </li> </ul> | Dust is accumulated or the filter is clogged. | Discard the dust and care for the filter.<br>→ See pages 21 and 24.<br><br>Check to see if dust is accumulated inside the robotic cleaner and at the exhaust opening. |

## Error notification

- Take action according to the error lamp and number on the indicator.
- For the error codes in the list, a specific number will be displayed in place of the "X" depending on the error type. Report the error code when contacting the dealer or our sales office.
- When you check the cause or take action, turn off the power and remove the batteries as necessary before taking action.
- If an error number other than those listed below is displayed, ask the shop from which you made a purchase or our sales office.

| Number   | Cause   | Action   |
|--|---|--|
| E01X<br>Error of drive wheels   | Is foreign matter such as lint or hair caught in the drive wheels?<br><br>When the robotic cleaner goes through a low gap, the robotic cleaner may get caught in the gap, displaying this notification. | Remove foreign matter.<br>→ See page 26.<br><br>It is not failure. |
| E02X<br>Error due to loss of a wheel or uplift of the robotic cleaner   | Is a drive wheel derailed, or is a wheel separated from the ground?   | Move the robotic cleaner to another place.<br>→ See page 10.       |
| E030<br>Error of the main brush <br> | Is foreign matter such as lint or hair caught in the main brush?  | Remove foreign matter.<br>→ See page 25.                           |

| Number   |   | Cause   | Action   |
|--|---|---|--|
| Notified problem   |   |   |  |
| E04X<br>Error of the side brushes  |    | Is foreign matter such as lint or hair caught in the side brushes?  | Remove foreign matter.<br>→ See pages 13 and 25.   |
| E060<br>Non-detection of the dust box or the filter  |    | The dust box or the filter is not attached.   | Check that they are attached properly.<br>→ See pages 21 and 24.   |
| E09X<br>Cliff sensor error   |    | Is the robotic cleaner exposed to direct sunlight?<br>Is the robotic cleaner on a black floor surface?<br>Are the cliff sensor dirty?   | Move the robotic cleaner to another place.<br>→ See page 10.<br><br>• Gently wipe off the dirt on the cliff sensor with a dry, soft cloth, a cotton swab, etc.<br>• Check if the earthing line contacts to the ground.<br>→ See pages 8 and 10 and 27.   |
| E10X<br>Bumper sensor error  |    | It is a malfunction of the bumper sensor.   | Press the bumper with your hand about 10 times.<br>→ See page 8.   |
| E110<br>Motion error   |    | Does the robotic cleaner run on a step, etc. and get stuck there?   | Move the robotic cleaner to another place.<br>→ See page 10.   |
| E12X<br>Decrease in the remaining battery capacity<br>Timer setting error  |    | Is the robotic cleaner unable to start operating by ON timer reservation because the remaining battery capacity is insufficient?  | When starting operation by ON timer reservation, make sure that the batteries are fully charged.   |
| E140<br>Room setting error<br>Location information error   |  | Is the room different from the mapped room, or is the starting point of cleaning different?<br>Is the layout of the mapped room changed?<br>Is the LiDAR sensor blocked by a cloth or dirty?<br>Are there any obstacles with a height of 25 cm or more that the LiDAR sensor can detect around the robotic cleaner? | Check the mapped room and the starting point of cleaning.<br>→ See page 17.<br>Perform mapping again.<br>→ See page 16.<br>Remove the cloth, etc., and care for the LiDAR sensor.<br>→ See page 27.<br>The LiDAR sensor requires obstacles taller than 25 cm within the following ranges:<br>• 11 m radius from the robotic cleaner for mapping and mapping cleaning mode.<br>• 18 m radius from the robotic cleaner for free cleaning mode.<br>Please place some obstacles taller than 25 cm in the area. |
| E170<br>Error of the robotic cleaner top cover   |  | Is the top cover of the robotic cleaner open?   | Close the top cover of the robotic cleaner.  |
| E190<br>Error due to loss of a wheel or uplift of the robotic cleaner  |  | Is a drive wheel derailed, or is a wheel separated from the ground?   | Move the robotic cleaner to another place.<br>→ See page 10.   |
| E200<br>Error due to failure to return back to the starting point<br>Error due to failure to go to the destination |  | The robotic cleaner failed to return back to the starting point of cleaning.<br><br>The robotic cleaner failed to proceed to the next destination because it is entered a narrow passage.   | • If there are objects that obstruct the running of the robotic cleaner, put the objects away or keep the robotic cleaner away from those objects.<br>→ See page 20.<br>• If robotic cleaner frequently fails to return to the starting point, turn on [Prioritize Homing] on the app. The time taken to go back to the starting point can be longer.<br>→ See page 42.<br>• Check if there is a pathway of 80 cm or more for cleaning.  |

## Troubleshooting

Before asking for repair or making an inquiry, check whether the following apply.

### Power supply

| Symptom   | Cause   | Action   |
|---|---|--|
| <ul style="list-style-type: none"> <li>Pressing the start/stop button does not turn on the power.</li> <li>The lamp does not light up.</li> <li>Pressing buttons on the robotic cleaner and the remote control results in no response.</li> </ul> | Are the batteries installed correctly?          | Check for proper installation of the batteries.<br>→ See page 14.                          |
|   | Is the battery capacity lost?                   | Check the remaining capacity.  |
|   | Is the power of the robotic cleaner turned off? | Press the start/stop button of the robotic cleaner to turn on the power.<br>→ See page 15. |

## Running operation

| Symptom  | Cause  | Action  |
|--|--|---|
| The robotic cleaner does not run.  | Is the error lamp blinking?  | The robotic cleaner does not run during an error.<br>→ See page 28.   |
|  | Is the robotic cleaner in the waiting mode for operation by ON timer reservation?  | When the waiting mode for reserved operation is in effect, the operations other than turning off the power and location notification are not possible.<br>→ See page 19.  |
| The robotic cleaner starts moving suddenly even though you perform no operation.                         | Is the ON timer reservation enabled?   | → See page 19.  |
| The robotic cleaner stops when running.  | Is the robotic cleaner caught in a cord or other object? Is a cloth or a string (for example, a thin towel) entangled around the wheels?   | Turn off the power of the robotic cleaner and remove objects that are caught in the robotic cleaner and entangled around the wheels.<br>→ See page 26.  |
|  | Is the robotic cleaner stopped without climbing over a step?   | Turn off the power of the robotic cleaner, and relocate the robotic cleaner to another place.<br>→ See page 10.   |
|  | Is the OFF timer set up?   | → See page 19.  |
|  | Are there any obstacles with a height of 25 cm or more that the LiDAR sensor can detect around the robotic cleaner?  | The LiDAR sensor requires obstacles taller than 25 cm within the following ranges:<br>• 11 m radius from the robotic cleaner for mapping and mapping cleaning mode.<br>• 18 m radius from the robotic cleaner for free cleaning mode.<br>Please place some obstacles taller than 25 cm in the area. |
| The speed changes.   | The robotic cleaner can slow down when a sensor detects an obstacle or determines the running direction.   | It is not abnormal.   |
| The robotic cleaner does not go straight.  | Is foreign matter caught in the wheels?  | Turn off the power of the robotic cleaner and remove foreign matter on the wheels.<br>→ See page 26.  |
|  | Are any of the wheels damaged?   | Request service from the shop from which you made a purchase or our sales office.   |
|  | Are the ultrasonic sensor and the LiDAR sensor dirty?  | Care for them.<br>→ See page 27.  |
| The robotic cleaner collides with an obstacle more often than before.                                    | Are the ultrasonic sensor and the LiDAR sensor dirty?  | Care for them.<br>→ See page 27.  |
| The robotic cleaner fails to avoid a step and then falls.  | Are the cliff sensor dirty?  | Care for them.<br>→ See page 27.  |
|  | The robotic cleaner sometimes climbs down a step with a height of 3.0 cm or less.  | It is not failure.<br>→ See page 10.  |
| The robotic cleaner continues to perform avoidance behavior even though there are no obstacles or steps. | Are the cliff sensors or LiDAR sensor dirty?   | Care for them.<br>→ See page 27.  |
| Cliff sensor gets dirty quickly.   | Is the earthing line cut and not making contact with the ground anymore?   | Request service from the shop from which you made a purchase or our sales office.   |
| The driving sound is louder than usual.  | Is the dust box filled with dust? Is the filter clogged?   | Dispose of the dust and care for the filter.<br>→ See pages 21 and 24.  |
|  | Is dust caught in the main brush and the side brushes?   | Care for them. In addition, check for proper installation of the brushes.<br>→ See page 25.   |
| The sound of the vacuum fan becomes louder during operation.   | It becomes louder when the robotic cleaner switches the battery cartridge to use.  | This is normal.   |
| • The suction power is weak.<br>• Dust is not sucked in.   | Is the dust box filled with dust?<br>Is the filter clogged?  | Dispose of the dust and care for the filter.<br>→ See pages 21 and 24.  |
|  | Is the vacuum fan turned off?  | Check the setting.<br>→ See page 18.  |
| A side brush comes off.  | Is the side brush installed correctly?   | Check for proper installation.<br>→ See page 13.  |
| A side brush or main brush does not rotate, is hard to rotate, or is tangled.                            | Is foreign matter (such as lint and hair) caught in the side brushes or the main brush?  | Care for them. In addition, check for proper installation of the main brush and the main brush cover.<br>→ See page 25.   |
|  | The robotic cleaner cannot be used on a rug with a pile length of more than 7 mm. Even if the pile length is 7 mm or less, the robotic cleaner may stop operating or the pile may get caught in the side brushes depending on the pile material or other properties. | → See page 10.  |
| The exhausted air smells.  | Is wet garbage or smelly garbage sucked in?  | Discard the garbage.<br>→ See page 21.  |
|  | Is the filter clogged?   | Care for the filter. When you have washed the filter with water, dry it sufficiently before using it.<br>→ See page 24.   |

## Remote control operation

| Symptom  | Cause  | Action  |
|--|--|---|
| The remote control does not work.                  | Are the batteries correctly placed in the remote control?  | Check the battery orientation.<br>→ See page 13.  |
|  | If the robotic cleaner sometimes does not react when operated with the remote control, a possible cause is that the batteries are at the end of their life. (The criterion for replacement is about one year. A battery can become exhausted in less than one year depending on the battery used and the conditions.)                                      | Replace the batteries with new ones.<br>→ See page 13.  |
|  | Is the power of the robotic cleaner turned off?  | Press the start/stop button of the robotic cleaner to turn on the power.<br>→ See page 15.  |
|  | There is a possibility that the distance between the remote control and the robotic cleaner is too long for radio waves to reach properly.   | Secure an unobstructed view by narrowing the distance between the remote control and the robotic cleaner and by relocating obstacles.<br>→ See page 11. |
| Operation with the remote control is not possible. | The following equipment that uses 2.4 GHz-band radio waves may possibly be in operation nearby. <ul style="list-style-type: none"> <li>• Microwave oven</li> <li>• Bluetooth®-capable devices</li> <li>• Wireless LAN devices</li> <li>• Other equipment that uses 2.4 GHz-band radio waves (such as digital cordless phones and game machines)</li> </ul> | Provide a longer distance between the robotic cleaner and the remote control, or discontinue the use of these devices temporarily.                      |
|  | When you have replaced the remote control with a new one, establish a pairing with the robotic cleaner.  | → See page 23.  |
|  | If you cannot operate the robotic cleaner with the remote control after examining the possible causes listed above, turn the power of the robotic cleaner off and then on again.   | → See page 15.  |

## Operation panel

| Symptom                           | Cause  | Action  |
|-----------------------------------|--|---|
| The set time is frequently reset. | The built-in battery is almost depleted because the robotic cleaner is not used for a long period of time. | Run the robotic cleaner for more than 1 hour, or set it in standby state. (The built-in battery will be recharged.) |

## Timer function

| Symptom   | Cause  | Action   |
|---|--|--|
| Operation by ON timer reservation does not start at the time specified. | The robotic cleaner does not start operating according to ON timer reservation if any of the following conditions applies at the start of operation by ON timer reservation. <ul style="list-style-type: none"> <li>• The power is turned off.</li> <li>• When the battery capacity is insufficient</li> </ul> | → See page 19.   |
|   | Does the timer lamp light up?  | If the power is turned off or the battery capacity is used up after reservation is set, the timer lamp turns off.<br>→ See page 9. |

## Mapping

| Symptom   | Cause   | Action  |
|---|---|---|
| <ul style="list-style-type: none"> <li>• The robotic cleaner stops during mapping.</li> <li>• Mapping fails.</li> </ul>                                   | Is the room dark during mapping?  | Make the room brighter until completion of mapping.   |
|   | There are no obstacles with a height of 25 cm or more within a radius of about 11 m of the robotic cleaner. | The environment may not be suitable for mapping. Cleaning in free cleaning mode is recommended.<br>→ See page 16. |
| The robotic cleaner starts cleaning instead of mapping.   | Is an already registered room number selected?  | Select an unregistered room number or delete the already registered map.<br>→ See pages 16 and 17.                |
| <ul style="list-style-type: none"> <li>• A map is not registered.</li> <li>• The map is incomplete. (There is an area that is not registered.)</li> </ul> | The shape of the room, the layout of obstacles or other characteristics may be too complex.                 | Check if there is a pathway of 80 cm or more for cleaning. Tidy up the room.<br>→ See page 11.                    |
|   |   | The battery capacity may be insufficient. Make the batteries fully charged and then do mapping.                   |
|   | The robotic cleaner was picked up during mapping.   | You can add the mapping information manually.<br>→ See page 39.   |
|   | The robotic cleaner was picked up during mapping.   | Do not pick up the robotic cleaner during mapping. The room information may not be registered correctly.          |

## App

| Symptom  | Cause  | Action   |
|--|--|--|
| It is not possible to establish connection to the app. | Was the smartphone connection button of the robotic cleaner pressed?   | Press the smartphone connection button to connect to the app. → See page 33.   |
|  | Was the Wi-Fi® setting of the smartphone enabled?  | Enable the Wi-Fi® setting of the smartphone.   |
|  | There is a possibility that the distance between the smartphone and the robotic cleaner is too long for radio waves to reach properly.                   | Secure an unobstructed view by narrowing the distance between the smartphone and the robotic cleaner and by relocating obstacles. → See page 11.   |
|  | The connection to the robotic cleaner failed.  | For iPhone:<br>Go to the iOS setting menu and enable the local network setting for Makita Robotic Cleaner DRC300.<br><br>For Android:<br>If a pop-up appears to decide whether to keep the connection after establishing the Wi-Fi connection, allow it. |
|  | The robotic cleaner may have failed to acquire the location information. (The robot cleaner's name is displayed as "null" in the PIN code entry screen.) | Enable the location information setting of your smartphone.  |

## Protection function

When any of the following conditions is established while the robotic cleaner is in operation, the motor stops automatically. This is due to the protection function, not failure.

| Protection function  |
|--|
| <p>The motor stops automatically if the battery reaches a high temperature.</p> <ul style="list-style-type: none"> <li>• Stop cleaning and remove the batteries from the robotic cleaner. Then, charge and cool the batteries using a charger with cooling system or wait until the batteries have cooled.</li> <li>• If the robotic cleaner does not work even with the batteries cooled, cool the robotic cleaner.</li> <li>• If an error number is displayed on the robotic cleaner, remove the cause of the error. (See page 28.)</li> </ul> |
| <p>The robotic cleaner stops automatically if the battery charge becomes weak, enters the sleep mode, and the power turns off completely if the remaining charge runs out.</p> <ul style="list-style-type: none"> <li>• Remove the batteries from the robotic cleaner and charge the batteries.</li> </ul>   |
| <p>The robotic cleaner stops automatically if an error is detected.</p> <ul style="list-style-type: none"> <li>• Check the error number and remove the cause of the error. After removal of the cause, the robotic cleaner can be used again. (See page 28.)</li> </ul>  |

## Storage

Turn off the power and remove the batteries before keeping the robotic cleaner in storage.

Do not store the robotic cleaner in the following places because it is a precision machine. Doing so can cause heating, ignition, failure, deterioration of rubber parts, etc.

- Places where the temperature rises suddenly
- Places where the temperature drops suddenly
- Places where the temperature changes suddenly
- Near a flame, a heater, cooling and heating equipment, etc.
- Outdoors
- Places exposed to direct sunlight
- Places exposed to moisture or vapor
- Places with much dust and sand
- Smoky places
- Places with poor ventilation

If the robotic cleaner is kept in storage without being used for a long time, its performance may be impaired. To use the robotic cleaner for many years, occasionally turn on the power of the robotic cleaner and use it.

## Optional Accessories

### CAUTION

**These accessories or attachments are recommended for use with your Makita tool 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.

- Magnetic boundary line
- Main brush
- Soft main brush
- Side brush
- Soft side brush
- HEPA filter
- Main brush cover
- Bumper cushion
- Makita genuine battery and charger

### NOTICE

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.
- To avoid false recognition when using the bumper cushion, do not attach the bumper cushion to the following areas: The area in the lateral extension of the ultrasonic sensors, and the upper and lower areas within 28 mm of the ultrasonic sensors.

# Smartphone App (For the DRC300)

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## What you can do with the app

Using a smartphone with the robotic cleaner-specific app installed, you can do the following things:

- Cleaning
- Remote control operation
- Adding, changing, or deleting mapping information
- Checking the history of cleaning
- Changing robotic cleaner settings

## NOTICE

- This app is for use on a smartphone and does not run on tablet-type devices, PCs.
- A smartphone and the robotic cleaner are directly connected using the Wi-Fi® function. Note that the Internet is not available during the connection to the robotic cleaner. After using the app, remember to disconnect from the robotic cleaner by pressing the smartphone connection button.
- To use this app, you must give permission to get location information and agree to the terms of use. The user must judge whether to give permission to get location information and to agree to the terms of use.
- The application screen images are subject to change without notice.

## How to install the app

### Preparations in advance

A smartphone (Android or iOS) is necessary to use the app.

- Android: Android Version 6.0 or later is required.
- iOS (iPhone): iOS 12 or later is required.

### Installing the app on a smartphone

1. Using your smartphone, search for "Makita Robotic Cleaner DRC300" in Google Play™ or App Store.  
You can also access from the QR code.

Google Play™



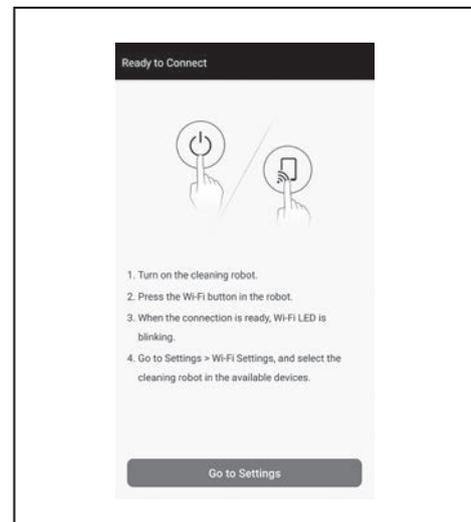
App Store



2. Install "Makita Robotic Cleaner DRC300"
3. After installation, start up "Makita Robotic Cleaner DRC300"

### Initial setting

1. As a screen appears to ask whether to permit the acquisition of location information, tap on [OK].
2. In the terms of use screen, tap on [Agree].
3. Follow the instructions on the screen:
  - Turn on the robotic cleaner and then press the smartphone connection button on the cleaner. After pushing the smartphone connection button, it takes about 8 seconds for the robotic cleaner to be ready for connection. When the connection is ready, the Wi-Fi LED will blink.
- After that, tap on [Go to Settings] to display the Wi-Fi® setting screen of the smartphone.



Depending on your device, the following procedures may be required.

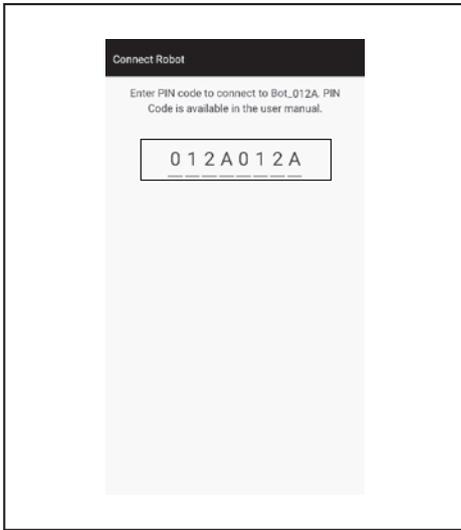
For iPhone:

Go to the iOS setting menu and enable the local network setting for Makita Robotic Cleaner DRC300.

For Android:

If a pop-up to decide whether to keep the connection after establishing the Wi-Fi connection is displayed, allow it.

4. Connect the smartphone to the robotic cleaner via Wi-Fi®. (This connection is NOT Bluetooth.)
  - Wi-Fi® connection setting (password entry) is required only when connecting to the robotic cleaner for the first time.
  - The initial password of the Wi-Fi® connection is set to alphanumeric characters that repeat the last four digits under the robotic cleaner's SSID twice. For example, if the SSID "Robotic\_Cleaner\_012A" is displayed, the password will be "012A012A".
  - Be sure that the smartphone cannot access other Wi-Fi® networks during the connection with the robotic cleaner.
5. Exit from the Wi-Fi® setting screen and display the app screen. After that, enter the PIN code to authenticate the connection.
  - The factory set PIN code is set to alphanumeric characters that repeat the last four digits under the SSID twice.
  - If the SSID is "Robotic\_Cleaner\_012A", the factory set PIN code will be "012A012A."
  - The home screen of the app will be displayed when the PIN code is successfully authenticated.



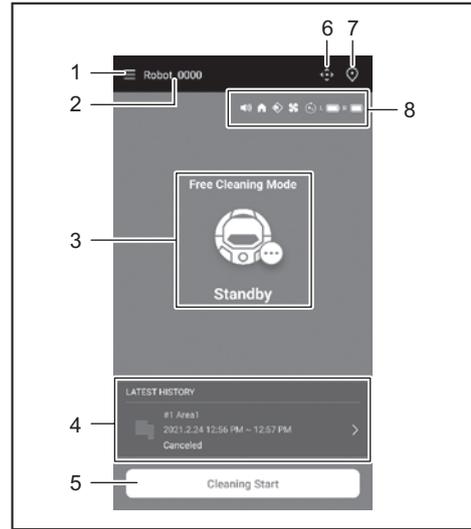
6. Change the PIN code.
  - Be sure to change the PIN code. Do not use the default PIN code. See page 42 for how to change the PIN code.
  - Do not forget the new PIN code you created.
7. Initial setting is complete when "PIN code changed" is displayed. Return to the home screen to use the app.

To disconnect the Wi-Fi connection, press the smartphone connection button on the robotic cleaner to turn off the smartphone connection lamp.

### NOTICE

If your connection is suddenly disconnected, close the app once and then try to establish connection again.

## Home screen



1. Menu button (various settings, history check)
2. Robotic cleaner name
3. Operating state of the robotic cleaner
4. Latest record of cleaning (displayed only when there is a record)
5. Cleaning (or Mapping) start button
6. Remote control button
7. Mode switch button
8. Robotic cleaner settings and the remaining battery capacity
  - : The sound setting is on.
  - : The prioritize homing function setting is on.
  - : Boundary-sensing feature is on.
  - : The vacuum fan setting is on.
  - : The continuous cleaning setting is on.
  - : Left-battery's remaining capacity
  - : Right-battery's remaining capacity

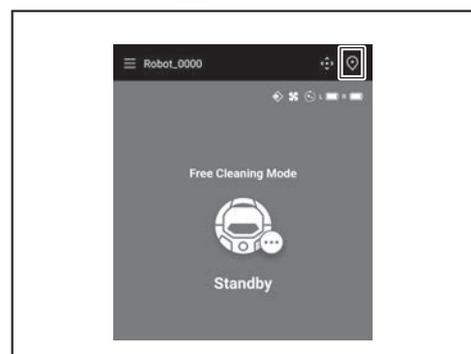
## Cleaning with the app

The robotic cleaner works in two modes: free cleaning mode, which does not require map registration, and mapping cleaning mode (see "Cleaning mapped rooms" on page 35), which requires room information to be registered for cleaning.

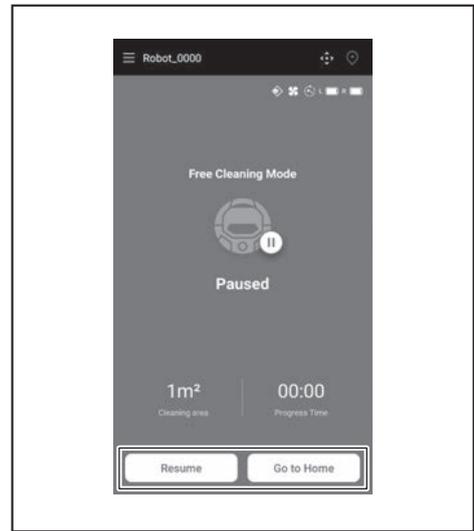
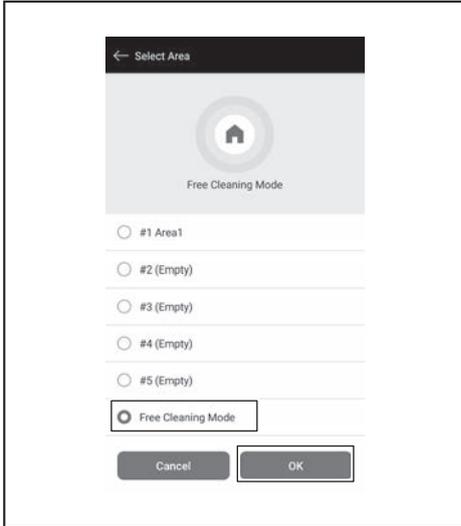
### Cleaning a room without mapping (free cleaning mode)

- Free cleaning mode is recommended for cleaning in various rooms or in an environment that involves frequent, significant layout changes.
- Free cleaning mode is also recommended for a room that cannot be adequately lighted.
- For cleaning, mapping, and the location to start the robotic cleaner, see page 16.

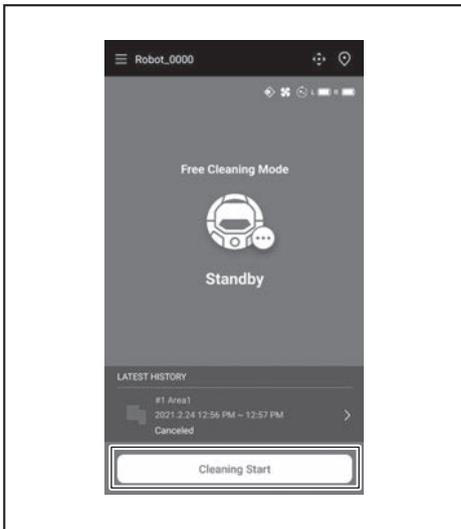
1. On the home screen, tap on



2. Tap on [Free Cleaning Mode], then tap on [OK].



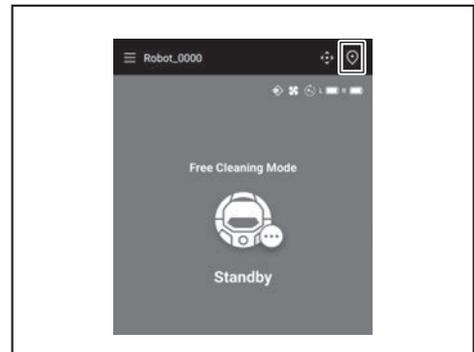
3. On the home screen, tap on [Cleaning Start] for the robotic cleaner to start cleaning.



## Cleaning mapped rooms

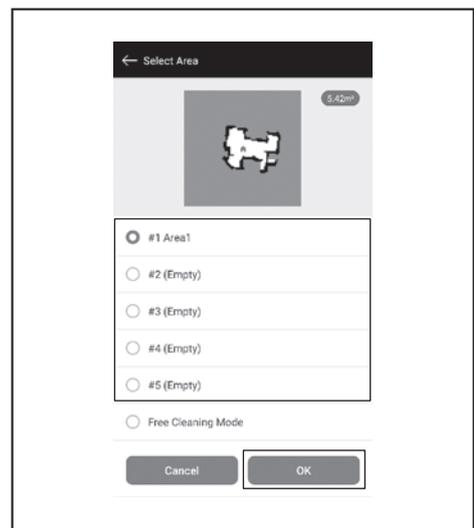
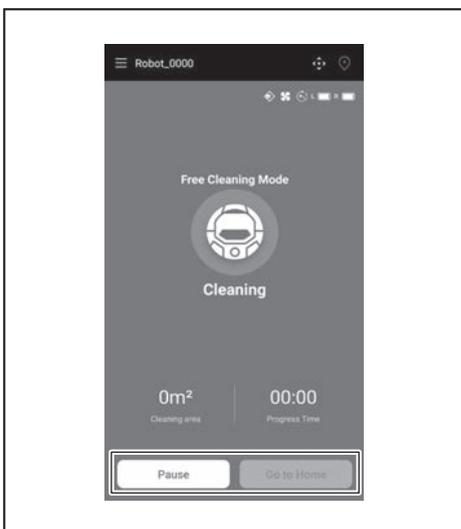
- In mapping cleaning mode, the robotic cleaner works so that a mapped room is cleaned efficiently.
- The use of mapping cleaning mode requires mapping information to be registered. (See page 38.)

1. On the home screen, tap on .



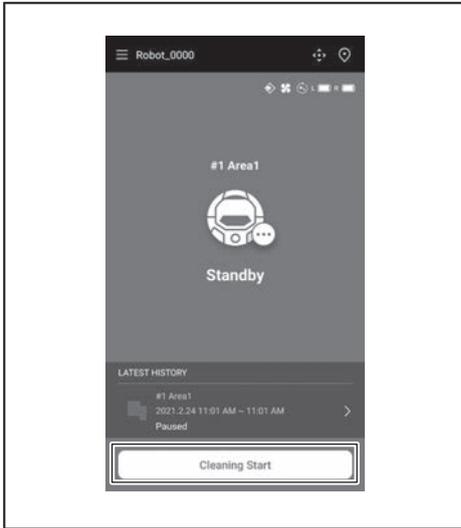
4. You can control the robotic cleaner with the following operations.
  - Tapping on [Pause] results in the robotic cleaner stopping cleaning temporarily.
  - Tapping on [Resume] while paused restarts the robotic cleaner.
  - Tapping on [Go to Home] while paused results in the robotic cleaner going back to the point where it started cleaning. As the robotic cleaner goes back to the starting point, the app goes to the home screen. This operation can be performed while the cleaning is paused.

2. Tap on the room you want to clean, then tap on [OK].
  - You can add, change, and delete a map. (See page 38)



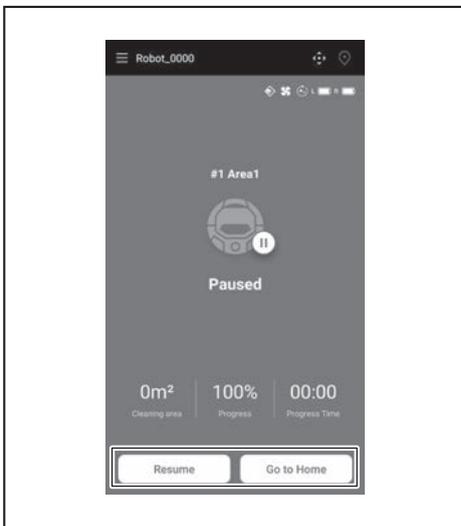
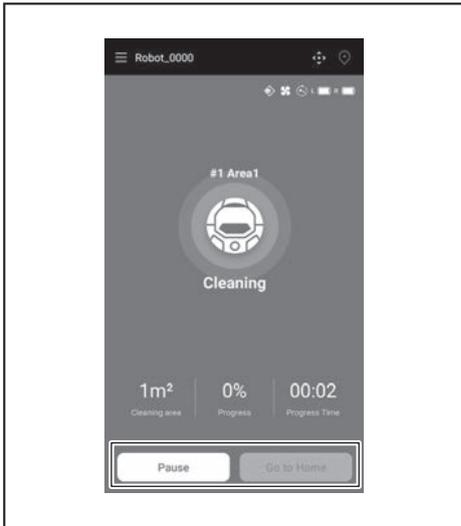
3. Place the robotic cleaner as close as possible to the same orientation as at the start of mapping. This allows the robotic cleaner to start cleaning smoothly.

4. Tap on [Cleaning Start] for the robotic cleaner to start cleaning.



5. You can control the robotic cleaner with the following operations.

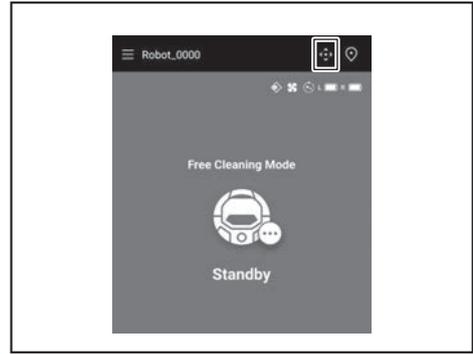
- Tapping on [Pause] results in the robotic cleaner stopping cleaning temporarily.
- Tapping on [Resume] while paused restarts the robotic cleaner.
- Tapping on [Go to Home] while paused results in the robotic cleaner going back to the point where it started cleaning. As the robotic cleaner goes back to the starting point, the app goes to the home screen. This operation can be performed while the cleaning is paused.
- If the shape of the room does not match with the map information, the error screen is displayed and the robotic cleaner stops cleaning. Check if the selected room is correct and place the robotic cleaner at the starting point.
- If the robotic cleaner is placed away from the starting point on the mapping information, the error screen is displayed.



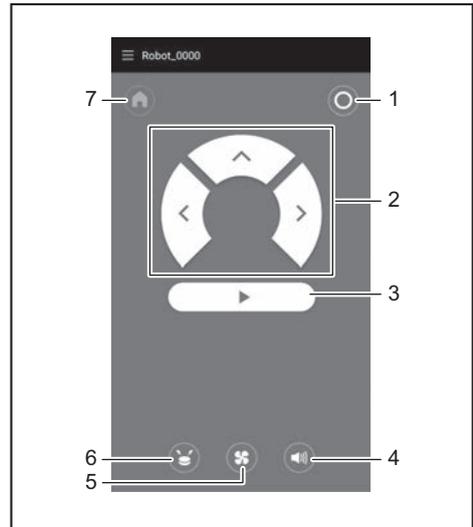
## Operating the robotic cleaner with the app

You can operate the robotic cleaner with the app as is the case with the remote control included with the robotic cleaner.

1. On the home screen, tap on .



2. Tapping on buttons, operate the robotic cleaner.
  - You cannot make the robotic cleaner move backward from the app.



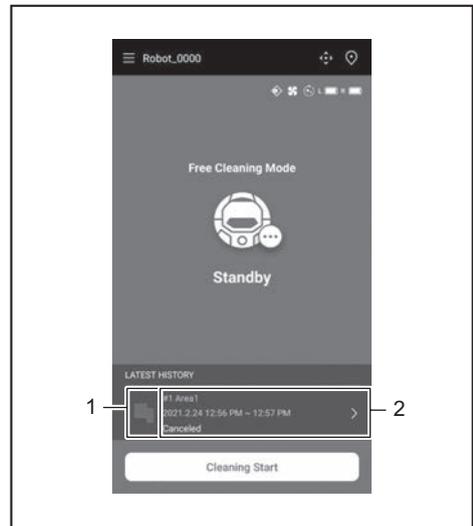
- 1. Power OFF button 2. Action buttons 3. Start/stop button 4. Sound ON/OFF button 5. Vacuum fan ON/OFF button 6. Location beacon buzzer/light button 7. Start point button

## Checking the history of cleaning

From the app, you can check the history of cleaning in detail.

### Checking the latest history

On the home screen, tap on the icon in [LATEST HISTORY].

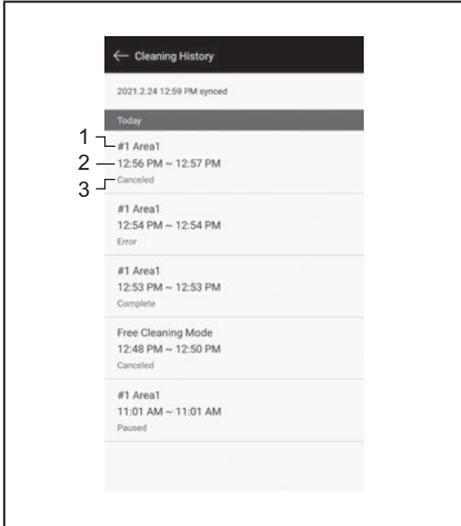


- 1. Icon to show the latest history 2. Article to show the list of histories

## Checking the past histories

Up to 15 histories can be recorded. If 15 histories have already been recorded, the oldest history will be erased when a new history is recorded.

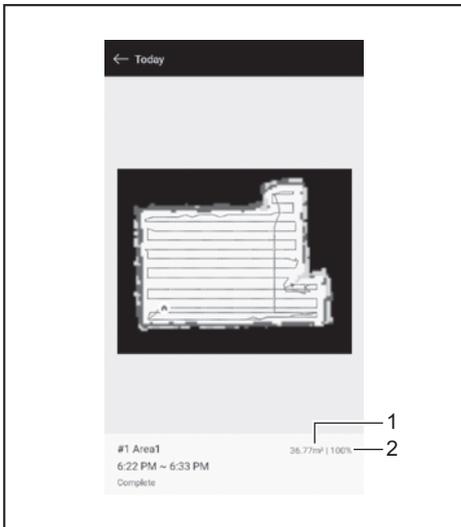
- On the home screen, tap on  in [LATEST HISTORY].  
You can tap on  on the home screen and then tap on [Cleaning History] to see the past records.
- Tap on the record you want to check.



- 1. Cleaned room or cleaning mode 2. Time during which the room was cleaned 3. Cleaning status (complete, stopped, error, etc.)

Tapping on an article shows the detail information of each history.

- Blue-green dash line: The trajectory of the robotic cleaner
- Yellow: The area that the robotic cleaner has cleaned
- Blue: Obstacles detected by bumper sensor
- Green: Obstacles detected by the ultra-sonic sensor
- Pink: Steps detected by the cliff sensor
- Purple: The area that the robotic cleaner has detected the magnetic boundary line
- White: The area that the robotic cleaner has not cleaned
- Gray: The walls or obstacles detected by LiDAR sensor

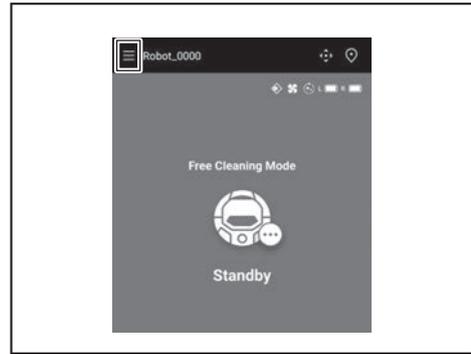


- 1. Cleaned area size 2. Cleaning coverage (mapping cleaning only)

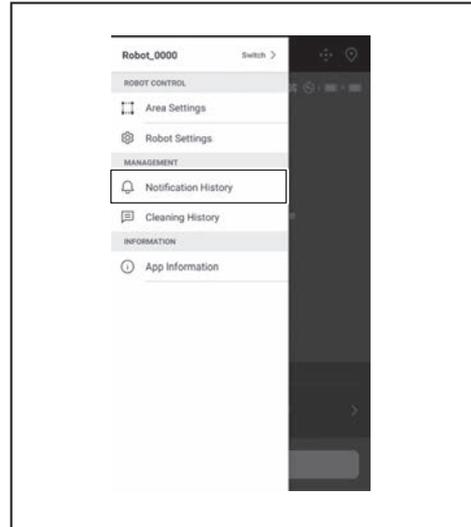
- The size and coverage of the cleaned area are not precise values. Use this information as a rough guide.

## Checking the error histories

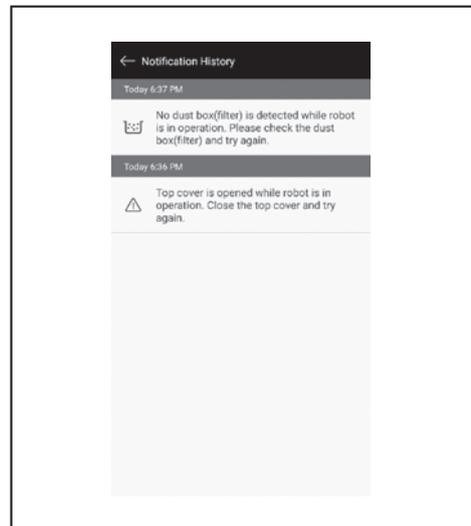
- On the home screen, tap on .



- Tap on [Notification History].



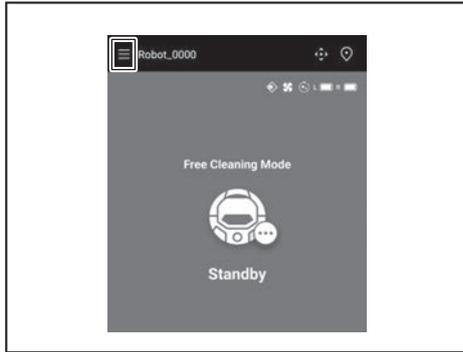
The date, time, and content of the error will be displayed. Up to 10 histories can be recorded. If 10 histories have already been recorded, the oldest history will be erased when a new history is recorded.



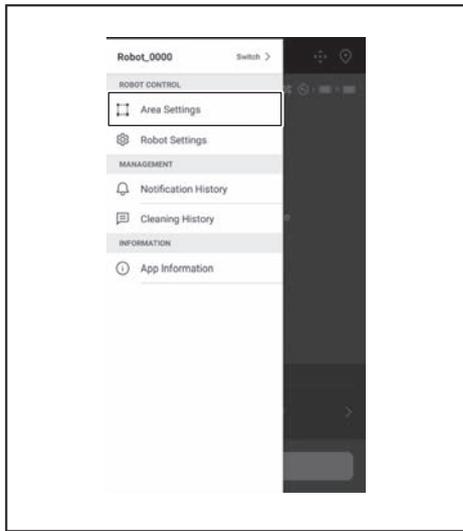
## Adding, changing, or deleting mapping information

You can add, change, or delete mapping information from [Area Settings] on the menu window.

1. On the home screen, tap on .



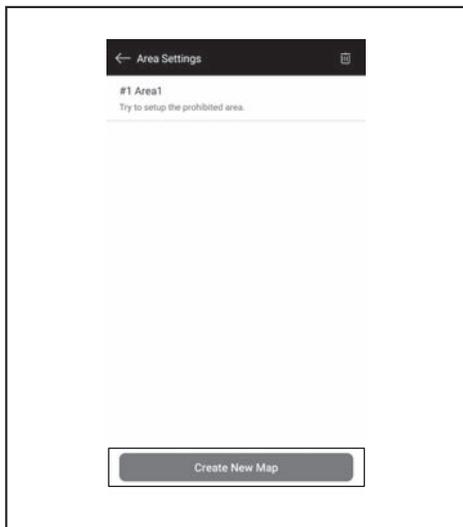
2. Tap on [Area Settings].



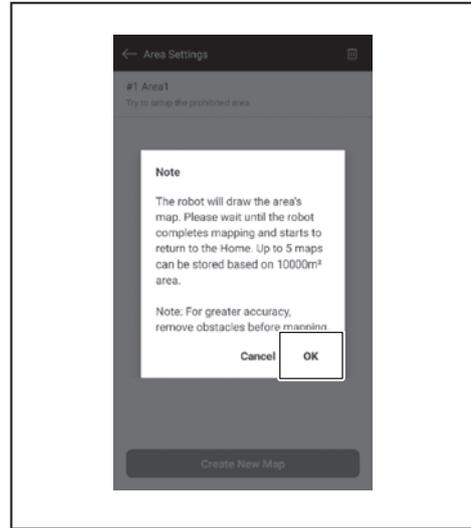
### Adding mapping information

You can save information for up to 5 maps with an area size up to 10,000 m<sup>2</sup>. The area size does not indicate the actual size of a mapped area but the rectangle area which covers the whole mapped area.

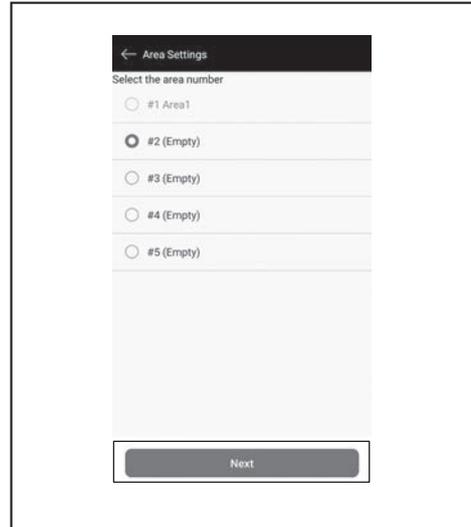
1. On the [Area Settings] screen, tap on [Create New Map].



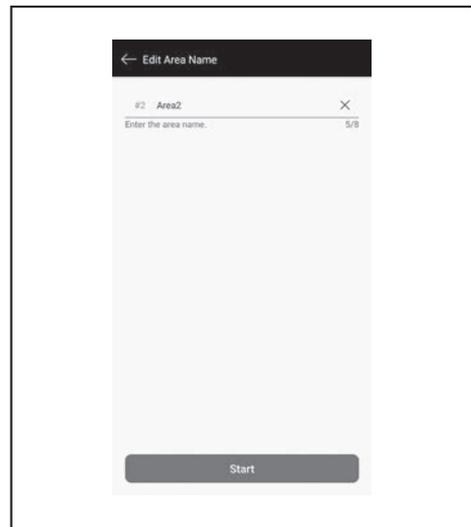
2. A notice is displayed. Tap on [OK].



3. Select an empty slot in which to save mapping information, then tap on [Next].

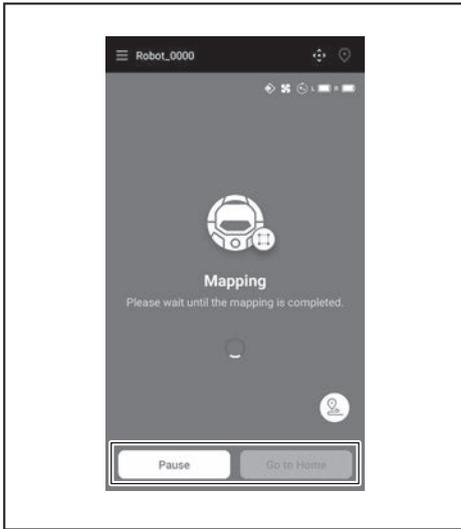


4. Enter an area name (Up to 8 characters).

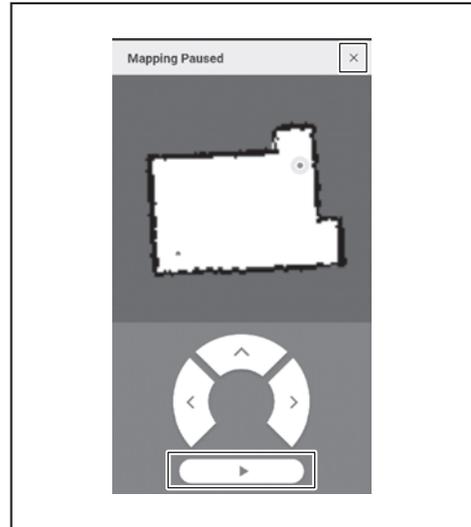


5. Tap on [Start].

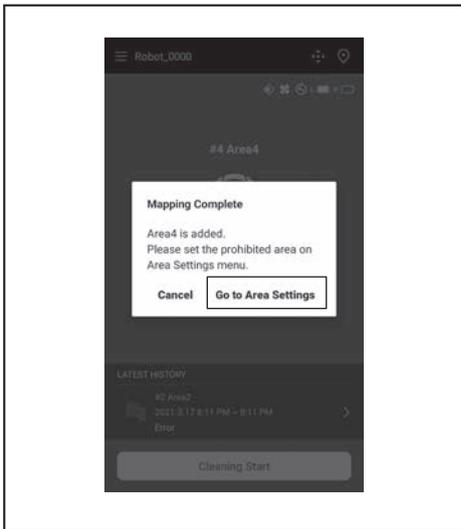
- The robotic cleaner starts mapping.
  - Tapping on [Pause] results in the robotic cleaner stopping mapping temporarily.
  - Tapping on [Go to Home] while paused results in the robotic cleaner going back to the point where it started mapping. The mapping information created up to when you tapped is registered. As the robotic cleaner goes back to the starting point, the app goes to the home screen.



- Move the robotic cleaner to trace the floor layout using the remote control buttons of the app or the remote controller.
  - After manually adding the mapping information, tap on ▶ to resume automatic mapping.
  - If you want to quit mapping, tap on [x] and then [Go to Home] or press the start point button on the remote controller.



- After the mapping is completed, the dialogue whether to perform area settings is displayed.
  - If you want to limit the range of cleaning, tap on [Go to Area Settings]. (See page 40.)

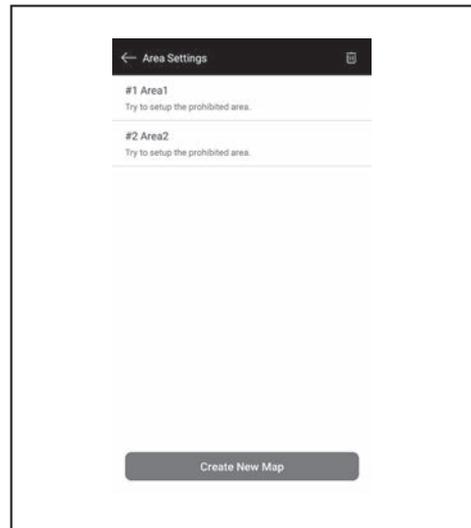


### Changing the name of mapping information

On the [Area Settings] screen, tap on the mapping information you want to change.

You can tap on a name to go to the settings screen.

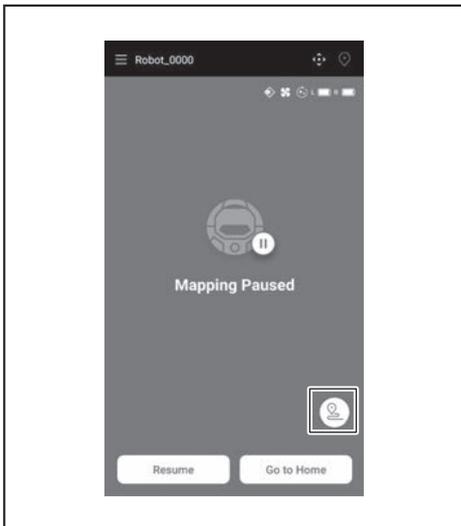
- On the [Area Settings] screen, tap on the mapping information you want to change.



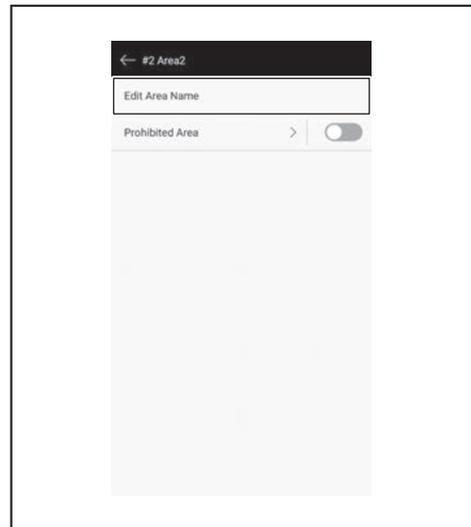
### Adding mapping information manually (manual mapping)

During mapping, you can manually add the mapping information with the app. It is recommended when mapping an intricate floor layout.

- Tap on [Pause] and then Ⓜ to display remote control buttons.



- Tap on [Edit Area Name].



3. Edit the name (Up to 8 characters).



4. Tap on [Save] to finalize the name.

### Limiting the range of cleaning

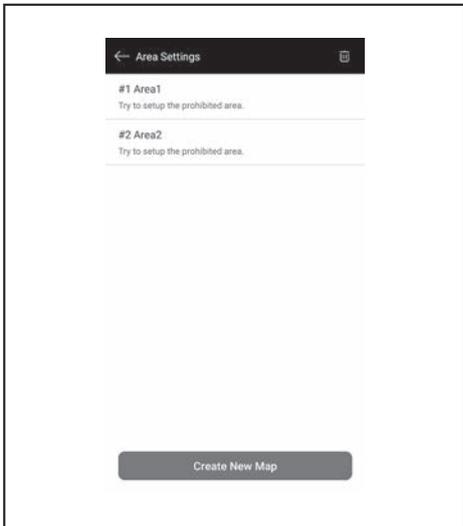
#### **⚠ WARNING**

**Do not use the cleaning prohibited area configured by the app as a boundary line of an area where an accident can possibly happen due to intrusion or fall.**

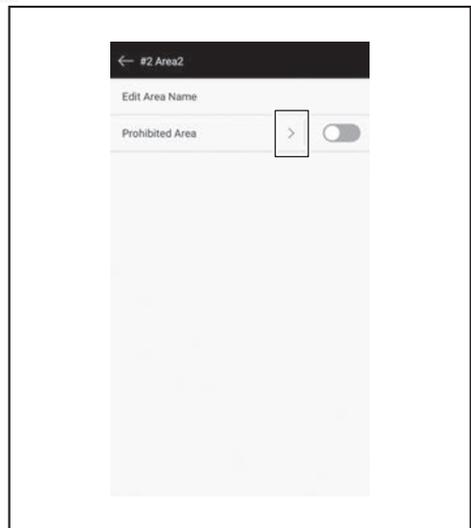
- Doing so can cause an accident or injury due to intrusion or fall of the robotic cleaner. The actual trajectory of the robotic cleaner may be slightly different from the cleaning prohibited area setting.

**For an area with a risk of intrusion or fall of the robotic cleaner, place an object serving as a wall with a height of 25 cm or more (an object that does not move or fall over when hit by the robotic cleaner) on a flat surface. (See page 10.)**

1. On the [Area Settings] screen, tap on the mapping information you want to change.

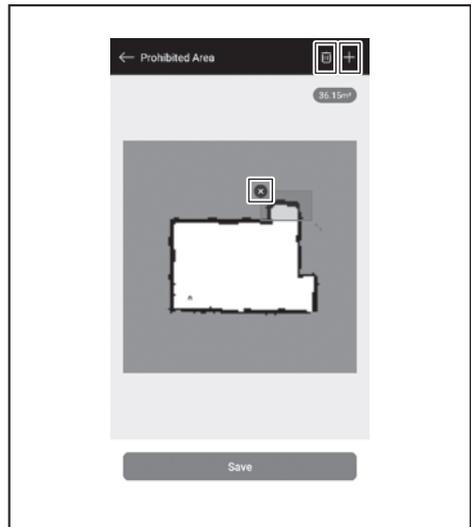


2. Tap on > at the side of [Prohibited Area].



3. Set a cleaning prohibited area.

- You can tap on at the upper right corner of the screen to add a cleaning prohibited area (up to 100 areas).
- You can drag a cleaning prohibited area to move it.
- You can drag the lower right corner of a cleaning prohibited area to adjust the size.
- You can tap on at the upper left corner of a cleaning prohibited area to delete the cleaning prohibited area.
- You can tap on at the upper right corner of the screen to delete all of the cleaning prohibited areas.
- You cannot set a cleaning prohibited area within a 2 m range around the starting point.
- Depending on the environment near a cleaning prohibited area you set, it may not be possible to clean an area around the specified area.

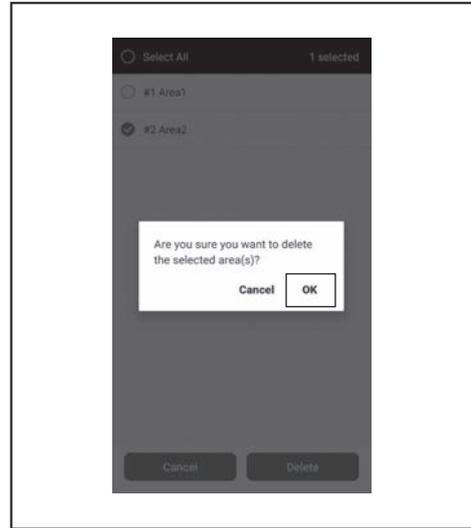


4. Tapping on [Save] results in the modified mapping information being registered.

- To enable registered cleaning prohibited area, tap on On/Off (colored green when it is On) at the side of [Prohibited Area].

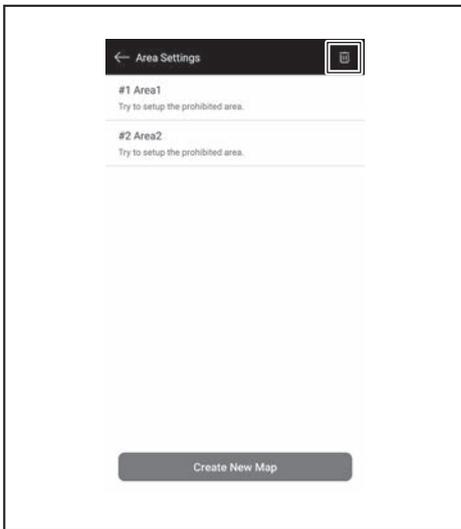


- A notice is displayed. Tap on [OK].

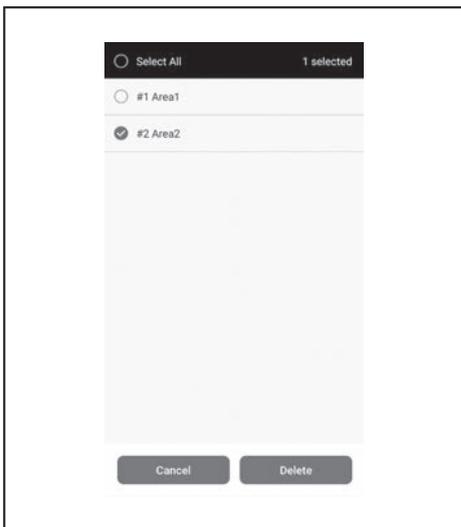


## Deleting mapping information

- On the [Area Settings] screen, tap on .



- Select the mapping information you want to delete.
  - The circle at the head of mapping information is colored when that mapping information is selected.
  - You can tap on [Select All] to select all items.

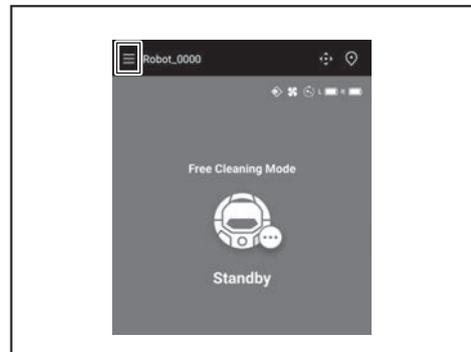


- Tap on [Delete].

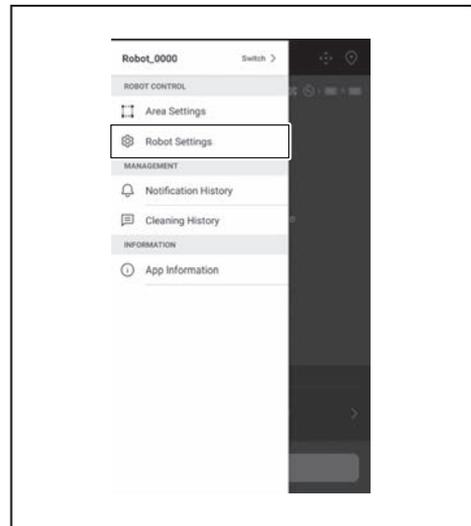
## Changing and checking settings

Settings can be changed and checked from [Robot Settings] on the menu window.

- On the home screen, tap on .



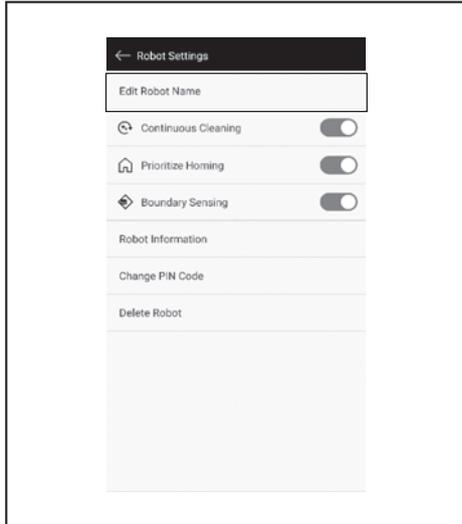
- Tap on [Robot Settings].



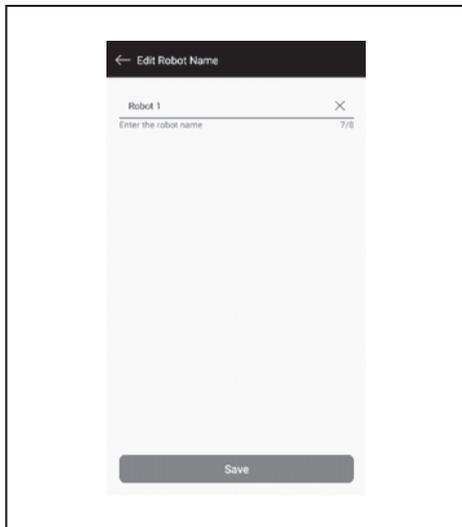
## Changing the name of a registered robotic cleaner

This setting only changes the robotic cleaner name in the App. The SSID for Wi-Fi® will not be changed.

1. On the [Robot Settings] screen, tap on [Edit Robot Name].



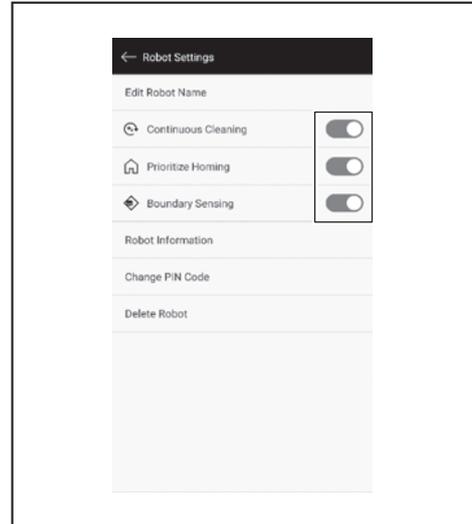
2. Enter a new name (Up to 8 characters).



3. When you have finished entering the name, tap on [Save].

## Setting cleaning options

1. On the [Robot Settings] screen, tap on On/Off (colored green when it is On) at the side of [Continuous Cleaning] or [Prioritize Homing] if needed.
  - [Continuous Cleaning]: Select this option when the battery capacity is lost before the robotic cleaner cleans all of the cleaning area and you want to resume cleaning the area left uncleaned the next time.
  - [Prioritize Homing]: This setting is recommended when the robotic cleaner often fails to go back to the starting point of cleaning. The robotic cleaner begins to return to the starting point of cleaning, provided that there is more remaining battery capacity than usual.
  - [Boundary Sensing]: Select this option when using the magnetic boundary line. The robotic cleaner detects the magnetic boundary line as the boundary. (See page 20.)

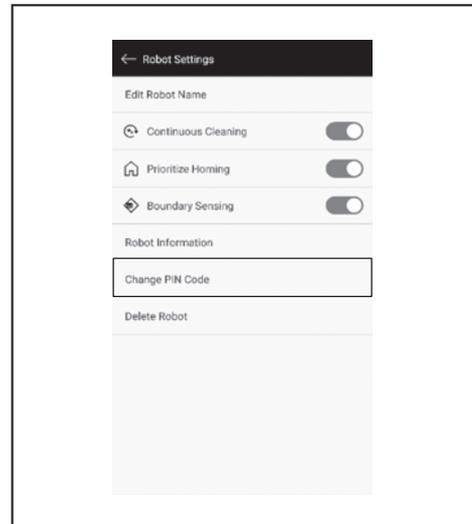


## Changing the PIN code

The PIN code of the robotic cleaner can be changed. If you forget the PIN code you set, refer to "Resetting the settings" on page 23 for resetting the robotic cleaner to the factory defaults.

To check the factory default PIN code, refer to "Initial setting" on page 33.

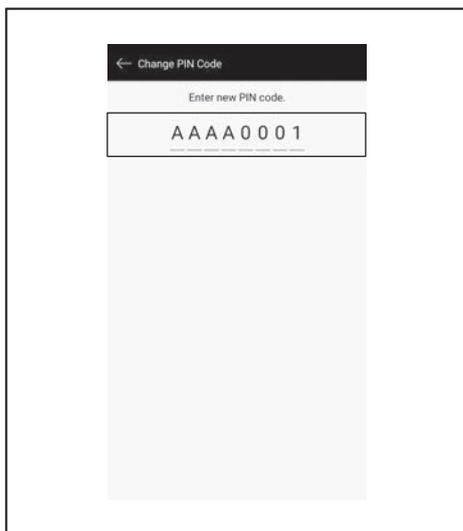
1. On the [Robot Settings] screen, tap on [Change PIN Code].



2. Enter the current PIN code (eight digits).

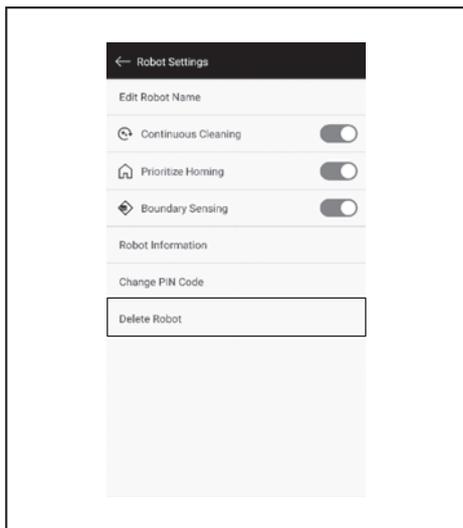


3. Enter the new PIN code (eight digits) you want to set.  
Enter the new PIN code two times in a row.

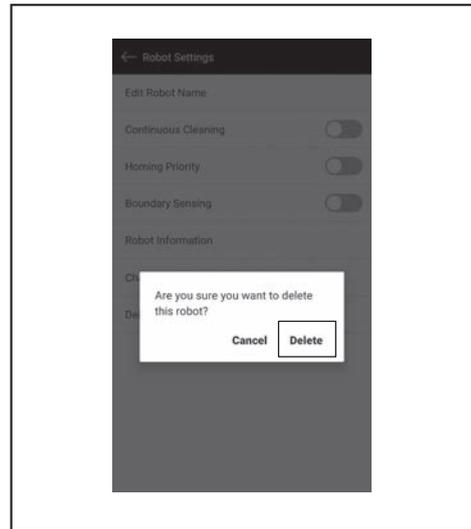


## Deleting a registered robotic cleaner's information

1. On the [Robot Settings] screen, tap on [Delete Robot].

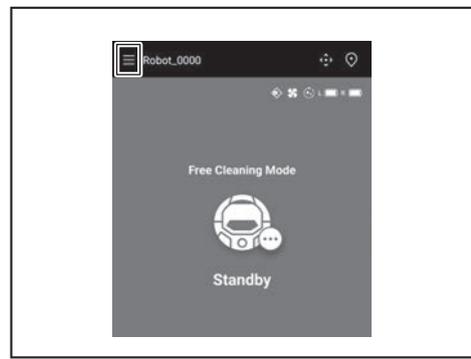


2. A dialog appears to confirm the deletion. Tap on [Delete] to finalize the deletion.

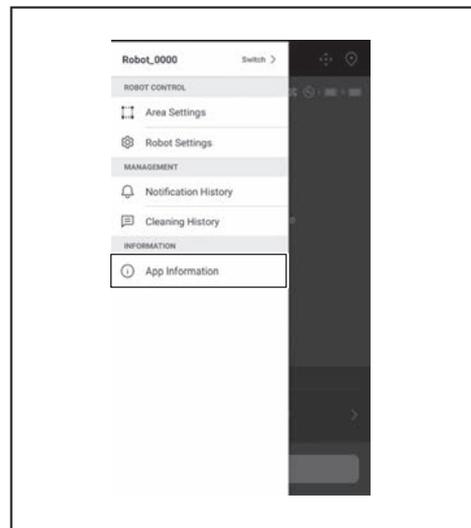


## Checking the app information

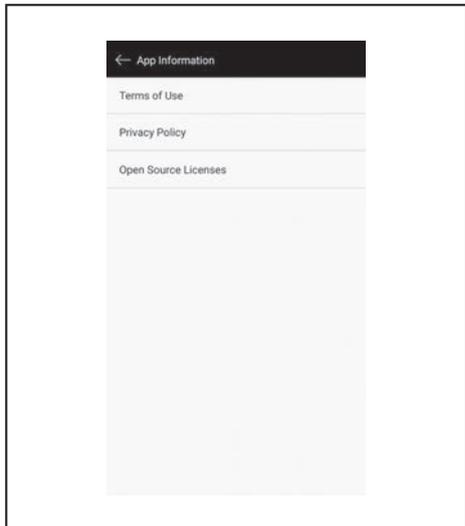
1. On the home screen, tap on .



2. Tap on [App Information].

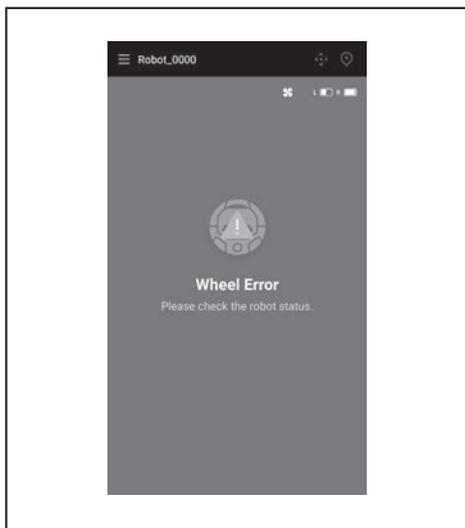
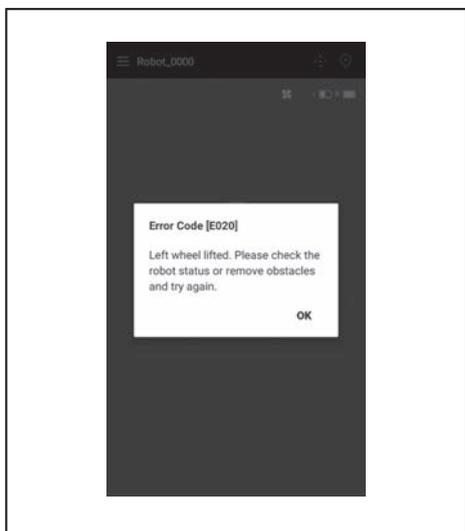


3. Tap on the information you want to check.



## Error message/dialogue

When an error has occurred, an error message or dialogue is displayed. Follow the instruction in the message or dialogue in this case.



# Appendix

## Notice Regarding Open Source Software

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## For European countries

|                   |                       |  |
|-------------------|-----------------------|--|
| Wi-Fi module      | Module Name           | LCW-006  |
|                   | Frequency Range/Power | 2412.0 - 2462.0 MHz/17.48 dBm (EIRP)<br>2422.0 - 2452.0 MHz/13.75 dBm (EIRP) |
|                   | S/W Version           | V1.0   |
| Bluetooth module  | Module Name           | T007-MA-MD   |
|                   | Frequency Range/Power | 2402.0 - 2480.0 MHz/7 dBm(EIRP)  |
|                   | S/W Version           | V01.03   |
| Remote controller | Module Name           | C011   |
|                   | Frequency Range/Power | 2402.0 - 2480.0 MHz/-4 dBm(EIRP)   |
|                   | S/W Version           | V01.04   |

This device must be installed and operated to provide a separation distance of at least 20 cm from all persons.





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