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FSH18 COMMERCIAL FLOOR SCRUBBER



User Manual

[Revision 4.0]

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.

Important Safety Information

- Read this user manual carefully first before operating the product.
- 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.
- 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 recycle, as needed.
- 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.
- 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: WHILE 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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CONTROL PANEL LAYOUT



Overload reset switch

2. Brush motor ON.OFF

3. Safety Key

4. Vacuum switch

5. Display



PAD HOLDER

Allow for use pads on disc machines



WHITE

Soft pad for finishing wax/oiled surfaces and fine polishing



RED

Medium-soft pad for daily maintenance of any type 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

PARTS IDENTIFICATION



① Recovery tank cover
② Recovery tank
③ Recovery tank lock
④ Solution tank inlet
⑤ Solution tank
⑥ Brush disc guard
⑦ Caster
⑧ Wheel
⑨ Squeegee assembly



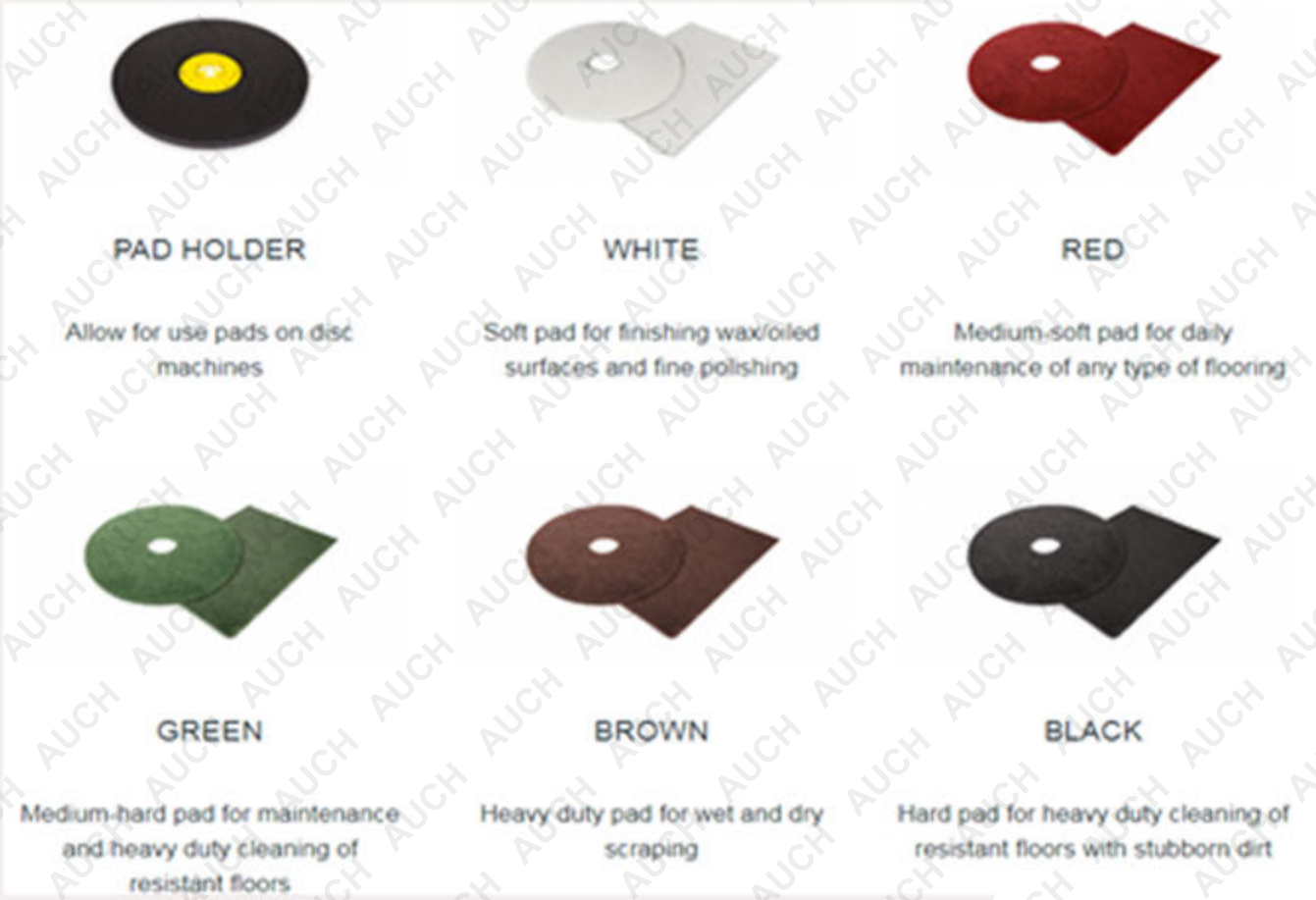
① Control panel
② Clean water level indicator
③ Charger connector
④ Drainage hose
⑤ Squeegee lift handle
⑥ Suction hose
⑦ Clean water filter



Spare parts available for purchase, scan QR code below:

BRUSHES AND PADS

In order to ensure the best efficiency, please use a brush of the appropriate type when cleaning. The recommended brushes and polish pads are as follows:



In general, the different pad colors signify a different cleaning application. For example, darker colors like black, brown, maroon are the most aggressive pads and used in stripping. Colors like blue or green are less aggressive and common scrubbing pads. Light colors, such as white, pink, red, are used for polishing.

BRUSHES AND PADS

1. Park the machine on the horizontal ground, turn off all power switches and take out the key.
2. Pull up the lifting handle of the squeegee blade to the upper position .



3. Mount the squeegee blade onto the squeegee blade mounting bracket, as shown in the photo. Be sure to fully place the fastening knob in the slot and then tighten the knob.



4. Connect the suction hose to the squeegee blade assembly, as shown in the figure.



BRUSH DISK INSTALLATION

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

1. **With the power off, park the machine on the horizontal ground.**
2. **Press down the the pedal and slide it to the right, this will raise the disc motor at the front of the unit.**





3. **Place the brush disc in the middle of the brush disc cover**
4. **Do the same for the left brush disc then press down on the pedal and move it to the left. This will lower the motors. Then turn on the brush disc motor and leave it on for a few seconds. This will complete the installation of the brush discs.**

FILLING TANK WITH DETERGENT

The front of the machine has a mesh screen to allow injection of solution into the clean water tank.



FILLING TANK (Continued)

• 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: Ensure the bucket is clean when filling with water for the reservoir.
Note: When filling the tank, please always use commercial detergent.
Use of powders can damage the internals, this will not be covered under warranty

WARNING: Never use flammable liquids. Always check for spillages and leaks. Ensure the mixing ratio for your preferred cleaning liquid is correct

CLEANING

Water and detergent flow to the brush disc to the ground through water valves and solenoid valves. Cleaning the floor with detergent and water as the disc rotates. Waster water will be sucked into the sewage tank through the suction rake assembly at the rear of the machine.

PRE-OPERATION CHECKS

- Clean up the dust on the floor.
- Check the battery level (refer to the control panel).
- Check the condition of the pads and brushes, replace as needed.
- Check the condition of the sqeedgie strip and adjust the angle appropriately.
- Ensure that the sewage tank is empty, and the sewage filter screen is installed and clean.

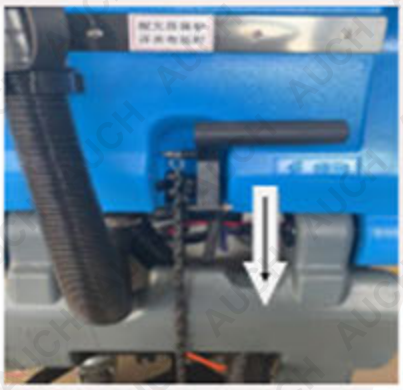
OPERATION

1. Turn the power key clockwise, press the brush motor button, and the vacuum switch.





2. Press down on the pedal with your foot and move it to the left so as to ground the brush disc and pull down the handle to lower the suction rake.

3. For different floor cleaning requirements, the water output can be controlled by adjusting the water valve switch up and down.

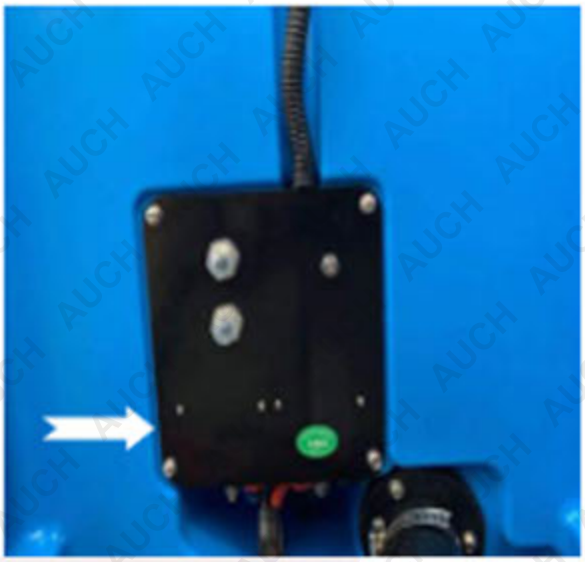


4. To stop cleaning, please turn off the brush motor, the vacuum switch, raise the rear rake and turn the power key to the left.

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.
- 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.





DRAINING THE TANK

- The sewage tank should be drained and cleaned after use each time.
- For Safety Consideration: Please Park the machine on a level ground before leaving or repairing it, then turn off the machine and take out the key.

DRAINING THE TANK (continued)

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.





3. Remove and rinse the sewage filter screen located in the sewage tank.





To drain the remaining water from the clean water tank, open the drainpipe cover of the clean water tank.





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 so as to prevent the battery from being damaged due to long-term power loss.

Using the 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.

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

BATTERY PRECAUTIONS

- 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.

BATTERY PRECAUTIONS (Continued)

- 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 emperature, 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.

Battery LED Indicators

LED lamp	Indication status	Working state
LED1. LED2	Twinkling, fan not turning	Pre-charging status [charging time: 3 hours]
LED1 LED2	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		
LED2 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	

MAINTENANCE

1. Drain and clean the dirty water tank.
2. Remove and rinse the dirty water filter
3. Drain the detergent tank and clean the filter screen
4. Clean the brush disks as needed
5. Clean the rear rake as needed
6. Leave both the disk and rear rake in the raised position during storage to avoid dust and dirt buildup
7. Wipe down the machine
8. Charge the battery after each use

Lead-Acid Battery Care and Maintenance

Top 3 Battery Care Requirements

1. **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.
2. **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.
3. **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.

Specifications

Rated Power	550W (brush motor), 450W (vacuum motor)
Motor Type	Amatek Rotron TDS
Brush Width	490mm
Squeegee Width	830mm
Solution/Recovery Tank (L)	50/55
Battery Capacity	2 x 24V/100Ah
Run Time	3-4 hr
Working Capacity	1750㎡/h
Brush Pressure	17-20kg
Disc Speed	180RPM
Power Plug	Australian Standard

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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