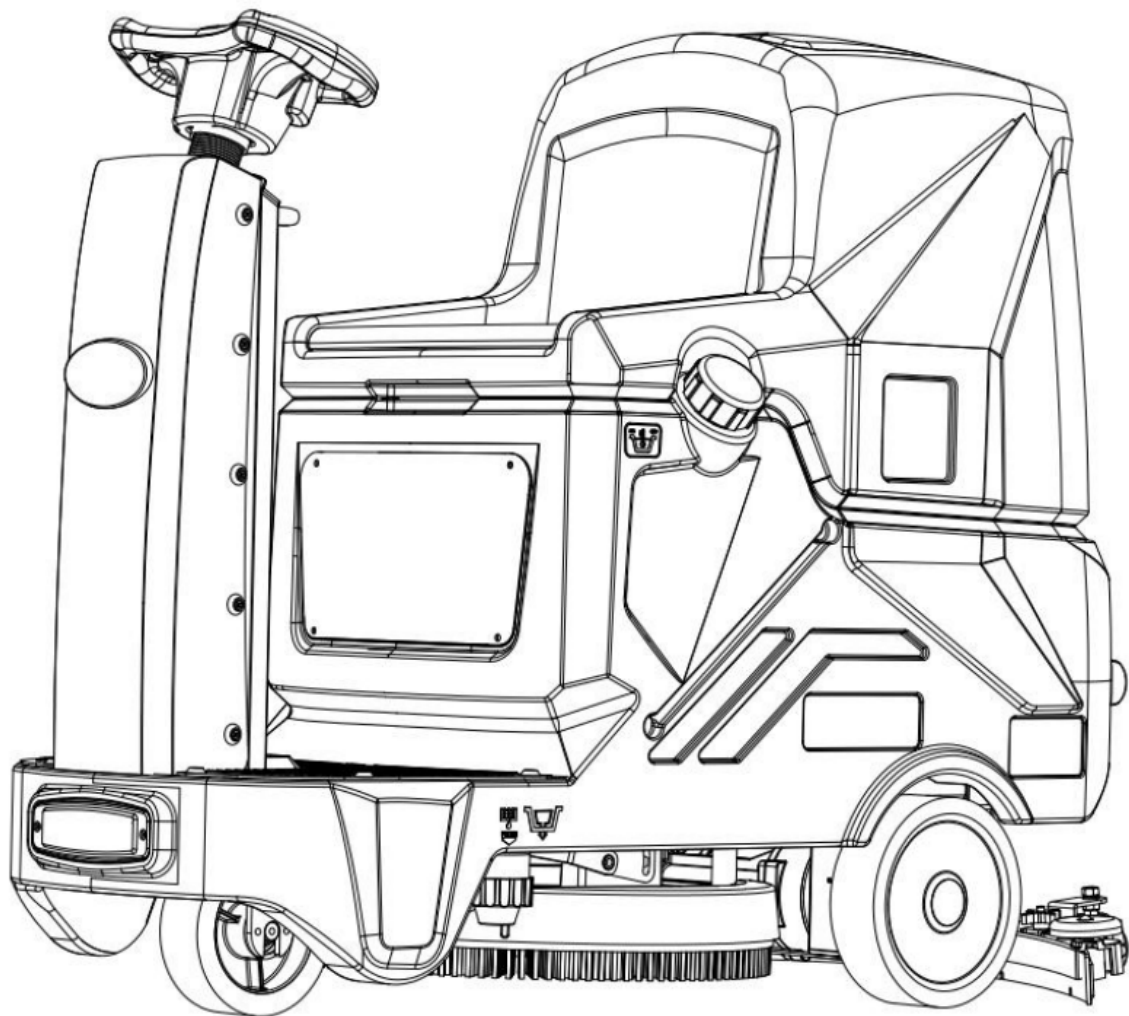


Ride On Floor Scrubber Machine

Model No:- DP-RAFS1205

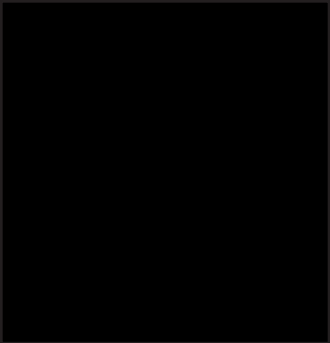


Please read the instruction manual carefully before use

For any service-related issues, please contact us:

Phone Number: 718-301-8243

Email address: support@dapper-supply.com



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Specification	5
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INTRODUCTION

Machine Shipping Instructions

Upon delivery of the cleaning equipment, it is essential to inspect the items immediately to confirm that all equipment listed in the shipping documents has been received and to check for any damage that may have occurred during transit. If any discrepancies or damages are found, the recipient is requested to assess the extent of the issue and promptly contact our customer service department. This will allow us to arrange for replacement of any missing items and provide appropriate compensation for any damage caused due to our oversight.

About

The ride-on floor scrubber is a powerful cleaning machine designed to clean various types of floors using a high-speed rotating brush combined with a detergent solution that offers excellent decontamination. One of its key features is the ability to collect all dirt and used solution during operation, preventing any residue that could potentially damage the floor surface.

This equipment is intended solely for floor cleaning purposes. To ensure optimal performance and longevity, it should be used under normal operating conditions and kept in good working order. We strongly recommend reading this manual thoroughly and referring to it whenever you face any issues during use. If further assistance is required, please feel free to contact our customer service hotline or your local dealer for support.

Applicable environment

This equipment is specifically designed for cleaning indoor surfaces and floors in industrial, commercial, and public buildings. It is not suitable for use in rainy conditions or underwater.

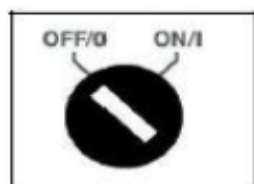
Use of this machine to vacuum hazardous powders is strictly prohibited.

The product's serial number can be found inside the battery compartment.

Technical Specifications

Technical Description	Unit	Data
Working width	in	22.05
Width of suction	in	31.50
Cleaning efficiency	ft ² /h	37,674
Brush size	inch*n	21*1
Brush speed	RPM	200
Floor brushing pressure	lbs	50.7
Brush motor power	v/w	24/550
Water suction motor power	v/w	24/550
Vacuum degree of suction motor	PSI	1.96
Drive motor power	v/w	24/550
Forward speed	mph	0-3.42
Voltage	V	24
Maximum inclination at full load	max grade	10%
Front wheel diameter	in * n	6.89*1
Rear wheel diameter	in * n	8.86*2
Fresh water tank	gal	18.5
Waste water tank	gal	19.8
Turning diameter	in	59.06
Machine's length*width*height	in	49.2 x 24.8 x 39.4
Battery box's length*width*height	in	14.25 x 13.94 x 11.42
Battery capacity	v/Ah	12/100
Battery quantity and weight	n*lbs	2* 72.75
Weight of the machine without battery	lbs	242.5
Noise(ISO 11201)	dB (A)	65

Explanation of symbols used in the equipment



Main switch or key switch symbol
Displayed on the instrument panel to indicate whether the device is on(ON-1) or off(OFF-0)



Sound alarm symbol
Used to indicate the sound alarm button



Reverse movement sign
Used to indicate the reverse gear button



Brush connected or not connected symbol
Used to indicate whether the brushes are connected or not connected



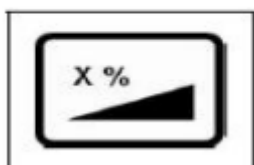
Symbol used to indicate the maximum water level to fill the tank



Symbols are used to indicate the location of solution tank drains



Symbols are used to indicate the location of the sewage tank drain pipe



The symbol is used to represent the maximum gradient

SAFETY

Symbols used in this manual



Open the "i" icon
Indicates the need to view the instruction manual.



Open book icon
Indicates that the operator needs to read the manual before using the machine



Warning sign
For the safety of the operator and the machine, please read the parts marked with this symbol carefully.



Warning sign
Indicates the risk of gas or liquid leakage



Warning sign
Indicates that the operator should take protective measures to avoid injury to limbs.



Warning sign
Indicates a fire hazard. Keep away from open flames.



Warning sign
Indicates that packaged products need to be lifted using standardized means.



Handling Symbols Please read carefully the parts marked with this icon.

Safety and Operating Guidelines

To prevent injury to the operator and avoid damage to the machine, please strictly adhere to the following safety regulations:

General Precautions

- Carefully read all labels on the machine. Replace any damaged or unreadable labels immediately.
- Only trained and authorized personnel should operate the machine.
- Do not tilt the machine beyond the maximum angle indicated on the display.
- This machine is not designed for cleaning rough or uneven surfaces. Do not operate it on slopes.
- If the battery charger's power cord is damaged, contact an authorized service center immediately.
- In case of emergency, press the emergency stop button on the control panel.
- Always switch off the machine and unplug it from the power source before performing any maintenance.
- Keep the machine out of reach of children. It should not be used or played with by children.
- Stay aware of your surroundings during operation, especially the presence of children or other people nearby.
- Only use the brush provided with the machine or one specified in the "Selecting and Using a Brush" section of the user manual. Using other brushes may lead to accidents.

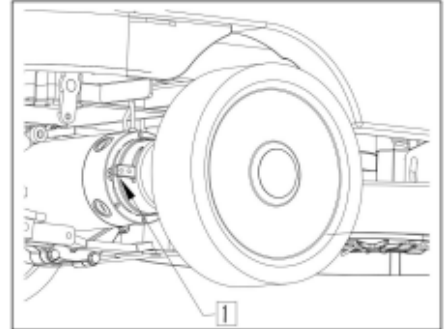
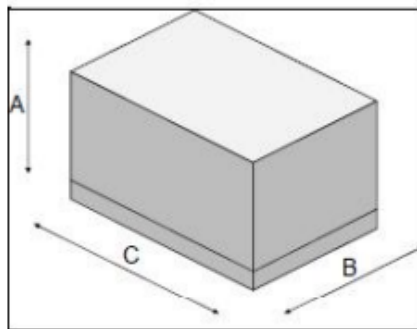
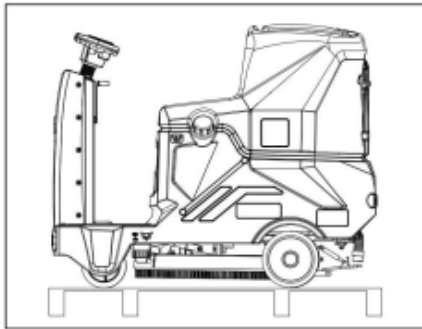
Additional Safety Instructions

- This machine is not suitable for use by children, individuals with physical or mental impairments, or those lacking sufficient knowledge and experience.
- Do not use the machine outdoors or in damp environments. Keep it protected from rain.
- Store the device in temperatures between -25°C and 55°C. Avoid prolonged storage in humid outdoor conditions.
- Operate the machine within a temperature range of 0°C to 40°C and a relative humidity of 30% to 90%.

- Ensure that the power socket (for electric models) or the charger cable (for battery models) is properly grounded.
- Always operate the machine at a safe and appropriate speed.
- This machine is not intended for transportation purposes.
- The equipment does not produce harmful vibrations.
- Do not use the machine in explosive or flammable environments.
- Do not vacuum flammable liquids.
- Do not use the machine to collect hazardous powders.
- Avoid mixing different types of cleaning agents, as this could produce toxic fumes.
- This equipment is not designed for carpet cleaning.
- Do not place any containers with liquids on the machine.
- Avoid using the brush while the equipment is stationary to prevent floor damage.
- In case of fire, use a dry powder extinguisher only. Do not use water.
- Avoid impact with scaffolding to prevent falls. Operators must always wear appropriate safety gear (gloves, protective footwear, helmets, goggles, etc.) while operating the machine.
- The machine is capable of cleaning and drying simultaneously. Keep unauthorized persons away during operation. If the floor remains wet, display appropriate warning signs.
- If the machine malfunctions, first verify whether routine maintenance has been neglected. If not, contact the Technical Assistance Center for support.
- Use only genuine replacement parts from authorized dealers or retailers.
- After completing maintenance, reconnect the appropriate power supply.
- Before operating the machine, ensure all covers, as described in the Operation and Maintenance Manual, are properly secured and functional.
- Do not remove protective devices unless absolutely necessary for maintenance (refer to the manual).
- Do not clean the equipment directly with water or high-pressure washers. Avoid using corrosive cleaning agents.
- To prevent scaling in the solution tank filter, allow several hours to pass after adding cleaning solution before operating the machine.

- Do not use acidic or alkaline substances, as they may cause equipment damage or personal injury.
- Annual maintenance should be performed by qualified professionals.
- Dispose of waste from the machine in strict accordance with local regulations.
- When the equipment reaches the end of its life cycle, dispose of all components—including oils, batteries, and electronic parts—responsibly, as the device is made entirely from recyclable materials.
- Before discarding the equipment, remove and safely dispose of the battery in accordance with local laws.

ASSEMBLY



1. Equipment preparation before unpacking

The machine is packaged on a custom pallet designed for safe forklift loading and unloading. Do not place the packaging directly on top of a forklift. The total weight of the machine and packaging is 297.62lbs (excluding batteries).

Package dimensions:

- A: 47.24 inches
- B: 24.80 inches
- C: 51.97 inches

Steps for Unpacking and Removing the Machine:

1. Carefully remove the outer packaging.
2. The machine is secured to the pallet. The base includes wedges to lock the rollers in place.
3. Release the electronic brake by turning knob (1) clockwise. (Located on the rear right-hand side of the machine.)
4. Remove the wedge blocking the rollers.
5. Use an unloading ramp or rack to remove the machine from the pallet by pushing it backward.
6. Do not attach the rear squeegee before unloading the machine to prevent excessive movement of the brush head. For rubber squeegee assembly, refer to the "Squeegee Assembly" section.
7. Retain the pallet for future transport or relocation.



Note: If the product is delivered in a cardboard box, ensure that appropriate lifting methods are used to comply with statutory safety requirements.



Caution: During operation, always ensure that there are no people or obstacles in the immediate vicinity of the machine to prevent accidents or damage.

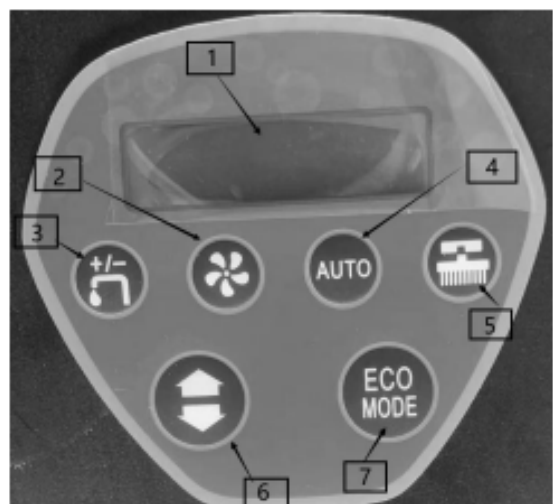
2. How to move equipment

1. Ensure that both the solution tank and wastewater tank are empty. Drain them if necessary.
2. Confirm that the brush head and squeegee are in the raised position.
3. Use a suitable ramp to carefully place the machine onto the pallet.
4. Turn the key switch to the "OFF" position and remove the key.
5. Secure the machine to the pallet using wooden wedges to prevent movement during transport.
6. Activate the electronic brake to further stabilize the machine.

3. Equipment panel components

The dashboard components are identified as follows:

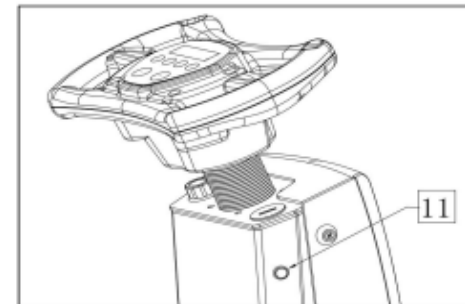
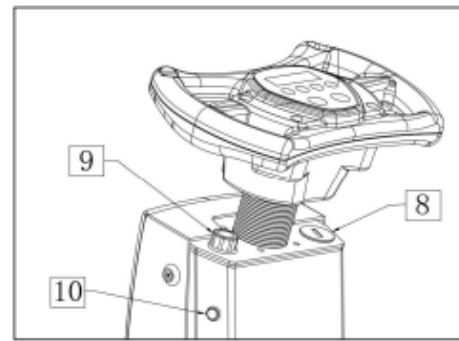
1. LCD battery indicator
2. Fan button
3. Adjust the water volume
4. AUTO Automatic mode
5. Automatic brush loading and unloading button
6. Forward and Back buttons
7. ECO mode



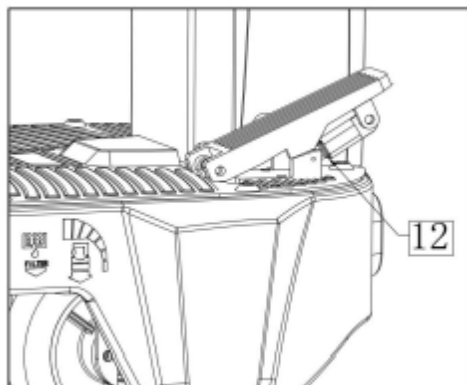
4. Steering column components

The components on the left steering column are:

- 8. Key switch
- 9. Speed knob
- 10. Horn button
- 11. Headlight switch

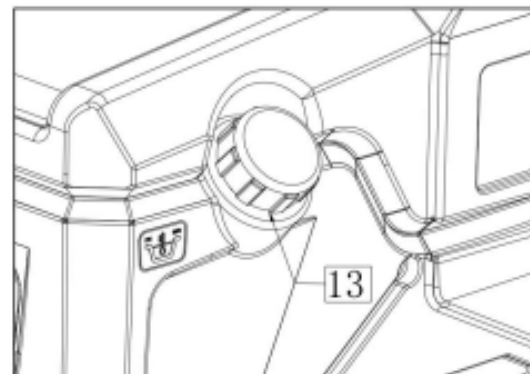


5. Base plate components



Bottom right front component:
12. Driving pedals

6. Machine side elements



The left hand components are:
13. Water filling cap

7. Battery Type

To operate the machine, you must use one of the following battery types:

- Lead-acid battery with liquid electrolyte, or
- Sealed gel battery (gel technology)



Important: Other battery types are not compatible and must not be used.

Batteries must comply with the following standards:

- CEI EN 60254-1:2005-12 (CEI 21-5)
- CEI EN 60254-2:2008-06 (CEI 21-7)

For optimal performance, we recommend using a 12V – 100Ah/C5 battery.

8. Battery Care and Disposal

Please refer to the battery supplier's instructions for proper battery storage and charging procedures.

It is important to select a suitable battery charger, as different battery types and capacities require compatible charging equipment. Always use a professional-grade charger recommended for your specific battery.

When a battery reaches the end of its service life, it must be safely removed from the battery compartment by a qualified technician using appropriate tools and equipment.

Warning: Used batteries are classified as hazardous waste and must be disposed of in accordance with local regulations at an authorized recycling or disposal facility.



Warning: Always wear protective gloves when handling the battery to avoid serious hand injuries.



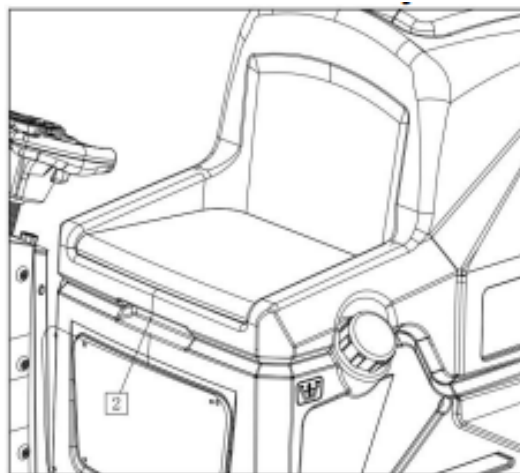
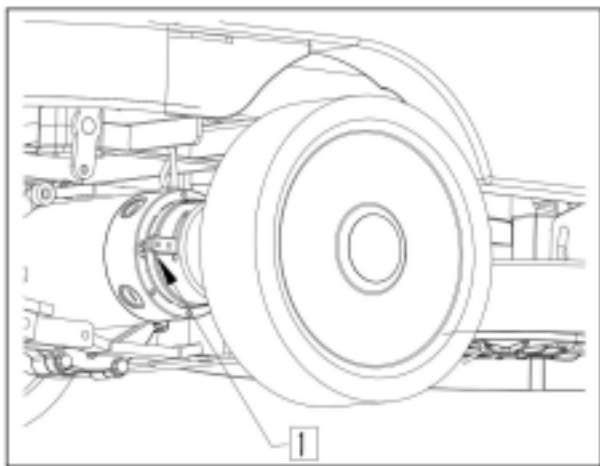
Warning: Use a load handling device (load cell) that is suitable for the size and weight of the battery when removing it from the machine.

9. Battery loading and unloading

The batteries are housed in dedicated compartments located beneath the seat. For safety, always use a lifting tool suited to the battery's size and weight. Batteries must also comply with the CEI 21-5 standard.

Battery compartment dimensions:

14.25 in × 13.94 in × 11.42 in



Warning: For proper battery storage and daily charging, always follow the instructions provided by the battery supplier. All installation and storage procedures should be carried out by qualified technicians.



Warning: To prevent acid leakage, it is highly recommended to use sealed batteries.



Warning: Always wear protective gloves when handling the battery to avoid serious hand injuries.

Battery Installation Steps:

1. Activate the electric brake to lock the machine in place. Then, rotate the layer counterclockwise (1).
2. Ensure that the wastewater tank is completely empty.
3. Lift the wastewater tank by handle 2.

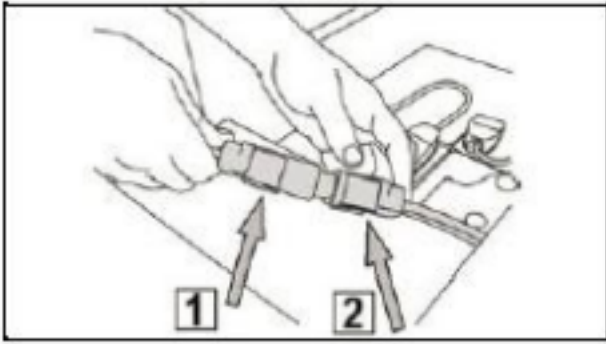


Note: It is recommended to use a lifting tool with the appropriate load capacity and volume for safe loading and unloading.

4. Place the battery into the container with the "+" (positive) and "-" (negative) terminals facing each other.

10. Battery connector and battery connection method

1. Use the provided jumper cables to connect the positive and negative terminals of the batteries in series.
2. Connect the battery connector to the positive and negative terminals to achieve a 24V voltage.



3. Connect the battery connector cable (2) to the machine connector (1).

4. Rotate the seat bracket into its working position.



Warning: All installation and maintenance tasks must be carried out by professionally trained personnel.

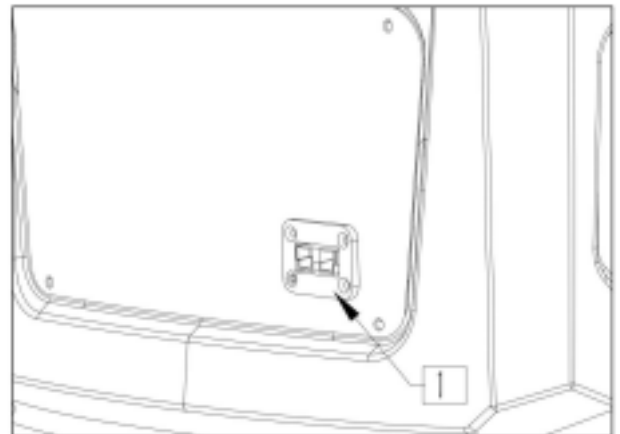
11. Battery Charger Usage

To avoid permanent damage to the battery, do not allow it to fully discharge. Charge the battery immediately after the "low battery" alarm sounds.



Warning: Never allow the battery to fully discharge, even if the machine is not in use. Ensure that the capacity and type of the battery

1. Move the machine closer to a charging power source.
2. Ensure that the wastewater tank is empty. If not, empty it.
3. Verify that the key switch is in the "OFF" position. If it is not, turn it counterclockwise to the "OFF" position.
4. Insert the charger connector into position 1 and plug the other end into a 220V power source.



The battery charger connector is provided in the package and must be installed on the charger cable as per the provided instructions.



Warning: This process must be performed by professionals. Incorrect connections may affect the normal operation of the device.

Warning: Always carefully read the battery charger's operating and maintenance instructions before use.

5. When the charger shows a green light, charging is complete. Unplug the charger.

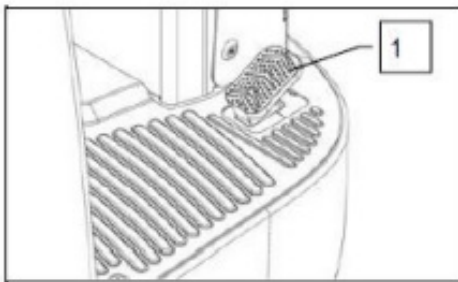


Warning: Risk of gas release and corrosive fluid leakage. Handle with caution.

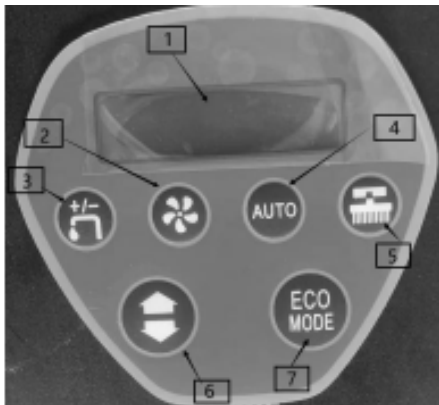


Warning: Fire hazard – Keep the device away from open flames.

12. Forward working speed



This machine is equipped with electronic traction control. To move the machine forward, turn the key to the “ON - I” position and press the traction pedal (1). Adjust the speed by varying the pressure on the pedal.



To move the machine backwards, press the reverse button (6) on the machine panel, then immediately press the traction pedal (1). Adjust the speed by varying the pressure on the pedal.

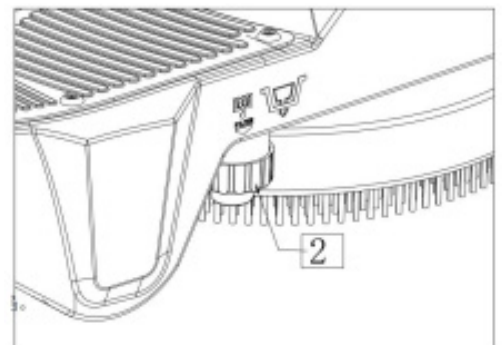
Note: Rearward speed should be slower than forward speed to comply with current health and safety standards.

13. Fresh water tank

Check that the solution tank drain cap (2) (located under the solution tank, to the left of the brush head) is tightly secured.

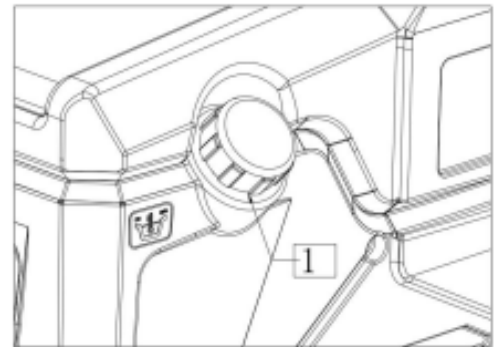


Warning: The recovery tank must be emptied every time the solution tank is filled.



14. Filling the Solution Tank

1. Remove the water filling cap and insert the rubber tube for filling. After removing the inlet cover, ensure that the water temperature does not exceed 50°C. The water level can be checked through the water level pipe located at the left side of the seat.
2. The maximum capacity of the solution tank is 65 liters.
3. Add liquid detergent according to the manufacturer's recommended concentration and instructions on the label. Excessive foam can damage the suction motor, so please only add the minimum required amount of detergent.



Warning: Please refer to the detergent manufacturer's label instructions to determine



This equipment is compatible with acidic or alkaline cleaning agents with a pH value between 4 and 10, provided they do not contain oxidants, chlorine or bromine, formaldehyde, or mineral solvents.



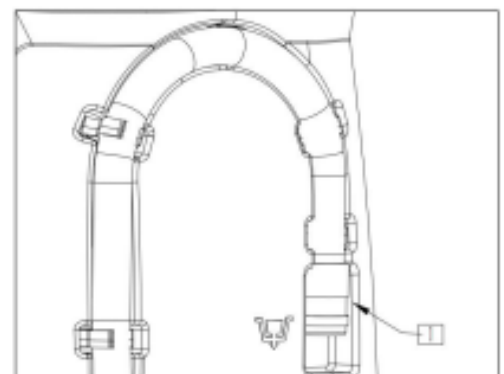
Warning: When handling acidic or alkaline detergents, always wear protective gloves to avoid serious hand injuries.

Warning: Be sure to use low-foam detergent. To reduce foam, inject a small amount of defoaming solvent into the sewage tank before cleaning. Never use pure acid.

15. Wastewater tank

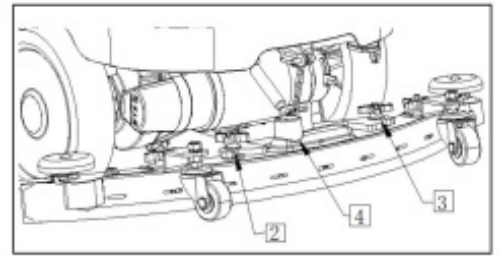
Ensure the sewage tank is empty and clean out any contents immediately.

Check that the drain cap (1) (located at the rear of the machine) is properly closed.



16. Squeegee Assembly

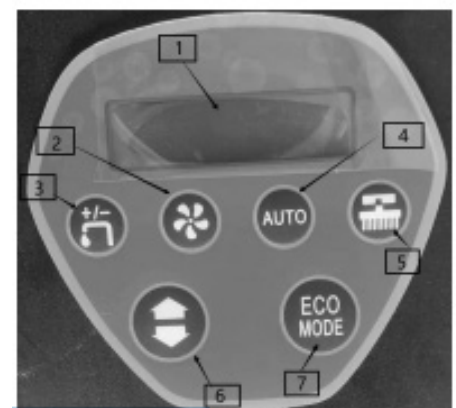
1. Lift the squeegee and turn off all machine functions.
2. Turn the main switch key counterclockwise to the "OFF" position and remove the key from the dashboard.
3. Loosen knobs (2) and (3) on the squeegee pre-assembly.
4. Insert the left squeegee into the left connection slot and tighten knob (2), ensuring the washer and spring are properly supporting the upper squeegee.
5. Insert the right squeegee into the right connection slot and tighten knob (3), again ensuring proper support from the washer and spring.
6. Insert the suction hose into the squeegee's connection sleeve.



Warning: Always wear protective gloves during this procedure to avoid injury from sharp edges or metal parts.

17. Brush Installation

1. Turn on the main power switch, and rotate the key to position "1" in the clockwise direction.
2. Place the brush on the floor near the brush head.
3. Short press button (5) — the brush cover will automatically lower.
4. Once the brush and head are properly aligned, press button (5) again to automatically attach the brush.

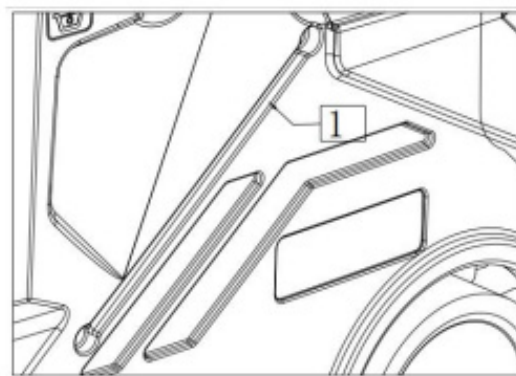


Warning: Keep people and objects away from the brush area during operation to avoid injury.

Warning: Ensure the brush is correctly inserted. Improper installation may cause the machine to behave erratically or move suddenly during operation.

18. Empty water tank device

A liquid level indicator tube (1) is located in front of the driver's seat, allowing the operator to monitor the water level in the fresh water tank.

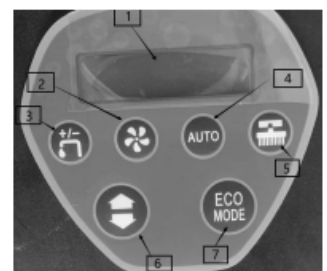
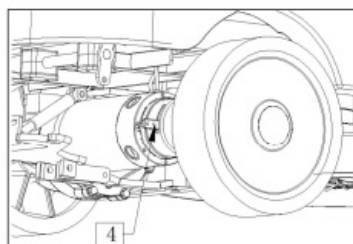
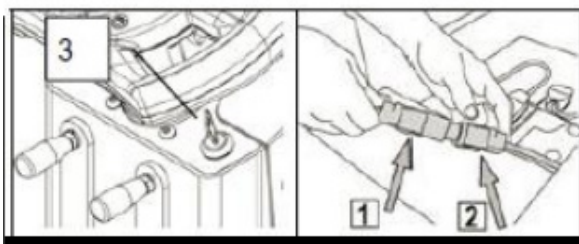


OPERATION

19. Work

Before starting the machine, ensure the following steps are completed:

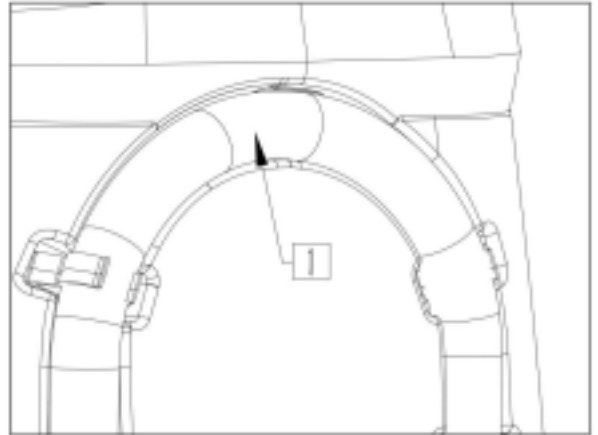
1. Empty the Waste Water Tank – Verify that the waste water tank is empty. If not, empty it completely.
2. Check the Key Switch – Ensure the key switch (3) is in the “OFF” position. If necessary, turn the main switch counterclockwise to turn it off.
3. Connect the Battery – Attach the battery connector to the power source.
4. Verify Electronic Brake Functionality – Ensure that the electronic brake (4) is functioning properly.
5. Sit in the Operator’s Seat – Position yourself securely in the driver’s seat.
6. Power On the Machine – Turn the key on the main switch clockwise by a quarter-turn to the “ON” position. The display screen on the instrument panel should light up.
7. Set Driving Mode – Press button (6) to shift into the forward gear, then press button (4) again to activate AUTO mode.
8. Begin Operation – Gently press the accelerator pedal to start the cleaning process.



Warning: When the front pedal is pressed and the scrubber head is lowered, the solenoid valve will activate, releasing the detergent solution. Additionally, when the squeegee is in the working position, the vacuum motor will begin to operate.

20. Overflow device

Since the capacity of the wastewater tank is larger than that of the fresh water tank, the machine is equipped with an overflow protection system. In case of special circumstances, the wastewater tank is fitted with a mechanical float device. When the wastewater tank reaches its full capacity, a high water level alarm will sound, and the suction motor will automatically stop.



In this situation, follow these steps:

1. Lift the brush head and squeegee off the ground by turning the button on the steering column.
2. Empty the wastewater tank using the drainage hose (1).

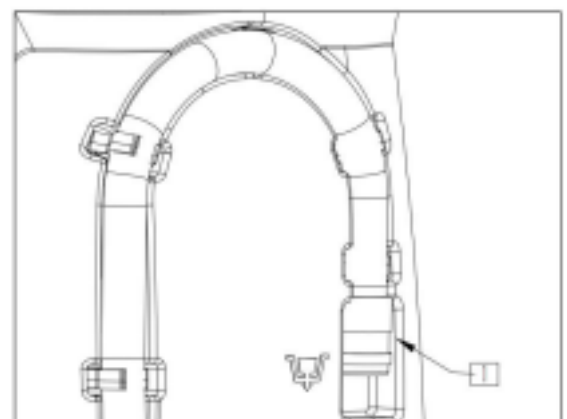
It is a recommended practice to regularly empty the wastewater tank through the drain tube to maintain optimal performance.

EQUIPMENT WORK COMPLETED

21. Equipment work completed

At the end of the cleaning job, before performing any maintenance, ensure the following steps are completed:

- Turn Off the Cleaning Function – Disable the equipment's cleaning function.
- Relocate the Equipment – Move the machine to a location where draining is convenient.
- Power Off the Machine – Turn the key counterclockwise by a quarter-turn to switch off the machine, and remove it from the panel.

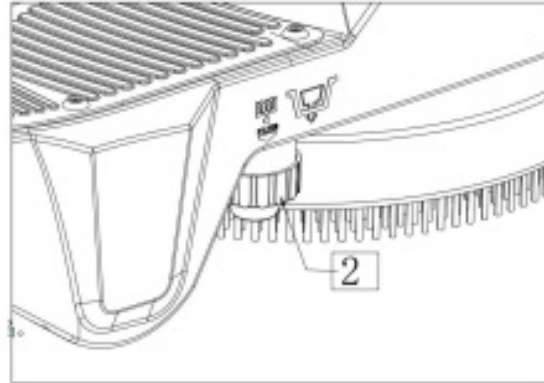
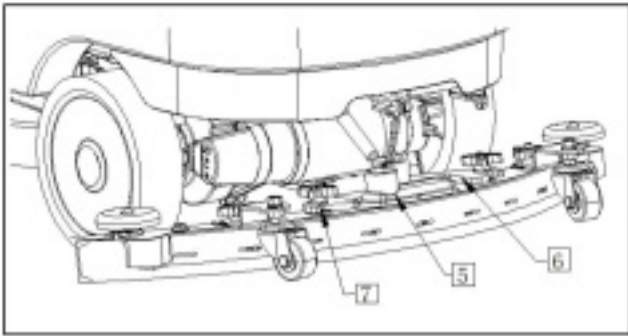




Warning: Before starting any maintenance, ensure the power is turned off and remove the key.



Warning: Wear gloves to avoid direct contact with hazardous liquids during this operation.



- Disconnect the pipe (1) and unscrew the drain cap to empty the sewage tank.
- Move the suction hose (5) away from the squeegee.
- Loosen the hand wheel (7) and remove the squeegee (6) from the support arm.
- Use a water jet to clean the squeegee and the rubber.
- After cleaning, place the squeegee back onto the bracket, first inserting the left plug into the left slot, followed by the right plug.
- Ensure the spring and gasket on the board are protected during this process.
- Tighten the handwheel to secure the squeegee in place.
- Insert the squeegee tube into the special sleeve.
- Open the drain cap (2) until the clean water tank is empty (as shown in the figure).
- Reinstall the drain cap (2).
- Sit in the driver's seat and insert the key into the keyhole.
- Turn the key a quarter turn clockwise to the "on" position.
- Park the machine in a closed, secure area where it cannot be easily accessed by people or other objects.
- Avoid parking the machine in open spaces or on sloped ground.
- Turn the key a quarter turn counterclockwise to the "off" position, then remove the key.



Note: Never leave the machine unattended without removing the key and engaging the parking brake.

Proper Disposal

To responsibly dispose of the machine, take it to a certified dismantling center or an authorized equipment collection facility. Prior to scrapping, ensure the following components are removed, separated, and sent to the appropriate collection centers in compliance with current environmental and health regulations:

- Brush
- Filters
- Electrical and electronic components (*)
- Power supply units
- Plastic parts (e.g., water tanks and handles)
- Metal parts (e.g., levers and frames)

(*) Important: For the proper disposal of electrical and electronic components, please consult your local dealer or an authorized service provider.

SELECTING AND USING BRUSHES

- **Polypropylene Brush (PPL):** Suitable for all types of flooring. It offers good wear resistance and performs well in damp conditions due to its non-absorbent properties. Can be used with hot water up to 140°F.
- **Nylon Brush:** Also ideal for all floor types. It features excellent abrasion resistance and is suitable for use with hot water not exceeding 140°F. However, nylon is moisture-absorbent, which can reduce its effectiveness over time in wet environments.
- **Abrasive Brush:** Designed for cleaning heavily soiled floors. It provides strong scrubbing action but should be used sparingly to avoid floor damage.

Thickness of bristles:

Thicker bristles are more durable and are best suited for smooth surfaces or those with only shallow cracks.

For uneven floors or surfaces with deep crevices, a brush with softer bristles is recommended to ensure easier and more effective cleaning.

As bristles wear down and become shorter, the brush becomes stiffer and less capable of reaching into deep cracks. Using worn, rigid bristles in this condition may also cause the machine to bounce or jerk during operation.

Pad:

The pad holder is ideal for use on clean, glossy surfaces. There are two types of pad holders:

1. Traditional pad holder: Features anchor points that keep the pad in place while it moves across the floor.
2. Center-lock pad holder: In addition to anchor points, it includes a central locking mechanism that securely holds the pad in place, ensuring perfect alignment during operation. This type is especially suitable for use with multiple machines, providing added stability and reliability.

Brush Type Selection

Equipment	Brush Model	serial number	Brush Type	ØBristles	ØBrush	Length	Illustrate
MXR	1	436232	PPL	0.3	560	-	LightBlue
		436233	PPL	0.6			White
		436234	PPL	0.9			Black
		436236	-		535	-	Pad

MAINTENANCE

DAILY MAINTENANCE

Please perform all maintenance operations in order

22. Cleaning the wastewater tank

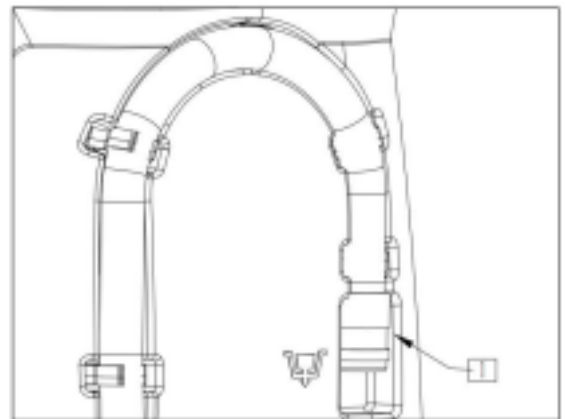
1. Detach the sewage pipe (1), unscrew the drain cap, and fully empty the sewage tank.



Note: Always disconnect the power supply and remove the ignition key before performing any maintenance.parking brake.



Note: Wear protective gloves to avoid direct contact with hazardous liquids.



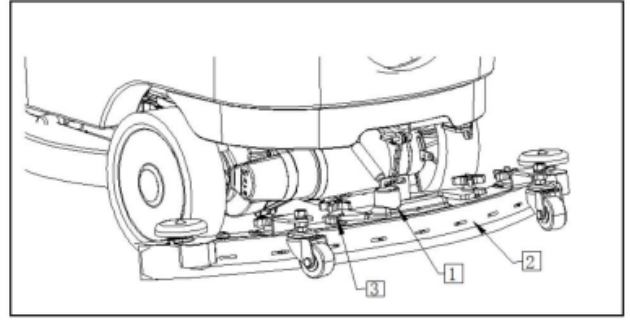
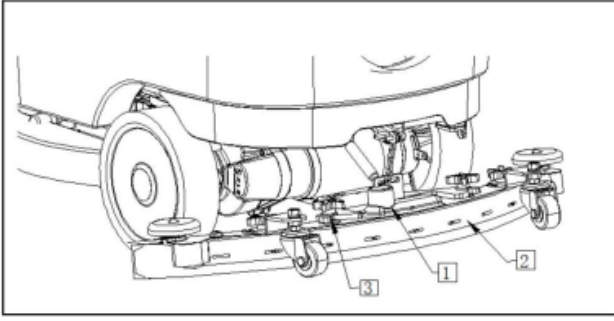
2. Remove the vacuum cover and temporarily place it at the rear of the machine.
3. Thoroughly clean and rinse the sewage tank.
4. Reattach the drain hose cap and return the vacuum cover to its original position.
5. Rotate the wastewater tank back to its standard operating position.



Warning: Ensure the power is disconnected and the key is removed before carrying out any maintenance.

23. Cleaning the squeegee and replacing the blades

To maintain optimal drying performance, floor cleanliness, and strong continuous suction, it is essential to thoroughly clean the entire vacuum unit. Please follow the steps below:



1. Slide the suction hose off the squeegee sleeve (1).
2. Unscrew the handwheel (3) on the support arm and remove the squeegee (2).
3. Clean the front and rear rubber blades using a damp cloth, and wipe down the vacuum chamber of the squeegee.

Note: Always wear protective gloves to prevent direct contact with hazardous liquids.

4. Use a water gun or similar cleaning tool to rinse the inside of the squeegee sleeve thoroughly.
5. Reattach the squeegee (2) to its original position:
 - First, insert the left plug of the squeegee into the left slot.
 - Then insert the right plug carefully.
 - Be mindful to protect the spring and gasket on the board during reinstallation.
 - Tighten the handwheel (3) to securely lock the squeegee in place.
6. Finally, reconnect the suction hose into the squeegee sleeve (1).

WEEKLY MAINTENANCE

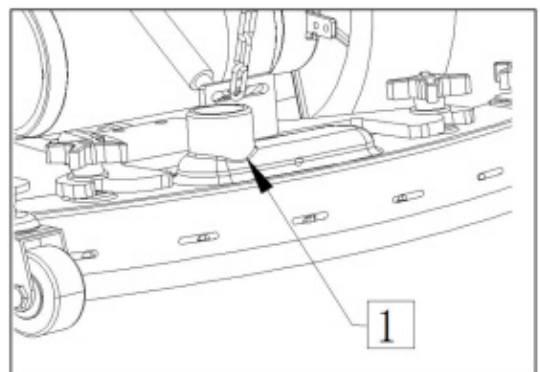
24. Cleaning the sewage suction pipe

If the suction performance is unsatisfactory, first check whether the suction pipe is blocked. If cleaning is required, follow these steps:

1. Ensure the wastewater tank is completely emptied.
2. Confirm that the main power switch is turned to the "0" (OFF) position.
3. Disconnect the suction hose from the squeegee nozzle (1).

Note: Always wear protective gloves to avoid direct contact with hazardous liquids.

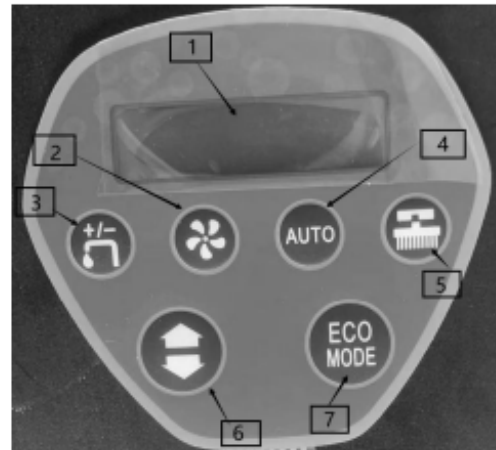
4. Detach the suction tube from the wastewater tank seat.
5. Use a water gun to thoroughly clean the suction hose.
6. Once cleaned, reinstall all removed components securely.



25. Cleaning brushes

To maintain the effective performance of the cleaning brush, follow these steps:

1. Ensure the main switch is turned to position "1".
2. Press and hold the brush release button (5) on the steering wheel for 5 seconds to detach the brush.



Warning: Ensure there are no people or objects near the equipment during this operation.

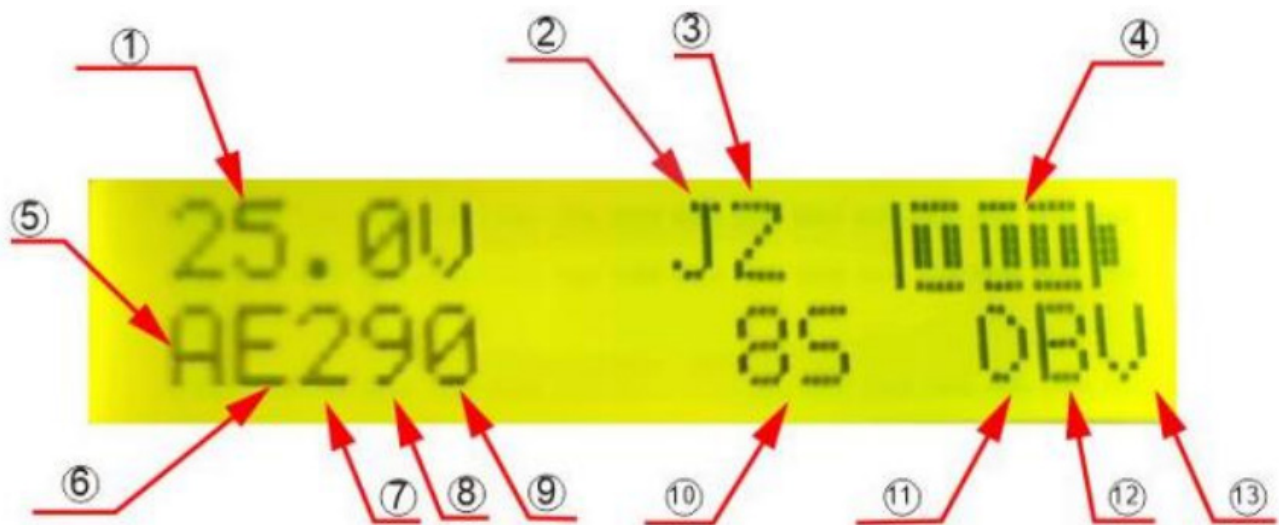
3. Remove the brush and clean it thoroughly using a water gun.
4. After cleaning, reinstall all removed components securely.

TROUBLESHOOTING

Problem	Solution
The device cannot be turned on	Check if the battery is charged. Confirm that the power system connector is connected to the battery. Check that the main switch is turned on (in the ON/I position)
Insufficient water supply to the brush	Check the fluid tank for water. Check whether the valve before the filter is open. Clean the filter located at the front of the unit.
The squeegee does not completely dry	Check if the squeegee is clean. Check the squeegee settings (see "Preparing the equipment for use"). Clean the entire vacuum unit (see "Weekly Maintenance").
The device cannot be cleaned	Check the wear of the brush and replace it if necessary. If the bristles are about 25 mm long, they need to be replaced. If it is a scouring pad, it needs to be replaced every 2-3 days. If the brush is excessively worn, it may cause damage to the floor. Different types of brushes are provided as standard. If the dirt on the floor to be cleaned is particularly difficult to clean, we recommend that you use special brushes according to your needs and our requirements. (See "Selection and use of brushes").
Excessive foam generation	Check whether low-foam detergent is used. If necessary, add a small amount of defoaming liquid to the waste water tank. Remember that when the floor is not very dirty, the appliance will produce more foam. In this case, a more diluted detergent solution should be placed.
Vacuum motor does not work	Check that the waste water tank is empty and empty it if it is not. Check the float on the suction cover (see "Cleaning the Sewage Tank" in "Daily Maintenance").
Brush motor not working	WARNING: To avoid damaging the floor, do not turn on the brush motor until the machine is moving forward. Check if the brush is too low during startup. The operator must be seated. Check whether the thermal protection device has been activated. Check that the motor is properly connected to the terminals under the pedal.

Controller

Interface description



1. Battery Voltage: Displays the current voltage level of the battery.
2. Turning Deceleration Indicator: Flashes "J" when the turning deceleration switch is activated; otherwise, it remains hidden.
3. Seat Sensor: Flashes "Z" when the seat is unoccupied; remains steady when the seat is in use.
4. Battery Level Indicator: Shows the remaining battery charge.
5. One-Key Start Mode: Displays "A" when automatic mode is active; not shown when turned off.
6. ECO Mode: Displays "E" when energy-saving mode is enabled; not shown when disabled. Controlled by the ECO button.
7. Water Volume Settings: Adjustable from 0 to 4, representing different water output levels. Controlled via the water volume adjustment button.
8. Speed Limiter: Adjustable from 0 to 9, with each value representing a different speed setting.
9. Accelerator Pedal: Speed level ranges from 0 to 9 depending on pedal pressure.
10. Operating Time Display:

- "S" shows the total machine run time.

- "B" indicates the brush motor's run time.

- "V" indicates the suction motor's run time. In the event of a malfunction, these displays will be replaced with fault codes.

11. Direction Indicator:

- Default is "D" when moving forward.

- Displays "R" when moving in reverse.

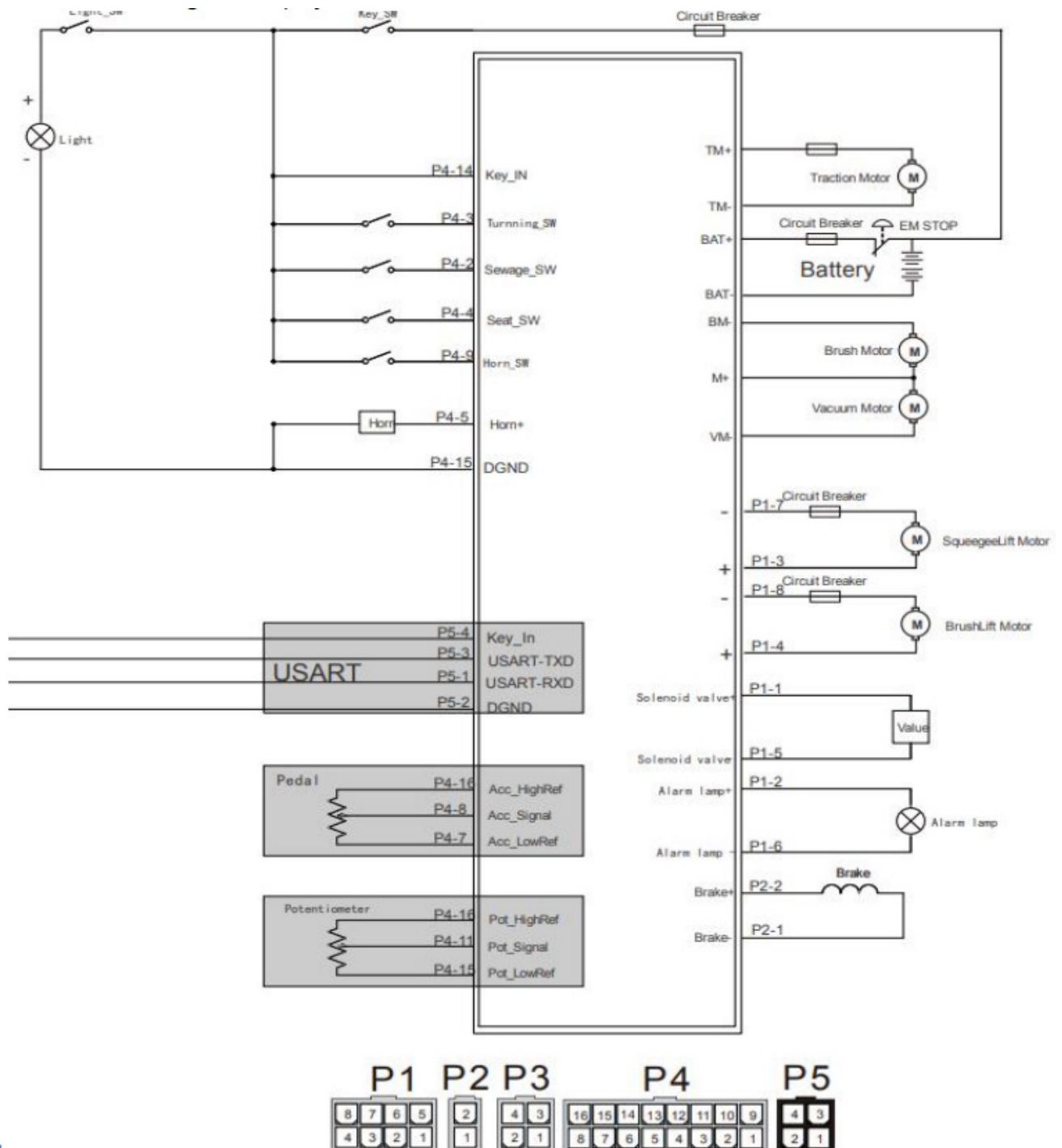
- Controlled by the direction buttons on the control panel.

12. Brush Motor Status:

- Displays "B" when the brush motor is operating.
- Displays "P" when the brush motor is inactive.

13. Suction Motor Status:

- Displays "V" when the suction motor is operating.
- and when it is not working, it is displayed as follows:



"P".

FAULT CODE TABLE

Error Code	LED Flashes	Fault content
E[01]	Flash 1 time	Precharge failure 1
E[03]	Flash 3 times	PVDD1 Overvoltage fault
E[04]	Flash 4 times	PVDD1 Undervoltage fault
E[07]	Flash 7 times	12V-CPU overvoltage fault
E[08]	Flash 8 times	12V-CPU undervoltage fault
E[12]	One slow, two fast	Key switch overvoltage fault
E[13]	One slow, three fast	Key switch undervoltage fault
E[14]	One slow, four fast	Battery undervoltage fault
E[15]	One slow, five fast	Battery overvoltage fault
E[16]	One slow, six fast	Low battery voltage limit fault
E[17]	One slow, seven fast	Battery voltage limit high fault
E[25]	Two slow, five fast	UART Overvoltage fault
E[26]	Two slow, six fast	UART Undervoltage fault
E[29]	Two slow, nine fast	Relay 1 connection fault
E[30]	Slow flash three times	Travel motor A phase NTC fault
E[31]	Three slow, One fast	Travel motor B phase NTC fault
E[32]	Three slow, Two fast	Brush motor NTC fault
E[33]	Three slow, Three fast	Suction motor NTC failure
E[34]	Three slow, Four fast	Travel motor A control temperature is too high fault
E[35]	Three slow, Five fast	Travel motor A control temperature limit high fault
E[36]	Three slow, Six fast	Travel motor B control temperature is too high fault
E[37]	Three slow, Seven fast	Travel motor B control temperature limit high fault
E[38]	Three slow, Eight fast	Brush disc motor control temperature is too high fault
E[39]	Three slow, Nine fast	Brush disc motor control temperature limit high fault

Error Code	LED Flashes	Fault content
E[3A]	Three slow, Ten fast	Suction motor control temperature is too high fault
E[40]	Slow flash Four times	Suction motor control temperature limit high fault
E[41]	Four slow, One fast	Walking motor A-phase MOS voltage high fault
E[42]	Four slow, Two fast	Walking motor A-phase MOS voltage low fault
E[43]	Four slow, Three fast	Walking motor B-phase MOS voltage high fault
E[44]	Four slow, Four fast	Walking motor B-phase MOS voltage low fault
E[45]	Four slow, Five fast	Brush disk motor MOS voltage high fault

WARRANTY

LIMITED WARRANTY:

Dapper Supply, Inc. extends a limited warranty to the original purchaser, guaranteeing that this Dapper product is free from manufacturing defects in material or workmanship for three years from the date of purchase.

Should you discover any such defect within the warranty period, Dapper Supply, Inc. reserves the right to repair or replace the product without charge, or to cover the cost of replacement parts and repair labor needed to correct defects present at the time of purchase or resulting from regular usage, when the appliance has been installed, operated, and maintained as per the instructions provided.

At its sole discretion, Dapper Supply, Inc. may decide to replace the product. In such an event, your replacement appliance will carry the warranty for the remaining term of the original unit's warranty period.

This warranty is valid exclusively to the original purchaser of the product and only applicable within the United States. The warranty commences from the date of original consumer purchase. Proof of the original purchase date will be required to obtain service under this warranty.

Under this limited warranty, your sole and exclusive remedy will be product repair, as outlined above. All services must be provided by a Dapper-designated service company.

To claim warranty or request repair service:

Email support@dapper.com. Please include your name, address, phone number, warranty repair request, and a copy of your proof of purchase receipt. Alternatively, visit dapper.com and use the contact us page. A Dapper customer service representative will promptly arrange service for your appliance.

We thank you for choosing Dapper.

WARRANTY EXCLUSIONS:

This limited warranty will not cover:

1. Failure of the product to perform during power failures or interruptions, or due to inadequate electrical service.
2. Damage incurred during transportation or handling.
3. Damage caused by accidents, vermin, lightning, winds, fire, floods, or acts of God.
4. Damage resulting from accidents, alterations, misuse, abuse, improper installation, repair, or maintenance. This includes using any external device that alters or converts the voltage or frequency of electricity.
5. Unauthorized product modifications, repairs by unauthorized centers, or use of non-approved replacement parts.
6. Abnormal cleaning and maintenance not aligned with the user's manual.
7. Use of incompatible accessories or components.
8. Any costs associated with repairs or replacements under these excluded circumstances shall be the responsibility of the consumer.

DAPPER