

Sveabot M100E Autonomous Floor Scrubber

User Manual

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Revisions:

Version	Date	Description
1.0	2023.04.12	First release

Read Before Use:

	Improper use may result in damage or performance degradation. If you have any questions during use, contact the customer service.
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Disclaimer:

- The purchased products, services, and features are stipulated by the contract. All or part of the products, services, and features described in this manual may not be within the scope of your purchase or usage. Unless otherwise specified in the contract, all the content in this manual is provided "AS IS" without warranties of any kind, express or implied.
- The content of this manual is subject to change due to product upgrades and other reasons. Sveaverken reserves the right to modify the content of this manual without notice.
- This manual only provides guidance for use of this product. Every effort has been made in the preparation of this manual to ensure accuracy of the content, but no information in this manual constitutes a warranty of any kind, express or implied.
- Sveabot M100E has the obstacle avoidance feature, preventing collisions that may occur due to blind spots during cleaning operations. This feature detects obstacles using ultrasonic sensors and might be limited in case of driving at high speeds or in complex scenarios.

Preface

Thank you for using a product from Sveaverken. This manual provides operation instructions of Sveabot M100E Autonomous Floor Scrubber. You are advised to read this manual carefully before use, and use this product in accordance with the instructions herein. If you have any questions, contact our customer service.

Purpose and Intended Users

This manual describes specifications, operation and maintenance instructions, spare parts, and safety instructions of Sveabot M100E Autonomous Floor Scrubber, in order to help the operator better use the product. Before performing any operations on this floor scrubber, the operator or any qualified technician must read this manual. If you have any questions or need more information, feel free to contact us.

Technical Support

- Sveaverken official website: www.sveaverken.com
- Technical support: support@sveabot.com

Safety Instructions

Before using this product, read the safety instructions in this section and throughout this manual carefully. Ensure that your use of the product complies with the safety instructions herein and all applicable local laws and regulations.

The safety instructions must be followed in using this product and performing operations around the product to prevent personal injury or property damage. They are intended to help you:

- Identify and prevent hazards;
- Use the product and related devices correctly and safely;
- Check the safety signs attached to the product;
- Operate in a safe environment.

Safety Notice

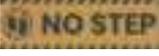
The safety alert symbols indicate important safety instructions. Failure to follow these instructions could endanger the personal or property safety of the operator and others. Before attempting to operate the floor scrubber, read and understand all the instructions in this manual.

When using the product, assess the severity of hazards according to the following signal words.

Safety Alert Symbol	Signal Word	Explanation
	DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	NOTICE	Indicates a potential situation which could result in property loss.
 DANGER	 WARNING	 NOTICE
Ensure that the product is operated according to the safety instructions in this manual. Failure to do so could result in serious injury or death.	Before using the product, ensure that you have read and understand all the safety instructions in this manual, including the safety alert symbols. Do not use the product, if there is anything in the manual that you do not understand. The product can only be used by people who have read, understand, and will follow all the safety instructions and warnings in this manual and on the product, and have reached the minimum age required by local laws and regulations.	Maintenance and repair must be performed by qualified technicians. We suggest you contact your local dealer for service. When servicing, use only identical replacement parts.

Safety Signs

Read and understand the following safety signs that might be used on the product to help you operate the product safely.

Safety Alert Symbol	Signal Word	Explanation
	Pinch point hazard.	Warns users about the pinch point.
	Do not step here.	Warns users not to step on this component to avoid product damage.
	Warning	Shows operation warnings.
		
Safety Sign	Description	
Rotating parts hazard.	Warns users not to touch the disk brushes during operation.	

Nameplate

Nameplate

The nameplate is located on the inner side of the front nose and includes the following information:

- Product name, model, and SN;
- Key parameters and symbols;
- Manufacturer and date of manufacture.

Example:



Nameplate position:



Precautions

Operator

- Do not operate the floor scrubber unless trained and authorized.
- Read the feature instructions before use.
- Keep your hair and clothing away from rotating parts.
- Do not smoke while operating the floor scrubber.

Operation

- Avoid a sudden stop or turn when climbing up a slope, and keep a low speed when traveling down a slope to avoid rollover.
- Use the disk brushes provided or specified by us. Using other disk brushes might affect the operation safety.
- When parking the floor scrubber somewhere, ensure that you have logged out and locked the screen before leaving to avoid unauthorized use.
- Avoid scrubbing the same area for a long time, or the ground might be damaged.
- Do not flush the air inlet of the vacuum motor with water, or the motor can be damaged.
- Do not clean the surface or tanks of the floor scrubber with a corrosive detergent.
- Do not use high pressure jets to flush the floor scrubber.
- Do not use the floor scrubber to clean noxious or flammable dusts.

Operating Environment

- During operation, keep clear of any fire or heat source to ensure safety.
- Stay away from any fire or heat source during charging, and avoid charging in the open air.
- Be careful when moving the floor scrubber at a temperature below 0 °C, as liquid in the solution tank, the recovery tank, the detergent tank, or the hoses might freeze and damage the valves and parts. Before long-term storage, empty the solution tank, the recovery tank, and the detergent tank.
- Prepare areas with deep grooves for squeegeeing, or the squeegeeing result might not be as expected.
- Do not operate the product on sandy surfaces, as it will block or damage the hoses.

Operating Area

- Do not drive the floor scrubber on a public road.
- During operation, keep clear of any objects or persons, especially children.
- Remove large objects or garbage that might affect the operation of the squeegee.

Inspection Before Use

- The environment is suitable for the floor scrubber.
- The appearance, structure, and functions are normal.
- The squeegee is installed.
- The solution tank is filled with clean water and the recovery tank is emptied.
- The detergent is added into the detergent tank.
- The disk brushes are installed.
- The battery is installed, and the battery level is high.

Assembly

- Do not operate the floor scrubber until it is completely assembled. Before operation, check the integrity of the machine.
- Power off the floor scrubber before maintaining or repairing internal components.
- Before maintaining or repairing a circuit module, take off your jewelry and watch.

Emergencies

- In case of emergency, press the emergency stop button and the power button to stop and power off the floor scrubber to avoid personal injury or damage.

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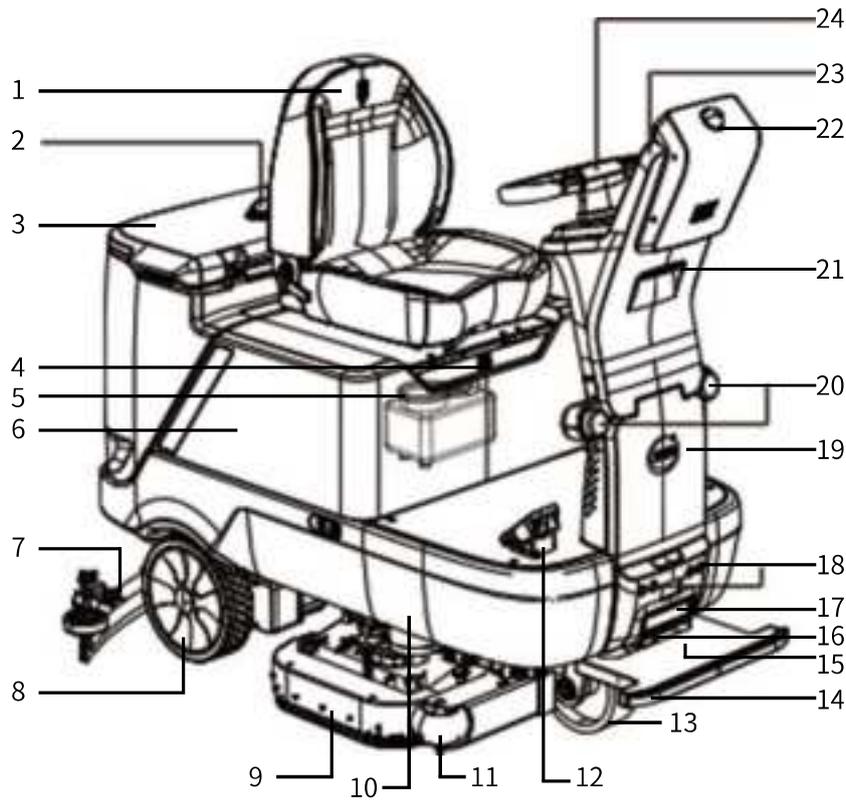
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1 Product Introduction

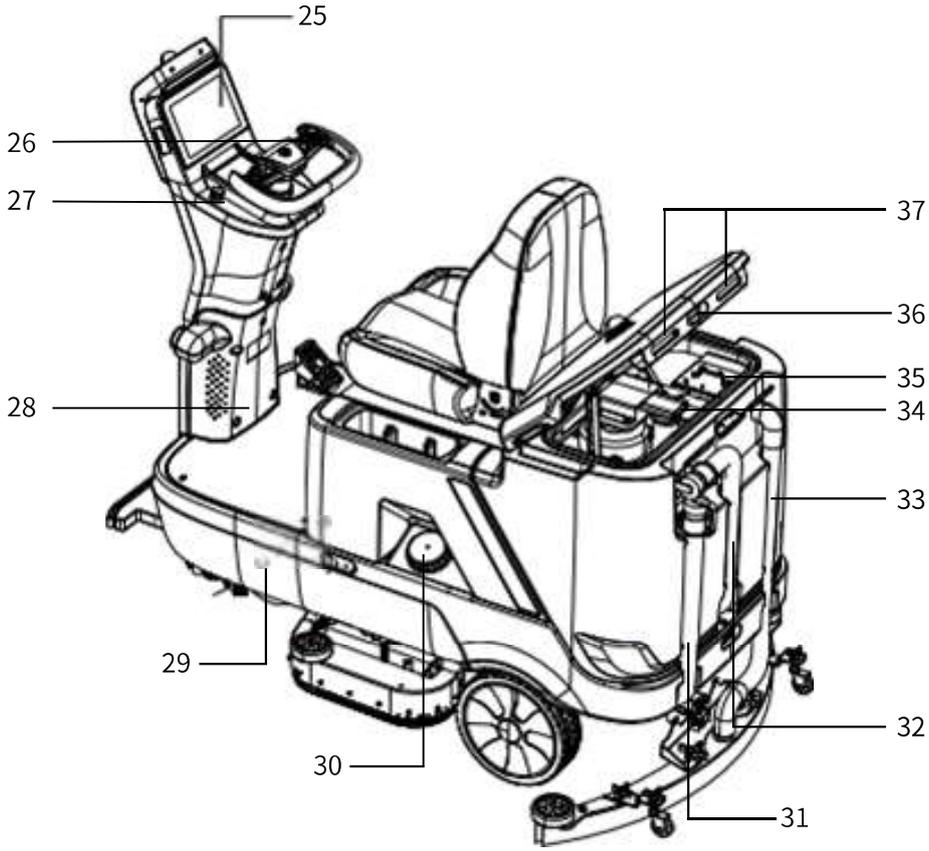
1.1 Overview

Sveabot M100E is an autonomous floor scrubber capable of vacuum cleaning and scrubbing. It can be used in indoor parking lots, supermarkets, shopping malls, factory warehouses, and semi-open space such as the entrance to a large hotel. It consists of components such as the scrubbing assembly, batteries, drive wheels, and control screen.

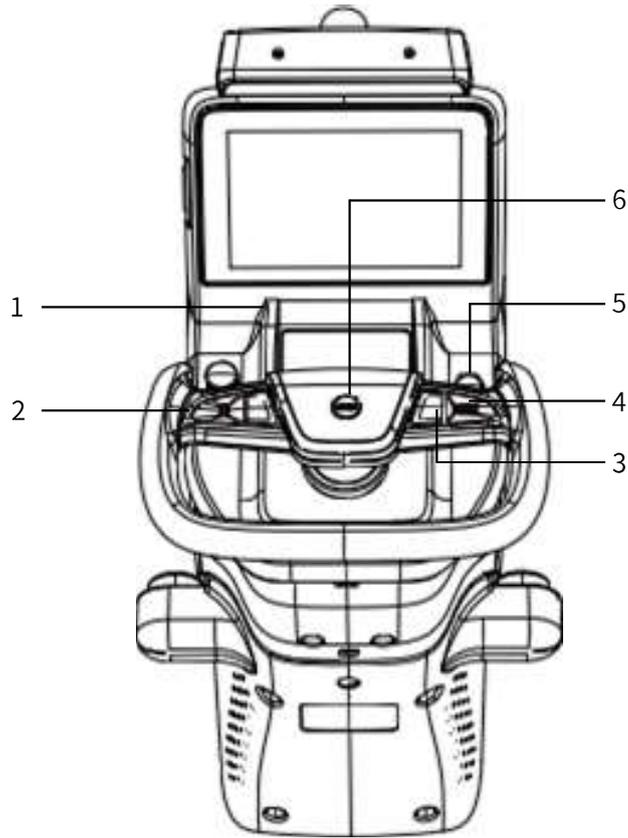
1.2 Main Components



No.	Component	No.	Component	No.	Component
1	Seat	9	Skirt	17	Headlight
2	Indicator	10	Solution tank	18	Ultrasonic sensor
3	Recovery tank cover	11	Anti-collision beam	19	Front panel, lower front nose
4	Charging port	12	Accelerator	20	Front turn signal light
5	Detergent tank	13	Guide wheel	21	Front camera
6	Recovery tank	14	Safety edge	22	3D LiDAR
7	Squeegee	15	2D LiDAR	23	Upper front nose
8	Drive wheel	16	Infrared sensor	24	Steering wheel



No.	Component	No.	Component	No.	Component
25	Touch screen	30	Solution tank cover	35	Recovery tank filter screen
26	SIM card slot and cap	31	Solution tank drain hose	36	Rear camera
27	Emergency stop button	32	Recovery tank drain hose	37	Rear turn signal light
28	Back panel, lower front nose	33	Squeegee hose		
29	Main water valve switch	34	Vacuum motor cover		



No.	Component	No.	Component	No.	Component
1	Headlight button	3	Cruise control button	5	Power button
2	U-turn button	4	Forward/reverse button	6	Horn

1.3 Specifications

Category	Specifications	
Human-machine interface	10.1-inch touch screen	
IP rating	IPX3	
Communication	4G and Wi-Fi	
Physical	Dimensions	1660×940×1475 mm (squeegee excluded) 1715×1120×1475 mm (squeegee excluded)
	Unladen weight/full-load weight	318 kg/approximately 481 kg
	Max. operator weight	200 kg
	Drive mode	Two rear-wheel drive
	Noise level	<75 dBA
	Max. speed	6.5 km/h
	Full load gradeability	15° (26%)
Performance	Min. turning radius	1211 mm
	Operating temperature	0°C to 40°C
	Storage temperature	0°C to 60°C
	Vision module	Binocular camera
Disk brush	Type	Double disk brushes
	Rotational speed	200 rpm
	Down pressure	30-50 kg
	Size	406 mm
Sensors	Sensors	3D LiDAR, 2D LiDAR, ultrasonic sensor, infrared sensor, safety edge, and binocular camera
	Algorithm module	Professional algorithm board

Category	Specifications	
Cleaning operation	Cleaning width	860 mm
	Max. cleaning speed	5,590 m ² /h
	Solution tank capacity	120 L
	Recovery tank capacity	140 L
	Drain mode	Manual
Vacuum motor	Power	500 W
	Degree of vacuum	18 kPa
Power supply	Battery type	Ternary lithium battery
	Rated power	4000 W
	Battery capacity	4032 Wh (2016 Wh×2)
	Charging time	4.5 h
	Battery life	3.5 h
	Voltage	DC 50.4 V
Other features	Obstacle detection, auto stop at obstacles, rear camera, cruise control, U-turn button, zero turn, OTA update, and power-on self-test	

2 Preparations Before Use



Note: Ensure that the solution tank level is high, the recovery tank is emptied, the battery level is high, the main water valve switch is turned on, and the detergent tank level is high, and the wear of the disk brushes and the squeegee is acceptable.



Prerequisite: The floor scrubber works on indoor hard floors.

2.1 Installation Tools

No.	Tool	Specs.	Qty.	Purpose
1	Open-end wrench	12# to 14#	1	Install and adjust the nuts on components such as the battery compartment cover and the squeegee.
2	Open-end wrench	13# to 15#	1	
3	Hex key	8#	1	
4	Hex key	4#	1	
5	Hex key	3#	1	

2.2 Packing List

No.	Name	Qty.
1	Sveabot 100E(SVBR02AT)	1
2	Charger	1
3	Disk brush or pad	1
4	Battery	1
5	Squeegee	1
6	Installation tool kit	1
7	Fill hose	1



Note: The actual packing list may vary, depending on your purchase contract. Check the components provided carefully according to your packing list or purchase contract, and contact your local dealer in case of any doubt or problem.

3 Installing the Floor Scrubber



Note:

1. Before connecting the front nose wiring harnesses, check the connectors. Connect the connectors according to the labels on the wiring harnesses. Do not plug or unplug them by force.
2. Take caution when installing the front nose, and protect the screen from damage.



Prerequisite: The floor scrubber is unpacked and installed for the first time, and the front nose is installed.



WARNING

Do not drive the floor scrubber unless the front nose is connected with wiring harnesses and fixed by the fixing bolts.

3.1 Installation Process

1. Install the squeegee.
2. Fill the solution tank and empty the recovery tank.
3. Add the detergent.
4. Install the disk brushes.
5. Install the batteries.

3.2 Check Before Installation

1. All the installation tools are available.
2. The floor scrubber is placed in a dry and bright environment at the ambient temperature.
3. The hands and ground must be dry to install the batteries.

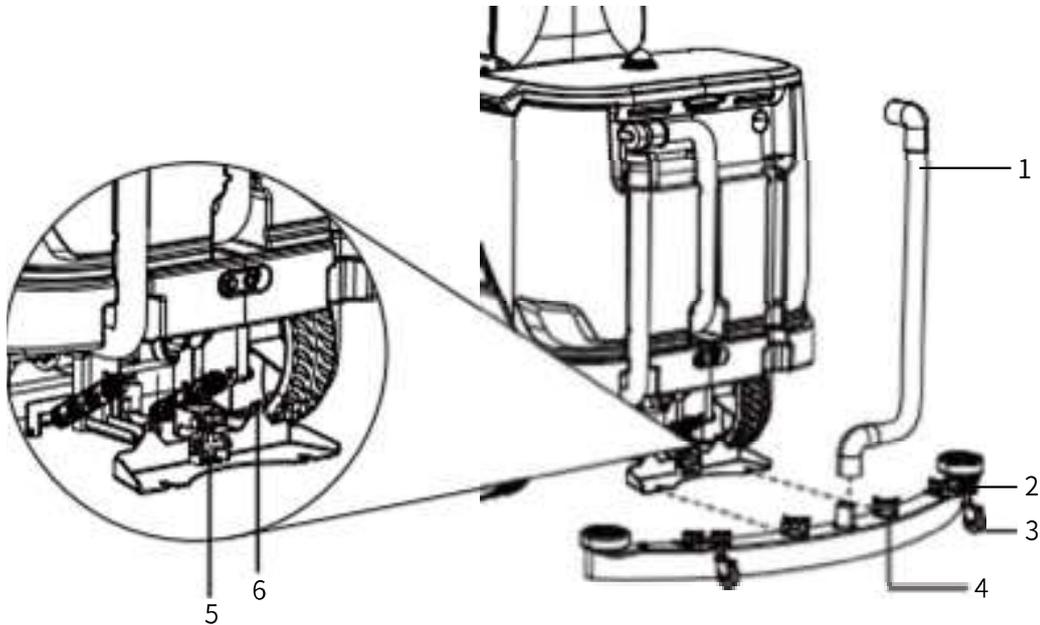
3.3 Precautions

1. Before any installation, ensure that the floor scrubber is disconnected from any power supply.
2. Place the floor scrubber in a dry environment.
3. Do not place the floor scrubber at a high temperature environment.
4. Keep away from high voltage wires.
5. Keep away from strong thunderstorms or electric fields.
6. Do not clean the floor scrubber with a corrosive detergent.
7. Do not open the housing without authorization.
8. Securely fix the floor scrubber, and avoid installation on uneven grounds or slopes to prevent slipping.

3.4 Installation Steps

3.4.1 Installing the Squeegee

1. Install the squeegee on the bracket.
2. Tighten the two blue star knobs.
3. Install the squeegee hose.



No.	Component	No.	Component
1	Squeegee hose	4	Star knob, squeegee
2	Star knob, guide wheel	5	Wing bolt
3	Guide wheel	6	Hexagon nut

3.4.2 Preparing the Tanks



Note: Do not remove the filter screen from the fill port if you are not sure about water clarity.

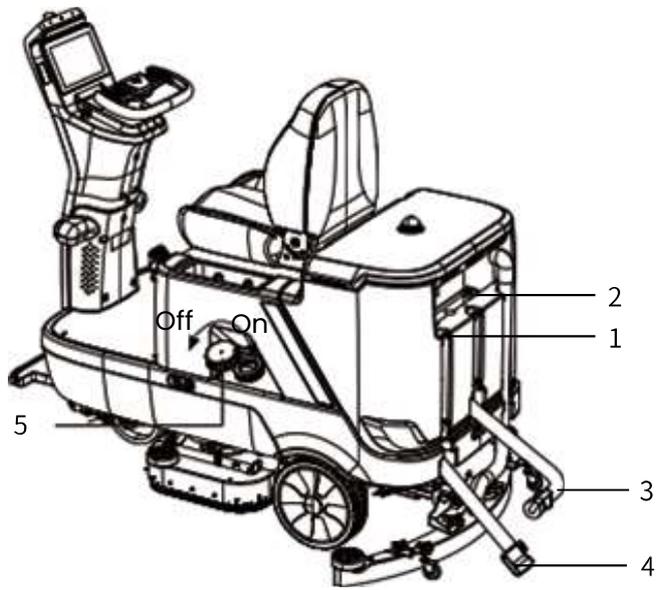
Preparing the solution tank:

1. Open the fill port cap.
2. Insert the fill hose into the fill port, open the tap ⑤ to add water, or pour water into the fill port by using a container like a bucket.
3. Stop the filling when the maximum level is reached, and tighten the fill port cap.

Preparing the recovery tank:

1. Drive the floor scrubber to a designated place for sewage discharge.
2. Lower the recovery tank drain hose ❸, open the cap of the hose, and place the hose into the sewage discharge port.
3. When no sewage is discharged any more, close the cap of the recovery tank drain hose, and put it back in place.

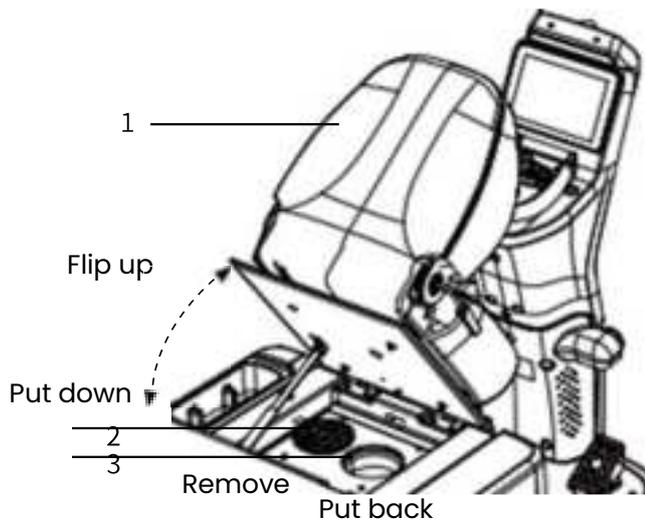
No.	Component
1	Solution tank drain hose hook
2	Recovery tank drain hose hook
3	Recovery tank drain hose
4	Solution tank drain hose
5	Fill port cap



3.4.3 Adding the Detergent

1. Flip up the seat ❶, and remove the rubber plug ❷.
2. Add the detergent through the fill port ❸.
3. Observe the detergent tank level, and stop the filling when the level is at the neck of the tank.
4. Plug the rubber plug and put back the seat.

No.	Component
1	Seat
2	Rubber plug
3	Fill port



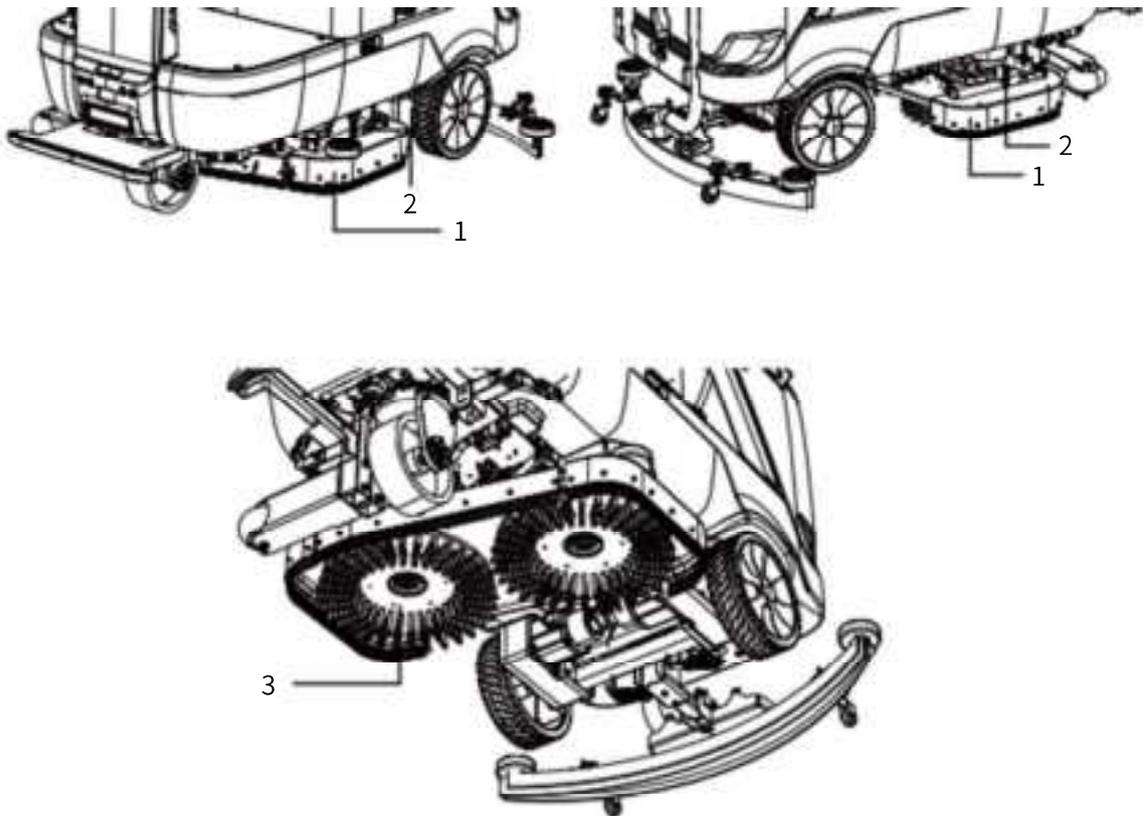
3.4.4 Installing/Removing the Disk Brushes

Install the disk brushes:

1. Flip up the skirt ❶.
2. Put the disk brushes ❸ under the disk brush assembly.
3. Lift the disk brushes. The brushes are automatically attached via magnets.
4. Put down the skirt ❶.

Remove the disk brushes:

1. Press down the disk brush pin ❷.
2. Flip up the skirt ❶.
3. Remove the disk brushes ❸.



No.	Component	No.	Component	No.	Component
1	Skirt	2	Disk brush pin	3	Disk brush

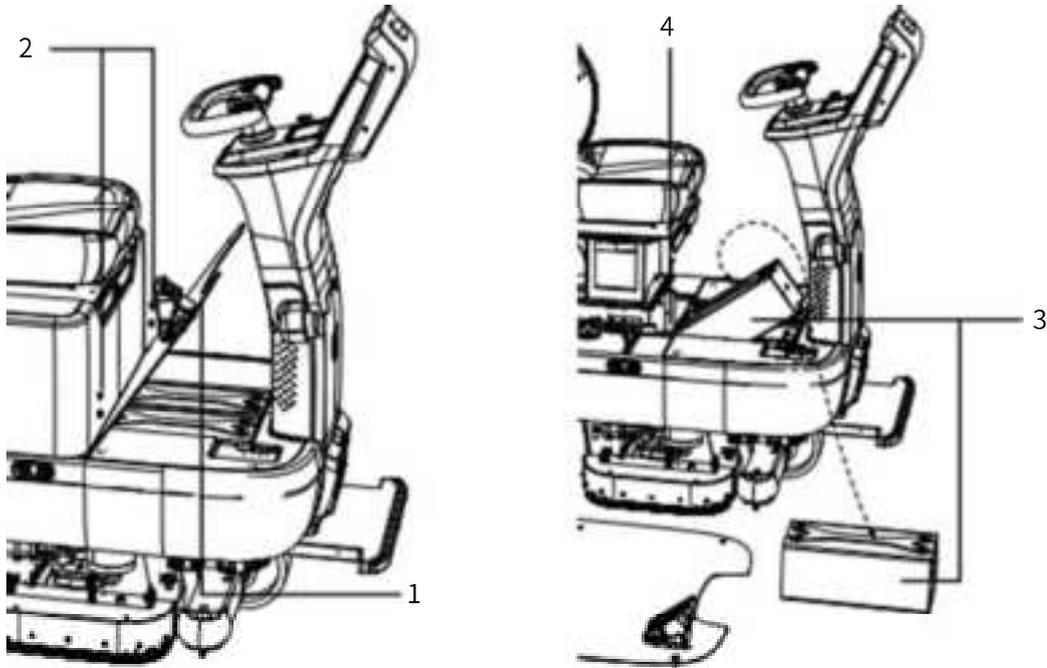
3.4.5 Installing and Preparing the Batteries

The two dedicated lithium batteries provided are packed separately. Follow the steps below to check and install the batteries:

1. Unpack the batteries, and check the batteries and the power ports for damage.
2. Press and hold the power button for one second to turn on the batteries, and check the battery level.
3. Refer to section "Installing the batteries" to install the batteries into the floor scrubber.
4. Before the first use, fully charge the batteries as described in section "Charging the batteries".

Installing the batteries:

1. Use a 3# hex key to remove the screws ❶ at the four corners of the pedal cover ❷ .
2. Pull the two power wires out of the battery compartment ❸ , and connect the wires to a battery ❹ securely.
3. Tilt the port side of the battery downwards to put it into the compartment, and then put the whole battery into the compartment. Repeat the steps to install the other battery.
4. Install the cover, and tighten the screws.



No.	Component	No.	Component
1	Pedal	3	2 kWh battery×2
2	Hexagon socket head cap screw	4	Battery compartment

NOTICE

1. Connect the left power wire to the right port of the battery on the left, and the right power wire to the left port of the battery on the right, so that the batteries can be inserted into the compartment smoothly.
2. Before charging, ensure that the charger and the power wires are intact.
3. Ensure that the charging is conducted in a dry and ventilated environment without any flammables, open flames, or heat sources.
4. Do not touch the battery ports with bare hands. The maximum voltage of the batteries can reach 58.8 V, much higher than the safety voltage for a human body.

Charging the batteries:

1. Use only the dedicated charger provided to charge the batteries.
2. Plug the charger into the charging port under the seat.
3. Charging starts when the indicator turns orange, and ends when the indicator turns green.



NOTICE

1. During charging, park the floor scrubber in a dry and ventilated environment, away from high temperature or heat sources.
2. Before charging, read the charger manual carefully.

4. Software Operations

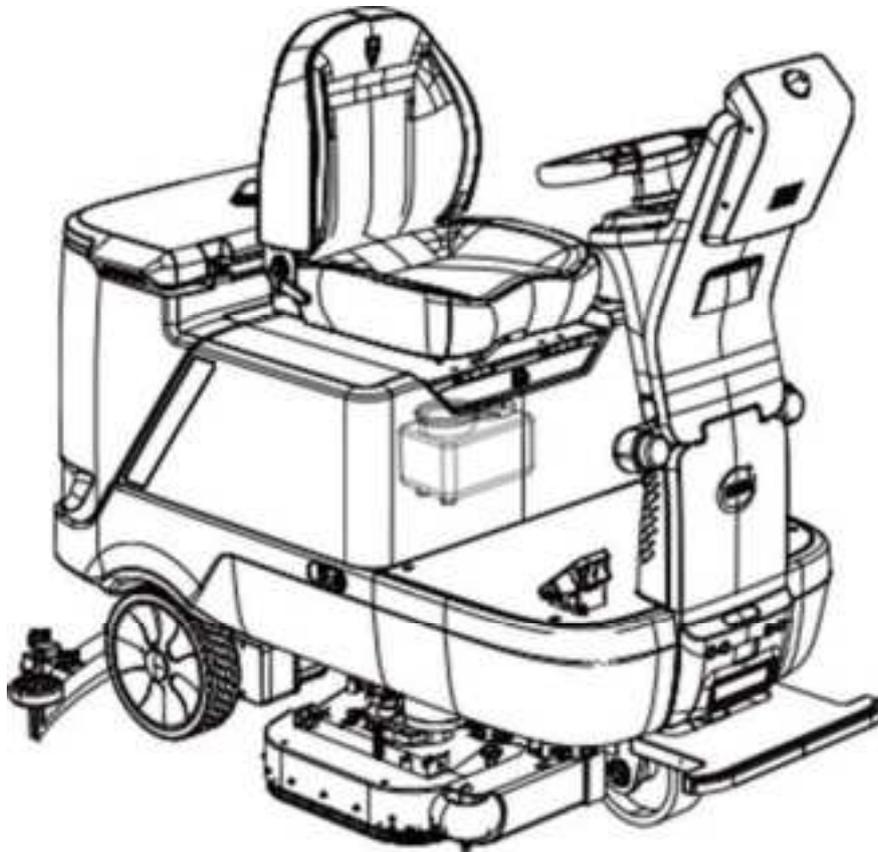
4.1 Check Before Use

Ensure that:

- The squeegee is installed. Power off the floor scrubber before maintaining or repairing internal components.
- The solution tank is filled with water, and the recovery tank is emptied.
- The detergent tank is filled with detergent.
- The disk brushes are installed.
- The batteries are installed, and the battery level is high.

4.2 Power-on

1. Press the power button to power on the floor scrubber.



4.3 Home Screen

The home screen is different in auto and manual operation modes. The floor scrubber automatically enters the auto mode after power-on.

4.3.1 Home Screen in Auto Operation Mode

Screen lock
Tap to lock the screen and avoid accidental touches.

Cleaning data
Levels of the solution tank, detergent tank, and recovery tank.

Cleaning records
Tap to view cleaning records.

Basic information
Time, device name, network, and battery level

Schedule
Schedule auto operation tasks

Mode
Swipe right to enter the manual mode.

Return
Tap to return to the start point.

Settings
Tap to access the auto operation settings.

4.3.2 Home Screen in Manual Operation Mode

Driving data
Working time and speed

Cleaning data
Levels of the solution tank, detergent tank, and recovery tank

Vehicle information
Gear D, R, left, and right turn

Basic Information
Wi-Fi, power level, and time

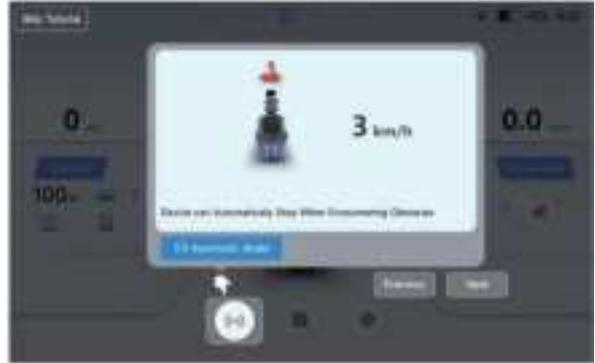
Indicators
Lights, battery level, faults, cruise control, and emergency stop button

Vehicle mode
Switch between driving mode and cleaning mode, and switch among different cleaning modes

Other functions
Auto stop at obstacles, task ending, settings

4.3.3 Tutorial

When you power on the floor scrubber, a tutorial is provided to help you familiarize with the functions and layout of the user interface.



You can skip the tutorial. To watch it again, tap the settings icon on the home screen, select User Guide, and tap Click to Watch.



4.4 Preparing for Operation

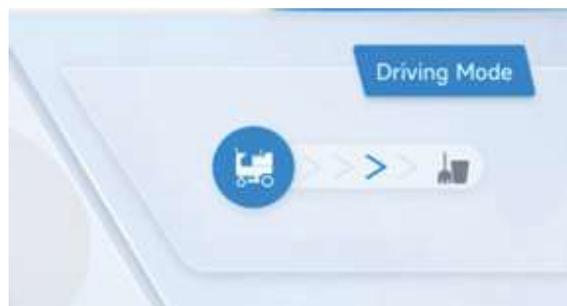
4.4.1 Power-on Self-test

The floor scrubber starts up and runs the self-test to check items such as the power level, the solution tank, and the recovery tank, and alerts you to any exceptions.

4.4.2 Selecting the Cleaning Mode

Access the home screen, and the system enables the driving mode by default. You can drive the floor scrubber now, but cannot start any cleaning operation. To start an operation, change the driving mode to the cleaning mode.

1. Swipe  to the right to change the driving mode to the cleaning mode.



2. When the brushes and squeegee are ready, press the pedal to start the cleaning operation.

4.4.3 Switching Modes

The ECO mode is used by default after you switch to the cleaning mode. To change it, tap , and select one mode from the popup menu.



4.5 Starting the Operation

4.5.1 Before Cleaning

Once the cleaning mode is selected, check whether the disk brushes and squeegee are lowered down as prompted and start a cleaning operation if they are ready.

4.5.2 During Cleaning

1. Headlight: The headlight button is located on the steering wheel. Once the button is pressed, the headlight is turned on, and the headlight indicator on the screen is illuminated.



Headlight off



Headlight on

2. Cruise control: You can enable cruise control during driving, so that the vehicle travels at the set speed and you are only required to operate the steering wheel. Press down the pedal to disable cruise control. Note that cruise control is not allowed in the R gear.



3. Turn on/off auto brake and voice prompt: Equipped with eight ultrasonic sensors, this floor scrubber can detect obstacles at a distance of 6 m and warn the operator when entering a 2 m range of obstacles. It can also signify the directions of obstacles and automatically stop when getting too close to the obstacle. The figure below shows the warning screen when the sensors detect an obstacle to the right of the machine.

During cleaning, you can turn off auto brake and voice prompt. However, the ultrasonic sensors still work and give warnings on the screen when detecting obstacles around.

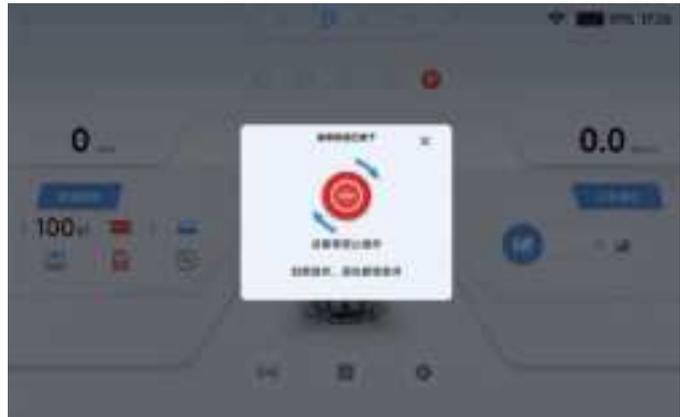


4. Liquid information: During cleaning, the level of the solution tank is displayed as a percentage, and the level of the recovery tank and detergent tank is signified by colors. When they become red, empty the recovery tank or fill up the detergent tank.

The screen also shows the travel speed, gear, and operating time, as well as whether the left or right turn signal light is turned on, as shown below.

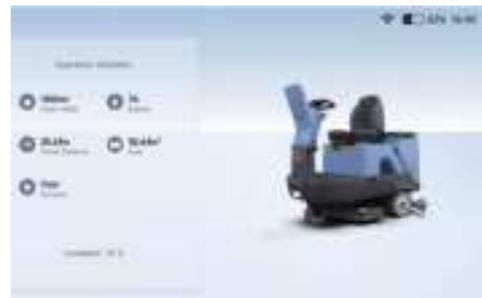


5. Emergency stop: In case of emergency, press down the red emergency stop button to stop the floor scrubber. The screen also shows the emergency stop prompt.



4.5.3 Ending the Operation

Tap  to end the operation. The system saves the cleaning data for future reference.



4.6 Other Functions

4.6.1 Basic Settings

The operator can set the screen brightness, steering wheel torque, and volume.



1. Adjust the screen brightness as required.



2. Adjust the steering wheel torque as required.



3. Adjust the volume as required.



4. Adjust the ultrasonic sensing range between 0.3 m and 0.6 m as required.



5. Adjust the detergent ratio as required.



4.6.2 Fault Prompt

1. Prompt mode: In case of any fault, a popup appears on the screen and turns into a floating window in the upper left corner after 3 seconds.



2. Fault severity: Faults of the floor scrubber are classified into two severity levels for easy identification.

Level 2: Driving allowed, but cleaning not allowed.



Level 1: Driving and cleaning not allowed, and immediate handling required.



4.6.3 Managing the Machine

The operator can set the parameters such as cleaning mode, travel speed limit, and disk brush speed in this module.

1. Custom mode: In this module, you can adjust the parameters for the four cleaning modes such as the name, brush pressure, and suction power as required. Tap a cleaning mode and then modify the name and cleaning parameters as needed.



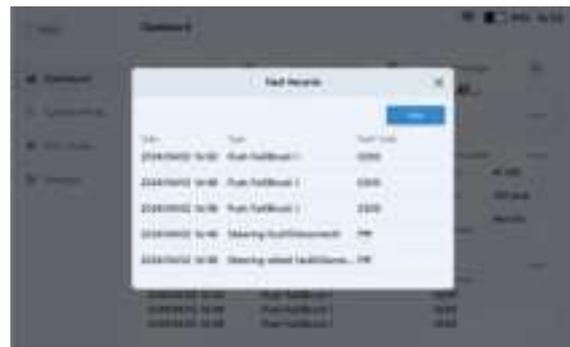
2. Dashboard: The dashboard shows data of the floor scrubber such as the total area cleaned and cleaning duration, as well as the data variation in a bar graph. Tap More to filter the data by operator or time.



3. Speed limit: To avoid accidents, a speed limit can be set in the range of 1 to 7 km/h.



4. Historical faults: The floor scrubber continuously checks the system status after power-on and records faults detected.



4.7 Operation Instructions

4.7.1 Home Screen

When the robot is powered on, you access the home screen, where you can

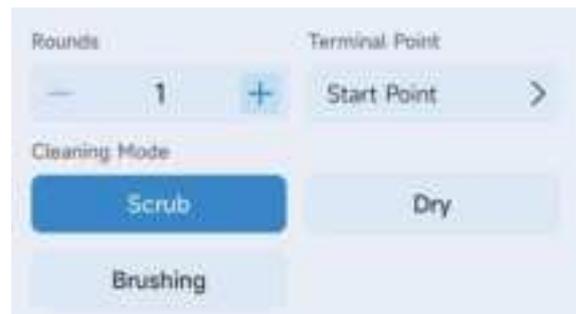
- Check the device status, schedules, and operation records, and set parameters.
- Swipe right to enter the manual cleaning mode.



4.7.2 Auto Mode

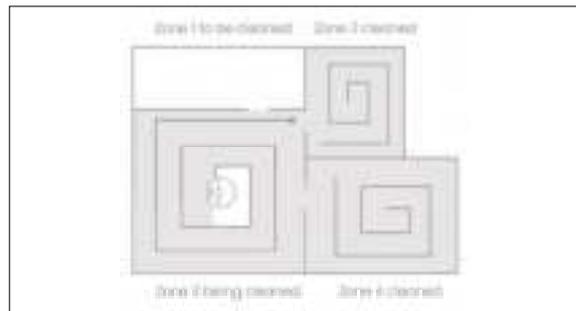
1. Overview

Tasks can be created for auto operation. As shown below, scrubbing, drying, and brushing are supported.



Once started, the robot will

1. Plan the paths dynamically for each zone and clean the zones one by one.
2. Follow the specified paths to perform the cleaning.

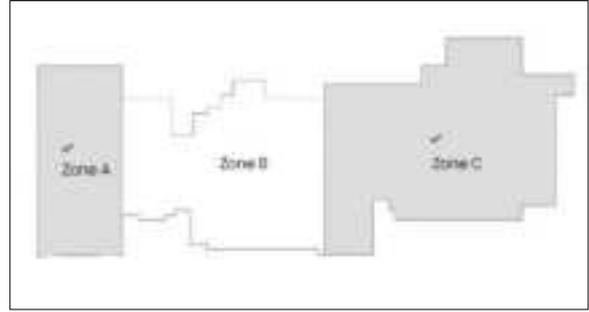


2. Map and Element Configuration

Before starting an auto operation for the first time, contact your FAE (field application engineer) to configure maps as required. After training, you will be able to create and edit maps based on your needs. Before starting any task, ensure that the robot is on level ground.

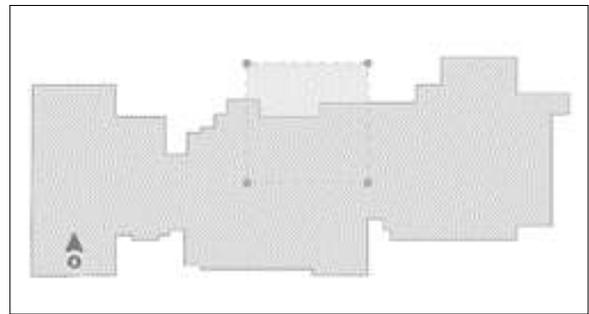
3. Tasks in Selected Zones

Start the robot or mobile app, and select one or more zones on the map to create a task. The robot will clean the zones selected.



4. Tasks in Drawn Zones

Start the robot or mobile app, and draw zones on the map to create a task. Mark at least 3 points on the map to draw a zone. Drag any point to adjust the zone. The robot will perform the cleaning in the drawn zone.



5. Advanced Tasks

Create advanced tasks with the robot display, and the robot will execute the tasks as set. You can do the following for an advanced task.

1. Change the task name.
2. Add zones/paths and adjust the number of cycles, cleaning mode, and suction or water flow for each zone/path.
3. Select the operation mode.
4. Select the end point.

Note: The actual app features and details may vary slightly because of constant upgrades.

6. Instant Task Execution

Select a task from the task list with the robot display, mobile app, or Sveabot Connect and execute it. The robot will execute the task immediately.

7. Scheduled Task Execution

Select a task from the task list with the robot display, mobile app, or Sveabot Connect and create a schedule for it. The robot will execute the task as scheduled. To modify, enable, or disable a schedule, go to the Schedules screen.

8. More Features

Features will be constantly updated without notice.

Real-time map update	Screen mirroring	Cliff detection
Real-time robot location check	Noise removal	Emoji and light reminders
Real-time robot status check	Restricted zone management	Voice prompts
Cleaning record check	Cleaning zone and path management	Auto return for charging
Suction power adjustment	Point management	Auto resumption from breakpoints
Water flow adjustment	Environment management	Auto obstacle avoidance
Down pressure adjustment	Notification push	Consumable service time display
Firmware update	More	

4.7.3 Voice Prompts

No.	Module	Scenario	Voice Message	Playback Mode
1	Self-test	The power-on self-test is passed.	Hello, I'm glad to be at your service.	Once
2	Auto task	The task is started.	Scrubbing started.	Once
3	Auto task	The task is started.	Brushing starts.	Once
4	Auto task	The task is started.	Drying started.	Once
5	Auto task	The task is paused.	Cleaning paused.	Every 5 seconds
6	Auto task	The task is resumed.	Cleaning resumed.	Once
7	Auto task	The task is stopped.	Cleaning stopped.	Once
8	Auto task	The task is in progress.	Cleaning in progress. Please keep clear.	Every 15 seconds
9	Auto task	The operator is seated while the auto operation is about to start.	Automatic task in progress. Please leave the seat.	Every 5 seconds
10	Auto task	The task is terminated manually.	The cleaning task has come to a forced end.	Once
11	Auto task	The task fails.	The cleaning task has come to a forced end.	Once

No.	Module	Scenario	Voice Message	Playback Mode
12	Emergency stop	The emergency stop button is pressed.	Emergency stop button pressed.	Every 5 seconds
13	Emergency stop	The emergency stop button is released.	Emergency stop button released.	Once
14	Battery level	The battery level is only 20%, 10%, or 5%.	The battery is running out. Please charge.	Once
15	Cliff sensor	A large height difference is detected with a risk of falling.	Risk of falling detected. Please move the robot to a safe place.	Every 5 seconds
16	Self-test	The power-on self-test fails.	Fault detected. Contact your FAE for assistance.	Once
17	Update	The OTA update starts.	Update in progress. Please wait.	Every 30 seconds
18	Solution tank level	The solution tank is empty.	The solution tank is empty. Please refill it. (not played when no solution tank is installed)	Every 5 seconds
19	Recovery tank level	The recovery tank is full.	The recovery tank is full. Please empty it. (not played when no recovery tank is installed)	Every 5 seconds
20	Return	The robot is returning.	Returning... Please watch out.	Every 5 seconds
22	charging	Returning for charging starts.	Returning for charging.	Once
23	charging	Charging Returning for charging is stopped.	Returning for charging is canceled.	Once
24	Not limited	The robot is backing up.	Attention please! This vehicle is backing up.	Loop
25	Not limited	The detergent is used up.	Out of detergent. Please add immediately.	Every 5 seconds

4.7.4 Managing Robots via Platform

Contact our technical support to create an account.

Log into Sveabot Connect at <https://cleanrobot-client-ne.sveabot.com/login>.

The platform offers features such as device management, task management, map management, and operation data analysis to help you better manage robots.



4.7.5 Managing Robots via Mobile App

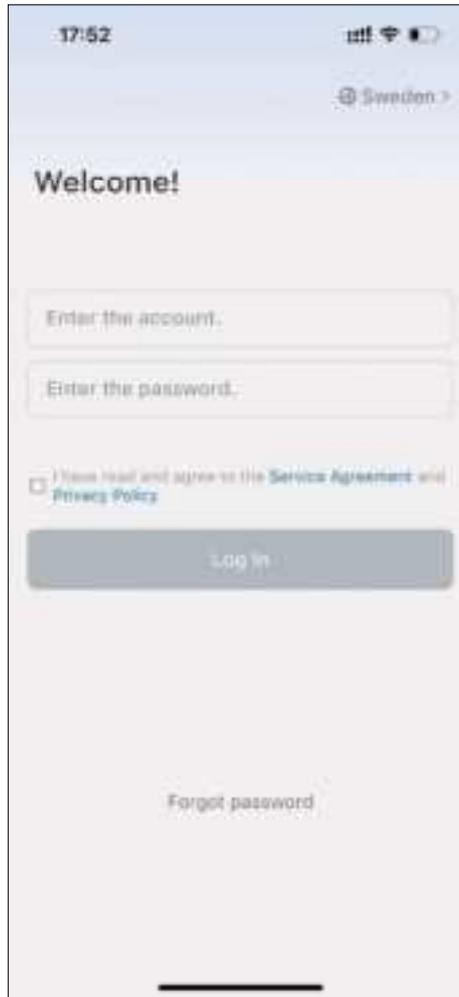
1. Downloading the App

The robot can be controlled and managed remotely via the mobile app. Follow the instructions in the manual or app to experience more features.



2. Login

Contact our technical support to create an account. Log into the mobile app to control all the robots bound. By logging in, you have read and agree to the Service Agreement and Privacy Policy.



5 Maintenance

!	<p>Note:</p> <ol style="list-style-type: none"> 1. Empty and clean the recovery tank, and clean the filter screen. During cleaning, dirty water is sucked into the recovery tank, where sludge tends to build up, producing bacteria and causing bad odors. It is necessary to clean the recovery tank with running water. The filter screen must be cleaned regularly to avoid sediments and ensure the suction performance. 2. Check whether the squeegee is clean, and wash the blades and suction inlet with running water if necessary. 3. Check the filter screen regularly. It may sometimes be blocked by small impurities, limiting the outflow of water during cleaning. 4. Clean the squeegee hose, as partial blockage will result in poor suction performance.
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	<p>Prerequisite: The floor scrubber works on indoor hard floors.</p>
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	<p>WARNING</p> <ol style="list-style-type: none"> 1. Power off the floor scrubber before repairing or cleaning it. Keep your hands, feet, and clothing away from the rotating disk brushes. 2. Avoid water ingress into or wash the air inlet of the vacuum motor with water. Do not wash the floor scrubber (including its motors) with water. 3. Electrical maintenance must be performed by trained personnel. 4. Do not clean the floor scrubber with a pressure washer.
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5.1 Maintenance Plan

Maintenance Task	Frequency						
	First Use	Every Day	Every Week	Every Month	Every 3 Months	Every 6 Months	Every Year
Check the disk brushes.	Install the disk brushes.	N/A	N/A	Check the wear of disk brushes.	Check the disk brush magnetism, and contact your local dealer if necessary. Check the wear of disk brushes, and replace them when bristles are less than 15 mm long.	Check the disk brush magnetism, and contact your local dealer if necessary. Check the wear of disk brushes, and replace them when bristles are less than 15 mm long. Check whether the flange fixing bolts are loose.	N/A

Maintenance Task	Frequency						
	First Use	Every Day	Every Week	Every Month	Every 3 Months	Every 6 Months	Every Year
Check the pads.	Install the pads.	Check the wear of the pads.	Check whether the pads are damaged.	N/A	N/A	Check the disk brush magnetism, and contact your local dealer if necessary. Check whether the flange fixing bolts are loose.	N/A
Check the squeegee blades.	Install and adjust the squeegee.	After each use, clean the blades, and check whether the wing bolt is deformed and whether the nut is loose.	N/A	Check the wear of the blades, and check whether the star knobs are loose.	N/A	Check the wear of the blades. If the scrubbing performance is unsatisfactory, flip the blades before reuse.	N/A
Check the seal strip of the recovery tank.	Check whether the seal strip is firmly installed.	N/A	N/A	Check whether the seal strip is firmly installed and intact.	N/A	N/A	Check whether the seal strip is firmly installed and whether it is damaged and deformed. Replace it if necessary.

Maintenance Task	Frequency						
	First Use	Every Day	Every Week	Every Month	Every 3 Months	Every 6 Months	Every Year
Check the water lines.	Add 100 L clean water, and open the main valve to check the hose connectors for water leakage.	After each use, empty the solution tank and recovery tank, and clean the recovery tank.	N/A	Check the filters for impurities; check the hose connectors for water leakage; check whether the peristaltic pump works and hoses are damaged.	N/A	Check whether the main valve is installed firmly, and hoses are aged. Check the filters for impurities, and check the hose connectors for water leakage.	Check whether the main valve is installed firmly, and hoses are aged.

5.2 Maintenance Methods

5.2.1 Replacing the Squeegee

1. Pull out the squeegee hose.
2. Unscrew the two star knobs, remove the squeegee, and install a new one.

5.2.2 Cleaning the Recovery Tank

1. Drive the floor scrubber to the specified drain point.
2. Remove the recovery tank drain hose, open its cap, and insert the hose into the drain port.
3. Open the recovery tank cover, and clean the inside of the tank with a water gun.
4. Turn off the water gun and put it away.
5. Wait until nothing comes out of the drain hose, close the cap, and put it back at the rear of the floor scrubber.



WARNING

If the floor scrubber will not be used for a long time, do the following before storage:

1. Empty the solution tank.
2. Clean and dry the recovery tank.

5.2.3 Replacing the Disk Brushes

1. Press down the disk brush pin.
2. Flip up the skirt.
3. Remove the disk brushes.
4. Put the disk brushes under the disk brush assembly.
5. Lift the disk brushes, and the brushes are automatically attached via magnets.
6. Put down the skirt.

5.2.4 Maintenance

Clean the recovery tank

During cleaning, the floor scrubber sucks up dirty water into the recovery tank, where the sludge tends to build up and gives off a bad odor. Large-sized waste or sand particles may block the filter screen and reduce the suction. Therefore, after each use, clean the filter screen, and clean the recovery tank if necessary. Follow the maintenance steps below:

1. Open the recovery tank cover, and tighten the drain hose cap.
2. Remove and clean the filter screen.
3. Clean the inside of the tank with water and soft brush. Using a steel wire ball will cause damage.
4. Add some detergent if there are stubborn stains such as oil stains.
5. Prevent any water into the air inlet of vacuum motor to avoid damaging the floor scrubber.
6. Ensure that the liquid level in the recovery tank is always below the limit; otherwise, the liquid overflowing or flowing into the air inlet of vacuum motor may damage the floor scrubber.
7. Use the drain hose to drain the dirty water from the recovery tank.

Clean the squeegee

The squeegee may sometimes be dirty or worn. Follow the maintenance steps below every week or when the suction power is unsatisfactory.

1. Remove the squeegee and the hose. Clear any blockage from the hose.
2. Unbuckle one side of the squeegee, and remove and clean the blade.
3. After 3,000 hours of use, flip the blade to use its other side; then after 3,000 hours of use, replace the blade.
4. Install the squeegee and the hose.

Maintain the disk brushes

Check the wear of disk brushes every week. Normally, we recommend you to replace disk brushes after 5,000 hours of use to ensure the cleaning performance.

6 Troubleshooting



Note: In case of any fault, restart the floor scrubber. If the fault persists, contact the aftersales service.



Prerequisite: The cleaning result is not satisfactory.



WARNING

Only repair internal electrical components under the guidance of professionals.

No.	Fault	Cause	Solution
1	Insufficient water supply to the disk brushes	<ol style="list-style-type: none"> 1. The water valve is closed. 2. The water lines are blocked. 3. The water is insufficient. 	<ol style="list-style-type: none"> 1. Check whether the water valve is open. 2. Check the water level in the solution tank. 3. Check whether the filter is clean. 4. Check whether the water lines are blocked.
2	Unsatisfactory scrubbing result	<ol style="list-style-type: none"> 1. The disk brushes cannot touch the ground due to excessive wear of bristles. 2. The bristle strength is improper. 	<ol style="list-style-type: none"> 1. Check the wear of disk brushes, and replace them when their bristles are less than 15 mm long. 2. Use special disk brushes for dirty grounds. Contact your local dealer for details.
3	Poor performance of the squeegee	<ol style="list-style-type: none"> 1. The blades are dirty. 2. The blades are severely worn. 3. The squeegee needs adjustment. 	<ol style="list-style-type: none"> 1. Check whether the blades are clean and free of debris. 2. Replace the blades if necessary, and adjust the squeegee height. For proper use, the squeegee height must be adjusted based on the blade wear. During cleaning, the squeegee guide wheels must be about 5 mm off the ground. 3. Check whether the squeegee hose is inserted into the recovery tank inlet. 4. Remove and clean the suction components. 5. Check whether the suction motor is turned on. 6. Check whether the squeegee guide wheels are properly set.
4	Too much foam	<ol style="list-style-type: none"> 1. The set detergent ratio is high. 2. No defoamer is used. 	<p>Check whether a foaming detergent is used. Add some defoamer to the recovery tank if necessary. Note that more foam will be formed if the ground is quite dirty, and less detergent should be used.</p>



Note: The common faults are listed above. If the problem persists, contact the aftersales service.

7. Storage



Note: Empty the solution tank, recovery tank, and detergent tank before storing the floor scrubber at a temperature of 0°C–60°C.



Prerequisite: Store the floor scrubber indoors.



WARNING

Power off the floor scrubber after use.

1. Charge the batteries regularly during long-term storage to avoid over-discharge.
2. Store the floor scrubber in a dry and locked place, out of the reach of children and away from direct sunlight.

8. Waste Disposal

The product contains metal and electronic components. Waste must be disposed of in an environmentally safe way according to local laws and regulations. Any waste (such as packaging materials, metal parts, and electronic components) must be delivered to local recycling facilities for disposal.

FCC 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & you body.



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