



**E100  
Portable Scrubber for Hard Surfaces**

**Owner's Manual**



 [ericleanusa.com](http://ericleanusa.com)

 [info@ericleanusa.com](mailto:info@ericleanusa.com)

## TABLE OF CONTENTS

<b>Preface.....</b>	<b>3</b>
<b>Safety Symbols.....</b>	<b>4</b>
<b>Introduction.....</b>	<b>5</b>
<b>Specifications.....</b>	<b>6</b>
<b>Warranty.....</b>	<b>7</b>
<b>Description.....</b>	<b>7</b>
<b>Safety.....</b>	<b>8</b>
<b>Operation.....</b>	<b>9</b>
<b>At the Job Site.....</b>	<b>13</b>
<b>Cleaning and Storage.....</b>	<b>16</b>
<b>Maintenance .....</b>	<b>17</b>
<b>Troubleshooting.....</b>	<b>20</b>

## Preface

Thank you for choosing the ERIClean E100 Portable Scrubber for Hard Surfaces. The E100's compact design allows you to clean right to the edge and under obstacles, minimizing manual scrubbing. The battery-operated E100 is equipped with two counter-rotating brushes that provide a deep scrub and a great cleaning result. The E100 significantly reduces the amount of water and chemicals needed which leads to a greener result and reduces the risk of slippery floors.

Please read this manual carefully for important information and operating instructions before using the E100. Save this manual for future reference. The best results will be obtained when the E100 is:

- Regularly maintained per the E100 preventive maintenance instructions in this manual.
- Operated with reasonable care and caution.
- Maintained with manufacturer-supplied parts.

## User Manual

This user manual provides users with information to use the E100 correctly, efficiently, and safely. The user manual contains instructions regarding:

- Personal operator safety
- Intended and non-intended use of the E100
- Instructions for daily use
- Maintenance instructions
- Storage conditions
- Disposal of the E100

These instructions must be considered to avoid risks that could lead to physical and/or material damage.

## Target Audience








This user manual is intended for operators of the E100 and their supervisors, as well as partners and importers.

## E100 Operators

The E100 may only be operated by a person who has correctly read and understood the instructions in this manual or is trained by an experienced operator who has read and understood the instructions in this manual.

## Safety Symbols

The following symbols and terms are used throughout this manual to alert the reader to safety issues and important information:

SYMBOL	TERM	EXPLANATION
	WARNING	Indicates a hazardous situation which, if the safety instructions are not followed, can lead to injuries of the operator or bystanders and light or moderate damage to the product or the environment.
	CAUTION	Indicates a hazardous situation which, if the safety instructions are not followed, can lead to light and/or moderate damage to the product or the environment.
	ATTENTION	Indicated a liability situation, where the manufacturer or its partners and affiliates cannot be held accountable for damages caused by non-compliance.
	STRONG MAGNET	Indicates the machine contains strong magnets. These can cause pacemakers to stop working or cause electronic data to be damaged, such as information stored on access passes.
	PACKMAKER	Indicates operator and maintenance crew wearing pacemakers should keep a minimal distance of 6in/15cm, in this specific case operators may not use the machine as a backpack.
	BATTERIES	Indicates a battery-operated machine. Batteries must be charged according to the instructions in the separate Class I Battery Charger User Manual. Batteries must be disposed of according to your local laws and regulations.
	SLIPPERY SURFACE	Indicates the machine can cause floors to become slippery. In the workplace, place slippery surface signs in these areas.

## Introduction

The E100 Portable Scrubber for Hard Surfaces is an easy and safe machine to use. This user manual helps you get started and explains the operation and maintenance procedures. The batteries must be fully charged before use. Please refer to the user manual of the Class I battery charger for correct procedures.

This manual is intended for those who work with the E100 and/or perform daily maintenance. The manual must be read in full before the first actions. This manual describes the correct method of use, safety measures, maintenance, and transport.

### Intended Use of the E100

The E100 is a specialized machine for scrubbing hard floor surfaces. You can use any type of water-based scrubbing detergent.



### Non-intended Use of the E100

Non-intended use can have consequences for the safety of operators and bystanders and will void the product's warranty.

- NEVER operate the E100 near flammable dusts, liquids, or vapors.
- NEVER operate the E100 when flammable or poisonous liquids like gasoline, oil acids, or other volatile substances are on the floor.
- DO NOT fill the E100 with any flammable detergent. ONLY use water-based cleaning solutions.
- DO NOT use water that exceeds 113°F/45°C. Using water above this temperature will void the tank warranty.
- DO NOT use cleaning solutions with a pH below 3 or above 11 to prevent damage to sensitive components.
- DO NOT use the E100 outdoors or on uneven surfaces.
- DO NOT operate the E100 over electrical floor outlets to avoid electrical shock.
- NO RIDERS! Do not carry passengers on top of the E100.
- DO NOT use the E100 as stepladder or platform.
- DO NOT store the E100 outside to avoid damage to electronic components.
- ONLY use manufacturer-supplied parts for maintenance.
- KEEP AWAY from children! The E100 is a professional cleaning machine to be used by trained adults only.



### Lifespan

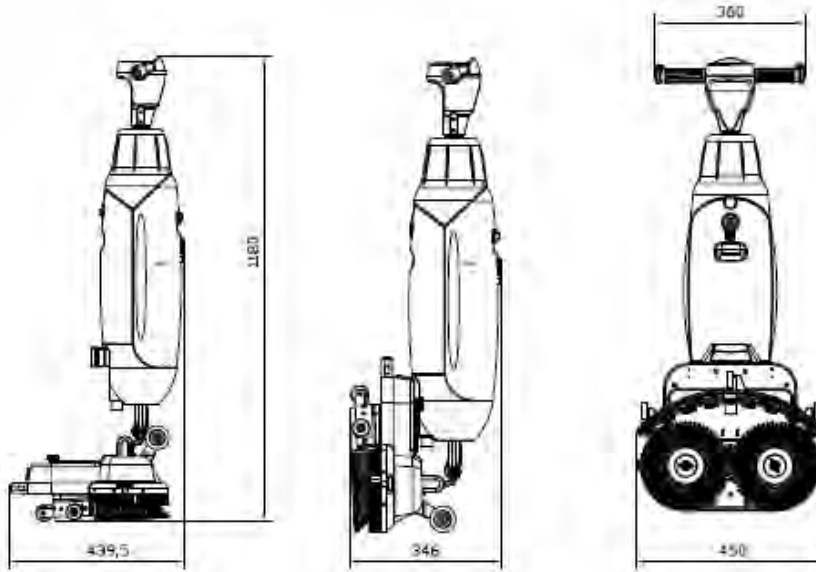
The E100 has a three-year warranty. The wear on the brushes and squeegee depends on the roughness of the surface; both need to be checked regularly.

To ensure proper and safe operation throughout the life of the E100, the machine must be checked every 500 hours by an authorized partner.

**Modifications**

It is not permitted to make modifications to the design of the E100 without consultation and permission from the manufacturer. This affects the warranty.

**Specifications**



ITEM	DATA SHEET
Rated Voltage	DC-36V
Working Efficiency	3,280 sqft <sup>2</sup> /h
Cleaning Width	17 in
Brusher Dimension	8 in x2
Brush Speed	0-350 rpm
Brush Motor Power	120W
Brush Pressure	50 lbs
Vacuum Motor Power	120W
Vacuum Degree	10-12KPa
Detergent Tank Capacity	4L
Recovery Tank Capacity	6.5L
Noise	65 db
Battery Working Hours	130-160 min
Battery Size	12Ah
Net Weight	43 lbs
Dimensions	45" x 21" x 15"

## Warranty

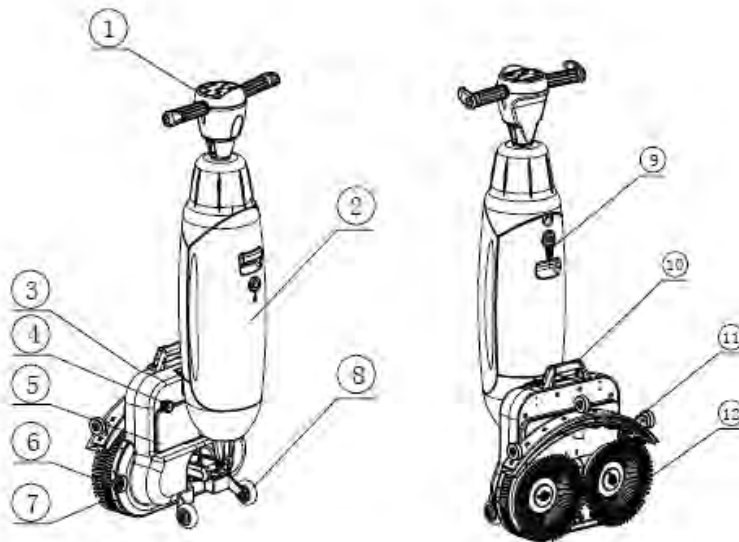
The E100 should be used as intended and described in this manual. Using the E100 outside of the recommended usage will void the product's warranty.

## Description

The E100 consists of two main parts:

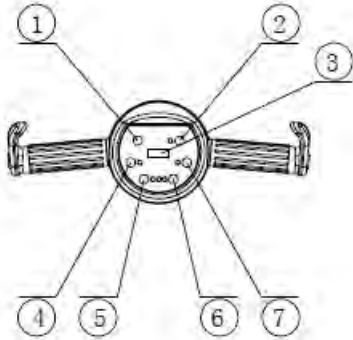
- The body that contains the motors (one vacuum motor, two brush motors), cleaning solution tank, recovery tank, handle, and control panel with three functional buttons, and one power display window.
- The scrub deck that contains the brushes and squeegee.

The E100 can be folded into a park position; this is recommended for storage. The E100 consists of:



1	Top handle	7	Surrounding fence
2	Recovery tank	8	Caster wheels
3	Scrub deck	9	Solution tank
4	Battery pack box knob	10	Carrying handle
5	Battery pack box	11	Squeegee assembly
6	Bumper wheels	12	Brushes

The main section of the top handle consists of:



1	Power switch (ON/OFF)	5	Brush on/off button
2	Water pump on/off button	6	Speed Adjustment – for low “-“
3	Battery indicator	7	Speed Adjustment – for low “+”
4	Vacuum on/off button		

## Safety

Safety comes first. Therefore, please take your time to read and understand these safety instructions. Improper use may cause harm to the user and others or void the manufacturer’s warranty.

### General Safety Instructions

- **Sweep Before Scrub:** Remove objects from the floor that can be propelled by the rotating brushes.
- **Check Brush Condition:** Make sure to check the condition of the brushes before use. Change the brushes only when the machine is turned off and in a park position.
- **Follow Proper Machine Orientation:** Always keep the body of the E100 in an upright position when cleaning fluid or batteries are inserted.



### Strong Magnets

Please be aware of the integrated magnets that hold the fluid tanks in place.





### Warning

Operators and maintenance crew wearing pacemakers should keep a minimal distance of 6 in/15 cm.



### Battery Pack

Always use the automatic battery charger provided by the manufacturer. During normal operation, the 36V battery causes no safety hazard on their own.

## Operation

### Risks During Operation

- **Dress Safely:** Do not wear a necktie, scarf, or any loose or dangling clothing or jewelry while operating the E100. These can tangle in rotating parts, causing serious injury or death.
- **Mark the Job Site:** The E100 is designed to leave a dry floor without slippery patches. No additional drying is required. When running the E100 with the vacuum function OFF, please mark the job site with a wet floor marker.
- **Careful When Parking:** Do not park the E100 on ramps or slopes. Always park the E100 on a level, hard surface.



### Caution

Marking the job site with a wet floor marker is not required when using the vacuum function of the E100. Unless this is a mandatory work safety requirement by local law. When unsure: mark the job site to warn passersby.

### Risks After Operation

- **Remove Battery Pack:** It is best practice to remove the battery before executing any cleaning or maintenance task, or before storage.
- **Machine Orientation:** Always keep the body of the E100 in an upright (park) position when replacing brushes or squeegee.

## Transport and Storage



- **General:** Always keep the body of the E100 in an upright position when filling the cleaning solution tank or inserting the batteries. Before storage or transport, drain the machine and remove the batteries after each use.
- **Park Position:** The park position is the upright vertical position for storage and maintenance tasks.
  - Make sure the vacuum hose is pushed back into the machine so it cannot get squeezed.
  - Crouch down and hold the handle with one hand while holding the scrub deck with your other hand.
  - Lift the scrub deck slowly until it stands upright on the front wheels. Guide the body toward the scrub deck until it snaps into a resting position.

## Transport Outside

### When Outside:

- Put the E100 in park position (refer to image on page 12).
- Carry the E100 with one hand while holding the handle with your other hand.



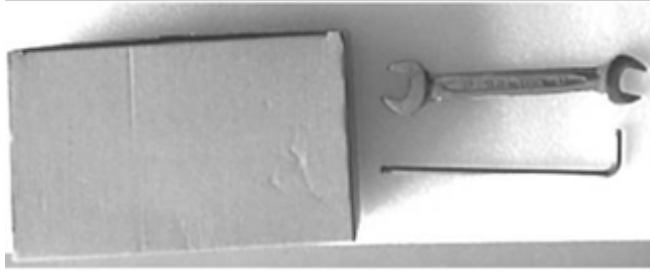
The transport wheels are not designed to roll over dirty surfaces; sand can cause the wheels to block. Lift the E100 while transporting the machine from one building to another.

## Assembly and Installation

The E100 requires little assembly aside from inserting the wire connectors in the battery pack.

### Unboxing

The E100 comes with one charger and two tool sets. One charger, a wrench, and one hexagon screw wrench are included (refer to image on page 11).



## Before Operating the E100

### Charge the Battery

Charge the battery pack when it is correctly connected in the machine. Make sure the battery pack is charged monthly.

### Thoroughly Check the E100

- Check the brushes and squeegee for wear and tear.
- Check the battery level. During operation, the battery indicator on the control panel shows the amount of power left. **It is not recommended to use the battery when charged below 40%.**
- Fill the cleaning solution tank.
  - Remove the stopper.
  - Pour in a maximum of 18gal/4L of cleaning fluid.
  - Replace the stopper and make sure it seals tight.
  - Put the E100 in park position.
  - Put the tank on the E100 with the valve first.
  - Press the tank downward to break the valve seal.
  - Push the tank into place until you hear a "click."
  - Clean your hands.



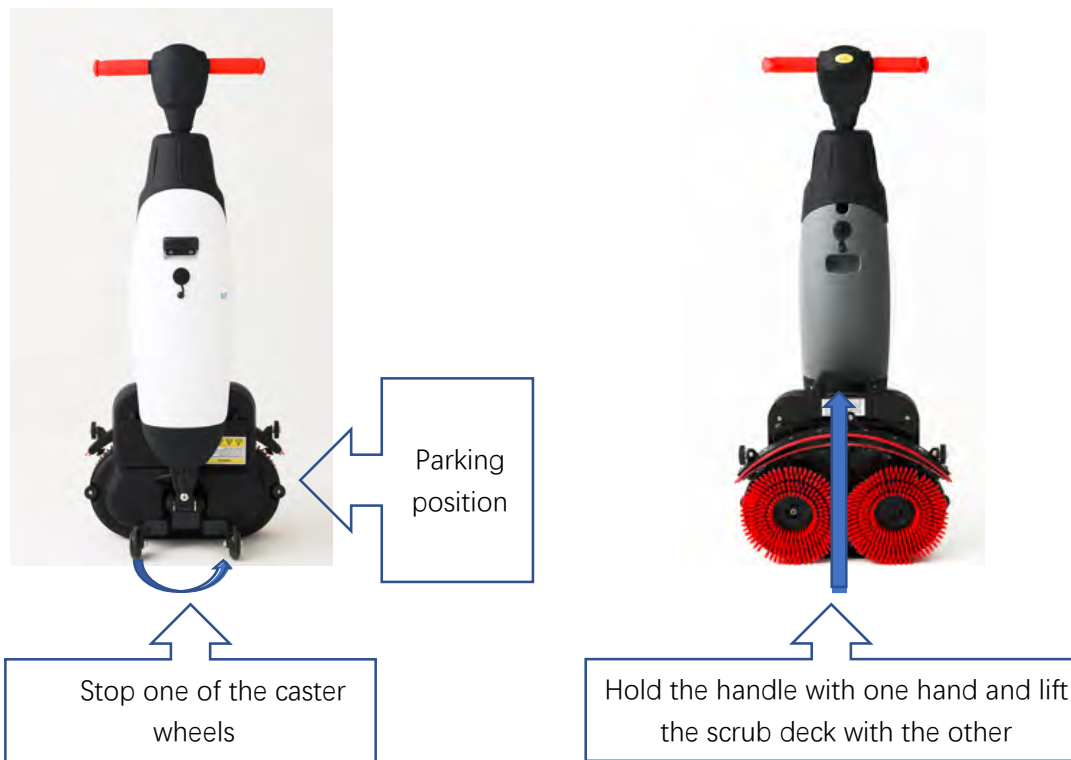
## Operation Procedure

### Walking to the Job Site

To move the E100 from one location to another one in a building:

- Put the E100 in park position (refer to the below image).
- Hold the handle with one hand (refer to the below image).
- Walk slowly and pay extra attention if you pull the E100 over obstacles.
- To lift the E100 over obstacles, always use two hands.
  - Hold the handle with one hand.
  - Lift the scrub deck with the other hand

Reminder: If the floor is flat, you can also rely on the caster wheels for easy movement.



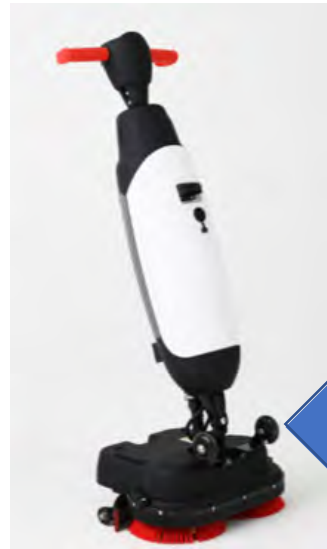
**Attention:** Ensure the recovery tank is empty before transporting the machine on its caster wheels.



(Step 1 & 2)

Push the handle forward with your other hand

Crouch down while holding the carrying handle of the scrub deck firmly with one



(Step 3)

To stop one of the caster wheels



**WARNING**

Never push down the scrub deck with your foot.

**At the Job Site**

1. Crouch down while holding the carrying handle of the scrub deck firmly with one hand.
2. Push the handle forward with your other hand.
3. Bring the scrub deck slowly down to the floor.
4. Stand behind the E100.
5. Choose your cleaning mode via the mode buttons/switches (refer to image on page 14) after pressing down the main On/Off switch first at the rear side of the control panel (refer to image on page 14).
6. The battery indicator will illuminate.
7. Hold the handle with both hands.
8. Walk behind the E100.
9. Steer by gently turning the handle left or right to move the scrub deck.



MODE 1: Vacuum only (press the Vacuum button). The E100 will not move forward automatically.

MODE 2: Brush only (press the Brush button). The E100 will move forward automatically.

MODE 3: Water/cleaning solution only (press the Water Pump button). The E100 will not move forward automatically.

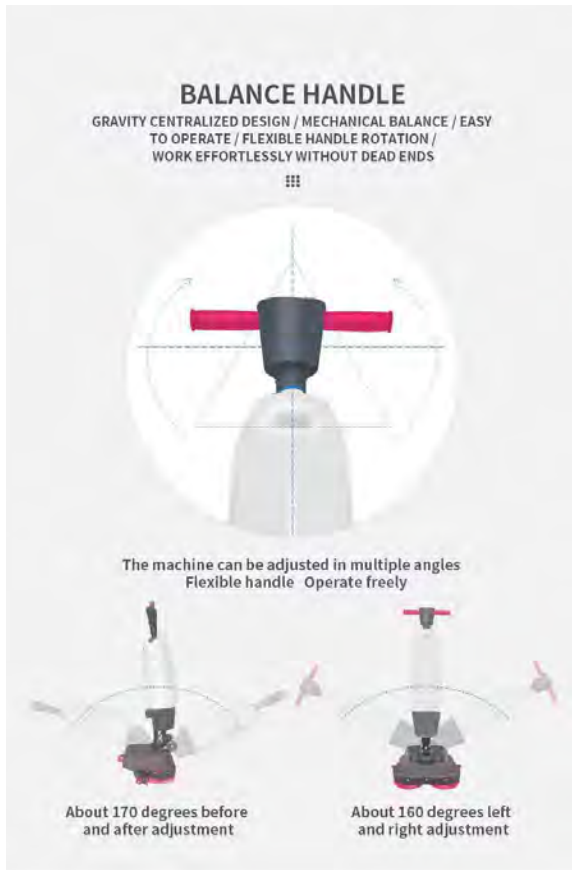
MODE 4: Vacuum + Brush (Press the Vacuum and Brush buttons).

MODE 5: Vacuum + Water/cleaning Solution (Press the Vacuum and Water Pump buttons).

MODE 6: Brush + Water/cleaning Solution (Press the Brush and Water Pump buttons). The E100 will not move forward automatically,

MODE 7: Brush + Water/cleaning Solution + Vacuum (Press Brush, Water Pump, and Vacuum buttons). The E100 will move forward automatically, cleaning the floor with water and vacuuming automatically.

\*Pressing the Water Pump button twice will increase solution flow.



To stop cleaning the floor:

1. Press the Water Pump button to stop the water releasing;
2. Press the Brush button to stop the brush. After pressing the Brush button, continue moving forward with the E100 for approximately 15-30 feet.
3. Press the Vacuum button to stop the vacuum.
4. Press the On/Off button to power off the E100.

**Note:**

Pressing the main On/Off switch will immediately stop the E100. For best results, we recommend first turning off the Water Pump button and continuing moving the E100 forward for approximately 15-30 feet to ensure any remaining dust or water is removed from the floor.



**Warning!**

- Do not operate the E100 at greater than an arm's length. Operating below a 45-degree angle can cause water to run into the vacuum engine.
- Dispose of water or cleaning solution from both tanks in an appropriate drain.

- Even though the recovery tank is larger than the cleaning solution tank, be sure to empty it each time the cleaning solution tank is filled.
- Please observe the local regulations regarding solution disposal related to wastewater treatment.
- Be sure to completely flush the tanks and any remaining solution in the lines and valves.

## Cleaning and Storage

1. Refill the solution tank with 0.5 to 1L of clean water.
2. Use the E100 main On/Off switch and choose MODE 7 Brush + Water/Cleaning solution + Vacuum by pressing all three buttons.

### Cleaning the Tanks

1. Dispose of water or cleaning solution from the solution and recovery tanks in an appropriate drain.
2. To thoroughly clean the recovery tank:
  - a. Partially fill the tank with fresh water and hold it horizontally with the holes facing up.
  - b. Tilt the tank repeatedly, thoroughly rinsing all the dirt and debris out from the tank.
3. To clean the solution tank, follow the same procedure.

### **TIP: Dry the tanks.**

Slightly open both tank caps before storage to allow the tanks to dry.

### Check the Brushes and Squeegee

1. Check to see if both brushes are clean and intact.
  - a. Clean the brushes under fresh water or replace them, if necessary.
  - b. Replace brushes if the yellow wear indicator is at the same height as the bristles.
2. Check to see if the squeegee is clean and intact.
  - a. Clean the squeegee with fresh water and wipe it with a clean, damp cloth.
  - b. Replace the squeegee blades when necessary.

### Store in an Upright Position

1. Ensure that the E100 is parked in a place where it cannot be disturbed or damaged.
2. Put the E100 in the park position.
3. Store the E100 close to a wall with the handle pointing toward the wall and the brushes facing away from the wall.



## Maintenance

### Brush Replacement

1. Put the E100 in the park position.
2. The brushes connect to the machine by magnetic force. Simply grab the left and right side of the brushes (stripping pads holder) using both hands and pull the brush out from the machine.
3. Visually inspect the motor disks.
4. Clean the E100 scrub deck with a clean, dry cloth before you install the brushes or stripping pads holder.

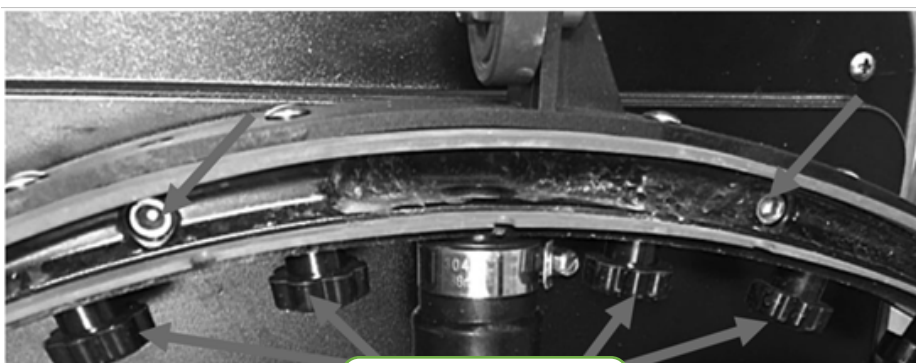


### Squeegee Replacement

The squeegee blades come in pairs and wear out over time. When you notice the floor is no longer being dried properly, replace the squeegee blades.

#### Detach the Squeegee

1. Put the E100 in the park position.
2. Hold the scrub deck firmly with one hand.
3. Use the supplied hex wrench to remove the two hexagonal screws inside the squeegee.
4. Pull out the squeegee properly.
5. Remove the vacuum hose from the squeegee by twisting the hose.



8 plastic nuts

#### Flip/Replace the Squeegee Blade

1. Unscrew the eight plastic nuts on the back (refer to the above image).
2. Remove the squeegee rear plate.

3. Once the plastic part is removed, you can easily take off the rear rubber blade.
4. Push the eight screws through the front blade to remove the squeegee front plate.
5. Take off the rear rubber blade.
6. Inspect the front and rear rubber blades:
  - a. The first time: Flip the blades so the top of the blade is facing the floor. Push the front plate screws through the holes.
  - b. The second time: Attach a new set of blades. Push the front plate screws through the holes.
7. Put back the plastic rear plate.
8. Screw the eight plastic nuts on the back.

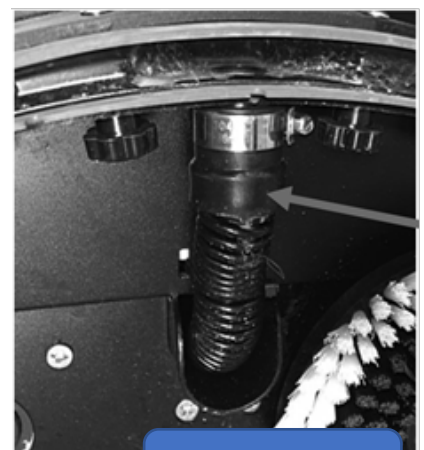


**Caution:** The special squeegee blades contain small arrow-like shapes cannot be switched. These need to be replaced every time.



### Attach the Squeegee

1. Take the vacuum hose.
2. Insert the hose connector (see image to right) in the squeegee.
3. Twist the hose connector one quarter turn for a firm fit.
4. Carefully pull the vacuum hose from the top of the machine.
5. Hold the scrub deck firmly with one hand.
6. Align the pins on the scrub deck with the holes on the squeegee.
7. Screw the squeegee in place.



Hose connector

## Replace the Vacuum Hose

1. Detach the squeegee as described in above sections.
2. Remove the solution tank. You can see where the vacuum hose is connected at the E100 handle.
3. Hold the scrub deck firmly with one hand.
4. Detach the vacuum hose by twisting the connector one quarter turn counterclockwise.
5. Carefully pull the vacuum hose from the top of the machine.
6. Guide the new vacuum hose via the opening to the hose connector located on the E100 handle.
7. Connect the top to the hose connector by twisting the clockwise one quarter turn until they have lined up.
8. Reinstall the squeegee.

## Recommended Additional Cleaning

Clean the exterior of the E100 weekly with a non-abrasive, non-solvent cleaner or a clean, damp cloth. To clean the scrub deck, remove the brushes first.

## Decommissioning and Disposal

It is the responsibility of the E100 owner to dispose of the product responsibly. After decommissioning, the E100 still contains valuable resources and needs to be disposed of according to your local laws and regulations regarding recycling of electrical equipment.



Before disposal please:

1. Flush the machine properly.
2. Remove the battery pack for separate disposal.

3. Remove all loose components like brushes, tanks, and squeegee.
4. Dispose all items according to your local laws and regulations.

## Troubleshooting

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
No power	No battery pack	Install battery pack
	Empty battery pack	Charge battery pack
	Battery pack incorrectly connected	Reconnect battery pack
Insufficient/No water flow	Wrong button on	Check the button on the control panel
	Main On/Off button is "off"	Check the main On/Off button
	Empty tank	Fill the tank
	Tank incorrectly placed	The tank valve must be clicked on the nipple to open the seal. Reseat the tank.
	Filter blocked	Ensure there are no dirt particles in the solution tank and that the filter is clean
	Blocked water pipe	Request professional service
Poor water recovery	Squeegee opening blocked	Remove the water pipe and clean the squeegee opening
	Tears in squeegee blades	Replace squeegee blades
	Filter blocked	Check the foam filter and clean it, if necessary
	Vacuum hose blocked	Check and remove blockage
	Vacuum motor not running	Request professional service
Leakage	Tanks incorrectly placed	Check and reattach fluid tanks
	Tear in vacuum hose	Replace vacuum hose or request professional service
Battery not charging	Battery is at end of life	Replace battery