Roborock S8 Max Ultra with Refill and Drainage System

Robotic Vacuum Cleaner User Manual

Read this user manual with diagrams carefully before using this product and store it properly for future reference.

roborock

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Safety Information

WARNING

- For use only with roborock EWFD13LRR or EWFD14LRR charger.
- To prevent injury caused by blades used to cut hair inside the main brush cover, make sure to install two main brushes in place before installing the main brush cover.
- The product must be switched off and the plug must be removed from socket outlet when not in use, before cleaning or maintaining the product.
- Connect to a properly grounded outlet only. See Grounding Instructions.
- Old hose-sets should not be reused. Only use new pipes provided with this product or recommended by Roborock.
- Place the dock in a dry place. Keep it a distance of more than 1.2m (4 ft) from baths and shower heads or isolate it with walls or a door to prevent the dock from moisture exposure.
- Install the dock in compliance with local regulations.
- Do not move a properly installed dock.
- Do not rinse the robot and the dock.

CAUTION

- Only use the product in accordance with the User Manual. Any loss or damage caused by improper use will be borne by the user.
- Roborock assumes responsibility only for losses resulting from installation performed by authorized Roborock technicians, excluding losses arising from incorrect installation by other people.
- Before installing/removing the dock and its pipes, make sure the dock is disconnected from the power source.
- Make sure dustbin, washable filter, dust bag, side brush, mop cloth, main brushes and main brush cover are installed in place before cleaning.
- Do not sit or stand on the robot or dock.
- To prevent corrosion or damage, do not use any disinfectant and only use cleaning solution recommended by Roborock in the solution cartridge.
- Do not put any low objects (such as shoes, mats) near raised areas like stairs. Otherwise, the robot may fall down caused by malfunctional sensors.
- To prevent water damage, make sure that the floor where the robot operates is free of water.
- Place the cords from other appliances out of the area to be cleaned.
- Do not operate the vacuum in a room where an infant or child is sleeping.

- Do not operate the vacuum in an area where there are lit candles or fragile objects on the floor to be cleaned.
- Do not operate the vacuum in a room that has lit candles on furniture that the vacuum may accidentally hit or bump into.
- Do not allow children to sit on the vacuum.
- Do not carry the robot using vertical bumper, top cover, side brush or bumper. Do not move the dock by lifting the dock base or dust container cover.
- Place the dock on a hard, flat floor away from fire, heat, and water. Avoid narrow spaces or locations where the robot may be suspended in the air.
- This product 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 product in a safe way and understand the hazards involved. Children shall not play with the product. Cleaning and user maintenance shall not be made by children without supervision.
- Do not dismantle, repair or modify the battery or charging dock.
- If the dock is placed in an area susceptible to thunderstorms or with unstable voltage, take protection measures.
- ⚠ To avoid burns from hot water, do not touch the water outlets.

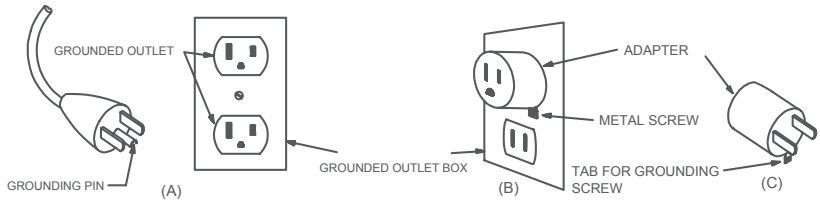
GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug.
The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-V circuit and has a grounding attachment plug that looks like the plug illustrated in sketch A in Grounding methods. Make sure that the appliance is connected to an outlet having the same configuration as the plug.
No adaptor should be used with this appliance.

Grounding methods



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Battery and Charging

- Keep the charging dock away from heat (such as radiators).
- Do not wipe the charging contacts with wet cloth or wet hands.
- Before placing the robot into storage, charge it fully, turn it off, and then choose a cool, dry place. Recharge it at least every three months to avoid battery overdischarge.
- Do not use the product when the temperature is higher than 40°C (104°F) or lower than 4°C (39°F), or there is any liquid or sticky substance on the floor.
- Do not discard waste batteries. Leave them with a professional recycling organization.
- To transport the product, make sure it is powered off and shut down, and empty the remaining fluid in the dock. At the same time, empty and rinse the cleaning solution cartridge, leave it air dry completely and then reinstall it. Original packaging is advised.

International Symbols Explanation

~ – ALTERNATING CURRENT symbol [symbol IEC 60417-5032 (2009-02)]

⎓ – DIRECT CURRENT symbol [symbol IEC 60417-5031 (2009-02)]

⏚ – PROTECTIVE EARTH (Protective Ground) symbol [symbol IEC 60417-5019 (2009-02)]

FCC/IC Statement

Compliance Information	
Product Name	Robotic Vacuum Cleaner with Charging Dock
Product Model	Robotic Vacuum Cleaner Model: S83USC Empty Wash Fill Dock: EWFD13LRR Empty Wash Fill Dock Auto: EWFD14LRR
Compliance Statement	This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.
Correspondence of the responsible party in USA	
Company	Roborock Technology Co.
Address	ROOM 1227, 12TH FLOOR, 1000 N. WEST STREET, WILMINGTON, DE 19801
Email	support@roborock.com

A Product Overview

A1 Robot (Top View)

—Mop Only/Child Lock
- Press to start Mop Only
- Press and hold for 3 seconds to enable/disable Child Lock

—Power/Clean
- Press and hold to turn the robot on or off
- Press to start cleaning

—Power Indicator Light
- White: Battery level ⩾ 15%
- Red: Battery level < 15%
- Breathing: Charging or starting up
- Flashing red: Error

—Dock
- Press to start docking/emptying
- Press and hold to wash the mop cloths

Note: Press any button to pause the robot during cleaning or docking.

A1-1—Vertical Bumper
A1-2—LiDAR Sensor
A1-3—Wall Sensor
A1-4—Reactive 3D Obstacle Avoidance Sensor
A1-5—Dock Locator
A1-6—Infrared Fill Light

A2 Robot (Bottom View)

A2-1—Cliff Sensors
A2-2—Carpet Sensor
A2-3—Omnidirectional Wheel
A2-4—Flexible Side Brush
A2-5—Main Brushes
A2-6—Main Brush Cover Latches
A2-7—Main Wheels

A3 Robot (Top Cover Open)

A3-1—WiFi Indicator Light
- Off: WiFi disabled
- Flashing slowly: Waiting for connection
- Flashing quickly: Connecting
- Steady: WiFi connected

A3-2—Reset Button
A3-3—Charging Contacts
A3-4—Communication Sensor
A3-5—Self-Filling Port
A3-6—Positioning Button
A3-7—Air Outlets
A3-8—VibraRise Module
A3-9—Bumper

A4 VibraRise Module

A4-1—Mop Cloth Attachment Slot
A4-2—Vibration Module
A4-3—Edgewise Mopping Module

Note: The mop cloth mounts are non-detachable.

A5 VibraRise Mop Cloth

A5-1—Hook and Loop Pads

Note: Secure the mop cloth flat in place.

A6 Edgewise Mop Cloth

A6-1—Mop Cloth Screw

A7 Dustbin

A7-1—Dustbin Latch
A7-2—Filter Latch
A7-3—Air Inlet
A7-4—Washable Filter
A7-5—Suction Inlet

A8 Dock Base

A9 Disposable Dust Bag

A10 Power Cord

A11 Empty Wash Fill Dock Auto

A11-1—Charging Contacts
A11-2—Robot Refill Port
A11-3—Dust Container Cover
A11-4—Drying Air Outlets
A11-5—Cleaning Tank of Edgewise Mopping Module
A11-6—Dock Base

A11-7—Cleaning Solution Cartridge
A11-8—Dust Bag Slot
A11-9—Filter
A11-10—Dock Location Beacon
A11-11—Suction Inlet
A11-12—Water Filter
A11-13—Status Indicator Light

- Breathing: Emptying/Mop washing
- Red: Dock error
- Dim: Charging/Drying
- Off: Powered off

Note: To minimize disturbance, the indicator light will be off or dim in Do Not Disturb (DND) mode.

A11-14—Mop Washing Module
A11-14-1—High-Speed Maintenance Brush
A11-14-2—Washing Strip
A11-14-3—Water Outlets
A11-14-4—Maintenance Brush Latch

A12 Power Cord Storage

A12-1—Cord Storage Slot
A12-2—Power Port
A12-3—Cord Outlets
A12-4—Water Pipe Slot
A12-5—Water Inlet
A12-6—Water Outlet

Note: Power cord can exit at either side.

A13 Installation Accessories

A13-1—Inlet Pipe (1/4" pipe) × 1
A13-2—Drainpipe (3/8" pipe) × 1
A13-3—Harness Tube × 1
A13-4—1/4" Lock Plate × 5
A13-5—3/8" Lock Plate × 3
A13-6—Tap Water Filter × 1
A13-7—Clean Water Three-Way Valve (Gasket Pre-Installed) × 1

A14 Refill and Drainage Pipes

A14-1—Tap Water Supply
A14-2—Tap Water Filter
A14-3—Clean Water Three-Way Valve
A14-4—3/8" Square Elbow
A14-5—3/8" Lock Plate
A14-6—Harness Tube
A14-7—Drainpipe (3/8" pipe)
A14-8—Floor Drain or Sewer Pipe
A14-9—Dock Power Cord
A14-10—1/4" Lock Plate
A14-11—1/4" Square Elbow
A14-12—Snap Ring
A14-13—Inlet Pipe (1/4" pipe)

B Installation

B1 Important Information

B1-1— Tidy cords, hard or sharp objects (such as nails and glass), and loose items from the ground and move any unstable, fragile, precious, or dangerous items to prevent personal injury or property damage due to items becoming tangled in, struck by, or knocked over by the robot.

B1-2— When using the robot in a raised area, always use a physical security barrier to prevent accidental falls that may result in personal injury or property damage.

Notes:

- When using the robot for the first time, follow it throughout its whole cleaning route and watch for potential problems. The robot will be able to clean by itself in future uses.
- To prevent excessive buildup of dirt on the mop cloths, floors should be vacuumed at least three times before the first mopping cycle.

B2 Check the Installation Environment

Before installation, check whether the following requirements are met and identify the water inlet, outlet, and placement locations for the dock in your home:

1. The water inlet pressure range should be 0.1-0.4 MPa. If it exceeds 0.4 MPa, a pressure-reducing valve should be installed.
2. The diameter of the drainpipe outlet should be no less than 0.015 m (0.05 ft). The height difference between the highest point of the drainage pipe and the floor surface where the dock is placed should not exceed 1 m (3.3 ft), preferably not exceed 0.5 m (1.6 ft).
3. The dock should be placed against a wall on a hard, flat surface (wood/tile etc.) with

good WiFi coverage and a power outlet or power strip nearby. Reserve a space of at least 0.305 m (1 ft) in height, 0.42 m (1.4 ft) in width, and 1 m (3.3 ft) in depth for placing the dock, ensuring both sides and the front are free of obstructions that could impede the robot from docking and departing.

4. It is strictly prohibited to place the dock in damp, sun-exposed, or rainy environments.
5. There should be no thresholds, slide rails, or steps higher than 0.02 m (0.8 ft) between the dock and the cleaning area to prevent the robot from missing spots and getting stuck.
6. Please avoid arranging pipes through doorways or corridors.

B2-1—Tap Water Supply
B2-2—Three-Prong Power Outlet
B2-3—Floor Drain or Sewer Pipe
B2-4—More than 0.305 m (1 ft)
B2-5—More than 1 m (3.3 ft)
B2-6—More than 0.42 m (1.4 ft)

Notes:
- Before installing, disconnect the power supply of the dock, and close the main water valve, faucet valve or angle valve. Drain pipelines, ensure they are connected without leakage, and then power on the dock.
- All installation diagrams are for reference only. The actual installation situation may vary.

B3 Install the Dock Base

B3-1— Place the dock on the reserved space and remove the foam used to secure the mop washing module in shipment at the bottom.

B3-2— Attach the dock base by pressing down both sides of the base firmly, and then pressing the connecting part in the middle until you hear a click.

B4 Connect the Power Cord

Plug the power cord firmly into the dock power port, and keep the excess cord inside the storage slot.

Note: Make sure to insert the power plug all the way in and do not connect to the power supply.

B5 Connect the Water Inlet and Outlet

B5-1— Press the snap ring at the connector against the elbow and at the same time, pull out the plugs of the water inlet and outlet in the opposite direction.

B5-2— Rotate the water inlet and outlet to directions suitable for installation. Connect one ends of the 1/4" pipe and 3/8" pipe to the corresponding positions, insert the corresponding lock plate into the slim space between the snap ring and elbow, and then snap the pipelines into the slots.

Notes:
- Slightly lift the dock when rotating the water inlet elbow.
- When installing the pipes, make sure to insert them all the way in.
- Store the plugs removed from the dock and additional pipes and lock plates properly.

B6 Connect to Refill Pipeline

Make sure to close the tap water valve that supplies water to the dock. After confirming that the faucet or angle valve is closed, install the tap water filter in the correct direction to the 1/2" water inlet of the clean water three-way valve. Then, connect the 1/2" water inlet and 1/2" water outlet of the clean water three-way valve to the water inlet pipeline. Finally, connect the other end of the cut-to-fit 1/4" pipe to the 1/4" water outlet of the clean water three-way valve and insert the lock plate into the snap ring.

B6-1—Tap Water Supply
B6-2—Tap Water Filter
B6-3—1/2" Water Inlet
B6-4—1/4" Lock Plate
B6-5—Snap Ring
B6-6—1/4" Water Outlet
B6-7—1/2" Water Outlet
B6-8—Gasket
B6-9—Inlet Pipe (1/4" Pipe)

Notes:
- Only connect to room temperature tap water, rather than reclaimed water or hot water.
- The tap water filter must be installed strictly following the instructions. If installed in the reverse direction, it could be damaged.
- If the 1/2" water outlet does not need to be connected to a water pipe, use a suitable valve cap instead.

- After cutting the pipe, start by trimming the end to ensure it forms a straight line rather than a curve, and then reround it.

B7 Connect to Drainage Pipeline

Connect the cut-to-fit 3/8" pipe to a floor drain or sewer pipe.

Notes:

- Ensure the floor drain or drainpipe outlet is unobstructed. Avoid inserting the drainpipe into a sealed chamber to prevent poor drainage.
- Ensure the connection between the drainpipe and the floor drain or sewer pipe is securely fastened.
- If other water-using equipment is connected to the same drainpipe, make sure that their drainage doesn't disrupt the dock's drainage to prevent leaks.
- If necessary, encircle the cut-to-fit harness tube around both the 1/4" and 3/8" pipes.

B8 Connect the Power Supply

After placing the dock at the location reserved, open the tap water valve and the clean water three-way valve. Ensure there are no leaks throughout the pipeline. Then, connect the power supply, and make sure the status indicator light comes on.

Notes:

- If the power cord hangs vertically to the ground, it may be caught by the robot, causing the dock to be moved or disconnected.
- The status indicator light is bright when the dock is powered on, and dim during robot charging or mop cloth drying.
- The status indicator light turns red if an error occurs.
- Place the dock on a hard, flat floor away from fire, heat, and water. Avoid narrow spaces or locations where the robot may be suspended in the air.
- Placing the dock on a soft surface (carpet/mat) may cause the dock to tilt and cause docking and departing problems.
- Keep the dock away from direct sunlight or anything that may block the dock location beacon, otherwise the robot may fail to return to the dock.
- Do not use the dock without the refill and drainage pipes, high-speed maintenance brush, dust container cover, disposable dust bag, cleaning tank of edgewise mopping module, cleaning solution cartridge, or water filter.
- Maintain the dock according to the Routine Maintenance. Do not clean the dock power cord and charging contacts with a wet cloth or tissue.
- All docks are subject to water-based tests before leaving the factory. It is normal that a small amount of water remains in the waterway of the dock.

B9 Powering On & Charging

Press and hold ⏻ to power on the robot. Wait until the power indicator light is steady, and then place the robot in front of the dock. Make sure that the dock is plugged in. Then, press ⌂ and the robot will automatically return to the dock for charging. The robot is equipped with a built-in high-performance lithium-ion rechargeable battery pack. To maintain battery performance, keep the robot charged.

B9-1— Dock status indicator light dim, robot power indicator light breathing: Charging

Note: The robot may not be turned on when the battery is low. In this case, place the robot to the dock for charging.

B10 Check the Refill and Drainage System

To check whether the refill and drainage system is installed successfully, press and hold ⏻ and ⌂ simultaneously for 3 seconds on the docked robot to start a self-check. During the self-check process, observe whether the dock can normally fill and drain water, and check the self-check results.

Note: The self-check of the refill and drainage system can be started in the app.

Connecting to the App

1. Download the App

Search for "Roborock" in the App Store or Google Play or scan the QR code to download and install the app.

2. Reset WiFi

a. Open the top cover and find the WiFi indicator light.

b. Press and hold ◌ and ⌂ simultaneously until you hear the "Resetting WiFi" voice message. The reset is complete when the WiFi indicator light flashes slowly. The robot will then wait for a connection.

Note: If you cannot connect to the robot due to your router configuration, a forgotten password, or any other reason, reset the WiFi and add your robot as a new device.

3. Add Device

Open the Roborock app, tap the "Scan to Connect" or "Search for Device" button and add your device following the in-app guide.

Notes:

- The actual process may vary due to ongoing app updates. Follow the guide provided in the app.
- Only 2.4 GHz WiFi is supported.
- If the robot waits more than 30 minutes for a connection, WiFi will be automatically disabled. If you want to reconnect, reset the WiFi before proceeding.

C Instructions for Use

C1 Adding the Cleaning Solution

C1-1— Remove the dust container cover, pull out the entire cleaning solution cartridge by its bottom handle, and then place it on a hard, flat surface.

Note: To prevent the dust container cover from falling and hitting the robot, remove the cover with both hands, one on each side.

C1-2— Open the lid of the cartridge and add cleaning solution.

C1-3— Close the lid and put the cartridge back to the dock. Press down the cartridge until you hear it lock with a click.

C1-4— Install the dust container cover in place to make sure the dust container is securely sealed.

Notes:

- Make sure that the cleaning solution cartridge is entirely removed before adding cleaning solution.
- To prevent corrosion or damage, do not use any disinfectant and only use cleaning solution recommended by Roborock in the solution cartridge.
- Cleaning solution is not included in the package. Purchase one if needed.

C2 Filling/Draining

During operation, the dock will automatically fill and drain water.

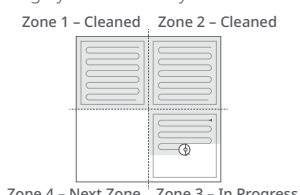
C3 Turning On/Off

Press and hold ⏻ to turn on the robot. The power indicator light will come on, and the robot will be on standby.
Press and hold the ⏻ button to turn off the robot and complete the cleaning cycle.

Note: The robot cannot be turned off when it is being charged.

C4 Starting Cleaning

Press ⏻ to start cleaning. The robot will plan its cleaning route and in each room, it firstly draws out zone edges and then fills the room in a zigzag pattern. In so doing, the robot cleans all rooms one by one, thoroughly and efficiently.



Notes:

- To make sure the robot returns to the dock automatically, start the robot from the dock and do not move the dock during cleaning.
- Cleaning cannot start if the battery level is too low. Allow the robot to charge before starting a cleanup.
- If cleaning is completed in less than 10 minutes, the robot will clean the area twice.
- If the battery runs low during a cleaning cycle, the robot will automatically return to the dock. After charging, the robot will resume where it left off.
- The robot will retract the mop cloth mounts to clean the carpet. You can also set the carpet as a no-go zone in the app to avoid it.
- Before starting each cleaning task, make sure that the mop cloths have been properly installed.

C5 Spot Cleaning

Press ⟳ and ⏻ simultaneously to start spot cleaning.
Cleaning range: The robot cleans a 1.5 m (4.9 ft) × 1.5 m (4.9 ft) square area centered on itself.

Note: After spot cleaning, the robot will automatically return to the starting point and be on standby.

C6 Mop Only

Press ⟳ to start Mop Only. The main brushes rise, the main brushes and fan stop operating, and the VibraRise module lowers.

Note: Compared with the traditional cleaning mode, noise emanating from Mop Only is much lower.

C7 Pause

When the robot is running, press any button to pause it, press ⏻ to resume cleaning, press ⌂ to send it back to the dock, and

press and hold ⌂ to wash the mop cloths and then resume cleaning.

Note: Placing a paused robot on the dock manually will end the current cleanup.

C8 Sleep

If the robot is paused for over 10 minutes, it will go to sleep, and the power indicator light will flash every few seconds. Press any button to wake the robot up.

Notes:

- The robot will not go to sleep when it is charging.
- The robot will automatically shut down if left sleep for more than 12 hours.

C9 Washing the Mop Cloths

During cleaning, the robot automatically determines when it should return to the dock for mop washing and water tank refilling to maximize its mopping performance. To manually start washing, press and hold ⌂ or tap the corresponding button in the app. Press any button to stop washing.

Notes:

- To make sure the robot to wash the mop cloths automatically, start the robot from the dock and do not move the dock during cleaning.
- Mop wash frequency and mode can be modified in the app.
- To avoid burns from hot water, do not touch the water outlets.

C10 Emptying

After cleaning, the robot will return to the dock and auto-emptying will begin as needed. To manually start emptying, press ⌂ on the docked robot or tap the corresponding button in the app. Press any button to stop emptying.

Notes:

- When emptying has been left unused for a long period, empty the dustbin manually and make sure the air inlet is clear for optimal emptying performance.
- Auto-emptying can be disabled in the app.
- Avoid frequent manual emptying.

C11 Drying

Drying starts automatically after mop washing or after cleaning is completed. To manually start or stop drying, tap the corresponding button in the app.

Notes:

- Stay away from the drying air outlets during drying.
- Drying duration can be modified in the app.
- Auto-drying can be disabled in the app.

C12 Auto Cleaning Solution Addition

The robot will automatically add cleaning solution to the water for mop washing and robot water tank refilling according to the preset ratio to ensure optimal mopping performance.

Note: Smart Cleaning Solution Filling can be disabled in the app.

C13 Charging

After cleaning, the robot will automatically return to the dock to charge.

Press ⌂ to send the paused robot back to the dock. The power indicator light will breathe during robot charging.

Note: If the robot fails to find the dock, it will automatically return to its starting position. Place the robot on the dock manually to recharge.

C14 DND Mode

The default Do Not Disturb (DND) period is from 22:00 to 08:00. You can use the app to disable the DND mode or modify the DND period, or set whether to enable auto top-up, emptying and drying, to dim the button light, or lower the volume of the voice message during the DND period.

C15 Child Lock

Press and hold ⌂ to enable/disable Child Lock. You can also set it in the app. Once enabled, the robot will not react to button presses when it is stationary. When the robot is cleaning or docking, press any button to pause it.

C16 Error

If an error occurs, the power indicator light on the robot will flash red or status indicator light on the dock will be steady red. A pop-up notification will appear in the app and a voice alert may sound.

Notes:

- The robot will go to sleep automatically if left in a malfunctioning state for over 10 minutes.

• Placing a malfunctioning robot on the dock manually will end the current cleanup.

C17 Resetting the System

If the robot does not respond when a button is pressed or cannot be turned off, reset the system by pressing the Reset button.

Note: After resetting the system, existing settings such as scheduled cleaning and WiFi will be restored to factory settings.

C18 Restoring Factory Settings

If the robot does not function properly after a system reset, switch it on. Press and hold ⌂ and at the same time, press the Reset button until you hear the "Restoring factory settings" voice message. The robot will then be restored to factory settings.

D Routine Maintenance

Note: The frequency of replacement may vary with the actual situation. If abnormal wear occurs, replace the parts immediately.

D1 Main Brushes

*** Clean every 2 weeks and replace every 6-12 months.**

D1-1—Hair-Blocking Rings
D1-2—Main Brush Caps
D1-3—Main Brush Cover
D1-4—Latches
D1-5—Main Brushes
D1-6—Main Brush Bearing

D1-7—Turn over the robot and press the two latches inwards to remove the main brush cover.

D1-8—Pull out the main brushes and remove the main brush bearings, main brush caps, and hair-blocking rings. Remove any entangled hair or dirt at both ends of the main brushes. Then, reinstall the hair-blocking rings, main brush caps, and then main brush bearings.

D1-9—Reinstall the main brushes. Firmly snap the main brush bearings into place. Only after the bearings are securely installed, fit the main brush cover.

D1-10—Reinstall the main brush cover. Make sure its four teeth are fully seated in the slots, and press the main brush cover until you hear it lock with a click.

Notes:
• It is recommended to wipe the main brushes with a wet cloth. If the main brushes are wet, air-dry them away from direct sunlight.
• Do not use corrosive cleaning fluid or disinfectant to clean the main brushes.
• To prevent injury caused by blades used to cut hair inside the main brush cover, make sure to install two main brushes in place before installing the main brush cover.

D2 Flexible Side Brush

*** Clean monthly and replace every 3-6 months.**

Unscrew the side brush screw. Remove and clean the side brush. Reinstall the brush and tighten the screw.

D3 Omnidirectional Wheel

*** Clean as required.**

D3-1—Use a tool, such as a small screwdriver, to pry out the axle and take out the wheel.

Note: The omnidirectional wheel bracket cannot be removed.

D3-2—Rinse the wheel and the axle with water to remove any hair and dirt. Air-dry, reinstall, and press the wheel and axle back in place.

D4 Main Wheels

*** Clean as required.**

Clean the main wheels with a soft, dry cloth.

D5 Dustbin

*** Clean as required.**

D5-1—Open the top cover and press the dustbin latch to take out the dustbin.

D5-2—Remove the washable filter and empty the dustbin.

D5-3—Fill the dustbin with clean water and reinstall the washable filter. Gently shake the dustbin, and then pour out the dirty water.

Note: To prevent blockage, only use clean water without any cleaning liquid.

D5-4—Leave the dustbin and the washable filter to dry.

D6 Washable Filter

* Clean every 2 weeks and replace every 6-12 months.

D6-1—Remove the filter.

D6-2—Rinse the filter repeatedly and tap it to remove as much dirt as possible.

Note: Do not touch the surface of the filter with hands, brush, or hard objects to avoid potential damage.

D6-3—Allow at least 24 hours for the filter to dry thoroughly and reinstall it.

Note: Purchase an additional filter and alternate if necessary.

D7 Edgewise Mop Cloth

* Clean as required and replace every 3-6 months.

D7-1—Unscrew the screw in the middle of the mop cloth.

D7-2—Wash the mop cloth and air-dry it.

D7-3—Reinstall the mop cloth and tighten the screw.

Note: A dirty mop cloth will affect the mopping performance. Clean it before use.

D8 VibraRise Mop Cloth

* Clean as required and replace every 3-6 months.

D8-1—Remove the mop cloth from the mop cloth mount. Clean the mop cloth and air-dry it.

Note: A dirty mop cloth will affect the mopping performance. Clean it before use.

D8-2—Slide the mop cloth in from the opening of the attachment slot, and then stick it flat in place.

D9 Robot Sensors

* Clean as required.

Use a soft, dry cloth to wipe and clean all sensors, including:

D9-1—Reactive 3D Obstacle Avoidance Sensor
D9-2—Dock Locator
D9-3—Carpet Sensor
D9-4—Wall Sensor
D9-5—Communication Sensor
D9-6—Cliff Sensors

D10 Charging Contacts

* Clean as required.

Use a soft, dry cloth to wipe the charging contacts on the robot and the dock.

D11 Moving the Dock

To move the dock, grip the cord storage slot on the back with one hand and the inner side of the front board with the other hand. Do not lift the base directly to prevent the dock from falling off.

D12 High-Speed Maintenance Brush

* Clean as required and replace every 6-12 months.

Lift the high-speed maintenance brush latch and remove the brush. Remove any entangled objects in the high-speed maintenance brush and rinse it clean. Reinstall the brush and latch it in place.

D13 Water Filter

* Clean as required.

Pull out the filter. Press the latch on the side of the filter to flip it downwards open. Rinse it with water, use a soft, dry cloth to wipe the cleaning tank, and then reinstall the filter by locking the latch. Press down the filter until you hear it lock with a click.

D14 Cleaning Tank of Edgewise Mopping Module

* Clean as required.

D14-1—Remove the cleaning tank.

D14-2—Rinse the cleaning tank with water.

D14-3—Reinstall the cleaning tank.

D15 Replacing the Disposable Dust Bag

* Replace regularly or when it is full.

D15-1—Remove the dust container cover.

Note: To prevent the dust container cover from falling and hitting the robot, remove the cover with both hands, one on each side.

D15-2—Remove the dust bag and discard it.

Notes:

- The dust bag handle seals the bag on removal to prevent leakage.
- Always install a dust bag before putting back the dust container cover to avoid auto-emptying without the bag. You can also disable auto-emptying in the app.

D15-3—Clean the filter with a dry cloth, insert a new disposable dust bag into the slot, and spread it evenly to ensure it is installed in place.

Note: Make sure the disposable dust bag is properly installed to avoid waste escaping and damaging the dock.

D15-4— Install the dust container cover in place to make sure the dust container is securely sealed.

D16 Removing Water Pipes

D16-1— Disconnect the power and water supply. Pull out the lock plate at the connection.

D16-2— Hold the snap ring at the connection to remove the two pipes one by one.

Notes:

- When disconnecting the water pipes, use a container to capture the flowing water and avoid wetting the floor.
- Avoid forcibly pulling out the water pipes, or the product may be damaged.

D17 Draining the Remaining Water

To transport or mail the product, empty the remaining fluid in the dock using the app. At the same time, empty and rinse the cleaning solution cartridge, leave it to air dry completely and then reinstall it.

D18 Battery

The robot is equipped with a built-in high-performance lithium-ion rechargeable battery pack. To maintain battery performance, keep the robot charged during normal use.

Note: If the robot will be left unused for a long period, turn it off and charge it at least every three months to avoid battery damage caused by overdischarge.

Environment Protection Information

Removing the Battery

*** The following information applies only when disposing of the robot and should not be followed for day-to-day operations.**

The chemical substances contained in the built-in lithium-ion battery of this product can cause environmental pollution. Remove the battery before disposing of this product and hand it to a professional battery recycling facility for centralized disposal.

1. Operate the robot without connecting to the dock until it runs out of battery.
2. Turn off the robot.
3. Unscrew the battery cover.
4. Remove the battery cover.
5. Press the latch to pull out the battery connector and remove the battery.

Notes:

- Before removing the battery, make sure it is fully drained. Do not attempt to remove the battery if the robot is connected to the dock.
- Remove the entire battery pack. Avoid damaging the battery pack casing to avoid short-circuits or leakage of hazardous substances.
- In the event of accidental contact with battery fluid, rinse thoroughly with water and seek immediate medical care.

Basic Parameters

Robot

Model	S83USC
Battery	14.4V/5200mAh (TYP) lithium-ion battery
Rated Input	20V ⎓ 1.5A
Charging Time	Approx. 4 hours

Note: The serial number is on a sticker on the underside of the robot.

Empty Wash Fill Dock Auto

Model	EWFD14LRR
Rated Input Voltage	120V~
Rated Frequency	60Hz
Rated Input (Dust collection)	6A
Rated Input (Hot water mop washing)	12A
Rated Input (Charging & drying)	1.35A
Rated Output	20V ⎓ 1.5A
Charging Battery	14.4V/5200mAh (TYP) lithium-ion battery
Maximum Water Inlet Pressure	0.4Mpa
Minimum Water Inlet Pressure	0.1Mpa

Common Issues

Issue	Solution
Unable to power on	• Battery low. Put the robot on the dock and charge it before use. • Battery temperature too low or too high. Only use the robot within the range of 4-40°C (39-104°F).
Unable to charge	• Dock not connected to power. Check whether both ends of the power cord are properly connected. • Poor contact. Clean the charging contacts of the dock and the robot. • Confirm that the dock indicator light is on.
Slow charging	• When used at high or low temperatures, the robot will automatically reduce its charging speed to extend battery life. • Charging contacts dirty. Wipe them with a dry cloth.
Unable to return to dock	• Too many obstacles near the dock. Move it to an open area. • Robot too far from the dock. Place it closer and retry.
Noise during cleaning	• The main brushes, flexible side brush, or main wheels may be jammed. Turn off the robot and clean them. • The omnidirectional wheel may be jammed. Use a screwdriver to remove it for cleaning.
Unable to connect to WiFi	• WiFi disabled. Reset the WiFi and try again. • Poor WiFi signal. Move the robot to an area with good WiFi reception. • Abnormal WiFi connection. Reset the WiFi, download the latest app version and retry. • Unable to connect to WiFi abruptly. There may be an error with your router settings. Contact Roborock Customer Service for help with troubleshooting.

Issue	Solution
Is power always being drawn when the robot is on the dock?	• The robot will draw power while it is docked to maintain battery performance, but the power consumption is extremely low.
Does the robot need to be charged for at least 16 hours for the first three uses?	• No. Lithium-ion batteries have no memory effect. The robot can be used once fully charged.
The robot does not resume cleaning after recharging	• Make sure that the robot is not in DND mode. DND mode will prevent auto top-up. • If the robot is placed manually on the dock or sent to dock by pressing buttons, it will not be able to resume cleaning.
Scheduled cleaning is not working	• Keep the robot charged. Scheduled cleaning can only begin when the battery level is above 15%.
The flexible side brush is unable to extend	• Check whether the FlexiArm Extend Cleaning feature is enabled in the app. • The flexible side brush does not extend for every corner or every time when the robot cleans along the wall. • Check whether the flexible side brush is jammed.
The edgewise mopping module is unable to rotate	• Check whether the edgewise mopping module is jammed.

Common Issues

Issue	Solution
The robot begins to miss certain spots	• The wall sensor, cliff sensors, or carpet sensor may be dirty. Clean them with a soft, dry cloth.
Poor cleaning performance and/or dust leakage	• The dustbin is full and needs emptying. • The filter is blocked and needs cleaning. • The main brushes are tangled up. Clean the main brushes.
No or little water during mopping	• Use the mobile app to increase the scrub intensity & water flow.
The status indicator light is steady red	• The dust container cover is not in place. Check and install in place. • Voltage error. Check that the local voltage meets the requirements listed on the dock. • The refill and drainage pipes are not installed or not properly installed. • Check that the water filter has been correctly installed.
Reduced emptying performance or unusual noise when emptying	• The main brushes or main brush cover is not properly installed. Check and install in place. • The filter, suction inlet, air inlet, or dustbin is blocked. Clean to remove blockage.
Voice alert Error 42 occurs and the maintenance brush module stops at one side of the cleaning tank	• If the brush module stops at the left side, it may be jammed. Remove any items jamming it. • If the brush module stops at the right side, the filter may be blocked or is not installed in place. Clean and install in place.

Issue	Solution
Reduced mop washing performance	• The mop cloths are not attached properly. Reinstall them. • The floor is dirty. Change the mop washing mode to "Deep" in the app for better cleaning.
Unable to auto-empty	• Auto-emptying is disabled. Check in-app settings. • Dock dust container cover is not installed. Check and install. • Auto-emptying will not be triggered if the robot returns to the dock without cleaning. • The robot will not auto-empty after returning to the dock in DND mode. Adjust cleaning or DND period, or start emptying manually.
Unable to wash the mop cloths	• The mop cloths will not be washed if not used. • If the robot does not start from the dock or no dock is found on the app map, it will not return to the dock for mop washing. • The refill and drainage pipes are not installed or not properly installed. • Check that the water filter has been correctly installed.
Unable to start auto-drying	• Auto-drying is disabled. Check in-app settings. • If you press a robot button or the robot departs the dock during drying, the drying will end in advance. • In a humid environment, it is recommended to extend the drying duration in the app to improve the drying performance.
Unable to wash the mop cloths with hot water	• Check that Mop Washing with Hot Water is enabled in the app.