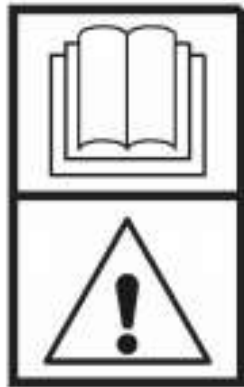


FLOOR SCRUBBER

LVTONG LT-S860X Ride-on Floor Scrubber



Thank you very much for choosing our product!

To safeguard your interests, please thoroughly read the User Manual before use.

User Manual

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User Manual before use.**



Note:

Our product uses an intelligent controller with strong protection and screen display fault diagnosis function, which ensures the durability and stability of critical components.

- 1) Intelligent integrated control, quality assurance, simple circuit, easy after-sales service with 8 main circuits.
- 2) Swipe IC card to start the machines, with no need for keys.
- 3) The colored LCD can monitor motor data, diagnose faults and identify the causes instantly, ensuring after-sales service efficiency.
- 4) Intelligent one-key start or single function start.
- 5) LED headlight/body LED ambient light/LOGO light are high-end and elegant.
- 6) Three modes are available for choice for different workplaces: ECO/standard/heavy modes.
- 7) Sound and Bluetooth/USB interface make it enjoyable to clean the floor.
- 8) The intelligent seat sensor can prevent children from operating the machine by mistake.
- 9) The intelligent speed reduction in turns for anti-rollover and ensure safety.
- 10) The clean water tank can monitor the water level intelligently and give an alarm in case of low water level.
- 11) The clean water tank can be filled with water full protection.
- 12) The brush can be installed/removed automatically.
- 13) The machine can monitor the battery level, give an alarm in case of a low battery level and remind the user of charging the battery to protect the battery and extend the battery life.
- 14) The machine can offer physical and electronic water full protection, give a prompt of wastewater drain promptly and protect the motor from being blocked and burnt.
- 15) The machine can protect the motor from overload/overcurrent/short circuit. It can reset to ensure normal operation, with no need for fuses.
- 16) When the machine moves backward, the brush and the squeegee assembly are lifted to prevent collision. When the machine moves forward, the memory reset function is enabled.
- 17) Linear soft start for drive system to ensure driving comfort.
- 18) Water suction delayed off function to avoid ponding.
- 19) The high-quality lithium battery is safe and durable (lead battery is optional).
- 20) The built-in charger is easy to operate.
- 21) The built-in rubbish basket can effectively prevent blockage during wastewater drain.
- 22) The high-pressure water gun can ensure dead-zone-free clean.

(Specific protection functions are introduced in detail in the circuit section)

Safety Precautions

We attach great importance to users. Please thoroughly read and abide by the safety precautions in the user manual.

Prohibited actions:

- ※ Do not place any objects on the machine (except in the designated area)
- ※ Do not block the vent and heat dissipation holes
- ※ Do not relocate, modify and shelter safety devices
- ※ Do not stretch your hands into moving parts (when the machine is working)
- ※ Do not refit the machine and circuits without permission

Strictly abide by this User Manual (especially important information related to hazard or warning) and safety precautions. The manufacturer will not assume any liability for severe consequences arising from violating this User Manual.

- ※ The machine can only be operated by trained and eligible personnel and must not be operated by minors.
- ※ Do not use the machine in places with inadequate light, flammables and explosives, highways or places harmful to health.
- ※ The machine should be operated at a temperature of 4°C-35°C. Do not use the machine at a temperature of below 0°C or above 40°C. In cold areas, drain water from the water tank and pipelines after use to avoid freezing and damaging parts and pipelines.
- ※ Do not use the machine to absorb flammable and explosive liquids (such as gasoline and fuel, etc.), inflammable gases, dry powder and diluted acids or solvents (such as pigment and acetone, etc.). Do not use the machine to absorb burning and heated objects.
- ※ Do not use the machine on slope over 8.5°. Do not operate the machine transversely on a slight slope. Operate the machine carefully without reversal.
- ※ When the machine is working on great slope, prevent from tilting or uncontrollable acceleration. Please operate the machine slowly on a slope, with the brush and the squeegee lifted.
(Note: When the machine is working on great slope, remove the squeegee assembly and the squeegee bracket when necessary to avoid scratching and damaging the floor.)
- ※ Do not use the machine on slope over 8.5°; otherwise, this may trigger protective shutdown due to overload or cause the machine to roll downhill!
- ※ When the machine is started on slope, the motor will be started in 0.5s, and the machine will roll downhill. Please pay attention to safety.
- ※ When the machine is climbing on great slope, for the sake of safety, 2 persons should push the machine from behind and prevent from rolling to avoid an accident.
- ※ After the machine is started, step on the accelerator pedal to turn on the electronic brake and drive the machine forward or backward. When the accelerator pedal is released, the electronic brake will be started in 0.5s, and machine will stop. Due to inertia, the machine will stop at small distance, so it must be operated by trained personnel to ensure safety, especially in approximately overhead places or crowded places.
- ※ Do not stop the machine on slope under any circumstance to prevent danger arising from failure of electronic brake.
- ※ Turn off the power switch before leaving the machine. Avoid accidental start of the machine.
- ※ When use the machine, protect people around from injury, especially children.
- ※ Do not use the machine for transportation and to drag any objects. Never drag the machine.

- ※ Do not place any objects on the machine.
- ※ Do not block the vent and the heat dissipation holes.
- ※ Do not remove or modify the safety device of the machine.
- ※ Do not wear jewelries and accessories when using the machine; otherwise, a serious accident will occur. Take off jewelries, watches and ties before operation.
- ※ Do not stretch your hands into moving parts.
- ※ Do not clean the machine with substandard cleanser. Abide by safety precautions. Keep the cleanser out of children's reach. In case of eye exposure, immediately rinse using plenty of clean water. In case of swallowing, immediately seek medical advice.
- ※ Ensure the charger outlet is connected to ground reliably and furnished with overcurrent protection device.
- ※ Ensure electrical parameters (voltage, frequency and power) of the machine match the power supply.
- ※ Use and maintain the battery according to the manufacturer's instructions. Keep the battery clean to avoid electric leakage. Protect the battery from impurities such as metal dust. The battery should be charged immediately after use and cannot be out of power for a long time; otherwise, irreversible damage will be caused, which is excluded from the warranty scope.
- ※ The battery matches the charger's charge and discharge curve, so the battery must be furnished with the original charger and charging cable; otherwise, irreversible damage will be caused (the battery bursts or cannot be fully charged), which is excluded from the warranty scope.
- ※ Do not place tools on the battery; otherwise, short circuit or explosion may occur. Please strictly abide by safety precautions when using the battery fluid.
- ※ Please charge the battery in an open and cool place for heat dissipation of the battery and the charger. Do not charge the battery in a warehouse or a crowded place.
- ※ The electronic control system can easily become ineffective when the machine works in high-field places.
- ※ Do not clean the machine using a water gun.
- ※ Wastewater recycled by the machine contains cleanser, disinfectant, organic and inorganic matters that must be disposed according to local regulations.
- ※ If the machine breaks down during operation, power it off immediately, disconnect the battery, and contact an authorized maintenance center as quickly as possible instead of handling the machine without permission.
- ※ Maintenance must be performed in a flat place after the machine is powered off (the battery cable is removed).
- ※ Unless specified in this User Manual, all electrical parts must be maintained by professionals.
- ※ To ensure operator's safety, use original parts. Do not use parts removed from other machines.
- ※ The designed life of the machine is 5 years. Whether the machine will be reused, it must be scrapped according to local regulations.

Notes

- ※ The product can be used to clean large indoor floors.
- ※ The product has undergone strict simulation design and long-term vibration and life test. Do not disassemble or refit it without permission.
- ※ Carefully check the machine upon unpacking. If you have any doubts, immediately contact related personnel or dealers.
- ※ The circuit board is a core component of the machine that has been strictly commissioned before delivery, so it cannot be commissioned without permission.
- ※ In case of a fault, power off the machine, inspect it and eliminate the fault. Then, switch on the power and start the machine.
- ※ LFP battery or lead battery is high-risk product. When installing or replacing the battery, the battery terminal must be fixed to prevent overheating and even melting and cracking, etc. (standard parts provided by LVTONG

should be used to lock the lithium battery).

Note: Do not directly connect the battery's positive and negative poles to prevent short circuit; otherwise, high current will be produced instantaneously, and cause fire! And even explosion will occur! Be cautious when connecting and removing the battery cable to avoid short circuit accident caused by tools (e.g. wrench) and the connecting line.

The battery cable joint should be tightened; otherwise, electric arc will be produced, and the terminal and the cable will be burnt.

- ※ Do not rinse the charger and the circuit board with water when cleaning the external surface of the machine. Prevent water from entering the charger and the circuit board to avoid short circuit.

Precautions

1. Operating conditions

If the machine works under high temperature for a long time, circuit stability, battery and plastic material life will be affected, so the machine should work at a temperature of no more than 35°C.

Do not add powerful detergents, toilet cleansers, sulfuric acid and other strong acids and bases into the clean water tank to remove stubborn dirt, in order to avoid damaging parts of the outlet pipe. If necessary, please directly spray liquids onto the floor.

2. Operating instructions for charging cable

The machine is furnished with a built-in charger, so it do not need to be connected with a charger but to connect charging cable. The battery should be turned on before charging (the battery switch is sunk).

Open the waterproof cover of the charging socket, insert the handle-mounted plug of the charging cable into the charging socket, and connect plug in the other end of the charging cable to 220V power supply. If the green light flickers slowly, the battery is being charged. Solid green light indicates full charge.

3. Operating instructions for LFP battery

The machine is furnished with maintenance-free LFP battery, with BMS automatic control and passive pressure relief mechanism for safety valve in the automatic charging process.

Operating instructions for lithium battery: The battery capacity should be 20%-80% in daily use. The battery cannot be over-discharged and should be charged immediately after use. The battery features high chemical stability, no memory effect, long life and low pollution.

To prevent over-discharging of lithium battery, the circuit is designed with an automatic control procedure. When the voltage declines to 23V, the alarm "Low voltage, please charge" will be displayed in the screen, reminding the operator to charge the battery; otherwise, the battery life will be seriously affected.

If the battery is still working, the machine will shut down forcibly when the voltage is approximate to 22V to protect the battery. If charge the battery to over 50% level, the machine will return to normal work.

Warning: Never short-circuit or reverse the polarity of the battery terminals. This will cause a fire.



Note:

The LFP battery is furnished with a BMS automatic control and passive pressure relief mechanism for safety valve to avoid overcharging and over-discharging, and offer high and low-temperature charge and discharge protection, without free electrolyte, leakage and maintenance.

To reduce damage of the lithium battery in the charging process, the machine is furnished with the latest intelligent charger that has undergone parameter setting and commissioning, to achieve the optimal charging effect



The LFP battery has a lower environmental risk than ternary lithium battery (containing heavy metals such as Co and Ni, etc.). Harmful matters are mainly contained in the electrolyte (LiPF₆ and organic solvents) and some metal parts. They cannot be ignored and disposed of as household waste but must be handled properly.

4. Operating instructions for optional lead battery

The machine is furnished with maintenance-free LFP battery, with BMS automatic control and passive pressure relief mechanism for safety valve in the automatic charging process.

Operating instructions for lithium battery: The battery capacity should be 20%-80% in daily use. The battery cannot be over-discharged and should be charged immediately after use. The battery features high chemical stability, no memory effect, long life and low pollution.

To prevent over-discharging of lithium battery, the circuit is designed with an automatic control procedure. When the voltage declines to 23V, the alarm "Low voltage, please charge" will be displayed in the screen, reminding the operator to charge the battery; otherwise, the battery life will be seriously affected.

If the battery is still working, the machine will shut down forcibly when the voltage is approximate to 22V to protect the battery. If charge the battery to over 50% level, the machine will return to normal work.

Warning: Never short-circuit or reverse the polarity of the battery terminals. This will cause a fire.



Note:

The lead battery does not contain free electrolyte, and is free of leakage and maintenance.

To reduce damage of the lead battery in the charging process, the machine is furnished with the latest intelligent charger that has undergone parameter setting and commissioning, to achieve the optimal charging effect.



The lead battery contains harmful matters such as sulfuric acid and lead, so it cannot be disposed of as household waste but must be handled properly.

Technical parameters

Project name	Unit	Parameter
Operating voltage	v	25.6
Cleaning width	mm	860 (2*17inch)
Cleaning area	m ² /h	6000
Scrubbing pressure	N	Standard: 380N; Heavy : about 570N
Brush motor	W	380
Suction motor	W	450
Suction	mbar	140
Suction width	mm	1140
Drive motor	w	800 (rear drive, with electronic brake)
Running speed	km/h	0-7
Capacity of clean water tank	L	130
Capacity of recovery tank	L	135
Turning radius	m	1.5
Length	mm	1640
Width (excluding squeegee)	mm	950
Height	mm	1370
Lithium battery specification	V	25.6
Lithium battery capacity	Ah	100
Optional lead battery specification	V	2*12
Optional lead battery capacity	Ah	100
Operation time	hours	3-4
Charger	Input AC110~220V/output 24V20A	
Lead battery charger (optional)	Input AC110~220V/output 24V15A	
Noise	dB	Approx. 70
Maximum gradeability	%	18
Weight	kg	237
Gross weight	kg	321

Machine Structure Overview

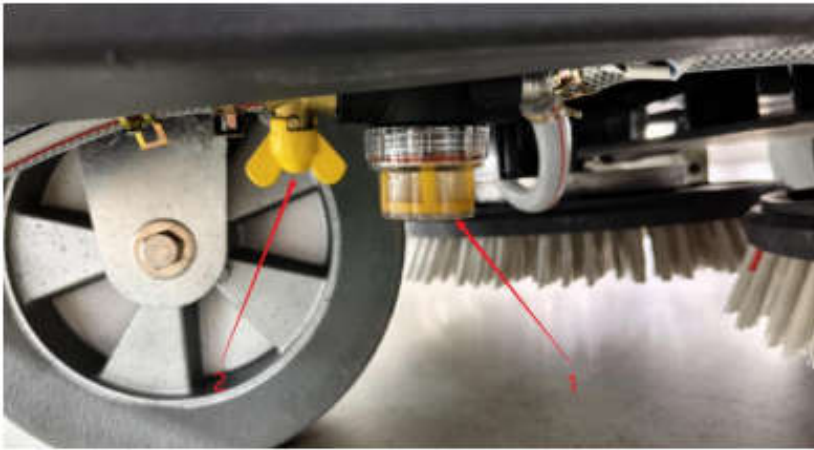


- | | | | | | |
|------------------|------------------------|----------------------|-----------------------|-------------------|-----------------|
| 1. Recovery tank | 2. Recovery tank cover | 3. Caution light | 4. Seat | 5. Steering wheel | 6. Front column |
| 7. Ambient light | 8. Bluetooth module | 9. Headlight | 10. Accelerator pedal | 11. Brush | 12. Brush cover |
| 13. Rear wheel | 14. Squeegee assembly | 15. Rubber floor mat | 16. Clean water tank | 17. Charging port | |
| 18. Horn | 19. USB interface | | | | |

Note: The machine is subject to continuous upgrades. Please refer to the physical product as the final standard if there are any discrepancies with the images.



- | | | | | |
|--------------------|--------------------------|---------------------------|----------------------|-----------------|
| 1. Operation panel | 2. Emergency stop switch | 3. Clean water tank inlet | 4. Liquid level pipe | 5. Fender wheel |
| 6. Squeegee blade | 7. Small universal wheel | 8. Suction hose | 9. Drain hose | 10. Water gun |
| 11. Mop holder | | | | |



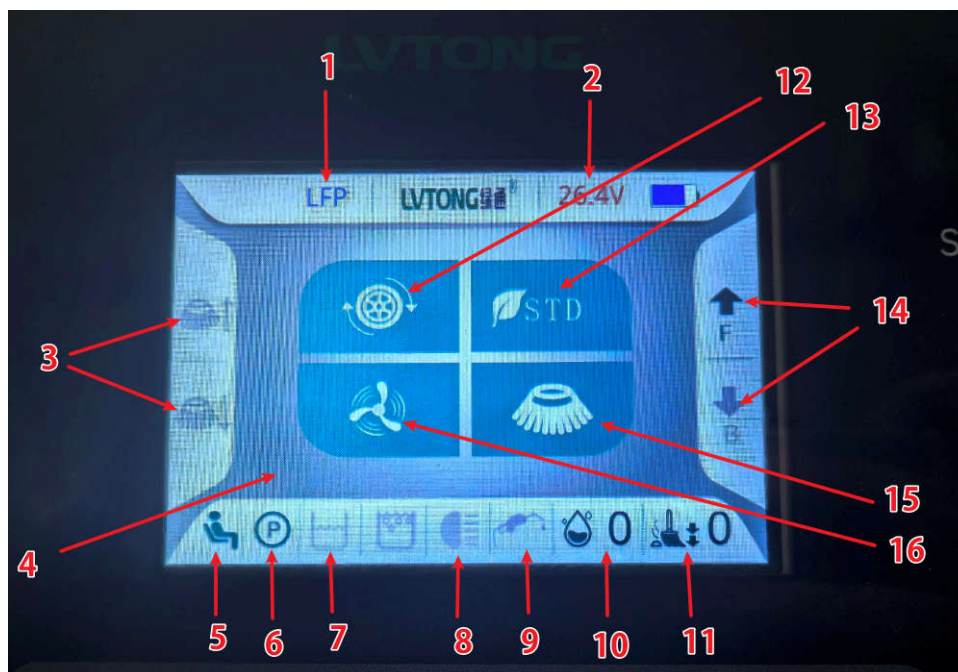
1. Filter 2. Ball valve

Introduction of operation panel



- | | | | |
|---|-----------------------|-------------------------|----------------|
| 1. Headlight switch | 2. Forward/backward | 3. Heavy mode | 4. Mode switch |
| 5. Water gun switch | 6. Horn | 7. IC card sensing area | |
| 8. Emergency stop switch | 9. Screen | 10. Suction switch | |
| 12. Brush switch/press and hold it for 3S to remove the brush | | 12. One-key start | |
| 13. Water switch | 14. Brush load switch | 15. Power switch | |

Screen display



- | | | | |
|--------------------------------|--|---------------------------------------|-----------------------------|
| 1 Battery type | 2 Voltage value and battery level icon | 3 Brush load/unload | 4 Operation or fault prompt |
| 5 Seat sensor | 6 Parking | 7 Low water level of clear water tank | 8 Headlight |
| 9 Water gun | 10 Drainage level (0/1/2) | 11 Heavy pollution level (0-3) | 12 Travel mode |
| 13 Mode (ECO, standard, heavy) | 14 Forward/backward | 15 Brush motor state | 16 Suction motor state |

Button function, button light and screen change description

1. Headlight: Press the button, the headlight will be on, the indicator light will be on, and the headlight icon will turn dark; press it again, the headlight will be off, the indicator light will be off, and the headlight icon will turn light.
 2. Forward/backward: The machine is in forward gear by default, the indicator light is normally on, and the forward icon is in a dark color. Step on the throttle and the machine will move forward; press the backward button to lift the squeegee assembly, the indicator light will flicker slowly, and the backward icon will turn light. Step on the throttle and the machine will move backward.
 3. Mode Switch: Press it and the indicator light will be on. Release it and the indicator light will be off. Switch modes in the screen (energy-saving, standard and powerful).
 4. Heavy mode: Press it and the indicator light will be on. Release it and the indicator light will be off. The heavy pollution grade icon on the right bottom will change. The machine is in level 0 upon startup by default. Press the button to raise the level within 0-3. When the brush is working, press the heavy pollution button to switch to heavy pollution.
 5. Water gun switch: Press it to turn on the indicator light and start the water pump. The water gun icon on the bottom will turn dark. Press the water gun handle to inject water, and rotate the water outlet of the water gun to change fan-shaped water spray area; turn off the water pump, the indicator light will be off, and the water gun icon on the bottom will turn light.
- Note: The water gun can only be used to clean the recovery tank and the floor, but it cannot be used to clean electrical parts of the machine.

6. Horn: Press to ring the horn, the indicator light will be on and the horn icon will turn dark; release to turn off the indicator light, and the horn icon will turn light. The horn will also ring when the machine is reversing.
7. IC card sensing area: When starting the machine, the IC card should touch this area to illuminate the screen.
8. Emergency stop switch: In case of emergencies, press "Emergency stop switch" to stop the machine (note: The main panel is still charged, only the machine is stopped. To reset the emergency stop switch: Turn in the arrow direction to reset the emergency stop switch. In case of emergencies such as car rolling, turn off the power switch or remove the battery wire to power off the machine promptly, or inspect if the red shifter lever behind the drive axis is downward.
9. The screen displays working status of motors and sensors and gives an alarm against fault. Press and hold the mode button and the one-key start button to enter the second-level page to view data of all motors and diagnose faults.
10. Suction switch: Press it to start the suction motor and lower the squeegee assembly to suck water. The suction motor light is on, and the suction icon on the left of the screen turns green; press the button again, the suction motor is turned off with a delay of 10s to suck water, the squeegee assembly is raised automatically, the indicator light is on, and the suction icon turns back to blue.



When the recovery tank is full, the floating ball of the filter screen will float and block the air duct, and the suction switch will be turned off automatically after 15s.



When the drain hose is blocked, the suction switch will be turned off automatically after 15s.

This reminds you of pouring out wastewater or cleaning the pipeline. In order to avoid long-term blockage of the suction motor and burning the motor.

11. Brush switch/press and hold it for 3S to remove the brush: Shortly press it, the indicator light will be on, the brush icon on the right of the screen will turn green, and the brush motor starts rotating to clean the floor. Press it again, the indicator light will be off, the brush icon will turn blue, the brush motor will be turned off, and the brush will gradually stop;

Press and hold for 3S to remove the brush, the indicator light will be on, the brush will fall off automatically after 5s and be removed, and the brush unload icon on the left of the screen will be on.

Tip: When the brush unload function is ineffective, the fastening nail gets stuck by the fastener shrapnel due to misoperation. Gently raise the shrapnel to recover automatic brush unload function.

12. One-key start: Press it, the indicator light will be on, the lights of the suction motor, the brush motor and the water switch will be on, the suction and brush icons will turn green, the brush and suction motors will be started, the magnetic valve will be turned on, and the squeegee will be lowered. Press it again, the indicator light will be off, the brush motor light will be off, the suction motor light will be off after 10S, the suction and brush icons will turn blue, the brush motor will be turned off, the suction motor will be turned off after 10S, the magnetic valve will be turned off, and the tail brush will be raised.

13. Water: The machine defaults to be in level 0 and the indicator light is off upon startup. Press the button, the indicator light will be on, and the icon on the right bottom will be in drainage level 1. Press it again, the icon on the right bottom will be in drainage level 2. Press it again, the indicator light will be off, and the icon on the right bottom will be in drainage level 0. The magnetic valve can be turned on to drain water only when the brush is working.

14. Install the brush: Press the button, the indicator light will be on, the icon on the left of the screen will turn dark, and the brush motor will rotate after several seconds.

Tip: When the brush is installed automatically, raise the brush cover, and place the brush in the center of the

hood, namely 3 aluminum buckles of the brush are exactly in the slot of the aluminum buckle. Then, locate the brush cover, and install the brush. When the motor is rotating, the brush is installed automatically.

Note: If the brush is not in the center position, it cannot be installed. If the brush violates violently, it indicates that it is not installed correctly.

15. Power switch: Press it, the machine will enter IC card recognition and unlocking state, and the green light will be on; press it again, the screen will be off, and the machine will be powered off.

For description of icons, please refer to "Screen display" arrow → instruction and serial number

1. Battery type is displayed on the left top of the screen, with WET as lead battery and LFP or LIT as lithium battery.

2. Voltage value and battery level icon: The battery level is displayed on the right top, and the battery level icon will turn short from left and the voltage will decrease, namely the battery capacity will decrease slowly. When the voltage decreases to below 23V, an alarm "Low voltage, please charge" will be shown on the screen to remind the operator to charge the battery; otherwise, the battery life will be seriously affected under low voltage.



Only drive motor function and sound charge function are effective when an alarm is given against low voltage, but suction and brush motors will not work. After the battery is fully charged, the machine will return to normal work.



If the battery is still working, the machine will shut down forcibly when the voltage is approximate to 22V to protect the battery. After the battery is fully charged, the machine will return to normal work.

3. Press the installation button to install the brush, the icon will turn dark, and the brush motor will rotate for a while; press and hold for 3S to remove the brush, and the icon will turn dark.

4. Fault warning on the screen

"Open circuit of seat" will be shown on the screen, indicating a vacant seat, not a fault.

"Low voltage, please charge" will be shown on the screen, and the battery should be charged promptly.

"Open circuit of ambient light" will be shown on the screen. Check if the ambient light wire is disconnected or the ambient light controller breaks down.

"Open circuit of magnetic valve" will be shown on the screen. Check if the magnetic valve wire is disconnected or the magnetic valve breaks down.

"Open circuit of brush motor" will be shown on the screen. Check if the brush motor wire is disconnected or the brush motor breaks down.

"Open circuit of suction motor" will be shown on the screen. Check if the suction motor wire is disconnected or the suction motor breaks down.

5. Seat sensor: If the icon is light, it indicates a vacant seat, and "Open circuit of seat" will be shown on the screen; if the seat is occupied, the icon will turn dark, and you can step on the accelerator pedal to drive the machine.

6. Parking: "P" icon is in dark color after the machine is started and before the accelerator pedal is stepped. After the accelerator pedal is stepped, the icon turns light. In case of car rolling, inspect if the yellow or red shifter lever behind the drive axis turns on the electronic brake (the electronic brake is turned on if the red shifter lever is downward).

7. If the low water level icon on the bottom of the screen turns dark, it indicates that the water level of the clean water tank is low; the icon will turn light after clean water is added.

9. Headlight: If the icon is in a dark color, it indicates that the headlight is turned on. If it is in a light color, it indicates that the headlight is turned off.

8. Headlight: If the icon is in a dark color, it indicates that the headlight is turned on. If it is in a light color, it indicates that the headlight is turned off.
9. Water gun: If the icon turns dark, it indicates that the water pump is turned on; if the icon turns light, it indicates that the water pump is turned off.
10. The water switch indicates the water drain amount when the brush is working, with level 1, 2 and 0, level 0 by default.
11. Heavy mode grade: It indicates the pressure when the brush is working under heavy pollution mode, within levels 0-3.
12. Driving state: If the icon is green, it indicates that the throttle is stepped, the drive motor is started, and the vehicle is working. If it is blue, it indicates that the throttle is released, the drive motor is stopped, and the vehicle will stop.
13. There are three modes: Eco, standard, heavy .
14. Forward/backward: The top icon represents the forward gear; the bottom icon represents the backward gear.
15. Brush motor state: A green icon indicates that the brush motor is started; a light icon indicates that the brush motor is turned off.
16. Squeegee motor state: A green icon indicates that the suction motor is turned on; a light icon indicates that the suction motor is turned off.

Second-level interface operation

1. When the panel is powered on (swipe the UC card to start the machine), press mode (left) and one-key start (right) to enter the second-level interface
2. "Forward/back" means to move left, "Headlight" means to move right, "Horn" means increase, "Water" means decrease, and "Suction" means OK.

Second-level interface display

1. Ambient light switch
2. Motor state
3. Clean water/wastewater switch state
4. Controller temperature
5. Controller version

Packing List

S/N	Name	Qty.	Unit	Remarks
1	Bare machine	1	Set	
2	Squeegee assembly	1	Set	
3	Lithium battery	1	Pcs.	Quantity of optional lead batteries: 2
4	Charging cable	1	Pcs.	
5	Brush	2	Pcs.	
6	Brush cover	2	Pcs.	
7	Pad holder, cleaning pad	2	Set	
8	User Manual	1	Set	

Operating instructions

Unpacking

Carefully dismantle the wooden packing case, strap and the anti-slip blocks under the front and rear wheels. Then, pull the manual shift gear of the electronic brake of the rear drive axis from the parking gear. After that, find a small slope as high as the pallet, and slowly push the machine down the pallet.



Note: After the machine is pushed down the pallet, pull the electronic brake to the parking gear immediately. Otherwise, the machine will roll.

Connect the battery cable joint

For the sake of safety, the battery cable joint has been removed and sealed with electrical tape before shipment. It should be connected after the machine is pushed down the pallet. The machine can be powered on after the key switch is turned on.



Lithium battery or lead battery is a high-risk product, so tools or metals cannot be placed on them during installation, which will lead to a short circuit of positive and negative poles and a risk of explosion to lithium battery or lead battery.



Positive and negative terminals of lithium battery or lead battery must be fixed using special tools to avoid danger arising from ignition and overheating.



Lithium battery or lead battery must not be operated where there are open flames or flammables or in smoking areas.

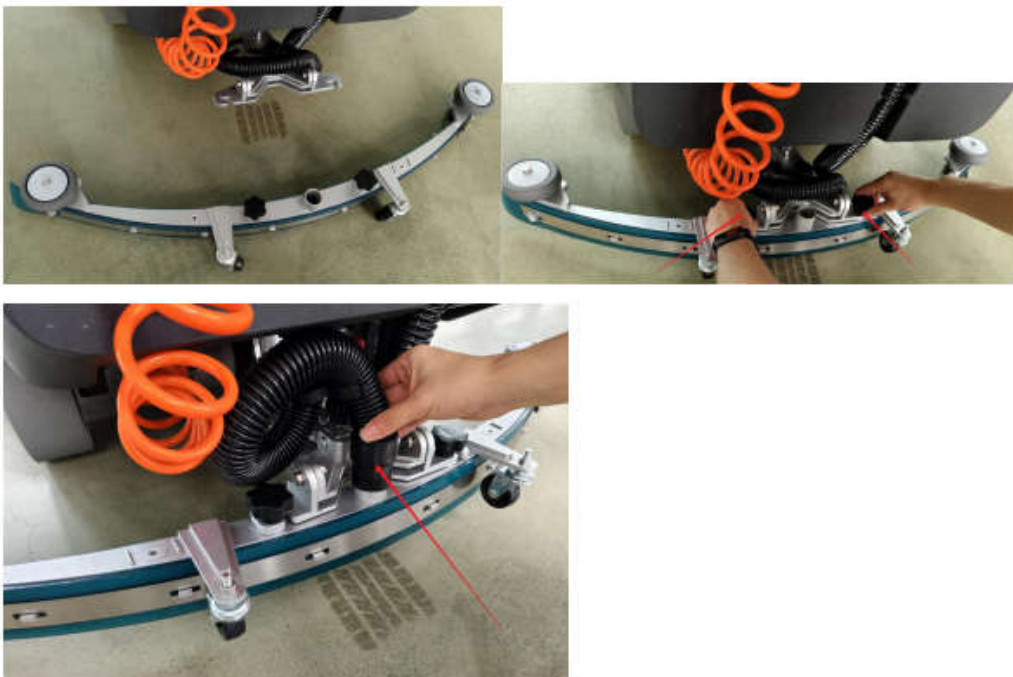
Install the brush cover

After moving the machine to a flat surface, install the brush cover attached onto the mounting base, and tighten the screws on the mounting base.



Install the squeegee

Use a pentagonal knob to lock the squeegee assembly to the squeegee bracket in the designated position. Then, connect the water suction hose to the suction inlet of the squeegee assembly. (As shown in the figure, ensure to loop the suction hose before connecting it to the squeegee frame in order to the backflow of dirty water onto the floor after the suction motor is turned off)



Adjust the angle of the squeegee blade



During use, adjust the angle of the squeegee blade according to the floor type by rotating the five-star handle of the small universal wheel left or right (as shown in the figure). To ensure the best water suction effect, the entire face of the squeegee blade and the floor should form a 70-75° angle.

Note: The angle of the squeegee is pre-adjusted before delivery, and the assembly can be used immediately after installation. However, slight adjustments may be required due to vibrations during transportation.



Four edges of the squeegee blade can be reversed to use, which greatly extend the service life.

Install the brush

The brush has been installed upon delivery, unless it becomes loose and falls off during transportation. Confirm it the brush is loose and falls off before starting the machine.



Fig. I:



Fig. II:



Fig. III

As shown on Fig. II, press brush load switch , the indicator light is on, the icon on the left of the screen will turn dark, and the support will be lowered; press it again, and the brush motor will rotate after several seconds.

Tip: When the brush is installed automatically, it should be in the center of the brush cover, namely 3 aluminum buckles of the brush are exactly in the slot of the aluminum buckle. 1. Put the brush to the right place. 2. Press brush load switch to lower the brush bracket. 3. Press brush load switch. After the brush motor rotates for several seconds,

the brush will be installed automatically.

Note: If the brush is not in the center position, it cannot be installed. If the brush vibrates violently, it indicates that it is not installed correctly.



Note: When using the machine for the first time, the brush can be installed manually if you are not familiar with the machine.

Method: Lift the brush assembly, push the brush to the bottom center of the brush cover and align it. Then, lift the brush and fix the fixed plate in the center circle of the brush. Quickly rotate the brush clockwise to insert 3 nails into the brush until you hear a "crack" sound, and gently rotate the brush oppositely. If the brush does not fall off, it indicates that it has been installed properly.



Select different brush bristles for different floor types to extend the machine life.



When installing the brush and starting the motor, if the brush swings or you hear a "crack" sound, it indicates that the brush is not installed properly, and the machine should be restarted.

Add clean water



Add clean water into the clean water tank in the arrow direction as shown in the figure. To check the clean water level: see the float gauge on the right.

Add neutral cleanser in proportion, but do not do as follows:



Do not directly add washing powder into the clean water tank, which will block the outlet hose.



Do not add powerful detergents, toilet cleansers, sulfuric acid and other strong acids and bases into the clean water tank to avoid damaging parts of the outlet pipe. If needed, please directly spray liquids onto the floor. When cleaning floors with designated cleanser, add appropriate defoaming agent into the recovery tank to eliminate foam and increase the operation time.

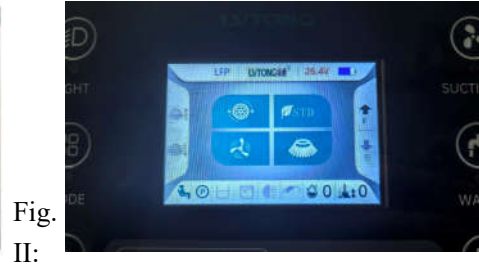


When adding clean water, do not add flammable and explosive liquids to avoid risk of explosion.

Operate the machine

Press the power switch and release it, and the green light is on. Place the IC card in the sensing area, the machine will give a "beep" sound, the display screen will upload the startup screen, and the machine will be started. (When starting the machine, the screen will display the loading progress in Fig. I, and the machine will carry out self-check. In this process, do not press the button, and a prompt of vacant seat will be given in Fig. II after loading. Press the button or enter the main interface in Fig. III after the driver is seated before operating the machine)

Note: If the emergency stop switch is pressed, rotate clockwise in the arrow direction to reset the machine.



Before starting the machine, add clean water into the clean water tank



Confirm that the brush is installed properly.



Before starting the machine, connect the squeegee assembly and adjust its angle.



Before starting the machine, ensure the lithium battery switch is turned on.



Confirm that the suction hose has been wound and connected to the squeegee assembly (otherwise, water in the suction hose will flow back after the machine is powered off);



Confirm that the drain hose cover has been closed (otherwise, the suction will be affected).



1. Choose forward/backward gear and adjust speed

The machine defaults to be in forward gear, the indicator light is normally on, and the forward icon is in dark color. Step on the accelerator pedal and the machine will move forward;

Switch to the backward button, the indicator light will flicker slowly, the forward icon will turn light, and the backward icon will turn dark. Step on the accelerator pedal and the machine will move backward.

The more you step on the accelerator pedal, the faster the machine moves. The driving speed can be adjusted according to floor roughness and personal need.

The machine will slow down automatically in turns to avoid rollover.

2. Adjust the squeegee height

The squeegee height can be adjusted according to wear degree of squeegee blade, by loosening the nut and adjusting height of the universal wheel.



If the squeegee blade is worn, height of the universal wheel must be readjusted; otherwise, the suction effect will be affected.

3. Display the battery level

The battery level is displayed on the right top as Fig. I show, and the battery level icon will turn short from left and the voltage will decrease, namely the battery capacity will decrease slowly. When the voltage decreases to below 23V, an alarm "Low voltage, please charge" will be given on the screen to remind the operator of charging the battery; otherwise, the battery life will be seriously affected under low voltage.

Note: Only the drive motor and the sound can be charged.



If the battery is still working, the machine will shut down forcibly when the voltage is approximate to 22V to protect the battery. After the battery is fully charged, the machine will return to normal work.

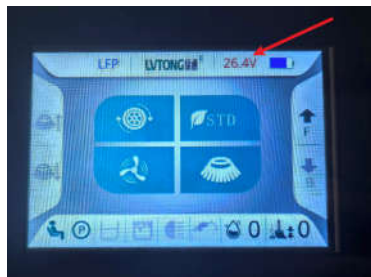


Fig. I:

Click on the mode switch button to switch to ECO mode



Fig. II:

4. Unload the brush

Lift the brush assembly, press and hold for 3S to unload the brush. The indicator light will be on, the brush will be removed, and the icon on the left bottom of the screen will turn dark. When installing the brush, click on the bottom button to install it.



Brush unload button

Brush unload icon (which will turn dark)



After the brush is removed, remove rubbish or ropes when necessary



After the floor is cleaned, clean the brush, dry it in the air and maintain it; otherwise, the service life of the brush hair will be seriously affected.



When the "Brush switch" is turned on, the brush unload function is disabled;



When the brush unload function is ineffective, the fastening nail gets stuck by the fastener shrapnel due to misoperation. Gently raise the shrapnel to recover automatic brush unload function.

5. The machine moves backward

When the "Suction switch" is not working, press "Forward/backward" to switch to the backward gear, and step on the accelerator pedal to drive the machine backward;

When the suction switch is working, switch to the backward gear, the program will stop sucking water automatically and lift the squeegee assembly, and the machine will move backward.



6. Squeegee lifting

Press the "Suction switch" to lower the squeegee to suck water. Since the squeegee assembly is raised by the DC electric push rod, and the motor can be overheated and burnt out easily, the squeegee assembly cannot be raised and lowered frequently and continuously (such as over 25 times/min). The squeegee assembly can be used more than 10,000 times under normal operating conditions.



7. Emergency stop switch



In case of emergencies, press the emergency stop switch to stop the machine. When the machine is working, the driver may get injured due to inertia cause by emergency stop;

Reset the emergency stop switch: Rotate the emergency stop switch in the arrow direction to reset it. In case of car rolling or the machine keeps moving for a distance after the throttle is released, inspect the yellow shifter lever behind the drive axis. Besides, turn off the emergency stop switch promptly or remove the battery cable in case of emergencies such as car rolling.

8. Normal start and reversal

The instantaneous speed will change upon start or stop, and the driver will feel uncomfortable due to inertia. Thus, soft start and delayed brake are designed for circuit control to improve the comfort. However, there will be braking

distance due to inertia, so the driver should control the speed and should not drive the machine at high speed in narrow places. In case of emergencies, press the emergency stop switch or turn off the power switch immediately to shut down the machine.

9. Driving wheel

The drive axle of the machine is furnished with an electronic brake. Under normal conditions, the brake disc of the drive wheel must be pulled down. When the accelerator pedal is not pressed or the machine is powered off, the machine will park automatically to prevent from rollover on a slope and avoid an accident.



10. Precautions about driving on slope

The machine is designed specifically for flat floors, with a high body and a high center of gravity (especially when the clean water tank or the recovery tank contains liquids), so it must be operated carefully on a slope to prevent from rollover and avoid an accident.

The maximum slope of the machine is 8.5° and the dip angle is 3° . On a large scope (8.5°), please remove the squeegee assembly and even the connecting plate assembly; otherwise, the squeegee assembly will be damaged.

11. Water level of water tank

Observe the water level of the clean water tank (Fig. I) to check the water quantity, and add water promptly.

If the low water level icon on the bottom of the screen (Fig. II) turns dark, it indicates that the water level of the clean water tank is low; the icon will turn light after clean water is added.



Fig. I:

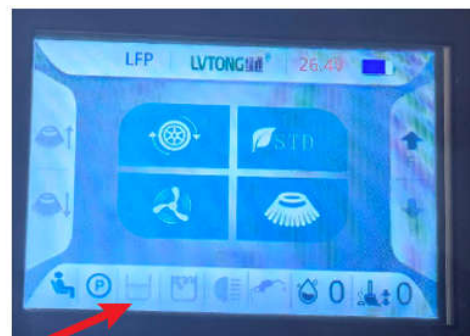


Fig. II:

12. Use the water gun

Press the water gun switch turn on the indicator light and start the water pump. The water gun icon on the bottom of Fig. I will turn dark. Press the water gun handle (Fig. II) to inject water, and rotate the water outlet of the water gun to change fan-shaped water spray area; turn off the water pump, the indicator light is off, and the water gun icon on the bottom will turn light.

Note: The water gun can only be used to clean the recovery tank and the floor, but it cannot be used to clean electrical parts of the machine.



Fig. I:



Fig. II:

13. Operation of sound panel

Function: fm, aux, usb, tf, Bluetooth 5.0, recording

Insert a USB flash disk or tf memory card, and play songs in the format of mp3, wav, ape and flac

Tip: The scrubber is mostly used indoors, so it is hard to receive radio signals;



Bluetooth connection steps:

Other functions: A mobile phone can be connected to several scrubbers via Bluetooth to play the same radio.

Ensure to insert the USB flash disk or tf memory card before recording

14. Charge a mobile phone

The charger is furnished with type-c and usb interfaces. Open the dust cover, and insert the charging cable to charge

a mobile phone.



Routine maintenance

1. Drain wastewater

Before draining wastewater, switch off the power, and place the machine securely.



2. Clean the recovery tank

Press the water gun switch to turn on the indicator light and start the water pump. The water gun icon on the bottom will turn dark. Press the water gun handle to inject water, and rotate the water outlet of the water gun to change fan-shaped water spray area; turn off the water pump, the indicator light is off, and the water gun icon on the bottom will turn light.

Note: The water gun can only be used to clean the recovery tank and the floor, but it cannot be used to clean electrical parts of the machine.



3. Clean the floating ball and the filter screen



Remove the floating ball of the filter screen and clean it with clean water to prevent blockage.

4. Drain clean water

When the machine is left unused for long time, twist off the filter cover below the chassis to drain clean water from the clean water tank to avoid stink.

Note: The filter screen should be installed properly. Nevertheless, clean water will not be drained, impurities will enter the magnetic valve, and the valve element will be blocked and leak water.



Drain clean water/wastewater before the water tank is opened



Drain clean water from the clean water tank every 3 days to prevent stink and blockage of the water outlet.

5. Clean the squeegee assembly

The squeegee blade should be maintained regularly to avoid accumulation of rubbish.

As shown below, remove the squeegee blade, clean it and dry it in the air every day.



Thoroughly clean the squeegee blade and dry it in the air every day. Remove sundries to prevent the squeegee blade becoming stale.

6. Maintain the brush



Regularly clean the brush, remove brush, fiber and cloth strips in the brush to prevent overloaded operation and avoid affecting operation time and motor life. Then, rinse the brush with clean water.

7. Clean the filter



As shown in the figure, the filter is below the chassis and can be touched by hand. It is used to filter clean water, prevent impurities from entering the battery valve and the water pump and avoid damaging parts. Twist off the transparent cover of the filter every 2 weeks and rinse the filter screen. If the filter screen is not cleaned for a long time, it will be blocked, and water cannot flow out of it.

Note: The filter screen should be installed in the correct position.

8. Turn over the water tank



Do as follows before turning over the water tank; otherwise, the machine will be damaged.

- Drain wastewater from the water tank.
- Turn over the water tank with care.
- Please slowly place the water tank to avoid pinching your hands.

Charging

1. Find the charger cable as shown in Fig. I.
2. Open the power outlet cover, and insert the power cable handle plug into the charger base, as shown in Fig. II.
3. Connect plug in the other end of the charging cable to 220V power supply. If the green light flickers slowly, the battery is being charged.
4. When the machine is being charged, "Charging" will be displayed as shown in Fig. IV, and the machine cannot work.
5. Outlet light status:
 - a) If the green light is normally on, the battery is fully charged
 - b) If the green light flickers slowly, the battery is being charged
 - c) If the red light flickers once, the input voltage is low to instable
 - d) If the red light flickers twice, the battery is not connected or connected reversely
 - e) If the red light flickers three times, the battery voltage is too low
 - f) If the red light flickers four times, the charger is overheated
 - g) If the red light flickers quickly, the charger has an internal short circuit or an external output short circuit



Fig. I:



Fig. II:



Fig. III

-  Connect to 220V power after charging port and handle-mounted plug are connected. Do not connect the charging port and handle-mounted plug to large current.
-  Correctly connect the wire, and ensure the lithium battery switch is turned on (the button is sunk as shown in Fig. II); otherwise, the battery cannot be charged.
-  Keep the battery well-ventilated in the charging process. Drain wastewater from the recovery tank, and then open the battery compartment before charging the battery to ensure heat dissipation.
-  To prevent an accident, do not charge the battery near a warehouse and goods but in an open place.
-  To ensure your safety, ensure 220V power is connected to a ground wire.
-  Keep the battery far away from flammables and explosives in the charging process to prevent a risk of explosion.

Maintenance of LFP Battery



The battery level should be 20%-80% in daily use to avoid extreme charging and discharging and extend the battery life.



The battery should be charged immediately after use and must not be stored for a long time; otherwise, the battery will be damaged. The battery capacity should be kept within 40%-60% especially in holidays. Otherwise, the battery will be excluded from the warranty scope.



If the battery is left unused for a long time: 1. The battery level should be 40%-60%, not be full or low for a long time, and the battery should be charged every three months to reach the range; 2. Open the battery compartment, press the battery switch to keep it flat, and the lithium battery is closed.



The battery must match the charger's charge and discharge curve, so the machine has been commissioned before shipment. The battery must be charged using the original charger and charging cable. Otherwise, the battery will be excluded from the warranty scope.



The battery cannot be charged under high/low temperature, since accelerated aging will be caused under extreme temperature, especially the battery will be over-discharged under low temperature.

Maintenance of Lead Battery (Optional)



The battery should be charged immediately after use and must not be stored for a long time; otherwise, the battery will be damaged. The battery capacity should be fully charged especially in holidays. Otherwise, the battery will be excluded from the warranty scope.



The battery must match the charger's charge and discharge curve, so the machine has been commissioned before shipment. The battery must be charged using the original charger and charging cable. Otherwise, the battery will be excluded from the warranty scope.

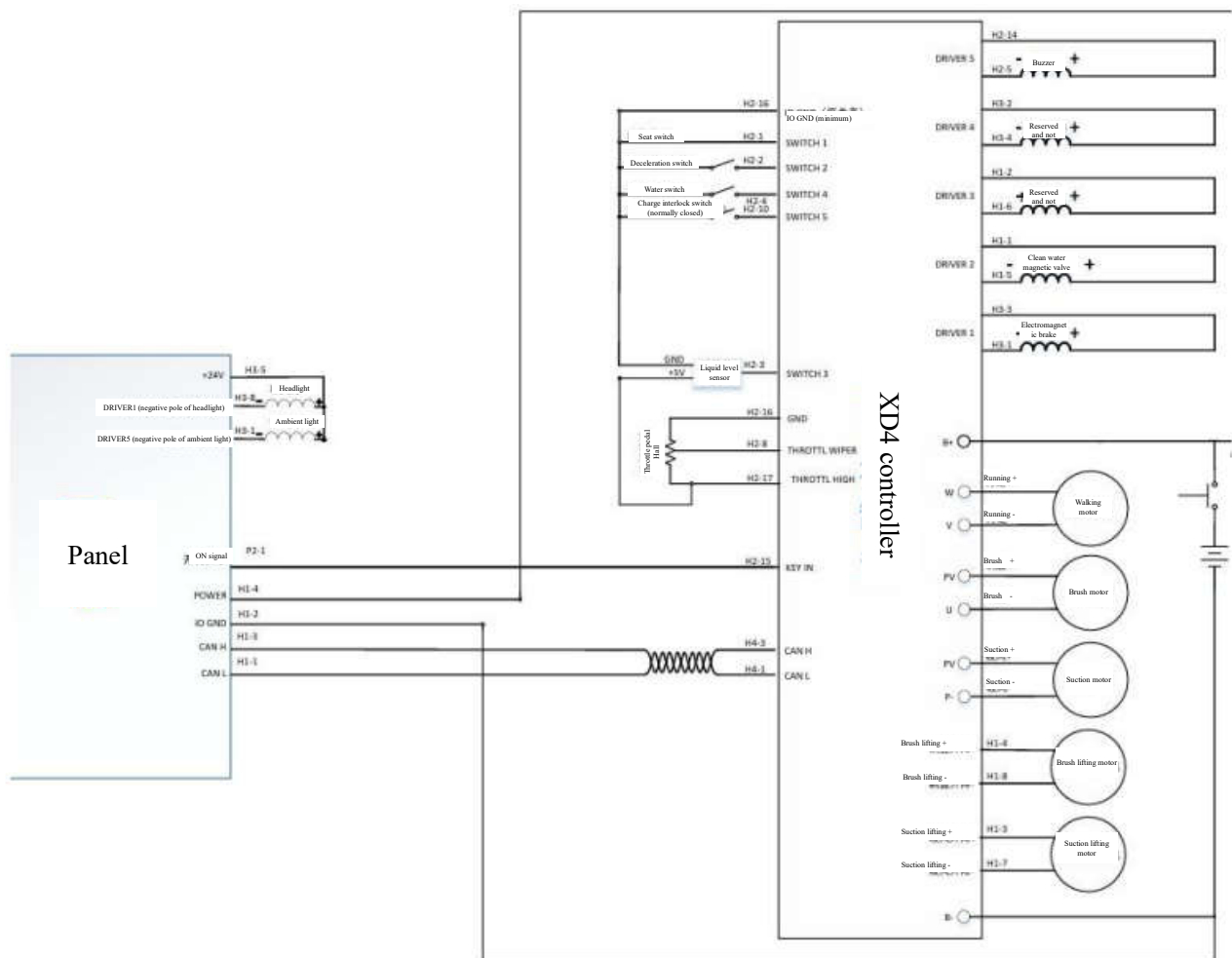


The battery can be fully discharged every 3 months and fully charged to extend the battery life.



The battery cannot be charged under high/low temperature, since accelerated aging will be caused under extreme temperature, especially the battery will be over-discharged under low temperature.

Wiring diagram



Circuit Protection

1. Rated operating voltage Vin: DC25.6V(lithium battery)/24V(optional lead battery)
2. Effective operating voltage range: 23V~28V (lithium battery)/21V~25.6V (optional lead battery)
3. Soft start time: 10S (self-check), soft stop time: 3S
4. If the voltage is low, a prompt "Low battery level, please charge" will be shown on the screen. Only the drive motor and the sound can be used.
5. Protective current of brush : Overload protection current: 45A, overload time: 30s
6. Suction protection current: Overload protection current: 35A, overload time: 30s; locked-rotor protection current of fan: 16A, test time: 8S
7. Protective current of brush push rod: Overload protection current: 8A, overload time: 3s
8. Protective current of squeegee: Overload protection current: 8A, overload time: 3s
9. Drive motor: Current protection: Maximum current 150A. After the machine works for 10s under the maximum current, the current will decrease to 50A; Overload protection: None; Overtemperature protection: When the controller temperature exceeds 75°C, the maximum current will decrease, and the machine will stop when the temperature reaches 85°C.
10. Water level sensor: A prompt of no clean water will be given in 2s, and the brush suction motor will not be turned off.
11. Wastewater sensor: A prompt of full wastewater will be given in 2s, the suction motor will be turned off

immediately, and the suction motor and the brush will be lifted.

12. Charging interlock: After charging interlock is enabled, other functions of the controller are disabled

13. Temperature range: 0~55°C during operation (liquids in the water tank will be frozen easily at 0°C, and the pipeline will be blocked, so the machine should be handled with care); 0~55°C during charging

14. Protection type: Overcurrent protection, short circuit protection, power-off protection, and charging interlock

15. The buzzer will keep ringing for a minute at intervals when the battery and the motor break down.

16. In case of fault, the screen will automatically switch to the fault page to display alarm information and return to the homepage after fault removal.

Fault warning shown on the screen

"Open circuit of seat" will be shown on the screen, indicating a vacant seat not a fault.

"TLow battery, please charge" will be shown on the screen, and the battery should be charged promptly.

"Open circuit of ambient light" will be shown on the screen. Check if the ambient light wire is disconnected or the ambient light controller breaks down.

"Open circuit of headlight" will be shown on the screen. Check if the headlight wire is disconnected or the headlight controller breaks down.

"Open circuit of magnetic valve" will be shown on the screen. Check if the magnetic valve wire is disconnected or the magnetic valve breaks down.

"Open circuit of brush motor" will be shown on the screen. Check if the brush motor wire is disconnected or the brush motor breaks down.

"Open circuit of suction motor" will be shown on the screen. Check if the suction motor wire is disconnected or the suction motor breaks down.

"Open circuit of seat switch" will be shown on the screen. Check if the seat switch wire is disconnected or the seat switch breaks down.

"Open circuit of steering limit switch" will be shown on the screen. Check if the steering limit switch wire is disconnected or the steering limit switch breaks down.

"Open circuit of clean water sensor" will be shown on the screen. Check if the clean water sensor wire is disconnected or the clean water sensor breaks down.

"Open circuit of wastewater sensor" will be shown on the screen. Check if the wastewater sensor wire is disconnected or the wastewater sensor breaks down.

"Open circuit of throttle pedal" will be shown on the screen. Check if the throttle pedal wire is disconnected or the throttle pedal breaks down.

"Open circuit of water pump" will be shown on the screen. Check if the water pump wire is disconnected or the water pump breaks down.

"Open circuit of buzzer" will be shown on the screen. Check if the buzzer wire is disconnected or the buzzer breaks down.

Common faults and solutions

Before consulting the maintenance department or our customer service department, carry out inspection as follows:

Problem	Cause	Solution
The motor does not work	1. Check if the power plug is connected correctly. 2. Check if the power outlet is connected correctly. 3. Check if the motor switch is turned on.	1. Connect the power plug correctly. 2. Turn on the motor switch. 3. The machine should work under the required operating voltage.

	4. Check if the operating voltage of the machine is normal.	
No water output or low water flow	1. The filter or joint of the clean water tank is blocked. 2. The floor is too dry, and water for cleaning is not enough. 3. The magnetic valve is blocked. 4. Water of the clean water tank is almost depleted.	1. Remove the filter or the joint and clean them. (Refer to cleaning and maintenance of filter) 2. If the floor is too dry, additional water spraying on the ground is required. 3. Turn on the magnetic valve, and clean the valve element and cavity. 4. Add clean water into the clean water tank.
Suction power decrease	1. The recovery tank cover is poorly sealed. 2. The operating voltage is too low. 3. The suction hose is incompletely blocked.	1. Connect the sealing strip without gap. 2. Charge the battery or use a battery with a higher capacity. 3. Dredge the inlet and outlet.
Poor water recovery	1. The suction motor is not installed. 2. The suction hose is blocked. 3. There are debris below the squeegee blade. 4. The squeegee is worn excessively. 5. The squeegee angle is not adjusted properly.	1. Inspect the motor (identify the cause and offer a solution). 2. Clean and dredge the hose. 3. Remove debris. 4. Replace the other side of the squeegee blade or replace the squeegee blade. 5. Adjust the squeegee angle.
Inadequate cleaning	1. The brush motor does not work. 2. There is stubborn dirt. 3. The brush is worn excessively. 4. The brush is clogged with rubbish .	1. Inspect the motor. 2. Spray cleanser onto the floor with stubborn dirt. 3. Replace the brush . 4. Remove rubbish.
The battery cannot be charged	1. The charger breaks down 2. The charger is disconnected from the battery cable and the plug 3. The charger contact is in poor contact 4. Open the battery compartment, and observe if the charger temperature is too high or too low	1. Check if the charger light flickers normally. a) 1 flash of red light: Low/unstable Input Voltage b) 2 flashes of red light: Battery not connected or reverse polarity c) 3 flashes of red light: Low battery voltage d) 4 flashes of red light: Charger over-temperature protection e) Rapid flash of red light: Internal or output short circuit 2. Inspect the fuse or replace the charger 3. Connect the charger and the battery cable and plug. 4. Replace the charging cable 5. If the temperature is too high, open the battery compartment and place it for a while. Charge the battery after the charger cools down. If the temperature is too low, please move the charger to a place at above 0°C and charge the battery
The squeegee blade is deformed	1. The squeegee blade is used in greasy environment 2. The squeegee blade is deformed and cracked	1. Replace the squeegee blade with a durable PU transparent blade 2. Replace the squeegee blade

	after used for a long time.	
The brush motor does not work	1. The brush motor breaks down 2. The circuit board breaks down	1. Check the alarm displayed on the screen, and verify other problems after no alarm is displayed 2. Replace the carbon brush of the brush motor or the motor 3. Replace the circuit board (the indicator light is off) or the motherboard (the indicator light is on)
The suction motor does not work	1. The suction motor breaks down 2. The circuit board breaks down	2. Check the alarm displayed in the screen, and verify other problems after no alarm is displayed 2. Replace the carbon brush of the suction motor or the motor 3. Replace the circuit board (the indicator light is off) or the motherboard (the indicator light is on)
The push rod motor of the brush cannot be lowered	1. The push rod motor of the brush breaks down 2. The circuit board breaks down	1. Check the alarm displayed in the screen, and verify other problems after no alarm is displayed 2. Replace the push rod motor of the brush 3. Replace the circuit board (the indicator light is off) or the motherboard (the indicator light is on)
The push rod motor of the squeegee cannot be lifted	1. The push rod motor of the squeegee breaks down 2. The circuit board breaks down	1. Check the alarm displayed in the screen, and verify other problems after no alarm is displayed 2. Replace the push rod motor of the squeegee 3. Replace the circuit board (the indicator light is off) or the motherboard (the indicator light is on)
The water pump does not work	1. Turn on the water gun switch, the water pump vibrates, but the water gun cannot eject water 2. Turn on the water gun switch, and the water pump does not work	1. Check the alarm displayed in the screen, and verify other problems after no alarm is displayed 2. Check if the nozzle of the water gun handle is opened, and try to press the water gun handle switch 3. Gently knock at the water pump motor on the bottom using a wrench 4. Replace the relay or the water pump 5. Check if the water route is blocked
The panel light is normally on	1. The control panel is flooded or faulted 2. The main circuit board is flooded or faulted	1. Replace the control panel 2. Replace the main circuit board
The screen or the indicator light is off	1. The signal line of the panel is disconnected 2. The control panel is flooded or faulted 3. The main circuit board is flooded or faulted	1. Replace the panel signal line 2. Replace the control panel 3. Replace the main circuit board
The panel screen is lagged	1. Carry out self-check	1. Wait until the controller finishes self-check 2. Turn off the power switch, and restart the machine after a while 3. Turn off the power switch and open the battery compartment to turn on the lithium battery switch. After a while, turn on the lithium battery switch and the power switch, and swipe IC card to restart the machine 4. Replace the main circuit board

Warranty Card

Manufacturer	Username (company name)
Mailing address	Mailing address
Tel.	Tel.
Email	Model
Dealer	Specification (model)
Mailing address	Purchase date
Tel.	Bill No.

Warranty content:

Dealer's official seal:

Notes:

1. The Warranty card shall be valid affixed with the dealer's official seal.
2. Warranty service will be provided based on the invoices.

Company: Guangdong Lvtong New Energy Electric Vehicle Technology Co., Ltd.
Address: NO. 15, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan, Guangdo
Tel: 0769-22704308

FCC Warning

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.

Note: 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.

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 & your body.