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Autonomous Driving Sweeper S180

User Manual

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Contents

01 Safety Instruction

| | |
|--|----|
| Operating Prerequisites | 01 |
| Before turning on the sweeper | 02 |
| When using the Sweeper S180 | 02 |
| After completing the cleaning task | 02 |
| Abnormal working scenarios | 03 |
| Sweeper Storage | 03 |
| Notes | 04 |

02 Product Overview

| | |
|-----------------------------|-------|
| Product Introduction | 04 |
| Product List | 05 |
| Core Functions | 05-07 |
| Application Scenarios | 07 |
| S180 Specification | 08-11 |

03 Operating Instructions

| | |
|-----------------------------|-------|
| Sweeper appearance | 12-15 |
| Emergency stop button | 16 |

| | |
|--------------------------------|----|
| Control box | 16 |
| Control box | 17 |
| Top cover lifting button | 18 |

04 Remote control

| | |
|---|-------|
| Remote control precautions | 18 |
| Remote control appearance | 19 |
| Remote control operation instructions | 19 |
| Controlling sweeper via APP | 20 |
| Deployment APP control | 20-21 |

05 Charging

| | |
|--|-------|
| Charging | 21 |
| Charging Precautions | 22 |
| Manual charging process | 22-23 |
| Automatic charging process of charging station | 23 |
| Manual charging process for charging stations | 23 |
| Charging function description | 23 |

06 Maintenance suggestion

| | |
|------------------------------|----|
| Maintenance suggestion | 25 |
| Repair matters | 25 |

07 Daily maintenance

| | |
|--------------------------|----|
| Daily maintenance | 26 |
| Weekly maintenance | 26 |
| Consumables | 26 |

08 Battery maintenance

| | |
|---------------------------|----|
| Battery maintenance | 27 |
|---------------------------|----|

09 Troubleshooting

| | |
|--|-------|
| The map of the sweeper is unclear | 27-28 |
| The main brush/side brushes not rotating in automatic mode | 28 |
| The cleaning effect not good | 28 |
| CoolCleanAPP displays fault status | 29 |
| The sweeper cannot be moved in manual mode. | 29 |
| The sweeper can not be charged | 30 |
| The side brush deformation | 30 |

10 Emergency Plan

| | |
|----------------------|----|
| Emergency Plan | 31 |
|----------------------|----|

11 CoolClean APP download

| | |
|------------------------------|----|
| CoolClean APP download | 31 |
|------------------------------|----|

13 After-sales policy

| | |
|--------------------------|----|
| After-sales policy | 32 |
| Service coverage | 32 |
| Warranty Coverage | 32 |

Safety Instruction

Operating Prerequisites

1. If you have not received formal training
2. If you have not carefully read and fully understood the instruction manual
3. If you are intoxicated or under the influence of drugs and are not in a sound state
4. If the Sweeper S180 is under unsuitable operating conditions, such as while charging...
5. Installing unauthorized Jtibat accessories or consumables may be dangerous
6. If the Sweeper S180 is in an unsuitable operating environment, such as when the ground material and condition are unsuitable, or when there is a risk of falling objects from above, etc.



Do not use Sweeper S180 if any of the above conditions apply

Before turning on the sweeper

1. Check if the battery is sufficiently charged.
2. Check if the Sweeper S180 is intact.
3. Check if the Sweeper S180 consumables are in normal working order.
4. Check if the emergency stop button is working properly.
5. Check for any abnormal alarms.

When using the Sweeper S180

1. Strictly follow the user manual to control the sweeper's movement and other operations.
2. In case of emergency, immediately press the red emergency stop button.
3. Maximum slope: 12 degrees.
4. On slippery surfaces, move the sweeper slowly to avoid wheel slippage.
5. When reversing the sweeper, check the rear view in real time.
6. Report any malfunctions to the sweeper immediately.

After completing the cleaning task

1. Please turn off the Sweeper, except when charging.
2. Please empty the trash bin, clean the filter, and replace the filter if necessary.
3. Please park the Sweeper in the designated location; the parking area must be a flat surface.

Abnormal working scenarios

1. To maximize the effectiveness and efficiency of the sweeper, please do not use it on unsuitable surfaces such as soil, grass, artificial turf, or wooden floors. Also, do not use the product on surfaces with poor conditions, such as uneven surfaces, potholes, large pieces of debris (greater than 420*70*70mm), or long, narrow objects (pipes, wires, ribbons, flammable materials, or sticky substances). In such cases, please clean or maintain the surface until it meets cleaning standards before using the sweeper to begin cleaning.
2. If the surrounding environment consists of glass walls or other highly transparent materials, some sensors of the Sweeper S180 may not function properly. Therefore, we do not recommend using it in such environments to avoid unnecessary danger. If you need to use it, please contact us for technical guidance.
3. If the Sweeper S180 is located on a purely sloping surface with a maximum climbing angle greater than 12 degrees, please do not use it on that surface. Sweeper operation is not recommended in light rain or snow.

If you are not sure whether the sweeper is suitable for your use case, please contact Jtibot after-sales support for more information.

Sweeper Storage

1. After each use of the Sweeper S180, please empty the trash bin promptly and store the Sweeper in a dry, well-ventilated place where the temperature and humidity meet the Sweeper's storage standards. Do not store it in damp, poorly ventilated areas, as this may affect its lifespan.
2. If the Sweeper is not used for an extended period, in addition to meeting the above requirements, please charge the battery to 40%-60% (approximately 3.2V/cell) before storing it. It is strictly forbidden to store it for an extended period when it is fully charged or discharged.

Notes

1. The Autonomous Driving Sweeper S180 is an automated intelligent cleaning robot. Please keep it away from the area before it starts operating automatically to avoid potential hazards.
2. Do not manually push the Sweeper S180.
3. The maximum slope is 12°.
4. Before charging, please turn off the charger power first.
5. Be careful as the wheels rotate at high speed to avoid injuring your feet or running over other objects.
6. When the Sweeper S180 is working, the roller brush will be in direct contact with the ground, generating downward pressure. Do not place foreign objects under the roller brush.
7. Regular maintenance is required. Check the voltage every 3-6 months. If the battery level drops significantly, recharge it to 40%-60% to prevent over-discharge.
8. Before use, check the appearance and voltage. After long-term storage, it is recommended to perform a complete charge-discharge cycle before first use.

Product Overview

Product Introduction

The Autonomous Driving Sweeper S180 is an industry-leading intelligent cleaning robot suitable for outdoor scenarios covering tens of thousands of square meters. It is widely applicable to large-area cleaning scenarios such as municipal auxiliary roads, urban parks, and natural scenic spots. Its powerful cleaning capabilities and efficient throughput speed can easily handle complex environments with fallen leaves and various types of garbage.

Product List

| Model | Item | Specification | Quantity | Note |
|--------------|--------------------------------|----------------------------------|----------|--------------------------|
| SWEEPER S180 | Sweeper | Sweeper S180 | 1 | |
| | Charger | Input AC220V Output DC48V 30A | 1 | |
| | Remote control | T8S | 1 | Standard configuration |
| | Remote control battery charger | TYPEC charging cable | 1 | Standard configuration |
| | Power bank | DC24V, 2A | 1 | For unlocking the shaft. |
| | Charger adapter cable | DC48V charging gun | 1 | |
| | Trash bin | 120L | 1 | |
| | Charging Station | AC220V 30A 1800W DC58.4V | 1 | Optional |

Core Functions

● Cleaning Performance

1. Equipped with JTClean-2 generation cleaning technology, it adopts a V-shaped dual main brush + 4 side brush design to efficiently clean dozens of types of garbage such as sand, dust, leaves, aluminum cans, cigarette butts, fruit peels and paper scraps, mineral water bottles, milk tea cups, plastic bags, cigarette butts and cigarette boxes, and napkins.
2. It features four extendable side brushes, a maximum cleaning width of 2 meters, and a maximum cleaning efficiency of 10,000 square meters per hour.
3. Equipped with a dust vibration system and water spray, it achieves excellent dust control results.
4. Equipped with a 120L trash bin and a 50L water tank, it greatly reduces the frequency of unloading trash and refilling water.

● Movement Performance

1. With a maximum slope of 12°, it is widely applicable to various road surfaces in scenarios such as parks, industrial parks, and municipal road conditions.
2. The independent dual rear-wheel drive design supports flexible turning and U-turns on the spot, and can overcome obstacles up to 7cm in height and ditches up to 5cm in width.
3. 6-hour battery life. Sweeper can automatically recharge when the cleaning task is completed or the battery is low.

● Intelligent Operation

1. Equipped with JTauto-2 generation automatic navigation technology, and through functions such as automatic charging, automatic water filling, trash bin remaining capacity detection, and automatic garbage unloading, it achieves fully autonomous operation, greatly reducing operator intervention.
2. Multi-sensor fusion perception and intelligent control decision-making enable precise avoidance of both dynamic and static objects.
3. The efficient path planning algorithm supports optimal cleaning path planning for various complex cleaning environments.
4. JTauto-2 generation automatic navigation technology features 360° environmental perception, ensuring that Sweeper can operate safely and automatically in all applicable scenarios.
5. Patrol cleaning supports automatic identification of dozens of types of waste, and supports both spot and comprehensive cleaning to achieve refined outdoor operations, adapt to different cleaning needs, and significantly improve cleaning efficiency.
6. Automatic recall in rainy weather: Based on light and rainfall detection technology, the sweeper can intelligently avoid rain and ensure safe operation.

- By employing multiple types of sensors and supplemental lighting technology, it can operate 24 hours a day, both day and night.

- Intelligent Operation and Maintenance**

- It can be controlled via cloud platform and APP, and features such as scheduled cleaning, intelligent job scheduling, and cleaning data statistics.
- The remote driving system can take over the sweeper remotely under specific circumstances, enabling remote driving and remote extrication, ensuring operational safety and stability.
- Modular design allows for easy disassembly and installation without the need for professional personnel or tools, enabling quick maintenance.
- Remote OTA upgrades continuously improve functionality.

Application Scenarios

Sweeper S180 is mainly used for hard, flat surfaces such as granite, asphalt, cement, epoxy, plastic running tracks, regular brick and stone surfaces, small pebbles, small square brick surfaces, and small cobblestone surfaces.

Typical application scenarios:

- Parks & Scenic Spots
- Transportation hubs & municipal auxiliary roads
- Industrial parks & large warehouses
- Hospitals & Campuses

S180 Specification

| Parameter type | | Item | Specification |
|-------------------|-------------------|--|---|
| Basic Information | | Model | SWEEPER S180 |
| | | Product name | Autonomous driving sweeper |
| | | Housing material | ABS |
| | | Size | L*W*H : 2450*1110*1740mm |
| | | Weight | 486kg |
| Overall parameter | Cleaning Function | Speed | 0-8km/h |
| | | Cleaning width | 2m |
| | | Cleaning efficiency | Maximum 10000m ² /h |
| | | Types of garbage | Sand, dust, cigarette butts, paper scraps, gravel, leaves, cans, mineral water bottles, etc. |
| | | Road surface | It is suitable for hard flat ground, such as granite ground, asphalt ground, cement ground, epoxy floor, plastic track, regular masonry ground, small rubble ground, small square brick ground, small pebble ground, etc. |
| | | Edge Cleaning | 0 distance close to the roadside cleaning |
| | | Working noise | ≤70dB |
| | | Trash bin volume | 120L |
| | Garbage dump | Automatic loading trash bin Automatic unloading trash bin | |

| Parameter type | | Item | Specification |
|-------------------|---------------------------|-----------------------------|--|
| Overall parameter | Cleaning and dust control | Water tank volume | 50L |
| | | Continuous water spray time | 90minutes |
| | | Water spary | Support (Dust suppression by spray) |
| | | Water adding method | Manually add water/automatically add water |
| | | Dust filtration | Effectively suppress dust; automatic electric dust vibration |
| | Athletic performance | Battery life | 6h |
| | | Slope | Maximum12° |
| | | Obstacle-crossing | Maximum 7cm (Height) |
| | | Ditch-crossing | Maximum 5cm (Width) |
| | | Braking ability | Emergency braking, driving brake, parking brake, power failure braking. |
| | | Braking distance | Minimum 50cm |
| | | Turning radius | Minimum 2m |
| | | Control mode | Remote control mode/autopilot mode/ remote takeover mode |
| | | Remote control | Mobile APP remote control/Tablet remote control/Remote controller |
| | Automatic operation | Positioning accuracy | 1cm |
| | | Mapping ability | Maximum 1,000,000 square meters |
| | | Obstacle avoidance ability | Supports dynamic and static objects obstacle detection and obstacle avoidance |
| | | Protective devices | Front bumper collision detection; side brush collision detection; water pipe and power cord drag detection |

| Parameter type | | Item | Specification |
|-------------------|----------------------------|---------------------|---|
| Overall parameter | Athletic performance | Anti-fall | Support |
| | | Operation time | Day and night 24 hours operation |
| | | Operation weather | Support autonomous recall in rainy days |
| | Electrical parameters | Battery | Lithium iron phosphate battery |
| | | Voltage & Current | 48V * 150AH |
| | | Charging method | Manual charging /Automatic charging (Docking charging station) |
| | | Charging time | Normal charging: 30A full charging time 5 hours Quick charging: 50A full charging time 3 hours |
| | | Network | 4G/5G |
| | | Fault diagnosis | Support key sensor self-inspection, sweeper motor inspection, etc. |
| | human-computer interaction | Audio output | The maximum decibel value of volume is 100 db, and the maximum playing distance is 100m. |
| | | Voice input | Support |
| | | Indicator signal | Status indication, turn indication, brake indication, etc. |
| | | Interactive buttons | Emergency stop button, power button |
| | Maintenance | Sweeper life | Sweeper life not less than 5 years |
| | | IP grade | IPX5 |
| | | Wading depth | 10cm |
| | | Upgrade mode | OTA |
| | | Brush adjustment | Auto brush adjustment |

| Parameter type | | Item | Specification |
|-------------------|----------------------------|-----------------------|--|
| Overall parameter | Environment | Working environment | Temperature : -20°C ~ +50°C; Humidity : 20% ~75%RH(No frost formation) |
| | | Environmental factors | No flammable dust, flammable liquids, corrosive gases, electromagnetic interference, and radio frequency interference; operates without vibration on the road surface; No impact and collision objects in the working environment. |
| | | Weather | Available weather : Sunny, Cloudy, Overcast, Light rain, Light snow Unavailable weather: Moderate rain, Heavy rain, Moderate snow, Heavy snow, Hail, Sandstorm,Fog |
| | | Light | Unaffected by light |
| | Transportation and storage | Parking | Parking space: Flat ground Parking space dimensions: 3000*2000*2000mm (L*W*H) |
| | | Storage | Temperature: Optimal 10°C-25°C, avoid high temperatures and freezing. Humidity: Keep dry. Safety: Avoid short circuits, impacts, direct sunlight, and contact with flammable materials. |
| | | Transportation | It can be transported and stored within a temperature range of -25°C to +60°C, and can withstand temperatures up to +70°C for no more than 24 hours. |
| | Certification | Certification | Sweeper : CE 、Saber Battery: MSDS/UN38.3/Sea freight certificate |
| | | User manual | English user manual、 Chinese user manual |

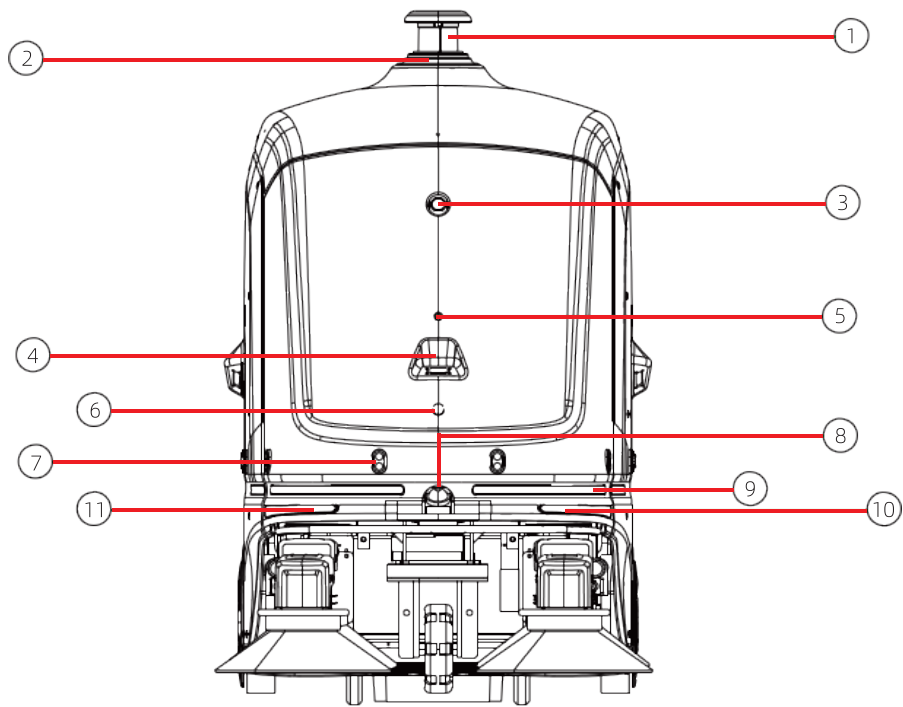
Operating Instructions

This manual is intended for personnel directly operating or managing the Sweeper S180. Operators need to understand how to control the Sweeper's movement, perform cleaning tasks, and charge it, as well as advanced operations such as mapping, creating cleaning paths, creating cleaning tasks, checking cleaning reports, and Sweeper's status. These operations will be described in detail below.

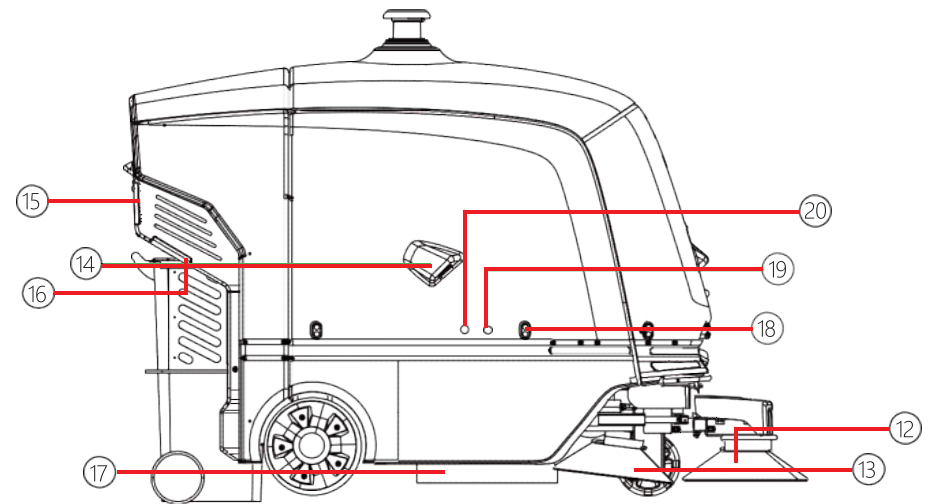
Sweeper appearance

The main exterior components and interfaces of the sweeper include: multi-line LIDAR, front LIDAR, ultrasonic sensors, emergency stop button, indicator lights, etc. The location and quantity of each component are shown in the figure below:

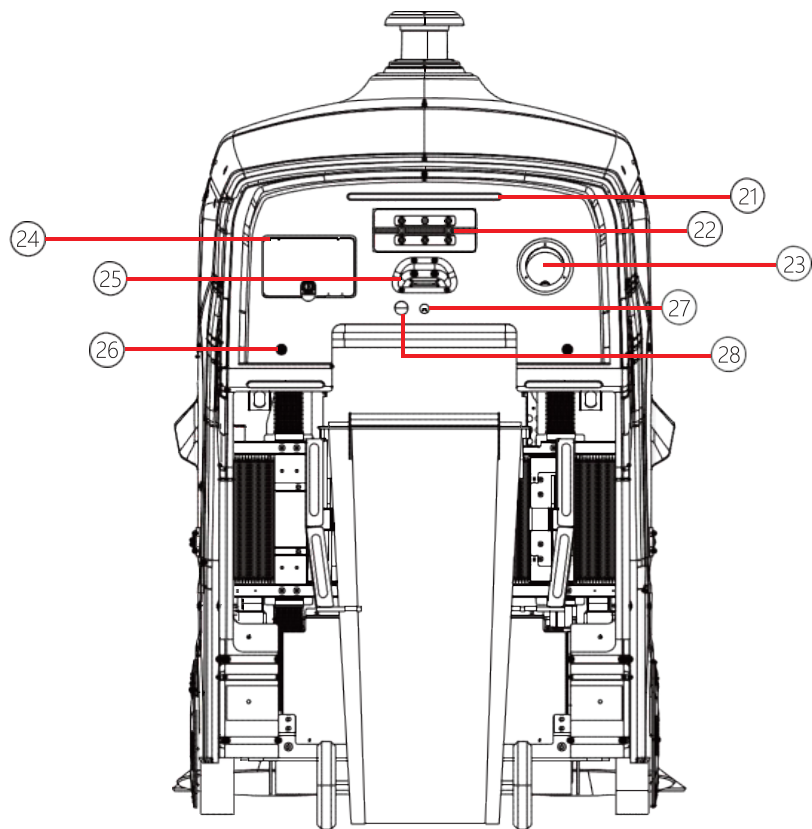
Note: Sweeper status lights: Green light indicates normal status, yellow light indicates warning status, and red light indicates fault status.



- | | | |
|-----------------------|-------------------------|-----------------------|
| 1. Multi-line LIDAR | 2. Sweeper status light | 3. Rain sensor |
| 4. Depth camera | 5. Monocular camera | 6. Fisheye camera |
| 7. Ultrasonic sensor | 8. Front LIDAR | 9. LED strip lighting |
| 10. Right turn signal | 11. Left turn signal | |



- | | | |
|-----------------------|----------------------|----------------------------|
| 12. Outer side brush | 13. Inner side brush | 14. Depth camera |
| 15. Rear turn signal | 16. Brake lights | 17. Main brush side baffle |
| 18. Ultrasonic sensor | 19. Fisheye Camera | 20. Microphone |



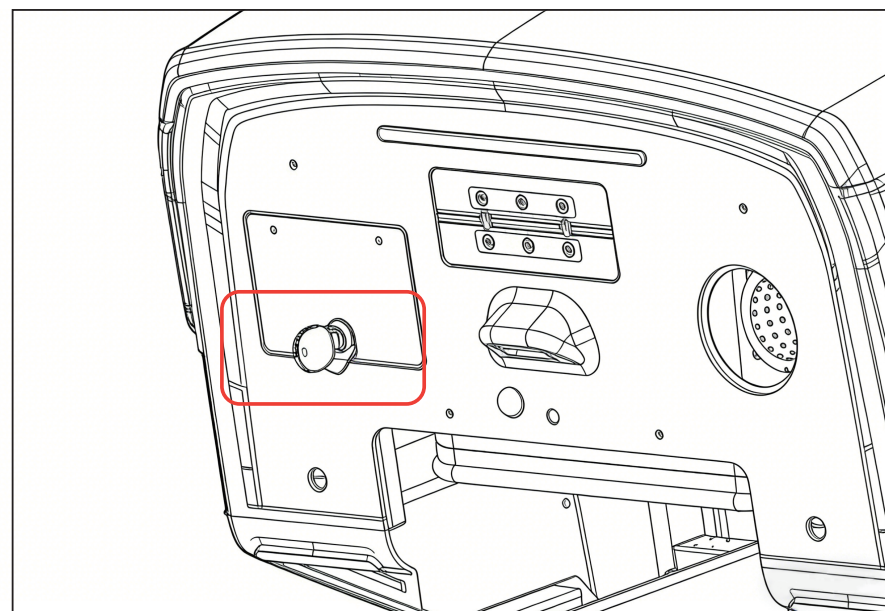
- | | | |
|------------------------------|--------------------|---------------------------|
| 21. High-mounted brake light | 22. charging plate | 23. Water injection port |
| 24. Control box | 25. Depth camera | 26. Emergency stop button |
| 27. Monocular camera | 28. Fisheye camera | |

Emergency stop button

In case of emergency or malfunction, the emergency stop switch can be pressed, and the sweeper will immediately stop moving forward. The button is located at the rear of the sweeper. During this time, the sweeper cannot be manually pushed or any other operation can be performed. To resume operation, simply rotate the emergency stop button clockwise until it pops back up.

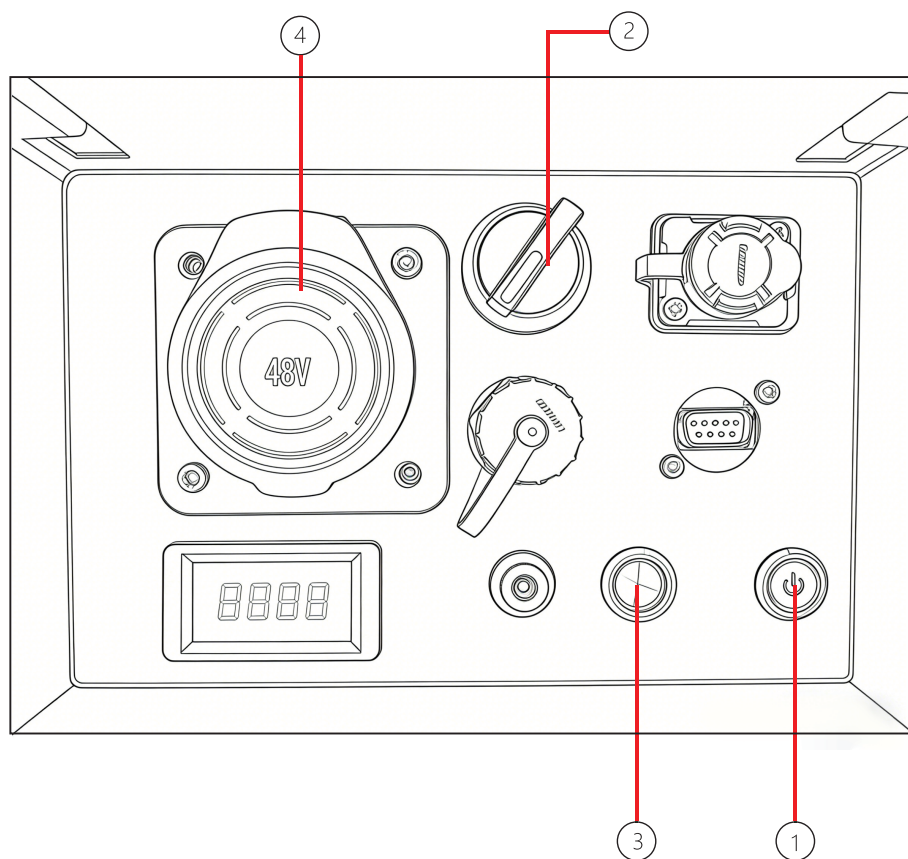
Note: The remote control cannot unlock after the emergency stop switch is pressed. The remote control can only unlock after the emergency stop switch is released.

Control box



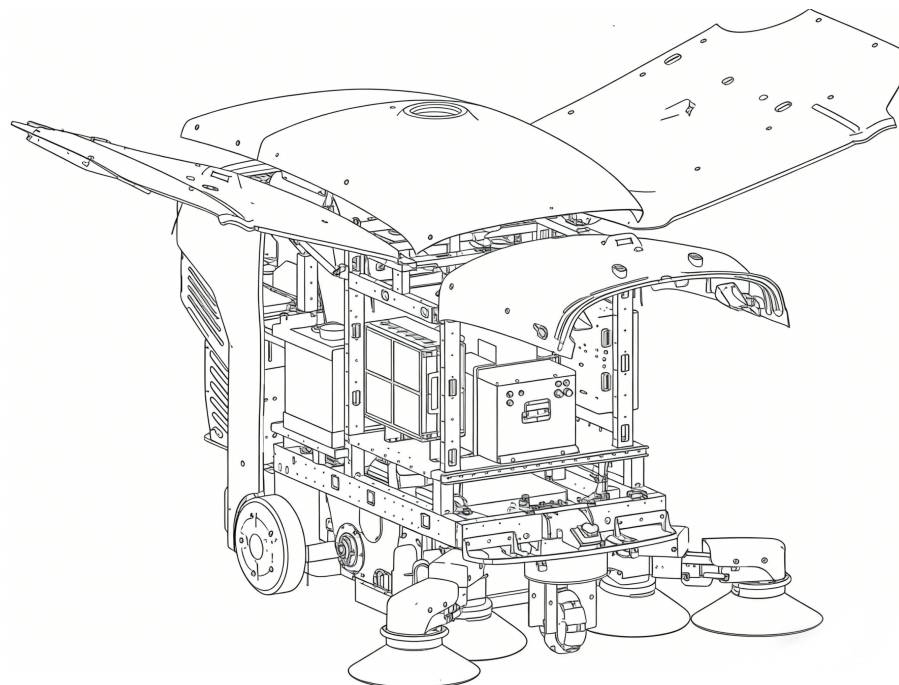
There is a control box at the rear of the sweeper. To open the control box, as shown in the picture below, use the key to open the control box and then open the control box cover upwards.

Control box



1. Battery switch: Pressing the battery switch activates the battery; pressing it again deactivates the battery.
2. Power switch: Turning the power knob to the right once turns the cleaning cart on; turning it to the right again and holding it for more than five seconds turns it off.
3. Top cover lifting button: Pressing the button raises the top cover during maintenance; the button pops up when the top cover lowers.
4. Charging interface: Aviation plug socket. For manual charging, connect the charger's aviation plug to this interface.

Top cover lifting button



Pressing the top cover button will raise the top of the sweeper, and once raised, the sides can be opened for maintenance work.

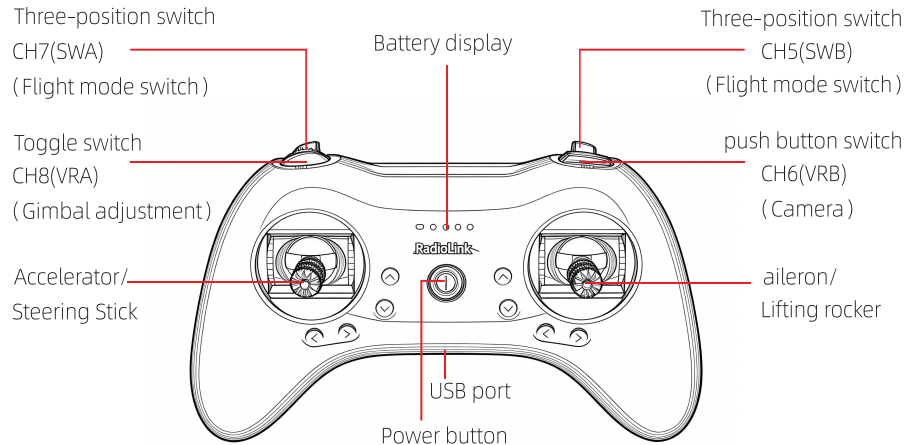
Remote control

Remote control precautions

Note: The remote control cannot unlock after the emergency stop switch is pressed. The remote control can only unlock after the emergency stop switch is released.

Note: The remote control is already paired with the Sweeper S180 at the factory. Please do not adjust or move it arbitrarily.

Remote control appearance



Remote control operation instructions

| Function | Control method (CH5/CH7 default medium setting) |
|--------------------------|--|
| Power button | Press the power button to turn on; the battery indicator light will illuminate, indicating manual mode has been entered. Press the power button to turn off; the battery indicator light will turn off, indicating automatic mode has been entered. |
| Sweeper movement | After pressing and holding CH6, use the left joystick (throttle) to move up and down to control the movement. |
| Sweeper steering | Press and hold CH6, then use the right joystick to control the steering left or right. |
| Clip-on trash bin | Clamp and lift: Press and hold CH6, Shift CH7 to the lower gear, then shift CH7 back to the middle gear and release CH6. Lower and release: Press and hold CH6, Shift CH7 to the upper gear, then shift CH7 back to the middle gear and release CH6. |
| Lower brushes & cleaning | Lower brushes and cleaning: Press and hold CH6, Shift CH5 to the upper gear, then shift CH5 back to the middle gear and release CH6. Cancel cleaning: Press and hold CH6, Shift CH5 to the lower gear, then shift CH5 back to the middle gear and release CH6. |
| Demo Mode | Move the left joystick to the lower right and the right joystick to the lower left, and hold for 5 seconds continuously to turn on or off the demo mode. |
| USB port | The USB port allows for updates and charging. |

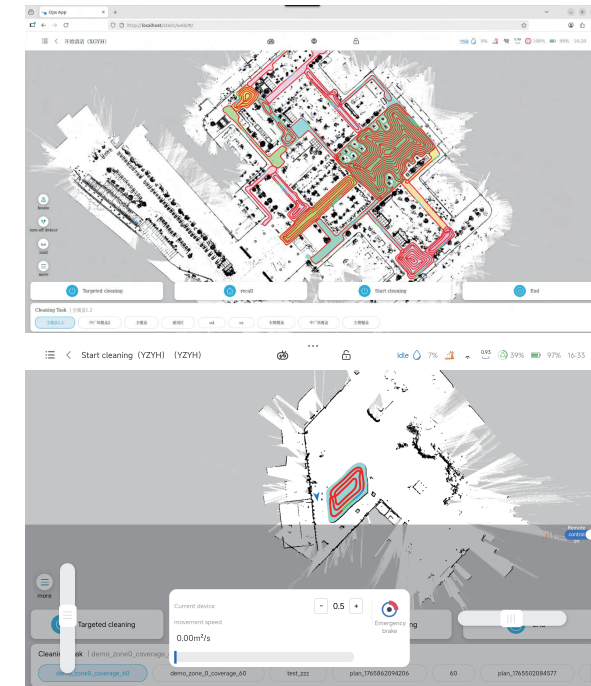
Controlling sweeper via APP

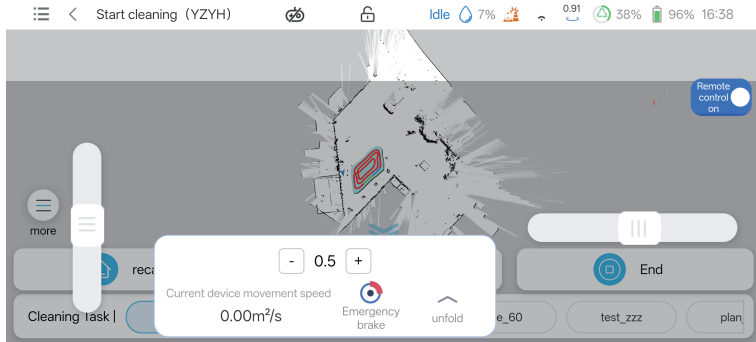
In the CoolClean APP, click the Bluetooth remote control button. After connecting the Sweeper, click the remote control switch to operate it. The following is the interface operation logic.



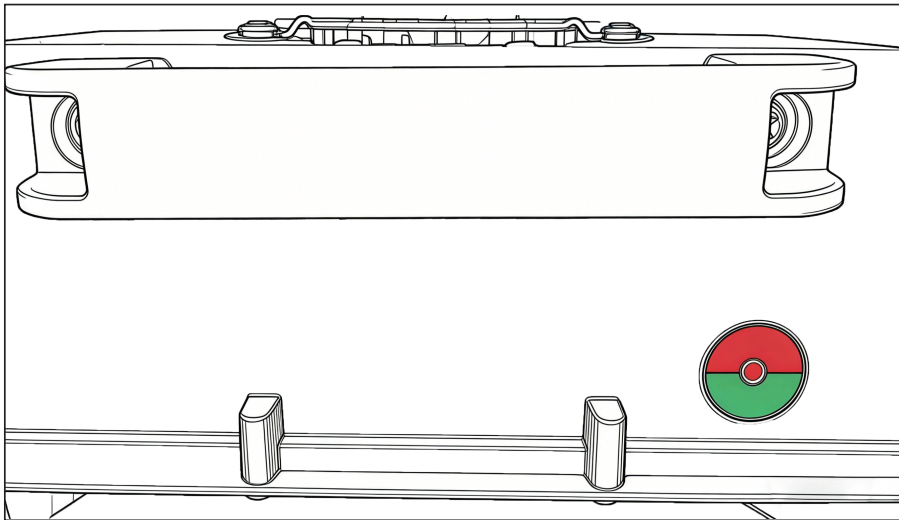
1. Click the Bluetooth button to turn on Bluetooth (the two remote controls cannot be operated when Bluetooth is displayed as off).
2. The middle section controls the dust vibration, side brush and main brush switches, front baffle opening/closing, speed, and displays the current sweeper status.

Deployment APP control





Charging



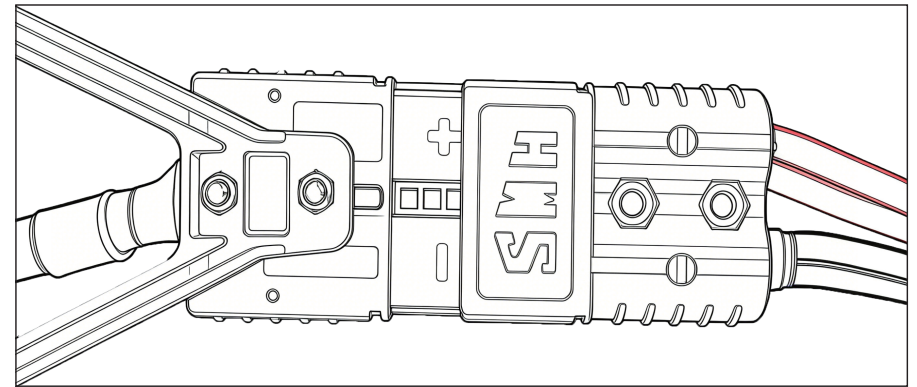
- 1、 Constant current charging status: The red light flashes once per second;
- 2、 Constant voltage charging status: Green light flashes once per second;
- 3、 Fully charged: The power indicator light is solid green.
- 4、 Charger or battery malfunction status: The fault light is constantly on red.

Charging Precautions

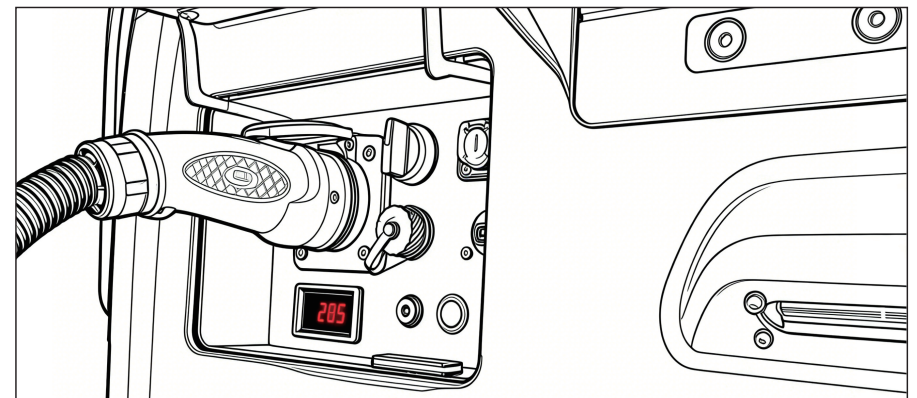
1. Before charging, please ensure that the power supply line can provide at least 2000W of power to the sweeper alone.
2. Fully charge the battery every two weeks until the overvoltage protection activates and the charger automatically stops operating.

Note: The charger has an output current of 30A. Be sure to turn off the charger before plugging or unplugging to avoid personal injury or damage to the sweeper.

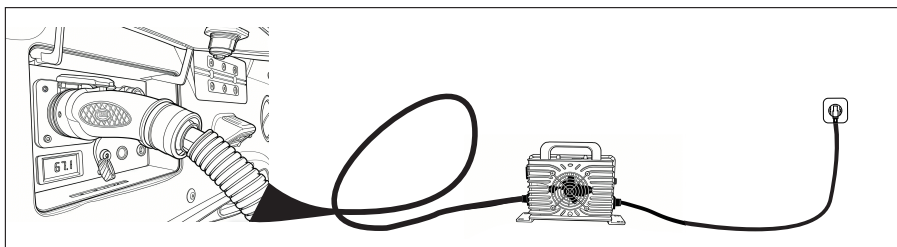
Manual charging process



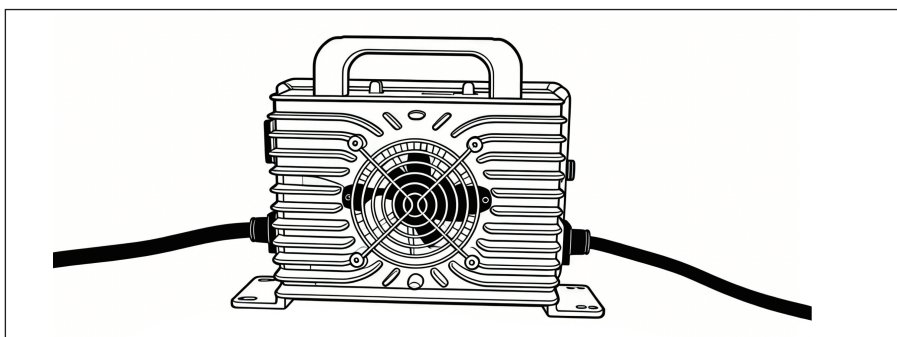
1. Connect the charger connector and the aviation plug adapter (red wire to positive, black wire to negative).



2. Connect the charger's aviation plug to the aviation plug socket on the Sweeper tail control box.



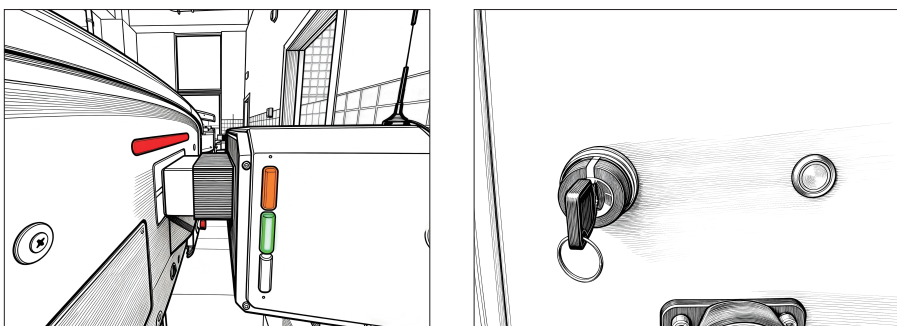
3. Connect the charger's 16A plug to a 16A socket (or use an adapter to connect it to a regular socket).



4. Power on the charger. After approximately 2-5 seconds, the green light will flash, and the cooling fan will start running, indicating normal charging.

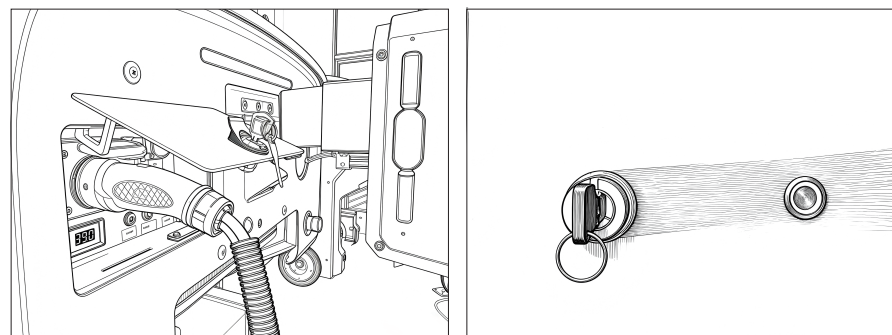
5. After charging is complete, disconnect the charger from the power supply before unplugging the aviation connector.

Automatic charging process of charging station



For automatic docking with a charging station, the button on the station must be in the pop-up position (as shown in the picture).

Manual charging process for charging stations





In manual charging mode, you need to insert the charging gun head into the tail of the Sweeper and press the button on the charging station (see picture for details).

Charging function description



| Status | Description |
|-----------------------------------|--|
| Power switch | It is a key switch, to turn the charging station's power on/off. |
| Emergency stop switch | Pressing the emergency stop button will disconnect the charging station from the Sweeper, immediately stopping charging. |
| Abnormal indicator light (red) | Under normal circumstances, this indicator light is off; under abnormal circumstances, this indicator light remains on. |
| Power indicator light (green) | Connect to a power source and turn on the power switch; the power indicator light should illuminate. Otherwise, the power indicator light should be off. |
| Charging indicator light (yellow) | The indicator light flashes while charging (on for 0.5 seconds, off for 0.5 seconds). Once fully charged, the indicator light remains on. The indicator light turns off after the sweeper leaves the charging station. |

Maintenance suggestion

Operators need to perform simple maintenance on the sweeper before and after each use, conduct necessary inspections and maintenance periodically, and replace consumables regularly to ensure that the sweeper performs at its best and extends its service life to the maximum extent.





-  Before performing maintenance, the power must be turned off and the power plug disconnected to prevent accidental electric shock or damage to parts.
-  Store the sweeper in a dry, well-ventilated place to avoid moisture affecting electronic components and shortening their lifespan. If the storage environment is extremely cold, ensure that there is no water accumulation in the entire water system.

Repair matters






-  Unauthorized disassembly of the Sweeper, such as the panel or internal control box, is strictly prohibited. If discovered, the user will not be able to enjoy the warranty.
-  If your Sweeper malfunctions and cannot be resolved through standard troubleshooting methods, please contact your local distributor or Jtibat for more information.

Daily maintenance

Daily maintenance

-  Empty the trash bin.
-  Clean the filter element inside the dust box.
-  Check if there are water droplets on the sensor. Gently absorb them with a tissue or soft cloth. Do not wipe directly with your hands, as this may scratch the sensor.
-  After completing the cleaning task, please check the battery level and recharge it.

Weekly maintenance

-  Inspect the main brush and side brushes weekly, and replace them promptly if necessary.
-  Check the filter and replace it if necessary.
-  Check all springs, screws, and sheet metal components for looseness, deformation, or rust.
-  Check the sensor for scratches.
-  Check if the center height of the main brush is within a reasonable range.

Consumables

The main consumables for the Sweeper S180 include filters, roller main brushes, side brushes, belts, and rubber. The replacement cycle varies depending on the floor material and the usage scenario. Users can shorten or extend the replacement cycle of consumables as needed, and adjust accordingly based on the observed cleaning results.

Battery maintenance

Note: The battery must not be disassembled or replaced without authorization.

1. Keep the battery away from heat sources, high voltage areas, and avoid prolonged exposure to direct sunlight.
2. Do not immerse the battery in water or fire.
3. Do not short-circuit the positive and negative terminals of the battery with metal.
4. Avoid excessive physical vibration and impact to the battery; do not bump, drop, or step on the battery.
5. Without the manufacturer's permission and guidance, it is strictly forbidden to disassemble or assemble the battery.
6. Batteries from other manufacturers, types, and models must not be mixed and used.
7. Please do not use or store the battery in high-temperature environments (>45°C), otherwise it may cause the battery to overheat.
8. It may cause a fire or reduce its service life.
9. Charge the battery immediately after it is completely depleted. For long-term storage, fully charge it once a month and check the voltage every 3-6 months. If the charge level drops significantly, recharge it to 40%-60% to prevent over-discharge.
10. Please use the matching or recommended professional lithium battery charger.
11. If the battery exhibits any abnormalities such as unusual odor, discoloration, noise, leakage, or severe deformation, please stop using it.

Troubleshooting

1. The map of the sweeper is unclear.

Possible reasons •

- The sweeper's high speed resulted in poor mapping quality.
- The LIDAR is dusty or obstructed by obstacles.
- The environment contains highly transparent materials such as glass walls.

Solutions •

- Please control the sweeper to move at a slow speed to build map.
- Clean the exterior of the LIDAR using a lint-free cloth and remove any obstructions.
- When building the map, if highly transparent materials are found in the surrounding environment, draw virtual walls to control the map boundaries.

2. The main brush/side brushes not rotating in automatic mode.

Possible reasons •

- The fuse blew.
- The main brush is entangled by a linear object.

Solutions •

- Replace the fuse.
- Remove the main brush/side brush, clean out any linear object, and then reinstall it.

3. The cleaning effect not good.

Possible reasons •

- The suction button on the control panel is off, so it cannot vacuum.
- The suction hose is blocked due to poor connection or the intake of unknown objects

Solution •

- Check the roller brush for blockages; if so, remove them promptly.

4. CoolCleanAPP displays fault status.

Possible reasons •

- Position lost.
- Planning task failed
- Others

Solutions •

- Confirm whether Sweeper is at a charging point or position point. If so, relocate or manually locate. Wait for successful positioning before issuing the task.
- Confirm whether the sweeper is outside or on the boundary. Move it into the cleaning area before issuing the task.
- Contact with Jtibat.

5. The sweeper cannot be moved in manual mode.

Possible reasons •

- The sweeper is power off.
- The emergency stop button was pressed.
- The remote control is in automatic mode.

Solutions •

- Power on the sweeper again.
- Release the red emergency stop switch at the rear.
- Switch the remote control to manual mode.

6. The sweeper can not be charged.

Possible reasons •

- The power outlet is disconnected.
- The charger is damaged and cannot charge.
- The battery is damaged and cannot be charged normally.

Solutions •

- Please ensure that the power outlet has power.
- Please check if the charger indicator light is constantly red. A constantly red light indicates normal charging. If it is off or flashing, it indicates that the charger is malfunctioning. Please contact Jtibat.
- If the charger is working properly, but the battery percentage does not increase with the charging time, it indicates that the battery is damaged or abnormal. Please contact Jtibat.

7. The side brush deformation.

Possible reasons •

- Compression causes deformation.

Solutions •

- If the side brush is already installed on the sweeper, you can simply turn on the side brush and rotate it at high speed for about half an hour to restore its function.
- Pour boiling water onto the deformed bristles, and they will be restored after cooling.
- The deformed brush can be restored by exposing it to high temperature for about half a day.

Emergency Plan

- 7*24h Real-time system alerts .
- We provide rapid response after-sales service within 24 hours.
- We guarantee that the product will be restored to normal working condition within 48 hours.

CoolClean APP download

Android



Search CoolClean on Google Play and download it.

IOS



Search for CoolClean Plus in App Store and download it

After-sales policy



Service hours: Monday to Sunday, 9:00 AM – 6:00 PM(UTC+8)

Service coverage

- The product comes with a one-year warranty, starting from the date of acceptance.
- Free online technical support and consultation services are provided during the warranty period.
- We provide free installation and debugging programs, as well as software upgrades of the same generation.
- If the parts are available after the repair is reported, the sweeper will be restored to normal operation within 48 hours.

Warranty Coverage

- The warranty covers product quality issues that occur under normal use.
- The requested repair time must be within the stipulated warranty period.
- Damage to the sweeper caused by failure to follow the instructions in the user manual is not covered under warranty.
- Faults or damages caused by installation, repair, alteration, or disassembly by personnel not authorized by Jtibot will not be repaired.
- If the materials have reached the end of their lifespan and the cleaning is incomplete due to failure to replace them with the prescribed standard materials, the warranty will not be valid..