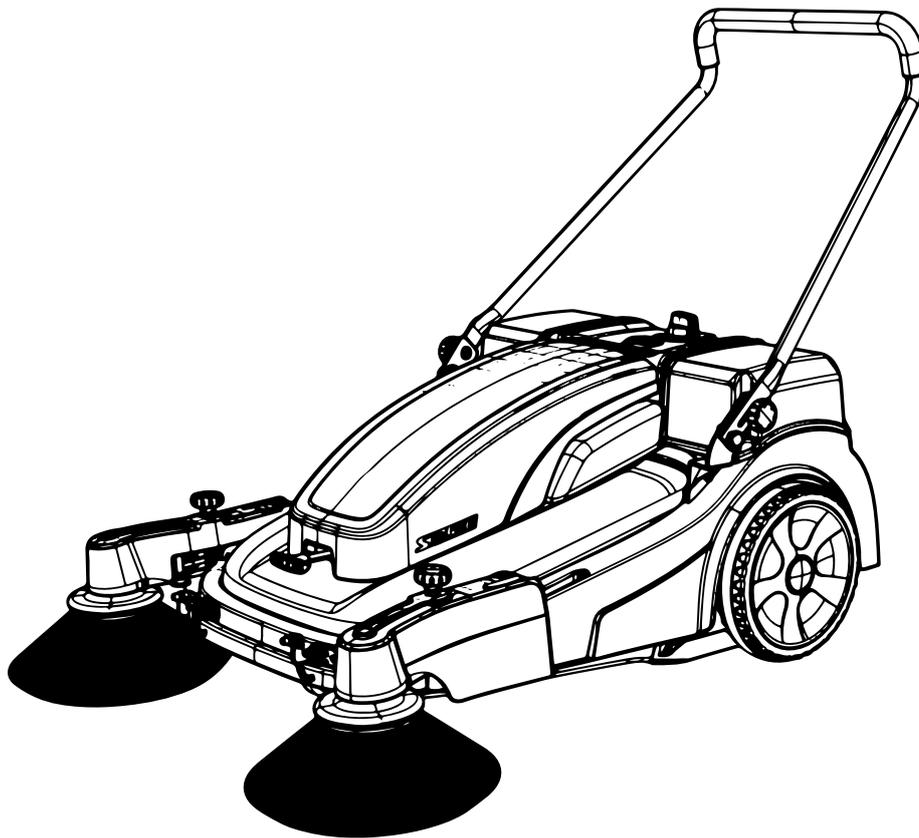


Hand-push Sweeper Operation Instruction

S2pro (SMR105/42 C)

Single brush without spraying/ Single brush with spraying

Double brush without spraying/ Double brush with spraying



Do not use this device without reading this manual.



11/2023

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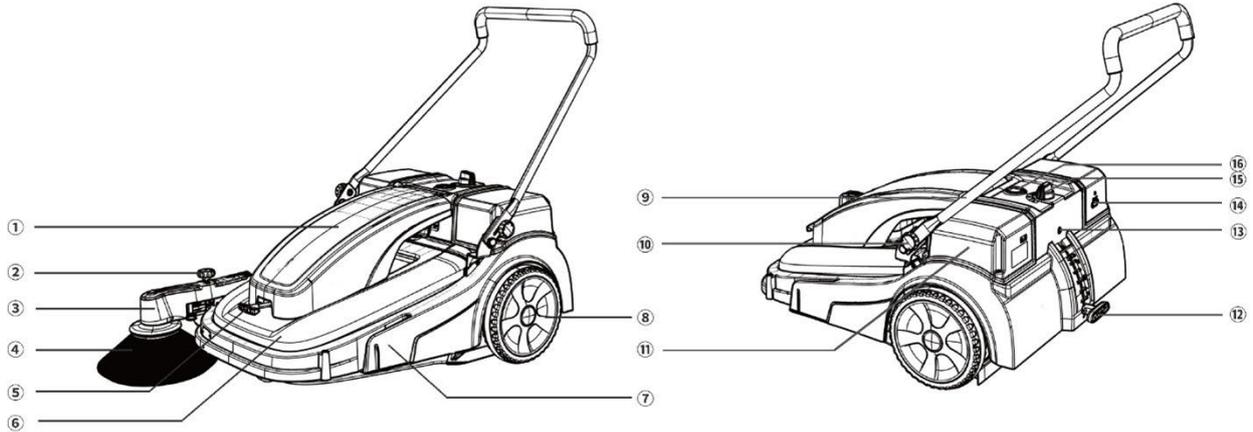
Chapter 1 User instructions

1. Before using the sweeper for the first time, please read the instruction manual carefully and keep it for reference for other users.
2. Before using the sweeper, please carefully check whether all parts are good. If you have any questions, please contact the dealer in time.
3. Please keep this machine away from water, and do not wash it directly, or have it stored without protection steps in heavy rain or snow to avoid damage caused by water entering the internal electrical components.
4. This machine uses DC power, but
 - (1) Do not touch the charging socket with wet hands;
 - (2) Do not touch the positive and negative terminals of the charging socket with your hands or metal objects at the same time.
5. Please charge the battery before the lowest voltage (the under-voltage recovery value). If the battery is frequently in a deep discharge state during use, it will seriously affect its service life. In addition, do not store the machine for a long time with low battery power. Please fully charge the battery in time after use. If the machine needs to be stored for a long time, the battery should be fully charged before storage, and should be checked and replenished regularly (generally no more than 15 days).
6. All batteries will be affected by temperature. The ideal operating temperature is 0-40°C. At this range, the battery has good discharge performance and high capacity. When temperature of the working environment is below 0°C, the capacity will drop by more than 1/3. When it is low, the battery capacity decreases and the battery life decreases, which is normal; when the temperature rises, the battery function will naturally return to normal.
7. In summer, the machine should be prevented from being exposed to sunlight for a long time. Otherwise, if the temperature exceeds 60°C, the machine may not work properly.
8. Sudden change from cold to hot environment will cause condensation on the electronic components, which should be eliminated before use.
9. For the safety of others, please do not give the sweeper to people who cannot operate it, especially minors.
10. This machine should be used correctly. During use, you should pay attention to whether there are any dangers around and traffic safety.
11. Please do not disassemble the machine by yourself. If there is any problem, please contact the dealer.

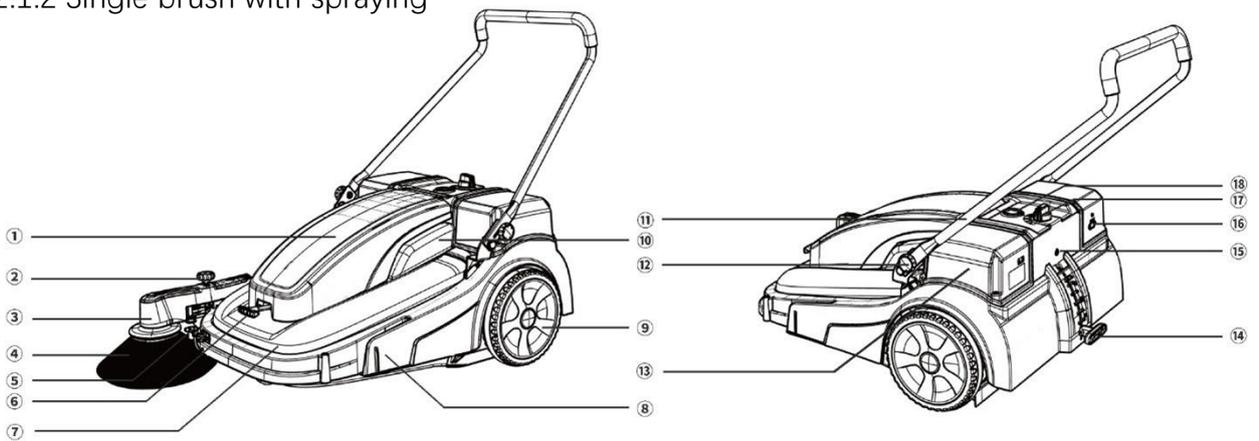
Chapter 2 Machine parts and technical parameters

2.1 Machine name

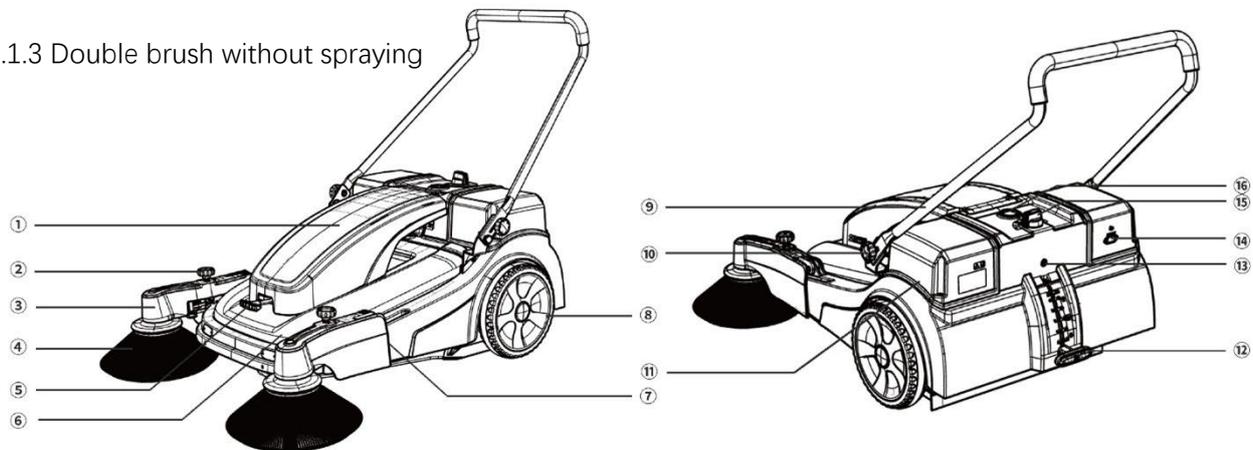
2.1.1 Single brush without spraying



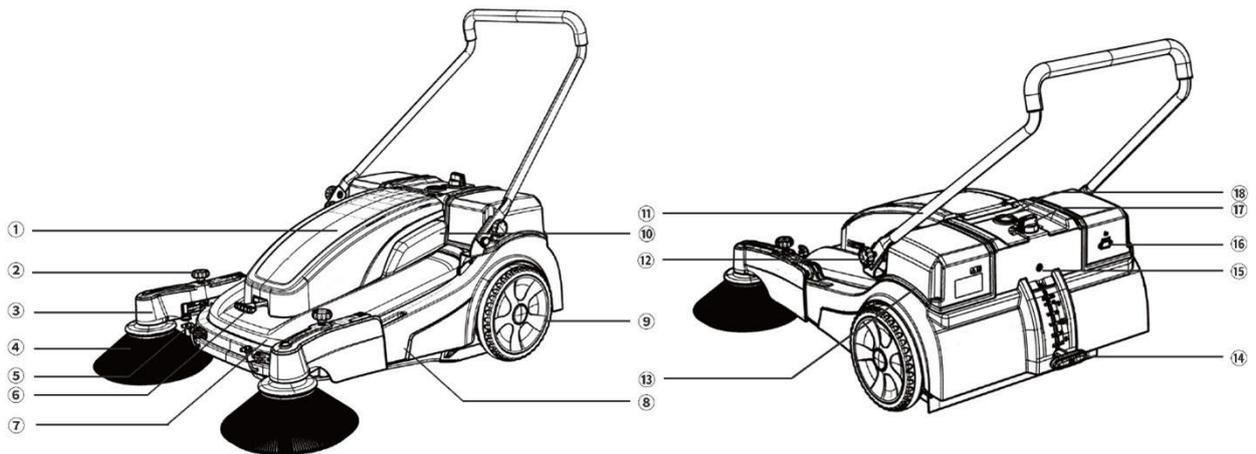
2.1.2 Single brush with spraying



2.1.3 Double brush without spraying

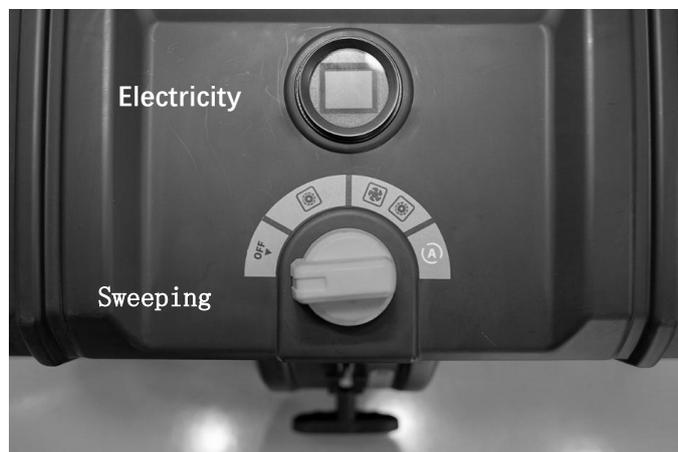


2.1.4 Double brush with spraying



No.	Name	No.	Name
①	Vacuum motor case cover	⑩	Solution tank
②	Side brush adjustment knob	⑪	Push rod
③	Side brush	⑫	Knurled nut
④	Brush plate	⑬	Machine cover
⑤	Nozzle	⑭	Adjustment rod handle
⑥	Dust vibration rod handle	⑮	Main switch
⑦	Trash can	⑯	Charging socket
⑧	Chassis	⑰	Sweeping switch
⑨	Tire	⑱	Electricity meter

2.2 Control panel



2.3 Technical parameters

No.	Item	Single brush without spraying	Single brush with spraying	Double brush without spraying	Double brush with spraying
1	Cleaning width (mm)	775	775	1050	1050
2	Rolling brush width (mm)	500	500	500	500
3	Side brush width (mm)	350	350	350*2	350*2
4	Water tank capacity (L)	/	8	/	8
5	Dust collection capacity (L)	45	45	45	45
6	Working hours (h)	3-4	3-4	3-4	3-4
7	Working efficiency (m ² /h)	4200	4200	5250	5250
8	Battery capacity (V/Ah)	24V/24Ah	24V/24Ah	24V/24Ah	24V/24Ah
9	Rolling brush motor (W)	250	250	250	250
10	Vacuum motor (W)	36	36	36	36
11	Walking speed (Km/h)	0-8	0-8	0-8	0-8
12	Machine weight (kg)	50	50	56	56
13	Product size (mm)	1470*932*1040	1470*932*1040	1470*1040*1040	1470*1040*1040
Note: Optional battery capacity: 24V/32Ah; 24V/50Ah					

Chapter 3 Operation guide

3.1 Charging

Since it takes time for a new machine to leave the factory, be transported, and be stored, loss of battery power may occur. So before using the machine, please check whether the power is sufficient before turning on any function switch. You must use a special charger configured or designated by our company, otherwise the battery will be damaged and may even cause fire and other dangers.

- (1) Carefully check whether the rated input voltage of the charger is consistent with the grid voltage.
- (2) Do not disassemble the battery to charge it.
- (3) Please first connect the charger's output plug to the machine's charging port, and then connect the input plug to the AC power supply.
- (4) At this time, the power and charging indicator lights on the charger will be on, indicating that the power is on to charge the machine.

(5) The charging indicator light generally will not be on immediately, that is, when charging, the indicator light delays for a few seconds after the power is turned on; when charging is completed, the light goes out for a few seconds after the power is turned off.

(6) The charger should be used in a dry and ventilated environment to facilitate heat dissipation of electronic components. It is strictly prohibited to cover the charger with anything.

(7) When the charge is over, do not leave the charger connected to the power supply without load for a long time to avoid affecting its service life or causing other dangers.

(8) The charger is a precision electronic product. Avoid bumps and vibrations when driving. It is best not to carry it with the machine to avoid damage to the charger.

(9) One charge takes about 3-10 hours. When the charging indicator turns from red to green, it means the battery has sufficient power for use.

(10) Please keep the continuous charging time below 15 hours.

(11) After charging, unplug the AC power supply first, and then unplug the plug connected to the battery.

Keep the charging device and battery in a safe place away from children and people unfamiliar with the operation.

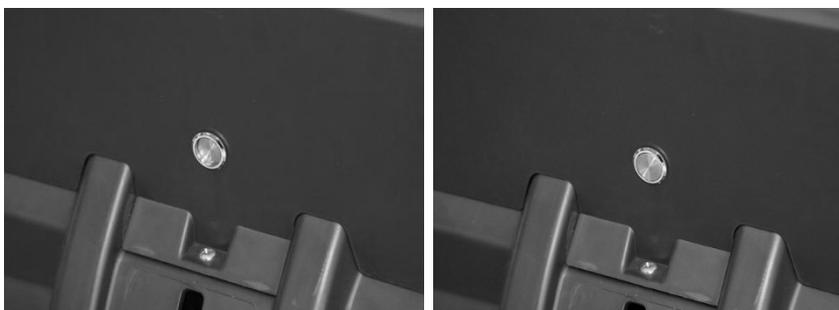
3.2 Sweeping

3.2.1 Main switch (as shown on the right)

The switch position.

1. When the button is pressed, all circuits of the machine are connected, and the electricity meter will be on.

2. If the button is not pressed, all circuits of the device will be cut off and the power meter will not be on.



3.2.2 Cleaning switch device (as shown in the figure)

Gear 1: The brush plate motor circuit is on, and the rolling brush and side brush will start to work.

Gear 2: The brush plate motor and vacuum motor circuits are connected, and the rolling brush, side brush and suction function will start to work.

Gear 3: All circuits are turned on and all functions start to work (Note: 1. Spraying model, the spraying function is turned on simultaneously with gear 2 function; 2. non-spray version, the function is the same as the gear 2).

In the initial position, all circuits are cut off and all functions cannot work.



Gear 1



Gear 2



Gear 3



Initial position

3.2.3 Operation guide

Before use, please check whether the tire can rotate normally, whether the solid parts are good, and whether the brush belt can rotate normally.

Please adjust the height of the rolling brush and brush plate to the appropriate position before use.

Do not move the machine backwards when the rolling brush is working to avoid damage to the motor and controller.

When the power is insufficient, the control circuit of this machine will automatically stop the rolling brush and brush plate. Please shut down the equipment immediately and wait until the battery of the equipment is fully charged to avoid damaging the battery.

3.2.4 Brush plate height adjustment (as shown in the figure)

Rotate the knob counterclockwise to lower the height of the brush plate, and vice versa.

Please adjust the brush plate to an appropriate height. If it is too low, it will increase power consumption and accelerate the wear of the brush plate.



3.2.5 Rolling brush height adjustment (as shown in the figure)

Adjust the switch upwards to lower the rolling brush height.

Please adjust the rolling brush to an appropriate height. If it is too low, it will increase power consumption and accelerate the wear of the rolling brush.



Chapter 4 Precautions and maintenance

4.1 Precautions

During the use of the equipment, maintenance is necessary. Maintenance is generally performed once a week.

- (1) Check whether the electrical plugs and cables are damaged.
- (2) Check whether the fasteners are loose.

4.2 Regular maintenance

The front axle, rear axle and other transmission parts should be regularly filled with an appropriate amount of lubricating oil.

4.2.1 Motor :

The motor adopts high-efficiency rare earth permanent magnet motor, which has high efficiency, high output power, low noise and large starting torque; it also has good dust-proof, waterproof and shockproof properties. However, care and maintenance are necessary.

Avoid direct exposure to the sun, rain and water for a long time to prevent motor short circuit and affect the service life.

4.2.2 Battery

The machine uses high-quality alloy plates, ultra-pure electrolyte, low self-discharge rate, low water loss, high sealing reaction rate, long service life, high energy, fully sealed, maintenance-free lead-acid batteries. Do not leave the battery unused for a long time or do not charge it after use. This will cause sulfation of the internal poles of the battery, reducing the battery capacity and shortening its service life. Avoid deep discharge. When the power is insufficient, you'd better turn off the power and do not start it repeatedly to avoid damaging the battery. The battery will be affected by temperature. When the temperature drops, the power of the battery may decrease. Therefore, when winter comes or in cold areas, it is normal for the mileage to be reduced after a single charge. When the temperature rises above 20°C, its function will naturally recover.

4.2.3 Controller

The controller uses a microcomputer chip and peripheral digital circuit design, a speed control controller with many control points, fast response speed and high reliability. It starts smoothly, accelerates quickly, has no speed regulation, can design the speed regulation voltage range arbitrarily, and is easy to operate and comfortable. It also has under-voltage and over-voltage protection functions.

Do not let the machine be exposed to rain to prevent the controller from short-circuiting. Avoid covering items that may affect the heat dissipation of the controller.

4.2.4 Replacement of brush plate

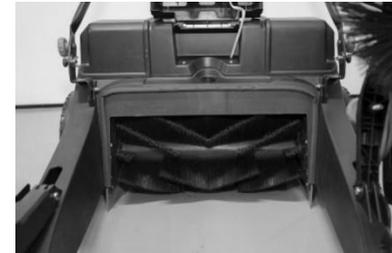
When the brush plate is worn to the point that it seriously affects the cleaning performance, please replace it. When replacing the brush plate, remove the three screws as shown in the figure and replace them.



4.2.5 Replacement of rolling brush :

When the rolling brush is worn to the point that it seriously affects the cleaning effect, please replace it.

When replacing the rolling brush, first remove the dustbin as shown in the figure, and then remove the fixing screws on the rolling brush to replace it.



Chapter 5 Troubleshooting

No.	Fault	Reason	Method
1	The whole machine is out of power	(1) damaged fuse; (2) Line failure. (3) Poor contact of power cord.	(1) Replace the fuse. (2) Send for repair or replacement. (3) Check and connect the cord.
2	The motor does not work when the power is on	(1) Contact wiring is loose or damaged. (2) The control system is damaged.	(1) Repair or reconnect the wiring. (2) Send for repair or replacement.
3	Insufficient mileage for after charging	(1) Insufficient voltage or charger failure. (2) Aged or damaged battery. (3) Low position of the rolling brush or brush plate. (4) The trash can is too heavy.	(1) Charge the battery or check whether the charger is fully charged. (2) Replace the battery. (3) Adjust the position of the rolling brush and brush plate. (4) Clean the trash can.
4	The charger does not work	(1) The charger socket falls off or the connection is loose. (2) The battery pack wiring comes off. (3) The charger is damaged.	(1) Tighten the connection. (2) Weld the connection wire. (3) Send for repair or replacement.
5	Poor sweeping performance	(1) High position of the rolling brush. (2) Loosen belt. (3) Insufficient voltage.	(1) Adjust the position of the rolling brush. (2) Adjust or replace the belt. (3) Charge the machine.

Warranty Card

Name		Tell	
Postal address		Bill No.	
Purchase time		Number	
Product model		Date	
Replace accessories			
Fault description			

