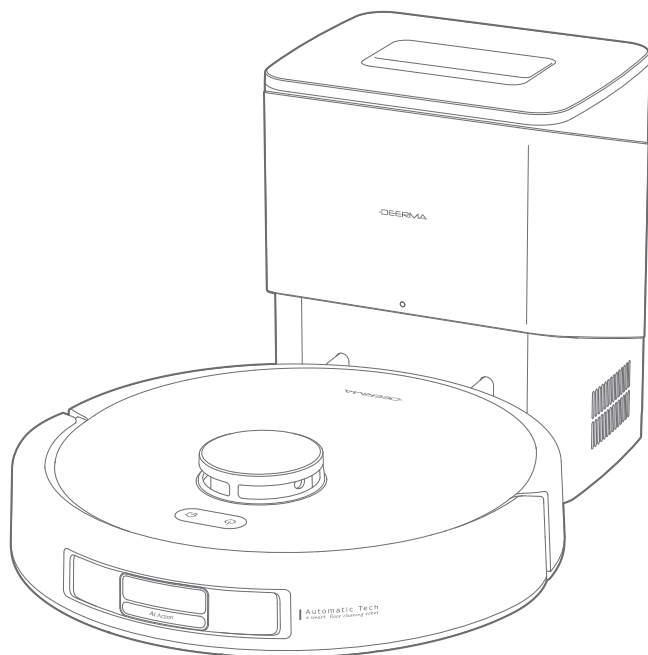


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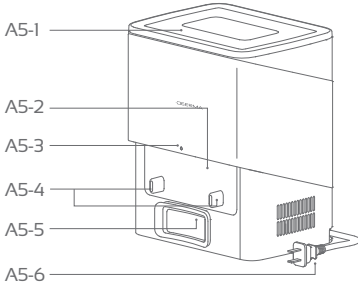
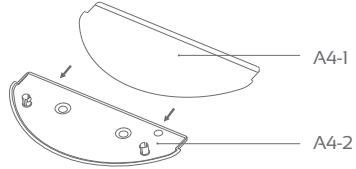
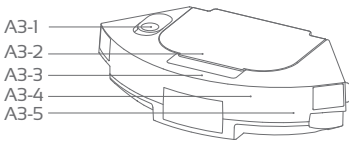
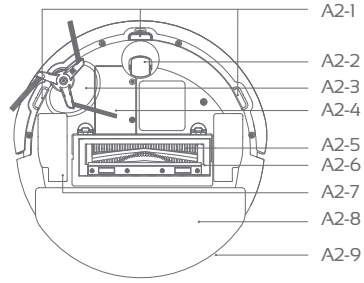
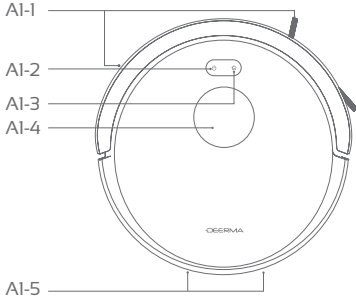
DEEM-S30 Pro Plus

Deerma
Robot Vacuum with ALL-in-one Clean Station

A powerful integrated cleaning system with sweeping and mopping.

User Manual

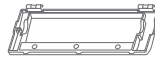
A



A6-1



A6-2



A6-3



A6-4



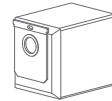
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A6-6

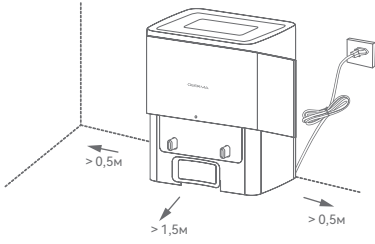


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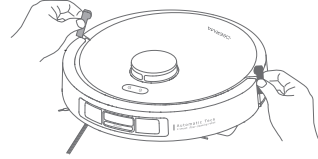


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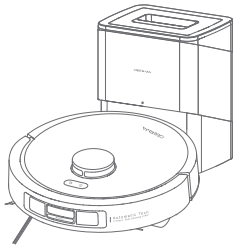
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B1



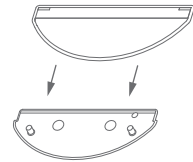
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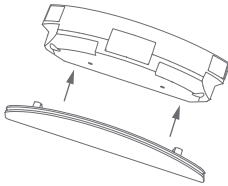
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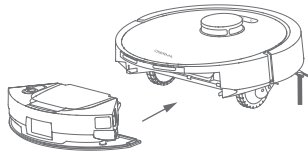
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B4-2



B4-3

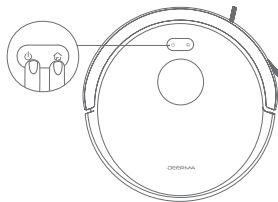


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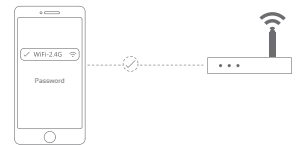
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C1

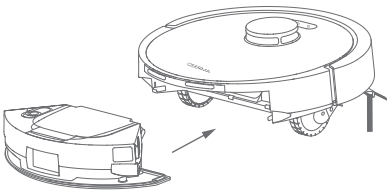


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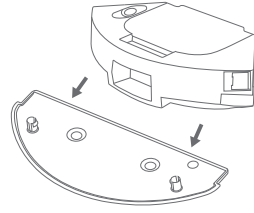


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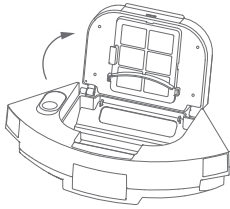
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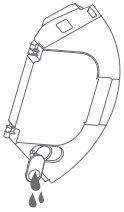
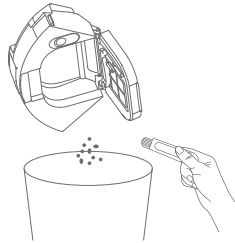
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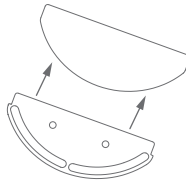
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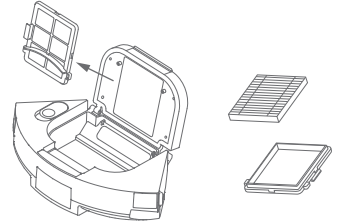
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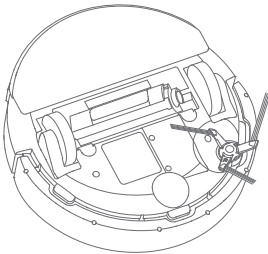
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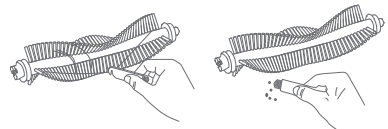
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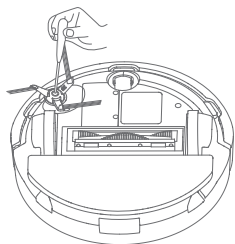
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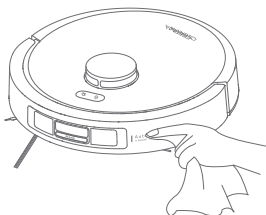
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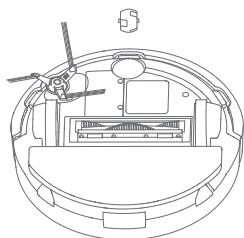
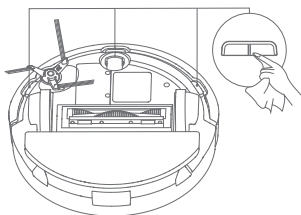
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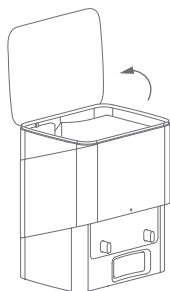
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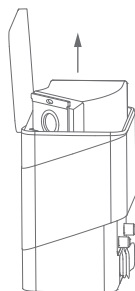
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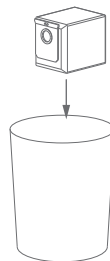
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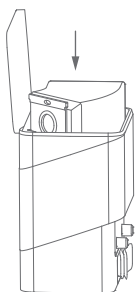
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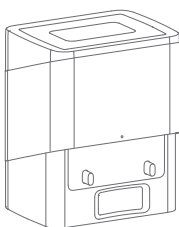
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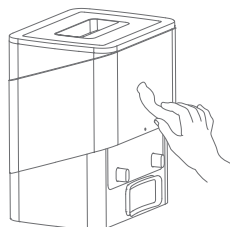
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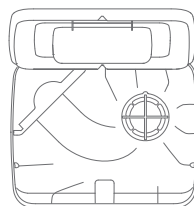
D6-4



D6-5



D7-1



D7-2

Warning

• Before using the product described in this manual, please read and follow the precautions below to avoid dangerous situations and ensure the product operates correctly.

Usage Environment and Maintenance

- Only professionals authorized by Deerma are allowed to disassemble this product. It is not recommended for users to disassemble the product themselves.
- Use only with <DEM-S30JZ> supply unit.
- The plug must be removed from the socket-outlet before cleaning or maintaining the appliance.
- Do not bend the wires excessively, and do not place items or sharp objects on the machine.
- This product is only for indoor household use.
- Do not use it outdoors, on non-floor surfaces or industrial environments.
- Do not place children, pets, or any items on the main unit.
- Do not use this product in damp environments (such as bathrooms).
- Before using this product, please remove fragile items, and clutter on the ground (such as vases, glass cup lamps, plastic bags, etc.), as well as items that may tangle the side the brush, suction channel, and drive wheel (such as wires, curtains, and other entangled objects or human body parts) to avoid damage to valuable items or influencing the main unit's operation.
- Do not place the product in areas where it may fall easily (such as tables, chairs).
- If the supply cord is damaged it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- If you need to transport or not use the product for a long time, please turn off the machine.
- Before charging, carefully check whether the power plug is properly connected to the socket.
- To prevent tripping hazards, inform other people in the room when the product is operating.
- If the dust box is full, please empty it before using.
- The suitable operating temperature of this product is 0°C to 40°C.
- Do not use this product in high-temperature environments.
- If you need to dispose of this product, please contact after-sales personnel to remove the battery. Please dispose of old batteries through safe recycling.
- The product described in this manual is not a children's toy. Children should use this product under adult supervision. The product may contain small parts and accessories, so please keep the product and accessories out of reach of children to prevent them from disassembling or damaging the product accessories, or swallowing small parts, leading to choking or other dangers.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 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. Children should be supervised to ensure that they do not play with the appliance.

Battery Safety

- When not charging or when not in use for an extended period please unplug the charger from the power outlet and disconnect it from the product.
 - Do not use chargers that are already damaged or suspected of being damaged, or have been exposed to moisture, dampness, or rain to prevent electric shock or fire.
 - **WARNING:** For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.
1. This appliance contains batteries that are only replaceable by skilled persons.
 2. Do not recharge non-rechargeable batteries.

Laser Safety

The laser distance sensor of this product meets the standards for Class I Laser Products in IEC 60825-1:2014 and will not generate hazardous laser radiation.



Pay attention to:

All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities.

Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

For detailed e-manual, please go to www.deerma.com



Component Introduction

A1—Main body

- A1-1—Impact sensor
- A1-2—Power-on/power-off button
- A1-3—Recharging button
- A1-4—Laser radar
- A1-5—Charging electrode

A3—Two-in-one water tank

- A3-1—Water inlet soft rubber cover
- A3-2—Dust box
- A3-3—Dust box cover
- A3-4—Water tank
- A3-5—Buckle

A5—Charging base

- A5-1—Top cover
- A5-2—Infrared lens
- A5-3—Indicator
- A5-4—Charging spring
- A5-5—Dust inlet
- A5-6—Power cord

A2—Robot Bottom View

- A2-1—Cliff sensor
- A2-2—Universal wheel
- A2-3—Side brush
- A2-4—Battery pack
- A2-5—Main brush
- A2-6—Main brush hood
- A2-7—Left wheel/right wheel
- A2-8—Mop holder
- A2-9—Two-in-one water tank

A4—Mop holder

- A4-1—Mop
- A4-2—Mop holder

A6—Accessories List

- A6-1—Two-in-one water tank
- A6-2—Main brush
- A6-3—Main brush hood
- A6-4—Mop holder (with a mop)
- A6-5—Mop
- A6-6—Side brush
- A6-7—Filter(already installed on the two-in-one water tank)
- A6-8—Dust bag

B1—Base Station Placement

Notes:



1. Do not put the charging base in a place under direct sunlight.
2. Make sure there's a space of at least 1.5m in front of the charging base, and a space of at least 0.5m on both two sides of it.
3. Put away the power cord to avoid moving or unplugging of the charging base due to dragging by the main body.

B2—Remove the bumper strips

Before use, please remove the bumper strips on two sides of the main body.

B3—Power On/Off and Charging

Power on the main body and put it on the charging base to be recharged.

In the first use, press “” and hold it for 3s to power on the main body. After that, put the main body on the charging base, making its charging electrode point at the charging spring of the charging base. In daily use, intelligent recharging can be realized through button “”.

Notes:

1. If the battery is low, the main body may fail in power-on and needs to be connected to the charging base manually to be charged.
2. After being connected to the charging base, the main body will be powered on automatically. During charging, the main body cannot be powered off.
3. The charging base can collect dust and recharge the main body. A new dust bag has been installed on it before delivery.
4. In order to make the main body back to the charging base smoothly after cleaning, it is suggested to make the main body depart from the charging base and not to move the charging base during cleaning.
5. It is suggested to use the product after fully charging it to protect the battery pack.

B4—Installation of the two-in-one water tank and the mop holder

B4-1 — Dismount the two-in-one water tank while pressing the buckle, remove its water inlet soft rubber cover, pour water via it and mount it again. Do not have the water tank soaked in water during water filling.

B4-2 — Mount a wrung out wet cloth cover onto the mop holder and paste the touch fasteners.

B4-3 — Mount the mop holder into bottom of the two-in-one water tank along the direction in the figure below, pointing at the location hole.

B4-4 — Mount the water tank into the main body along the direction in the figure below till a click.

Notes:

1. Do not pour hot water into the water tank, otherwise the water tank may deform.
2. Do not have the water tank flushed or soaked in water. Cleaning it with any detergent, disinfectant or solid cleaner may make it corroded or blocked.
3. When filling water into the water tank, dismount the water tank and fill clean water via the water inlet slowly.
4. In mopping, have the mop soaked, wring it out and mount it to the mop holder; after mopping, dismount the water tank and the mop holder in time and pour out the residual water in the water tank.
5. It is normal that there's a little water in the water tank because a water test has been done for it in production.



● C—How to Use

CI-Connect to APP

CI-1 — Scan the QR code below to download and install the APP.

Download the Xiaomi Home App for more smart features

CI-2 — Conduct network configuration.

Press “” and “” at the same time and hold them for 3s for network configuration.





CI-3 — Add the product to the APP and enter the Wi-Fi password.

After that, connect as instructed on the cell phone. Connect an IOS cell phone to the Wi-Fi network.

Enter the Wi-Fi setting interface of the cell phone, choose the corresponding hotspot and wait for successful connection. After that, back to the APP, click “Next” and connect as instructed.

Tips: Only a 2.4Ghz Wi-Fi network is applicable.

Button Instructions

	Power on/off	Press and hold it to power on or off; Press it to clean or pause.
	Recharging button	Press it in cleaning to stop the main body. Press it in pause to enable recharging. Press it in recharging to stop recharging. Press and hold it for 5s, then again for another 5s to restore to the defaults.
 + 		Press them and hold them for 3s to reset the Wi-Fi to enter network configuration.

Host keyboard status description


Green light is constantly on	Activation completed / In operation / Charging completed / In standby mode
Green light is flickering	Recharging / Online / Firmware update
Red light is blinking smoothly (with a color breathing effect)	During charging when the battery level is low
Turned off	Turned off / In sleep mode / Do Not Disturb mode
Green light is blinking smoothly (with a color breathing effect)	Charging / Turning on
Red light is flickering	Reset Wi-Fi / Abnormal state
Red light is constantly on	Offline

Charging base indicator status


Remaining lit in green	Power supply is connected/main body has been fully charged/recharging
Flashing in green	Collecting dust
Flashing in red	The dust bag is not in place.
Out	Power supply is not connected.

Power-on/power-off



If “” is pressed and held for 3s, the indicator will be lit, suggesting power-on of the main body.

If “” is pressed and held for 3s while the main body is paused and not currently recharged, the main body will be powered off.


Sweeping or mopping

If “” is pressed when the main body is powered on, the main body will automatically execute sweeping or mopping, depending on the accessory installed

Pause

In cleaning, “” can be pressed to pause, or pressed again to continue to clean; “” can be pressed to pause, or pressed again to make the main body back to the charging base.


Recharging/dust collection

In the standby status, “” can be pressed to make the main body recharged; after cleaning, the main body will be recharged automatically, with the indicator flashing in green; if the battery is low in cleaning, the main body will automatically back to the charging base for recharging. In recharging, the charging base collects dust from the main body.


Notes:

1. It is not allowed that charging base collects dust for multiple times in one minute.

Water tank's water filling or mop washing

If the main body needs water filling or mop washing during cleaning, press any button to pause, dismount the water tank, fill water into it (or wash the mop), mount the water tank and the mop again and press “” to continue to clean.

Wi-Fi reset

When the main body is powered on, press buttons “” and “” at the same time and held them for 3s till a prompt tone and the indicator is flashing in red, suggesting successful Wi-Fi reset.


Network configuration: Open the APP, add the product and operate as instructed on the APP.

Tip: Only a 2.4GHz Wi-Fi network is applicable.

Quick mapping

In the first use, there's no map on the APP. Please put the main body on the charging base and choose “Quick Mapping” on the APP. After that, the main body will execute mapping only and not clean. After the main body has backed to the charging base, the mapping has been completed, and the map will be saved on the APP automatically.

Whole-house cleaning

Operate on the APP or press “” to enable whole-house cleaning. After that, the main body will automatically clean along edges of the rooms and then in a row-by-row pattern, finally back to the charging base for recharging.

Cleaning by area

If cleaning by area is set on the APP, the main body will clean the areas one by one and finally back to the charging base for recharging.

Zone cleaning

If you select “Zone Cleaning” on the APP and set a target area on the map, the main body will automatically plan a route to the designated area and proceed with cleaning. After cleaning, it will return to the charging base for recharging.

Virtual wall /forbidden zone

Virtual walls and forbidden zones can be set on the APP to keep the main body from the zones needing no cleaning.

Notes:

1. Before using this function, a map needs to be saved on the APP.
2. If the main body has been moved, or the environment in the house has changed a lot, the original map may fail, and the virtual walls and forbidden zones may get lost.

Cleaning appointment

If the time for cleaning appointment is set on the APP, the main body will automatically begin to clean at the set time and back to the charging base after cleaning.

Note: If the DND mode is enabled, the main body will not execute the appointment in the time set for the DND mode.

DND mode

In the DND mode, the main body does not execute cleaning from breakpoint, cleaning with appointment, or active voice broadcast.

The DND mode is enabled by default from 23:00 to 9:00. On the DND mode setting interface, the DND mode can be enabled or disabled, and the period for it can be set.

Tip: In the period for the DND mode, the indicator will go out after the main body has been recharged for 1 minute.

Cleaning from breakpoint

If the battery is low in cleaning, the main body will automatically go back to the charging base for recharging. After recharging, it will automatically go back to the breakpoint to continue with the cleaning. If the cleaning is ended artificially, or the main body is moved or operated in another way during charging or recharging, the cleaning from breakpoint will be cancelled.

Sleep


If the main body is not in the recharging state and has not been operated for more than 5 minutes, it will automatically enter the sleep mode. In the case of sleeping for more than 6 hours, the main body will power off automatically. The main body can be awakened from sleep through any button on it or the APP.

Note: The main body does not sleep while on the charging base.

Firmware upgrading

On the APP, the product can be controlled for firmware upgrading. In firmware upgrading, the main body must be on the charging base or have a battery level above 30% and must not execute cleaning.

Default restoration

“” can be pressed and held for 5s to restore the defaults. After that, the main body will need to be connected to the APP again, and the related original settings on the APP will be cleared.

DI—Two-in-one water tank

DI-1 — Dismount the two-in-one water tank and the mop holder while pressing the buckles on left and right sides of the two-in-one water tank.

DI-2 — Dismount the water tank along the direction in the figure below.

DI-3 — Open the dust box cover of the water tank, pour out the waste in the dust box and clean up the dust box with the cleaning brush.

DI-4 — Remove the water inlet soft rubber cover of the water tank and pour out the residual water in the water tank.

Note: After mopping, dismount the water tank and pour the residual water in it, wash the mop and have it dried in midair to avoid unpleasant odor and mildewing.

DI-5 — Before use, dismount the mop from the mop holder, flush it with clean water and have it dried in midair.

Note: It is suggested to replace the mop every 3 to 6 months for a good cleaning effect.

DI-6 — Open the dust box cover of the water tank, dismount the filter holder while pressing the buckle, dismount the filter and clean it up.

Notes:

1. After cleaning the filter, have it dried in midair (for at least 24 hours) to avoid dust caking in continued use.
2. It is suggested to replace the filter every 3 to 6 months for a good cleaning effect.

D2—Main brush

- D2-1** —
1. Turn over the main body, lift the buckle and dismount the main brush hood.
 2. Dismount the main brush upward.
 3. Cut off the hair on the main brush with the small knife on the cleaning brush, and clean up the main brush.
 4. Mount the main brush again and press the buckle on the main brush hood.

D2-2 —Cleaning method for the main brush

Note: It is suggested to replace the main brush every 6 to 12 months for a good cleaning effect.

D3-Side brushes

1. Turn over the main body and dismount the screws on the side brushes.
2. Dismount the side brushes and clean them up.
3. Mount the side brushes and lock the screws.

Note: It is suggested to replace the side brushes every 3 to 6 months for a good cleaning effect.

D4-Sensors

Use soft, clean cloth to wipe the main body's laser range sensor, infrared lens, charging electrode, and cliff sensor.

Note: Do not clean the main body's sensor, the infrared lens sensor, or charging electrode with wet cloth, any detergent, any spray or any other chemical.

D5-Universal wheel

Turn over the main body, dismount the universal wheel with a screwdriver and remove the hair and dirt on it.

Note: In part replacement with help of a screwdriver, operate carefully to avoid injuries.

D6-Charging base

If the dust bag is full, replace it with a new one in time for a good dust collection effect in future.

D6-1 — Open top cover of the charging base.

D6-2 — Dismount the dust bag upward.

D6-3 — Abandon the waste dust bag.

D6-4 — Mount the new dust bag.

D6-5 — Close top cover of the charging base.

D7-Clean up the infrared lens, and the charging spring.

D7-1 — Use soft, clean cloth to remove the foreign matters on the charging base’s infrared lens and charging spring.

D7-2 — Fan filter holder

Check whether the fan filter holder has foreign matters on and whether any foreign matter is enwound on it. Clean it with soft, clean cloth.

Note: Do not clean the charging base’s infrared lens, charging spring or fan filter holder with wet cloth, any detergent, any spray or any other chemical.

Cautions: Do not clean the sensors with any detergent, any spray or any other chemical.

It is suggested to do the routine maintenance as below for a good status of the main body.

Part	Frequency of cleaning	Frequency of replacement
Side brush	Every two weeks	3-6 months
Main brush	Every two weeks	6-12months
Filter	Every two weeks	3-6months
Main brush hood	/	3-6 months (or upon wear)
Mop	/	1-3 months (or upon wear)
Dust box	Monthly	/
Universal wheel	Whenever necessary	/
Laser range sensor	Monthly	/
Cliff sensor	Monthly	/
Main body charging electrode	Monthly	/
Impact baffle	Monthly	/
Main body dust inlet	Monthly	/
Main body bottom	Monthly	/
Charging base body	Monthly	/
Charging base charging spring	Monthly	/
Charging base signal emission zone	Monthly	/
Dust bag	/	2.5 months (or when the dust bag is full)

Tips:

1. The frequencies of replacement are for reference only. If any accessory is damaged, replace it in time for a good cleaning effect.
2. If the product needs to be moved or posted, make sure its wastewater tank and clean water tank are empty to avoid product damage in moving or posting.

Fault	Solution
Power-on failure of the main body	The battery level is low. Please charge the main body before use.
Charging failure of the main body	Make sure the power supply is correctly connected if the charging base is not powered on; clean up the charging spring of the charging base, and the charging electrode of the main body if the contact between them is poor; check whether the ambient temperature is lower than 0°C or above 35°C.
Recharging failure of the main body	Make sure there's enough space close to the charging base; make sure the identification area on surface of the charging base is not blocked out by dust or other dirt; power on the charging base if it is not powered on.
Abnormal run of the main body	Power off the main body and power it on again.
Offline status of the main body	Make sure the main body has successful network configuration and is always covered by a strong Wi-Fi signal.
Wi-Fi connection failure of the main body	Make sure both the main body and the charging base are covered by a strong Wi-Fi signal, reset the Wi-Fi and conduct pairing.
Abnormal sounds in cleaning	The main brush, any side brush, the left or right wheel, or the universal wheel has foreign matter(s) on. Please power off the main body and remove the foreign matter(s).
Poor cleaning effect	Clean up the full dust box or the blocked filter or main brush.
Failure of cleaning appointment	Make sure the main body is not in the DND mode that does not support cleaning appointment. Make sure the main body is networked. If the main body is not networked, it will fail in cleaning appointment enabling due to failure in time synchronization.
Failure of cleaning from breakpoint	Make sure the main body is in the DND mode that does not support cleaning from breakpoint. Make sure that the button for recharging on the main body or the APP has not been pressed, or that the main body has not been put back to the charging base manually.
Is it necessary to disconnect the charging base from the power supply and power off the main body after charging?	In daily use, the main body is not necessary to be powered off because the power consumption in the standby mode is very low. A charging status helps realizing the best battery performance. If the product is not going to be used for a long time, disconnect the charging base from the power supply, power off the main body, store it properly and charge it every three months to avoid battery pack damage due to overdischarge.

Start after making sure the laser range sensor is not blocked out.	The laser range sensor is blocked out by a barrier or seized by a foreign matter. Please remove the barrier or the foreign matter; if the barrier or the foreign matter cannot be removed, move the main body to another position and start it.
Start after wiping the cliff sensor and moving the main body to another position.	Please move the main body to another position and start it if it is suspended in midair; wipe the cliff sensor if it is too dirty.
Inspect the impact sensor and remove the foreign matters on it.	Please tap the impact sensor for multiple times if it is seized by a foreign matter; move the main body to another position and start it if there's no foreign matter on the impact sensor.
Start the main body after putting it on a horizontal floor.	Start the main body again after putting it on a horizontal floor if it is found inclined in the start test. Move the main body to another position and start it if its wheels are suspended in midair.
Start the main body after removing the barriers close to it.	The main body is seized by a barrier. Remove the barriers close to the main body.
Make sure the two-in-one water tank is installed properly.	Mount the two-in-one water tank properly.
Make sure the mop is installed properly.	Mount the mop and make sure the mop holder is installed properly.
Put the main body back to the charging base.	The main body has failed in backing to the charging base for recharging because it cannot detect position of the charging base. Put it back to the charging base.
The battery is low. Please charge the main body.	The main body cannot start normally due to a low battery level. Please put it back to the charging base for recharging.
The driving wheels are abnormal. Please inspect them and clean them up.	The driving wheels may be enwound by a foreign matter. Please clean them up after powering off the main body.
A side brush is abnormal. Please inspect it and clean it up.	The side brush may be enwound by a foreign matter. Please clean them up after powering off the main body.
The main brush is abnormal. Please inspect it and clean it up.	The main brush may be enwound by a foreign matter. Please clean them up after powering off the main body.

Main body

Name	Robot Vacuum
Model	DEM-S30 Pro Plus
Dimensions	325×325×97 mm
Rated power	40 W
Rated voltage	14.4 V ⁼⁼⁼
Charging voltage	20 V ⁼⁼⁼
Charging Current	0.6 A
Battery capacity	2600 mA
N.W.	2.7 kg
Wireless connection	Wi-Fi IEEE 802.11b/g/n 2.4GHz

Charging base

Model	DEM-S30JZ
Dimensions	214×173×260 mm
Rated input	220-240 V- 50/60 Hz
Rated output	20 V ⁼⁼⁼ 0,6 A
Rated Power	400W
N.W.	1.8 kg

Please read this manual carefully before use and keep it properly.

Equipped with a new cleaning system that combines LDS precise navigation, anti-tangling technology, and 13,000Pa powerful suction.

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