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COMMERCIAL

FSP26 COMMERCIAL FLOOR SCRUBBER



User Manual

[Revision 5.0]

THE BATTERY MAY HAVE SOME CHARGE ON ARRIVAL, IT IS IMPORTANT HOWEVER THAT THE BATTERY IS CHARGED PRIOR TO USE.

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description, and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases, or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well it.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol, or medication.
- This equipment is not intended for use by persons with reduced physical, sensory, or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well-ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start, or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors, and vents.

General Equipment Use and Care

- Keep packaging away from children and pets, potential risk of suffocation or choking.
- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage, or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases, or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids, or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

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General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Always use a Residual Current Device (RCD) (GFCI) / Earth Leakage Circuit Breaker / Safety Switch when operating this item (electrical items only).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories, or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Child Choking Hazard!



- **WARNING: CHOKING HAZARD - CHILDREN UNDER 8 YRS. CAN CHOKE OR SUFFOCATE ON SMALL PARTS. ADULT SUPERVISION REQUIRED.**
- Carefully inspect anything a baby or child could gain access to, including this product & packaging.
- Dangers include anything of a size that could become stuck or lodged in a baby or child's airway.
- Dangers include things like raw, hard fruit and vegetable pieces, large pieces of meat, bones or sausage skins, popcorn, nuts, hard lollies and corn chips, small magnets and batteries, coins, beads, marbles and small uninflated balloons, broken toys and smaller toys, buttons, keys, and coins. But there are also many more.
- Pay particular attention to accessories, nuts, bolts, screws, washers, caps, covers, loose parts, parts that could be removed or break off, pieces of packaging, staples, tape etc.
- In the case of any doubt, secure the item of concern in an appropriate manner, or completely remove the possibility of access by a baby or child.

Product Safety

- Please read and understand this manual carefully before operating or using this machine.
- Operate the machine carefully.
- Maintain the machine regularly according to the maintenance instructions provided in the operation manual.
- Use parts manufactured by the original factory or of the same grade for maintenance.
- Environmental protection: Please discard the packaging materials, old machine components such as batteries, antifreeze, oil, and other toxic liquids under the premise of maintaining environmental safety according to your local waste disposal regulations.
- Please do a good job in recycling.
- This machine is a commercial product. It is specially used for cleaning indoor hard floor and must not be used for other purposes. Please be sure to use the recommended scouring pad, brush and neutral detergent suitable for this machine.
- The following safety precautions indicate situations that may cause potential hazards to the operators or equipment. All operators must read, understand, and follow the following safety precautions.
- **WARNING: FIRE OR EXPLOSION HAZARD. DO NOT USE FLAMMABLE LIQUIDS; DO NOT OPERATE THE MACHINE NEAR OR IN PLACES WITH FLAMMABLE LIQUIDS, GASES OR FLAMMABLE DUST.**
- This machine is not equipped with an explosion-proof motor. During start-up and operation, the electric motor of this machine will generate sparks. If this machine is used in places with flammable gases, liquids, or flammable dust, it may cause flash fire or explosion.
- Do not pick up flammable materials or reactive metals.
- **WARNING: DANGER OF ELECTRIC SHOCK.**
- Disconnect the battery wiring and charger plug before repairing the machine.
- Do not use a damaged power cord to charge the battery. Do not modify the plug.
- If the charger's power cord is damaged or broken, it must be replaced by the manufacturer or its maintenance agent or similar qualified personnel with qualification so as to avoid dangers.
- **WARNING: THE ROTATING BRUSH IS RUNNING. KEEP YOUR HANDS AWAY. PLEASE TURN OFF THE POWER BEFORE REPAIRING THE MACHINE.**
- Do not operate the machine in the following cases:
  - Contact with flammable liquids or close to flammable gases, otherwise it may cause explosion or flash fire.
  - Unless trained and authorized.
  - Unless the operation manual is read and understood.

    - Do not have normal operating conditions.
- Before starting the machine:
    - Ensure all safety devices are in place and operating normally.
- When using the machine:
    - Please walk slowly in case of slopes or slippery surfaces.
    - Wear non-slip shoes.
    - Please slow down when turning.
    - Report immediately when the machine is damaged, or the operation fails.
    - Do not allow children to play on or near the machine.
    - Observe the mixing ratios and handling instructions on the chemical containers.
    - Do not operate on slopes with a gradient exceeding 5% (3°).
- Before leaving or repairing the machine:
    - Park the machine on a smooth floor.
    - Turn off the machine.
    - Take out the key.
- When repairing the machine:
    - Do not move parts. Do not wear loose tops, shirts, or sleeves.
    - Disconnect the battery wiring before operating the machine.
    - Wear protective gloves and eye protection equipment when handling the battery or battery wiring.
    - Do not flush the machine with high pressure spray or water pipes. That may lead to electrical system failure.
    - Use replacing parts provided or approved by the manufacturer.
    - All maintenance operations must be done by qualified maintenance personnel.
    - Do not modify the original design of the machine.
- When using trucks or trailers for carrying machines:
    - Drain the water tank before shipment.
    - Use the recommended loading/unloading dock ground when loading and unloading machines from trucks or trailers.
    - Remove the battery before handling the machine.
    - Please carry the machine with the assistance of others.
    - Turn off the machine.
    - Lower the brush disc motor to the lowered position.
    - Secure the machine with ropes.
- Security labels: The safety labels will be marked on the machine according to the indicated positions. If a label is missing, damaged or difficult to identify, please replace that label.
- **WARNING: THE ROTATING BRUSH IS RUNNING. KEEP YOUR HANDS AWAY. PLEASE TURN OFF THE POWER BEFORE REPAIRING THE MACHINE.**

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.



Flammable Material Hazard
Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.



Read User Manual
Read and fully understand product safety warnings, operation, procedures etc before using the product.



Use Hand Protection
Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.



Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.



Electrocution / Electrical Shock Hazard
High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.



Toxic Fumes / Dust Hazard
Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.



Explosive Material Hazard
Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.



Cutting / Amputation Hazard
The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.



Crush Hazard
The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.



Single Operator Only
The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.



Use Face Protection
Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.



Use Foot Protection
Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.



Use Eye / Ear / Head Protection
Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing, and head hazards.



Running Hazard
Do not run on or near the product as doing so may present a fall hazard.



Diving Hazard
Do not dive into the product as doing so may present a neck / head injury hazard.



Adult Supervision Required
Always supervise children and other users of a product to prevent drowning or injury.



Skin Penetration / Puncture Hazard
The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.



Hot Surface Hazard
Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.



Flying Debris Hazard
Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.



Moving Parts Hazard
Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

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Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.



Pull Hazard
Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.



Slope / Fall Injury Hazard
Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.



"Slam Dunk" Warning
Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.



Electrocution / Electrical Shock Hazard - Outdoor
High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp, or wet conditions. Electrical shock can be fatal.



Electrocution / Electrical Shock Hazard - Disconnect
High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.



Power Line Electrocution Hazard
High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.



"Kick-Back" Hazard
High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.



Winch Operator Position Hazard
Do NOT stand between winch and load. Do NOT use winch to move people.



Winch Lift Hazard
Do NOT LIFT load vertically. Use machine to PULL only.



Cable Hazard
Ensure that load bearing cable is not kinked or knotted.



Winch Cable Hazard
Ensure that there is a minimum number of cable coils on winching mechanism.



Winch Hook Hazard
Carry hook to load – do NOT throw or run.



Flash / Blinding Hazard
Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.



Laser Hazard
Laser may be in use – do NOT look directly at laser or allow others to.



Choking Hazard
Children under 8 yrs. Can choke or suffocate on small parts. Adult supervision required.

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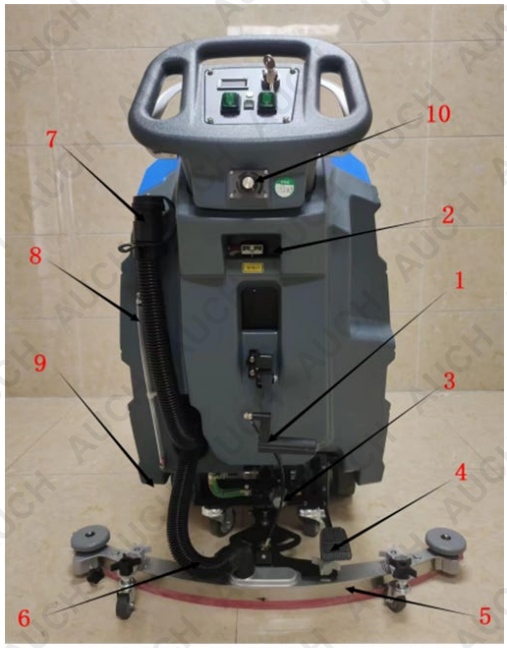
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Parts Identification

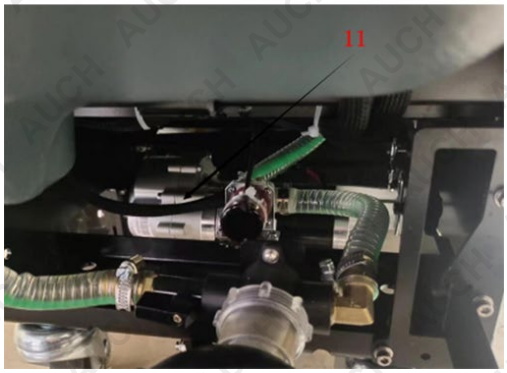


1. Sewage tank cover
2. Chassis main handle
3. Clean water inlet
4. Brush disc guard
5. Brush disc
6. Brush disc stop ring
7. Drive wheel
8. Guide wheel

Spare parts available for purchase, scan QR code below:



1. Suction rake handle
2. Charging port
3. Clear water filter
4. Brush disc lifting pedal
5. Suction rake assembly
6. Suction pipe
7. Blow-off pipe
8. Water level transparent pipe
9. Outlet
10. Self-propelled speed control knob
11. Drive the motor

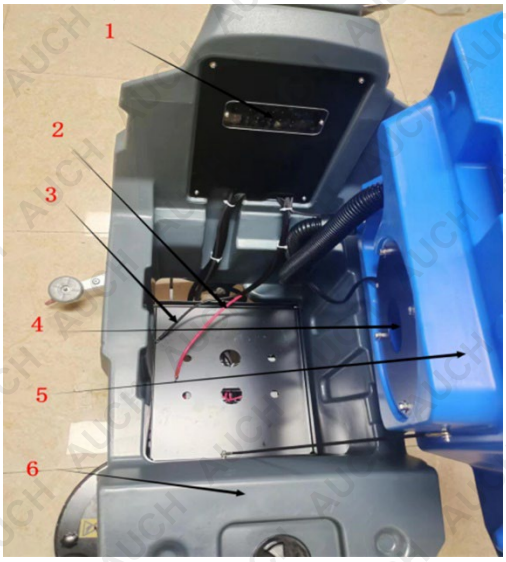




1. Main power switch
2. Battery meter
3. Brush disc motor switch
4. Suction rake motor switch
5. Fault Indicator Light
6. Headlamp switch



1. Headlight switch



1. Electronic control board
2. Power positive wire (red)
3. Power negative wire (black)
4. Suction motor
5. Sewage tanks
6. Clear water tank

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Assembly

Unpacking

1. Carefully check whether there is any damage on the packing box of the machine. Please report any damage to the carrier/manufacturer immediately.
2. Check the list of freight contents. If there are any missing items, please contact the carrier/manufacturer.
3. Before unpacking the machine, please remove the iron sheet fixing parts on the big casters. Carefully remove the machine from the shelf with the help of others.

NOTE: If no loading/unloading ground is not used, do not directly push the machine to avoid damage to the machine.

Battery Installation

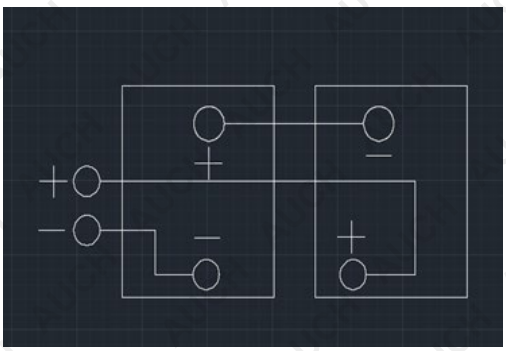
For Safety Consideration: when repairing the machine, please wear protective gloves and eye protection equipment when handling the battery and battery wiring.

1. Park the machine on the horizontal ground, turn off all power switches, and take out the key.
2. Lift the sewage tank so that you can reach the battery compartment (Figure 1).



3. Carefully install the battery in the battery compartment and arrange the battery terminals as shown in the following figure (Figure 2).
4. Connect the battery wires to the battery terminals as shown in the figure (Figure 2).

   Red is connected to the positive (+) and black to the negative (-).



Brush and Scouring Pad Information



PAD HOLDER

Enables the use of pads on disc machines.

WHITE

Soft pad for finishing waxed surfaces and fine polishing.

RED

Medium-soft pad for daily maintenance of all types of flooring.



GREEN

Medium-hard pad for maintenance and heavy-duty cleaning of resistant floors.

BROWN

Heavy-duty pad for wet and dry scraping.

BLACK

Hard pad for heavy-duty cleaning of resistant floors with stubborn dirt.

The color of the pads change depending on the application. The darker colors like black and brown are more aggressive and are used for stripping. Colors like blue or green are less aggressive and are used for more everyday applications. Light colors like white, pink and red are used for polishing.

Suction Rake Assembly

1. Park the machine on the horizontal ground, turn off all power switches and take out the key.
2. Pull up the lifting rod of the suction rake to the upper position (Figure 3).



3. Mount the suction rake onto the suction rake mounting bracket, as shown in the figure (Figure 4). Be sure to fully place the fastening knob in the slot and then tighten the knob.



4. Connect the suction pipe to the suction rake assembly, as shown in the figure (Figure 5).

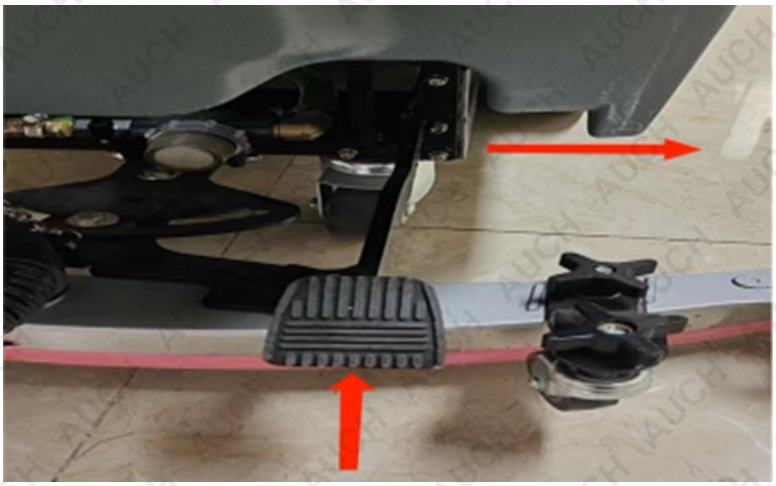


5. Check the suction rake strip and make appropriate adjustment.

Brush Disc Installation

For Safety Consideration: before installing the brush disc or needle holder, please place the machine on the horizontal floor and turn off all power switches and take out the key.

1. Park the machine on the horizontal ground, turn off all power, and take out the key.
2. Press down the brush disc lifting pedal and move it to the right (as shown by the arrow) to raise the brush disc motor (Fig. 6)



3. Place the needle holder/brush disc in the middle of the brush disc cover (as shown in Fig. 7)





Injection of Solution into the Clean Water Tank

The front of the machine is provided with a bucket water feed hole to allow injection of solution into the clean water tank (Fig. 9).



For floor washing: use hot water (up to 60℃). According to the mixing ratio instructions on the container, pour the recommended detergent into the clean water tank for mixing.

Note: If use a bucket to feed the solution into the clean water tank, make sure the bucket is clean. Do not use the same bucket to feed solution and discharge sewage.

Note: For cleaning method, please always use the recommended commercial detergent. If the machine is damaged due to improper use of detergent (remember not to use granular detergent, such as washing powder), the manufacturer will not be responsible for any warranty.

WARNING: Pay attention to the danger of fire or explosion hazard. Do not use flammable liquids.

For Safety Consideration: please observe the mixing ratio and handling instructions on the chemical container when using the machine.

Operation

For Safety Consideration: Do not operate the machine until you have read and understood the operation manual.

WARNING: fire or explosion hazard. Never operate the machine near or in a location with flammable liquids, gases, or flammable dust.

Pre-Operation Check

- Clean up any dust on the floor.
- Check the indicator of the battery meter.
- Check the wear of the scouring pad/brush.
- Check the wear of the suction rake strip and adjust the angle appropriately.
- Ensure that the sewage tank is empty, and the sewage filter screen is installed and clean.

Turning ON

1. Turn on the main power switch and press the brush disc motor button and the suction rake motor button (Fig. 10).

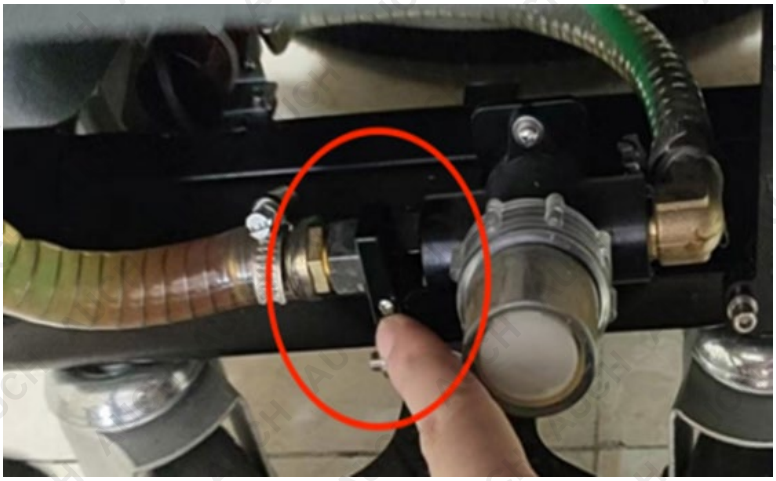




Press the pedal of the brush disc motor and move it to the left (as shown by arrow) so as to land the brush disc (Fig. 11). Lower down the lifting handle of the suction rake to lower the suction rake assembly to the floor (Fig. 11), The suction motor works.




2. For different floor cleaning requirements, the water output can be controlled by adjusting the water valve switch up and down (Fig. 12).



3. To stop cleaning, please turn off the brush disc, the suction rake motor switch, and the main power supply to raise the brush disc and suction rake.
4. The machine has a headlight, please turn it on when necessary.



During Operation

WARNING: Do not pick up flammable materials or reactive metals to avoid fire or explosion.

For Safety Consideration: please walk slowly and wear non-slip shoes in case of slopes and sliding surfaces.

- The cleaning paths should overlap with each other by 5cm.
- Keep the machine moving so as not to damage the floor.
- Clean the cleaning area in advance to avoid drag marks. If there is a scratch on the floor following the moving suction rake, please wipe the strip with a cloth and remove the garbage.
- Do not operate the machine on slopes with a gradient of more than 5% (3°).
- If there is too much foam, please pour the recommended commercial defoamer into the sewage tank.

Note: Do not allow foam to enter the sewage filter screen in the sewage tank to avoid damaging the suction motor.

- For extremely dirty areas, double cleaning is recommended. First raise the suction rake for cleaning; after soaking in the solution for 3-5 minutes, lower the suction rake and clean it again.
- When the operator leaves the machine, please raise the suction rake and the brush disc, turn off all power switches and remove the key.

Battery Meter

The battery meter shows the level of charge in the battery. When the battery is fully charged, all indicator lights are on. As the power is consumed, the indicator lights will turn off from right to left (Fig. 13).

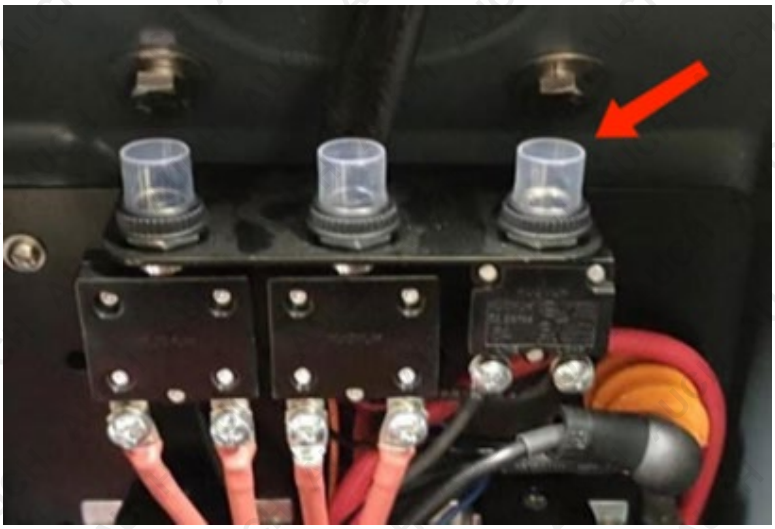
Note: In order to prolong the service life of the battery, please charge the battery in time after use of the machine.

When the power level reaches the last 4 scales, please stop cleaning. This can prevent the battery from completely running out. Please immediately push the machine to the charging area for battery charging.



Overload Reset Switch

- The operation panel of this machine is equipped with a resettable overload reset switch to prevent damage to the electric door lock. Overload reset switch (see Fig. 14).
- The control panel of this machine is equipped with two reset switches. The upper is for the suction motor and the lower for the brush disc motor.
- When the overload reset switch triggers, please judge the cause of the trigger, and let the motor cool down, then press the overload reset switch button manually.
- If a machine needs repair, please contact an authorised service centre.



Water Tank Drainage

- The sewage tank should be drained and cleaned after use each time.

For Safety Consideration: Park the machine on a level ground before leaving or repairing it, then turn off the machine and take out the key.

Drain the Sewage Tank

1. Move the machine to the drainage location and turn off the power key.
2. Hold the drainpipe with its mouth up, remove the pipe cover and then lower the pipe for drainage (Fig.15-1).



Note: Do not use the same bucket to feed solution into the clean water tank when that bucket is used for receiving the sewage discharged from the sewage tank.

3. Remove and flush the sewage filter screen located in the sewage tank (Figure 15-2).



Drain the Clean Water Tank

To drain the remaining water from the clean water tank, open the drainpipe cover of the clean water tank (Fig. 16).





Charging the Battery

The following charging instructions apply to the charger supplied together with this machine.

Note: To prolong the service life of the battery, please be sure to charge it in time after use of the machine to prevent the battery from being damaged due to long-term power loss.

Use of Battery Charger

1. Move the machine to a well-ventilated place.

WARNING: Pay attention to fire or explosion hazard. For safe use, please stay away from sparks or open fire sources.

2. Park the machine on a flat and dry floor, raise the suction rake and brush disc, turn off all power switches and remove the key.
3. Insert the AC power cord of the electrical appliance into a well-grounded power socket.

4. Insert the DC line of the charger into the battery charging socket at the rear of the machine (Fig. 17).

Note: Once the battery charger is connected, the machine will not work anymore.





Note: Please do not unplug the DC line of the charger from the socket on the machine during charging. This is to avoid arc discharge. If charging must be suspended during the charging process, unplug the AC power cord first.

Precautions for Installation and Use of Battery

- Before using the battery, check whether each battery is damaged, clean and marked clearly, and clean the battery surface with dry cloth; Check the open-circuit voltage of the battery, whether the positive and negative poles are clearly marked, and whether there is any reversal.
- The battery shall be installed upright according to the requirements of the drawings and shall not be inverted. The spacing between adjacent batteries shall be at least more than 5 mm. After the installation is completed, check whether the positive and negative poles of each battery are correct according to the requirements of the installation drawings, and then connect each battery as a whole group with wires.
- After the battery is completely installed, check whether the connecting parts are loose. When tightening the connecting parts, remember not to use too much force which may damage the pole. Generally, the tightening force is not more than 15Nm.
- When installing the batteries, adjust the pads between the batteries to make the batteries upright, and tighten the batteries to prevent them from shaking and colliding.
- Electric door locks, safety seats and other devices where sparks are easily to be produced must be isolated from the battery.
- The batteries will leave factory in state-of-charge. Usually, the user can directly load the battery for use. For example, if the battery is left idle for a long time (more than 2 months), it shall be charged according to the charging method before use.
- The battery shall not be close to fire sources or heat sources. Direct exposure in the sunlight is strictly prohibited in hot summer. Severe vibration, collision, and short circuit of positive and negative poles of the battery shall be avoided.
- The battery capacity is subject to an ambient temperature of 25℃. For every 1℃ drop in temperature, the battery capacity will drop by about 1%. The influence factors of temperature shall be considered in use, and the use under -10℃ environment shall be avoided insofar as possible.
- Batteries shall not be disassembled without authorization to avoid danger.

- Waste batteries must be recycled and must not discarded at will, which may affect the environment.
- Pay attention to the battery temperature changes during charging to prevent overheating from damaging the battery and causing danger.
- The machine is strictly prohibited in use with the battery of a long-time power loss. It must be fully charged at one time before use.
- Always remember not to charge the machine frequently or let the machine work under the condition of frequent power loss, which is easy to damage the battery. The manufacturer is not responsible for the battery damage so caused.

Working Status of LED Indicator of Charger

LED lamp	Indication status	Working state
LED1.LED2	Twinkling, fan not turning	Pre-charging status [charging time: 3 hours]
LED1LED2	Red light on, fan turning	Constant current status [charging time: 7-8 hours]
LED1.LED2	Red light on, fan turning	Constant voltage status [charging time: 4.5 hours]
LED1.LED2	LED1 red light on, LED2 green light on, fan not turning.	Small constant current status [charging time: 4.5 hours]
LED1.LED2	LED1 light off, LED2 green light on, fan not turning.	Charging completed
Remarks:		
Several cases of LED2 red light on	1. Short circuit of load	
	2. The wires are connected reversely.	
	3. Short circuit of battery wire	
	4. Overtemperature - LED2 orange light on	

Lead-Acid Battery Care and Maintenance

Top 3 Battery Care Requirements

5. **Charge battery before first use**. The battery may arrive with some charge, regardless of this the battery must be charged on the initial charge and for each subsequent charge.
6. **Charge battery immediately when it is depleted.** Do not store a depleted battery. This will permanently impact the life of the battery. If the battery is going to be stored for a period of time, fully charge the battery before storing.
7. **Disconnect battery when not in use**. To prolong the life of a battery, disconnect it from the unit when not in use. Disconnect chargers from the battery once charged.

To ensure the battery maintains optimum performance, follow the guidelines outlined below.

- For best results, charge batteries in temperatures between 10°C and 30°C
- When battery is charged, disconnect the charger from the power supply and remove the battery from the charger.
- Inspect the terminals, screws, clamps and cables for breakage, damage, or loose connections. These should be clean, tight, and free of corrosion.
- Use only with the battery charger specified by the manufacturer.
- Ensure that the battery charger electrical cord is not subjected to damage or stress. Do not operate the battery charger if it has a damaged electrical cord or plug.
- Do not use the charger in wet areas or expose it to rain or water.
- Keep the battery clean, dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.
- Apply a thin coating of high temperature grease to posts and cable connections for added protection.
- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged.
- Batteries can explode in the presence of an ignition source, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. Exploding batteries can propel debris and chemicals.
- Do not open the battery – danger of short-circuiting and/or explosion.
- Do not attempt to destroy or disassemble the battery pack or remove any of its components.
- Do not touch the battery terminals with metal objects and/or body parts as short-circuit and/or personal injury may result.
- Explosion hazard – protect the battery against heat, for example, direct sunlight and fire. Do not store batteries in vehicles or locations subject to heat.
- Explosion hazard – do not open and/or short-circuit the battery.
- Poison hazard – battery leakage (liquid ejection). Under extreme conditions, liquid may be ejected from the battery – avoid contact. If contact accidentally occurs, immediately seek medical attention, and flush with water. If liquid contacts eyes, immediately seek medical attention, flush with clean water for at least 10 minutes. Liquid ejected from the battery may cause irritation or burns.
- Dispose of non-serviceable batteries in an environmentally responsible manner and according to local regulations.

Failure to adhere to the requirements above may result in the battery becoming inoperative or battery life being reduced. In extreme cases or abuse, battery overheating, or fire may result.

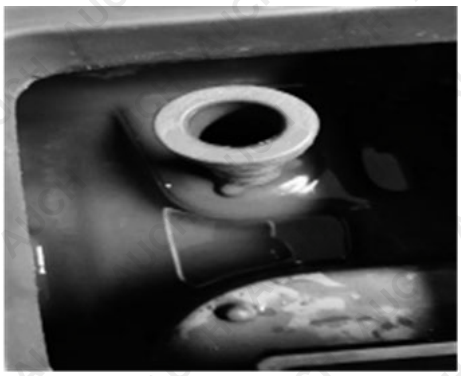
Maintenance

In order to keep the machine in the best working condition, daily, weekly, and monthly maintenance procedures must be observed.

WARNING: Pay attention to danger of electric shock. Please disconnect the battery wiring before maintaining the machine.

Daily Maintenance (After Each Use)

1. Drain and clean the sewage tank (Fig. 18)

2. Remove and flush the sewage filter screen located in the sewage tank (Fig. 19).



3. Drain the clean water tank, remove the clean water filter screen, clean it, and then put it back (Fig. 20).




4. Ensure that when the brush disc motor is lifted, press the brush disc motor button; once the brush disc motor rotates, close the brush disc motor button; then remove the scouring pad and brush and clean them. In case of wear, please turn over or replace the scouring pad (Fig. 21).




5. Clean the suction rake strip (Fig. 22). Place the suction rake assembly in the raised position to prevent damage to the strip.




6. Check the wear condition of the edges of the suction rake strip (Fig. 23). In case of wear, please change over the two ends of the strip.



7. Wipe the machine with multi-purpose detergent and wet cloth. For Safety Consideration: when cleaning the machine, do not flush the machine with high-pressure spray or water pipe, which may cause electrical system failure.

8. To prolong the service life of the battery, please be sure to charge the battery in time after use of the machine so as to prevent the battery from being damaged due to power loss (Fig. 25).




Weekly Maintenance

1. Remove the clean water tank under the machine and clean the filter screen (Fig. 26). Make sure to empty the clean water tank before removing the filter screen.




2. Clean the top of the battery to prevent electrode corrosion, and check whether the wire connection is loose (Fig. 27).




3. Check the sewage tank's cover seal for foreign matters or damage (Fig. 28). In case of any damage, please replace it.



Transport

When using a truck or trailer to transport the machine, be sure to follow the following banding procedures:

1. Raise the suction rake and brush head.
2. Use the recommended loading/unloading ground for loading the machine.
3. Place the front of the machine close to the front of the truck or trailer. After the machine is stably placed, lower down the brush head and suction rake.
4. Place an obstacle behind each drive wheel to prevent the machine from sliding.
5. Use ropes to fix the top of the machine, thus preventing tilting. Brackets must be installed on the deck of the truck or trailer.

For Safety Consideration: Please use a recommended loading ground to load and unload the machine with a truck or trailer. Use ropes to basically fix the machine on the truck or trailer.

Storage

1. Charge the battery before storage of the machine. Do not store the machine with a battery running out. If the storage period is long, please ensure that the battery is charged every 2-3 months so as to prevent long-term power loss and damage.
2. Drain the water from the water tank and rinse it thoroughly.
3. Store the machine in a dry place and keep the suction rake and brush disc in the raised position.
4. Open the sewage cover to facilitate ventilation.

Note: Never expose the machine to rain. Store it indoors.

5. If the machine is stored at a freezing temperature, follow the antifreeze instructions below.

Antifreeze

Pour 1 gallon (4 litre) of recreational vehicle (RV) anti-freezing agent into the clear water tank without dilution.

For Safety Consideration: Avoid contact between the anti-freezing agent and eyes. Wear protective glasses.

Important: Rinse the anti-freezing agent in the clean water tank before operating the machine.

Troubleshooting

Problem	Cause	Solution
The machine fails to work.	The switch is not turned on or is damaged.	Use the key to turn on the switch or replace the switch.
	The suction disc motor button is not turned on or is damaged.	Turn on the switch or replace the switch.
	The suction motor button is not turned on or is damaged.	Turn on the switch or replace the switch.
	The battery is dead or damaged.	Please charge or replace the battery.
	The overload reset switch trips off.	Remove short circuit fault and press down the overload reset switch.
The charger does not work.	The plug is not connected to the power supply.	Check the plug connection.
	The positive and negative connection wires are connected incorrectly.	Connect the positive and negative poles correctly.
	The charger fails.	Refer to charger's fault code.
The brush disc motor does not work.	The brush disc is lifted off the ground or the brush disc motor button is damaged.	Replace the microswitch of the brush disc motor.
	The motor switch is damaged	Replace the motor microswitch.
	The overload reset switch trips off.	Troubleshoot, and press down the overload reset switch.
	Wear of motor's carbon brush	Please contact an authorised Service Centre.
	The joint of brush disc motor is loose.	Fix the joint again.
	The brush disc motor is damaged.	Replace the motor.
The machine cannot move forward.	The steering wheel is damaged.	Replace the steering wheel.
	The large caster is damaged.	Replace the big caster.
	The adjusting nut of brush disc is loose.	Re-adjust the brush disc's adjusting nut.
	The suction motor is damaged.	Replace the suction motor.
	The sewage tank is full.	Discharge the sewage.
Little water or no water is flowing out.	Filter screen of the clean water tank	Clean the filter screen of the clean water tank.
	The water valve switch is broken.	Replace the water valve switch.
	The solenoid valve is broken.	Replace the solenoid valve.
Suction is insufficient.	The sewage tank is full, or the suction pipe is damaged.	Drain the sewage tank or replace the suction pipe.
	The drainpipe cover is not sealed.	Re-cover the drainpipe cover.
	The sewage filter screen in the sewage tank is blocked.	Clean the sewage filter screen.
	Foreign matters at the seal of the sewage pipe cover.	Remove the foreign matters and re-cover the sewage pipe cover.

Problem	Cause	Solution
	Wear of suction rake strip	Replace or replace the suction rake strip.
	The suction rake strip cannot be bent properly.	Adjust the height of suction rake strip.
	The suction motor is damaged.	Replace the suction motor.
	Foreign matters at the sewage guide cover	Clean off the foreign matters in the sewage guide cover.
	The battery level is low.	Charge the battery.
The running time is shortened.	The battery level is low.	Please fully charge the battery.
	The battery fails.	Replace the battery.
	The battery needs maintenance.	Refer to "Battery Maintenance".
	The battery charger fails.	Maintenance or replacement of battery charger
Little water or no water is flowing out.	Filter screen of the clean water tank	Clean the filter screen of the clean water tank.
	The water valve switch is broken.	Replace the water valve switch.
	The solenoid valve is broken.	Replace the solenoid valve.

Battery Charger Fault Codes

Code	Fault	Solution
LED2 green light on and blinks	The battery voltage is lower than 22V.	Charge for half an hour at 24V, 15-25AH, and then use the intelligent charger for daily charging.
	The battery level is inverted and cannot reach 22.4V.	
LED2 red light on.	The battery voltage is lower than 22V.	The battery connector is not connected properly; The battery circuit fails.
Remarks	The charger of liquid adding type cannot charge maintenance-free batteries, which may easily burn out the charger.	
	Maintenance-free chargers can charge the batteries of liquid adding type, but the batteries cannot be fully charged.	
	If the voltage is lower than 22V, the intelligent charger cannot work.	
	If the battery voltage is lower than 23V, the battery will give a warning for charging. Please charge it in time.	
	The above faults are all from new batteries. For old batteries, they need to be maintained and replaced.	
	Under normal circumstances, when the battery level is low, the power indicator on the machine operation interface will give a warning. Please charge it in time. If it is not charged for a long time, the above-mentioned faults will occur.	

Specifications

Self-propelled	Yes
Rated Power	2 x 400W (Brush), 450W (vacuum motor), 300W (drive motor)
Motor Type	Ametek Rotron TDS
Brush Width	720mm (2 x 360mm)
Squeegee Width	920mm
Solution/Recovery Tank (L)	62/67
Battery Capacity	2 x 24V/120Ah
Run Time	4-4.5 hr
Working Capacity	3000㎡/h
Brush Pressure	27-29kg
Disc Speed	180RPM

Note: Minimal Assembly Required

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Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging, and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear, or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear, or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business, or employee, or financially affect the user, business, or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement, or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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