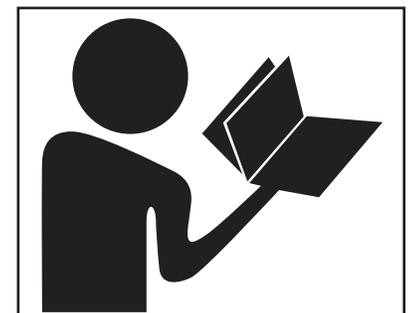
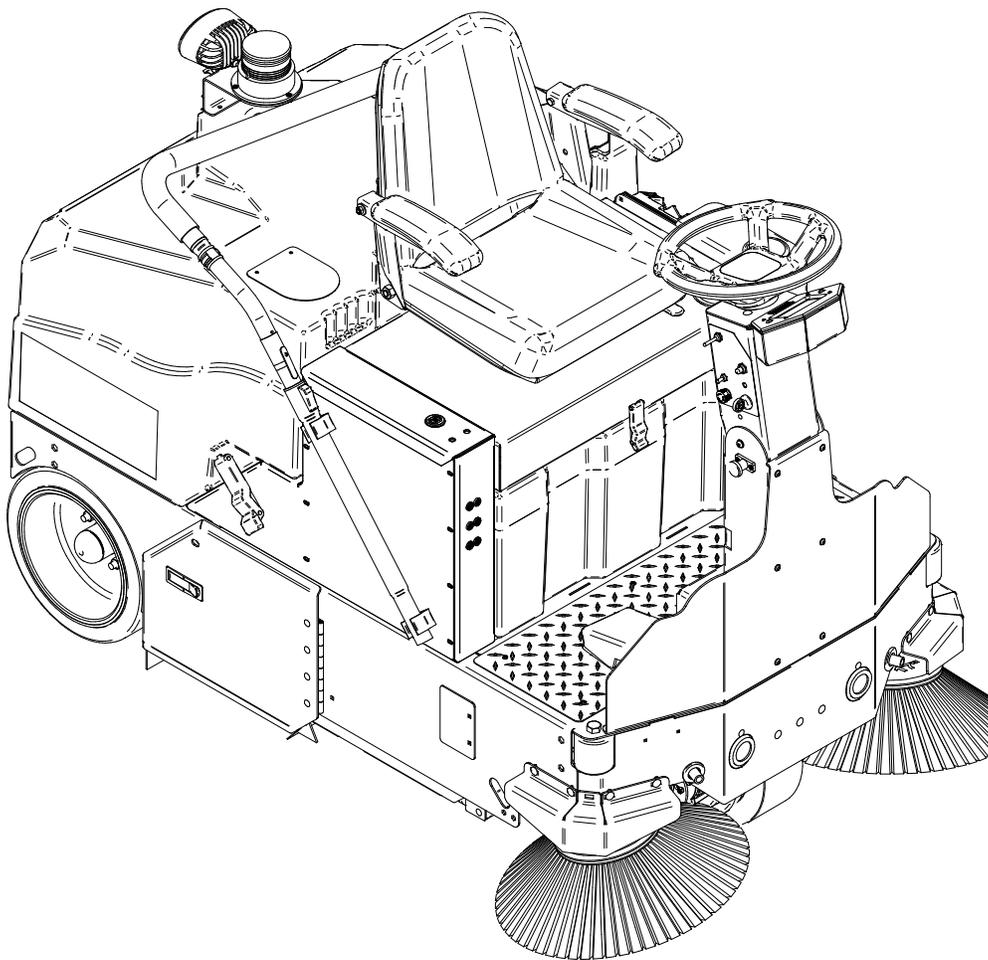




## Operator Manual (EN)



Read the Operators Manual  
before using the machine.



Read the Safety Messages  
before servicing machine.

# INTRODUCTION

This manual is furnished with each new machine. This manual will allow the Operator to get the best performance out of your RPS manufactured Scrubber-Drier, Sweeper, Burnisher, or Orbital Scrubber. Read this manual thoroughly before operating or servicing the machine.

This machine will provide excellent performance, but the best results will be obtained at the most minimum costs if:

- The machine is regularly maintained - per the Authorized Local Distributor.
- The machine is operated with reasonable care and caution.
- The machine is maintained with manufacturer supplied parts.

## Locate Serial Number

The serial number of your machine is located on the lower half of the control panel of the machine.



## SAFETY LABELS

Read and obey all Safety Labels on your equipment. If you have questions about these labels, ask your supervisor.

These images indicate where on the Safety Labels are located. If ever the labels become illegible, worn off, or torn, promptly report it to your supervisor and replace it.

AS OUR POLICY IS ONE OF CONSTANT IMPROVEMENT - ALL INFORMATION AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Intended use

The Timberline Sweeper-L Ride On Sweeper is intended for industrial applications with hard floor surfaces such as concrete, VCT, tile and grout, stone, ect. This machine is not designed to clean carpets or sand wooden surfaces. Use only OEM pads/brushes and commercially available floor cleaning detergents. Do not use this machine other than described in this Operator Manual.

## Machine Data

Fill out while installing machine for future reference.

Model No. - \_\_\_\_\_

Serial No. - \_\_\_\_\_

Installation Date - \_\_\_\_\_

## Uncrating Machine

Inspect machine for damage before unloading, if any damage has occurred report it to the carrier. Contact distributor or RPS Corp. for missing components.

Remove protective shipping frame then locate and unscrew the metal bracket connecting the machine to the pallet. Before removal the scrub head should be in the raised position. Using the supplied ramp carefully back the machine off the pallet.



**INTRODUCTION**

Intended use . . . . . 2  
Machine Data . . . . . 2  
Uncrating Machine . . . . . 2

**SAFETY**

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Safety Labels . . . . . 5

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**ERROR CODES**

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# SAFETY

## Important Safety Messages

You will see four kinds of safety reminders in this manual:

<p><b>⚠ DANGER</b></p> <p>DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.</p>	<p><b>⚠ WARNING</b></p> <p>WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.</p>
<p><b>⚠ CAUTION</b></p> <p>CAUTION indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury or damage to this machine or nearby objects. CAUTION also can be used to alert against unsafe practices.</p>	<p><b>NOTICE</b></p> <p>NOTICE indicates information considered important, but not hazard-related. This safety message may be related to property damage or warranty warnings.</p>

Your safety, and that of others, is very important. Operating this machine safely is an important responsibility.

### DO NOT OPERATE THIS MACHINE:

- Unless you are trained and authorized to do so by your RPS Authorized Local Distributor
- Unless you have read and understood this Operator's Manual
- On surfaces with greater than a 3° slope.
- Within 25' (8m) of Loading Docks

### WHEN OPERATING THIS MACHINE:

- Remove loose objects from the floor that could be projected from the rotating Brushes
- Keep your hands and feet away from the rotating Brushes
- Do not operate this machine where flammable liquids, vapors, or dust are present
- Use caution when maneuvering

### BEFORE LEAVING THE MACHINE:

- Raise Side Brooms / Main Broom off the floor and plug in the charger
- Park the machine on a level surface
- Turn the machine off & remove key

### BEFORE SERVICING THE MACHINE:

- Disconnect the Batteries
- Wear PPE



<p><b>⚠ DANGER</b></p> <p>Explosive hydrogen gas forms when Batteries are charging. An open flame or spark can cause this gas to explode. Serious personal injury or property damage could occur. Only charge the Batteries in this machine in a well ventilated area.</p>	<p><b>⚠ DANGER</b></p> <p>Flammable materials can cause an explosion or fire. Do not use flammable materials in Tank or pick up.</p>
--	--

**! WARNING**

The Batteries in this machine produce hazardous voltage which can cause electrical shock, burns and/or electrocution. Always disconnect Batteries before servicing this machine.

**! WARNING**

When climbing or descending ramps, always drive machine forward. To avoid overturning the machine, Do not back down ramps. Do not drive across inclines. Do not turn while ascending or descending ramps. Overturning the machine can cause serious injury or death.

**! WARNING**

Do not use water that exceeds 135°F / 57°C. If water is above said temperature, this will void the Tank Warranty.

**! WARNING**

Do not park this machine on ramps or slopes. Always park this machine on a level, hard surface. Do not operate this machine outdoors or on uneven surfaces.

**! WARNING**

The Batteries in this machine contain sulfuric acid, which causes burns to skin. If battery acid contacts clothing or skin, rinse the effected area with cold water immediately. If battery acid gets on your face or in your eyes, flush the area immediately with cold water and seek medical attention.

**! WARNING**

To avoid electrical shock, do not operate this machine over electrical floor outlets.

**! CAUTION**

To avoid damage to this machine, use only cleaning solutions and replacement parts recommended by the manufacturer.

**! CAUTION**

Do not operate this machine if any parts have been damaged or removed.

**! WARNING**

Dress safely. Do not wear rings or metal wrist watches when servicing this machine, as they can cause an electrical short circuit which can cause serious burns.

**! WARNING**

Do not remove, paint over or destroy warning decals. If warning decals become damaged, call 1-262-681-3583 for free replacements.

**! WARNING**

Dress safely. Do not wear a neck tie, scarf, or any loose or dangling clothing while operating this machine. Loose or dangling clothing or neck-wear can tangle in rotating parts, causing serious injury or death.

**! WARNING**

Always turn off this machine before leaving it unattended. Do not allow untrained persons to operate this machine.

**! WARNING**

NO RIDERS. Do not carry passengers on this machine. Do not use this machine as a stepladder or work platform.

**! WARNING**

Understand the dynamic braking system before you operate the machine on ramps. Machine may coast.

**! WARNING**

Before you service a Battery, always wear face protection, protective gloves and protective clothing. Battery acid or battery explosion can cause serious injuries.

**! CAUTION**

Always use the automatic battery charger provided by the manufacturer of this machine to charge the Batteries of this machine. It is designed to charge the Batteries at the appropriate rate. If you must use a different charger, disconnect the Batteries before charging to avoid damage to the electronic speed controller.

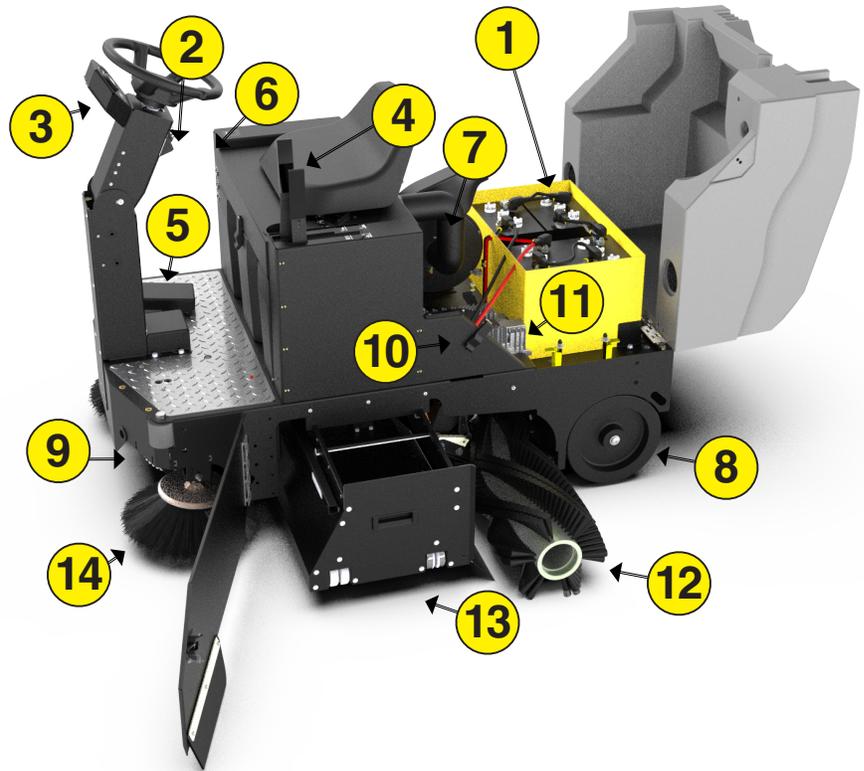
**! CAUTION**

To avoid damage to the electronic control components of this machine, Do not store this machine outdoors. Do not pressure wash this machine.

## OPERATION

### Machine Overview

1. 4x 6VDC Batteries (24vdc System)
2. Control Toggles
3. Dashboard
4. Broom Lift Levers
5. Foot Pedal
6. Electrical Panel
7. Blower Motor
8. Rear Wheels
9. Front Wheel Drive + Parking Brake
10. Hood Latch
11. Charger
12. Main Broom
13. Hopper
14. Side Brooms



Central Command Overview



1. Key Switch On (I) / Off (O)
2. Reverse Switch
3. Main Broom
4. Side Brooms
5. Filter Shaker
7. Military Battery Gauge / Hour Meter Combo
8. Military Down Pressure Gauge
9. Headlight indicator
10. E-stop
11. Headlights
12. Horn
13. Vac Wand (Optional)
14. Dual USB



# OPERATION



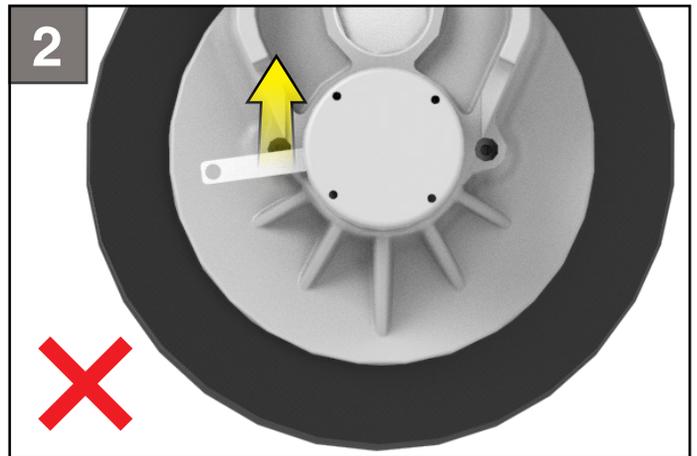
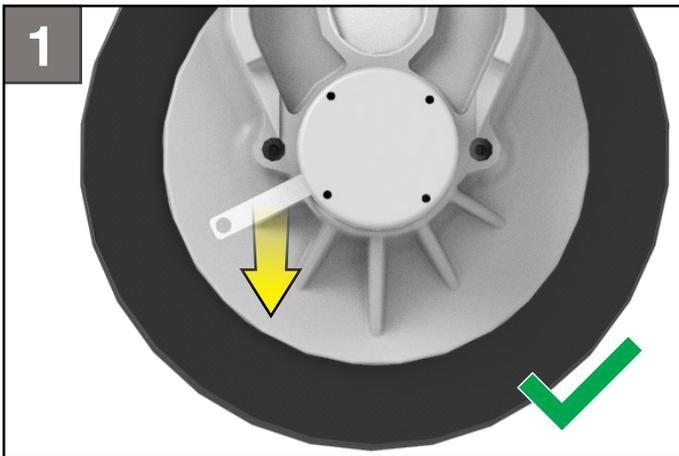
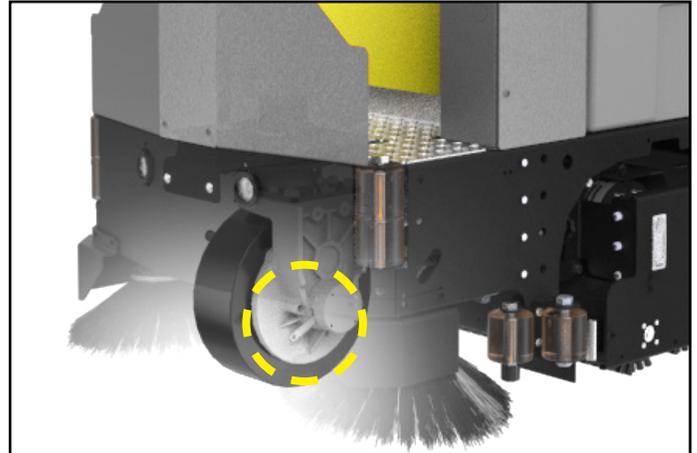
## Parking Brake

### **! WARNING**

Do not park this machine on ramps or slopes. Always park this machine on a level, hard surface. Do not operate this machine outdoors or on uneven surfaces.

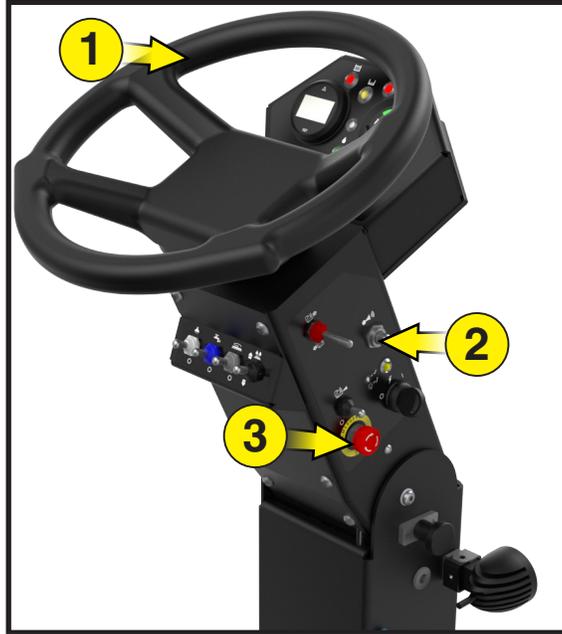
### **! WARNING**

Understand the dynamic braking system before you operate the machine on ramps. Machine may coast.





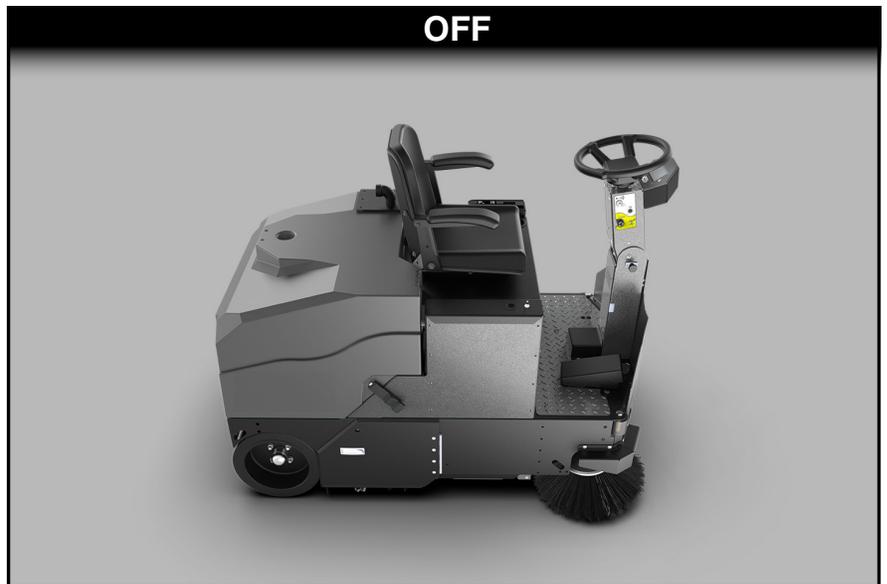
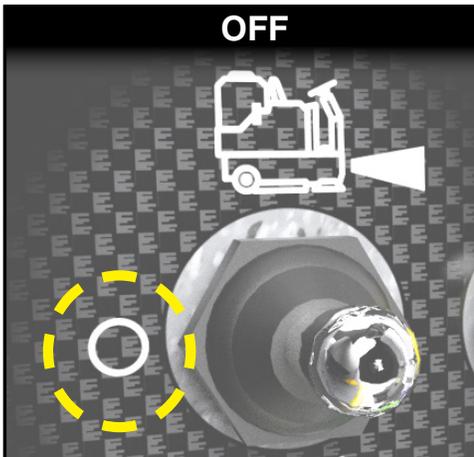
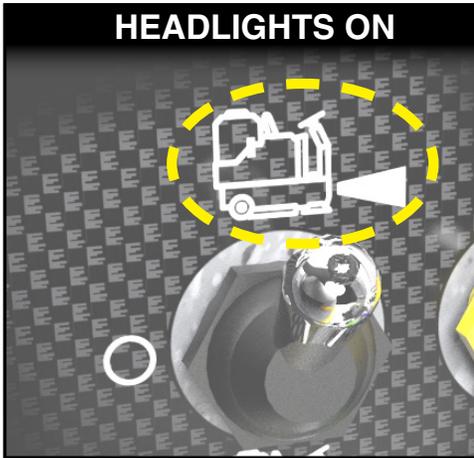
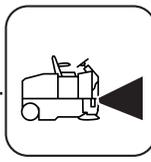
**OPERATION**  
**Steering Controls**



1. A diagram showing a steering wheel with dashed lines and arrows indicating its range of motion.	2. A black silhouette of a horn with sound waves emanating from it.	3. An icon of a hand pressing a button labeled "EMERGENCY STOP".
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# OPERATION

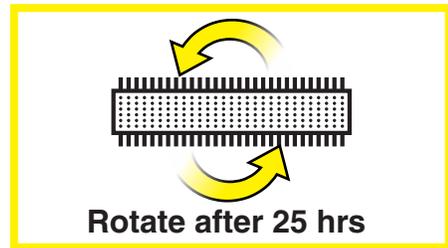
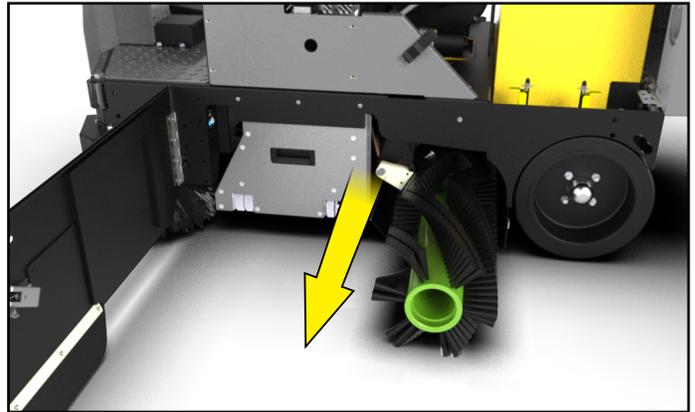
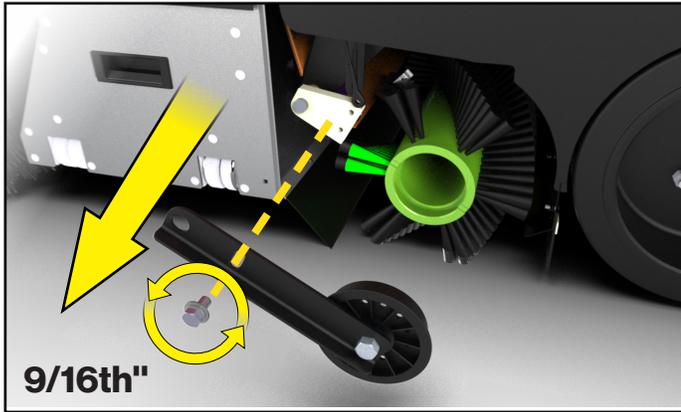
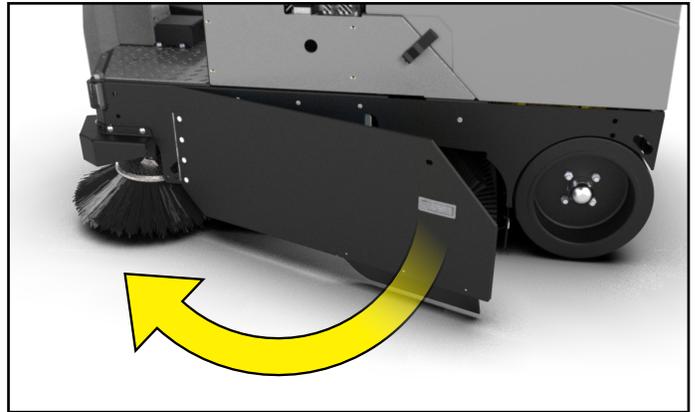
## Headlights (Optional)





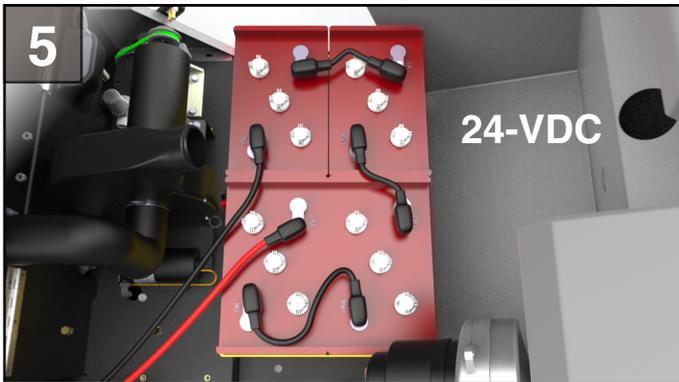
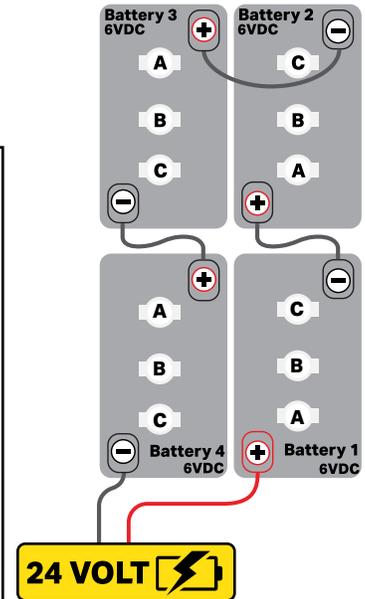
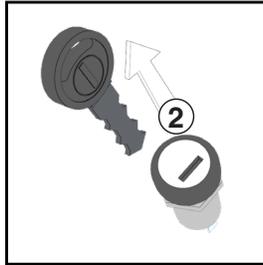
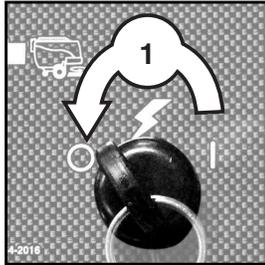
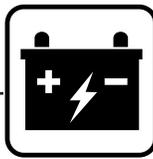
Installing Main Broom

1



# OPERATION

## Battery Setup



**Torque Settings:**  
8-12 ft/lbs (10.8 - 16.3 Newton-meters)

### NOTICE

Batteries are a possible environmental hazard. Consult your Battery supplier for safe disposal methods.

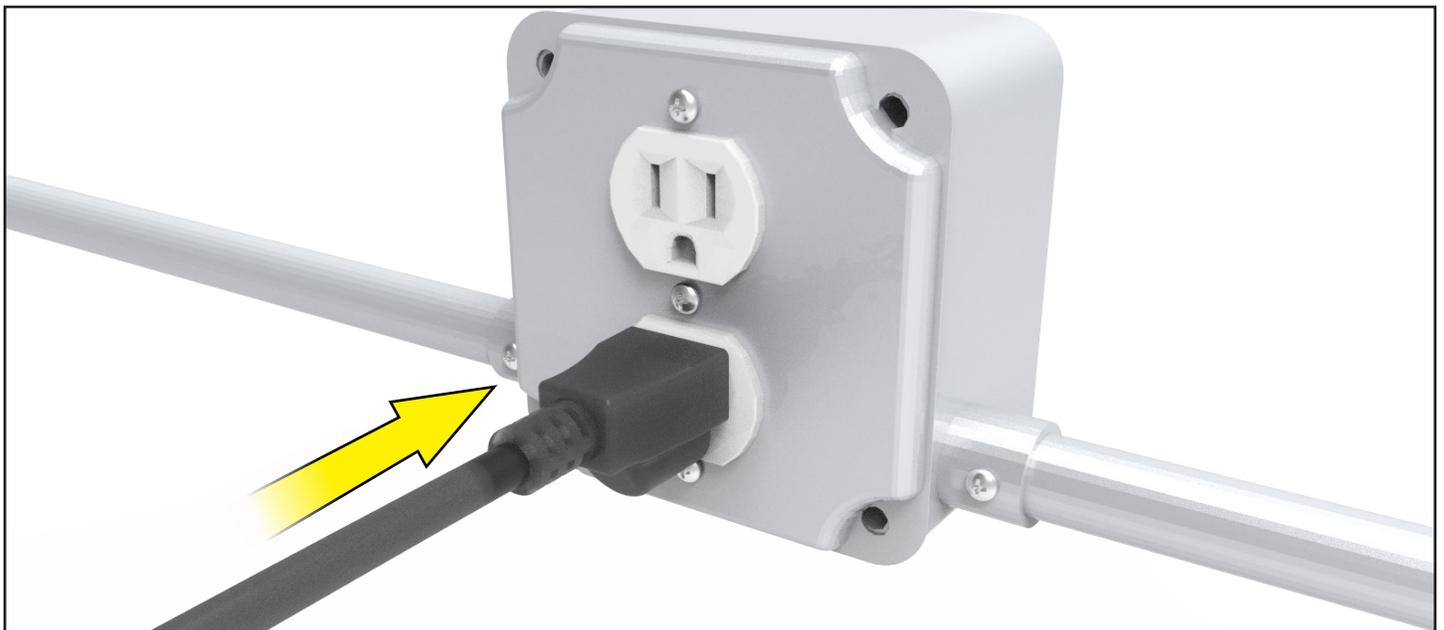
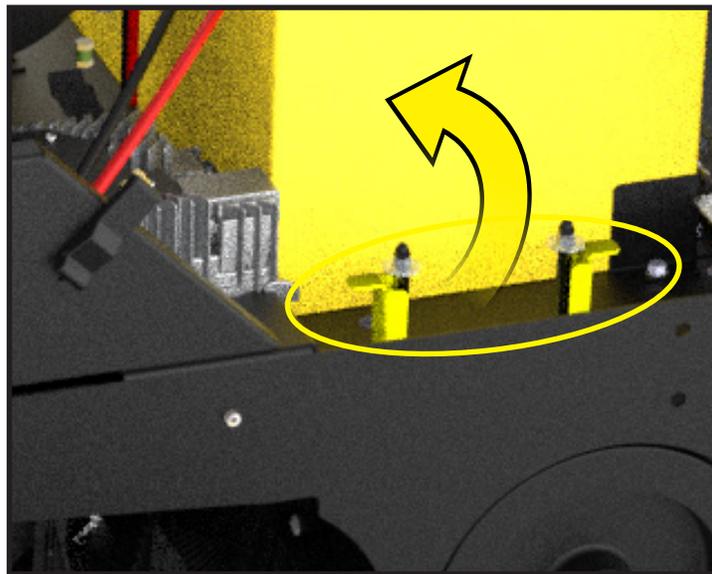
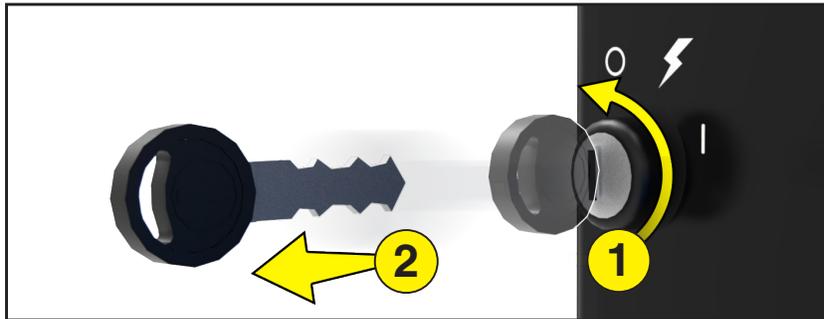
### ! WARNING

Before you service a Battery, always wear face protection, protective gloves and protective clothing. Battery acid or battery explosion can cause serious injuries.



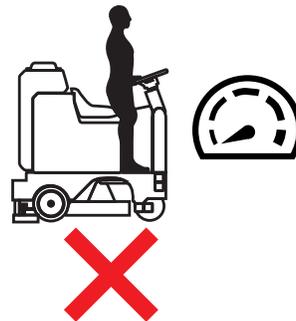
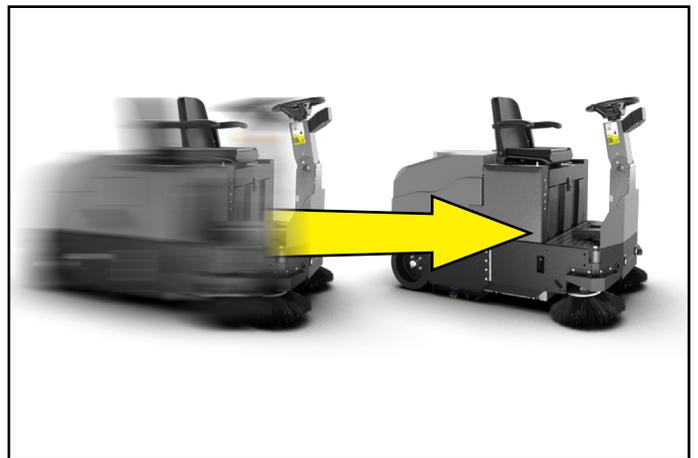
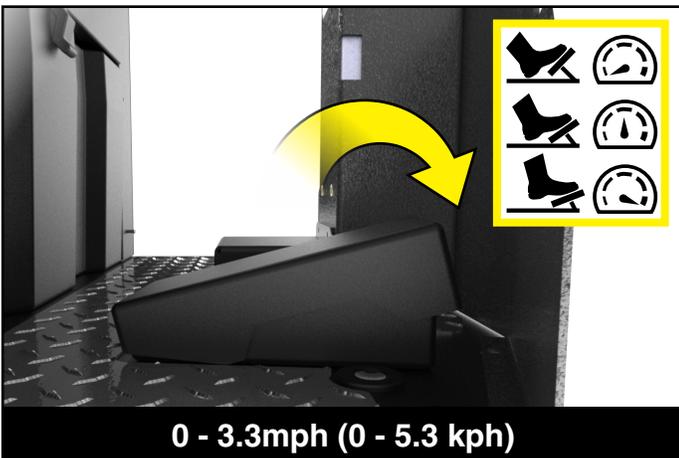
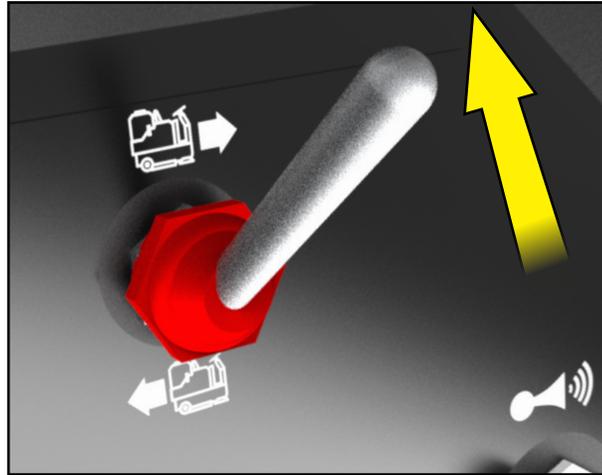
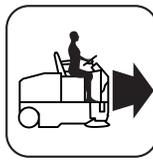
### ! WARNING

The Batteries in this machine contain sulfuric acid, which causes burns to skin. If battery acid contacts clothing or skin, rinse the effected area with cold water immediately. If battery acid gets on your face or in your eyes, flush the area immediately with cold water and seek medical attention.



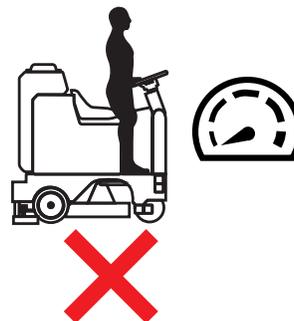
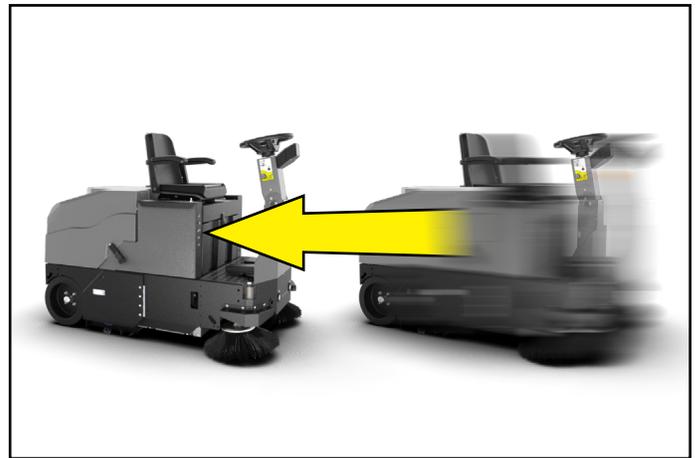
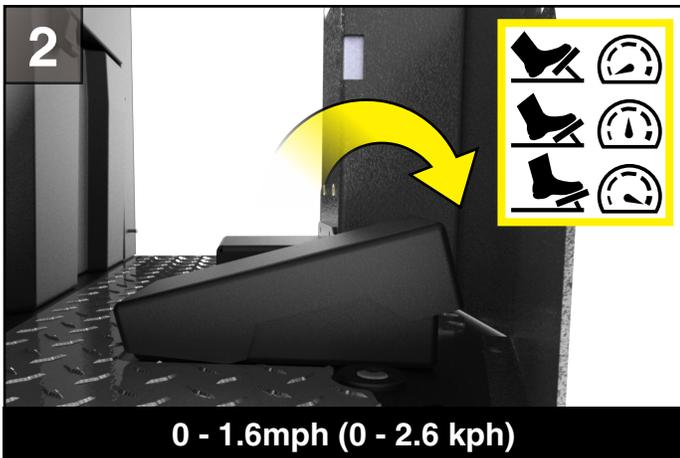
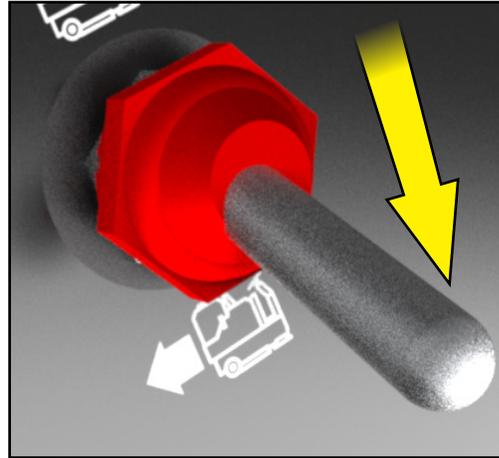
# OPERATION

## Forward Drive





**OPERATION**  
**Reverse Drive**

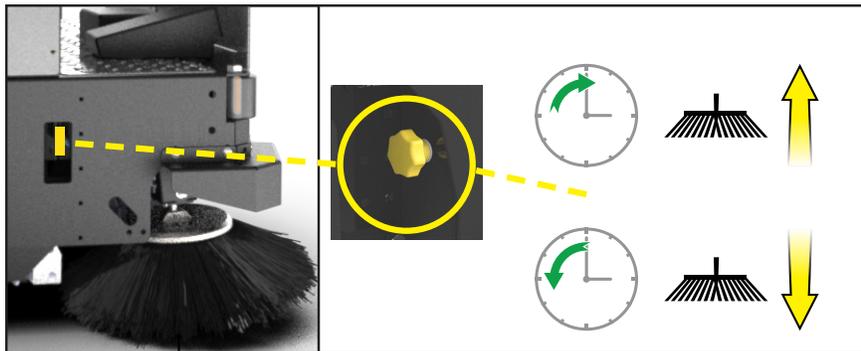
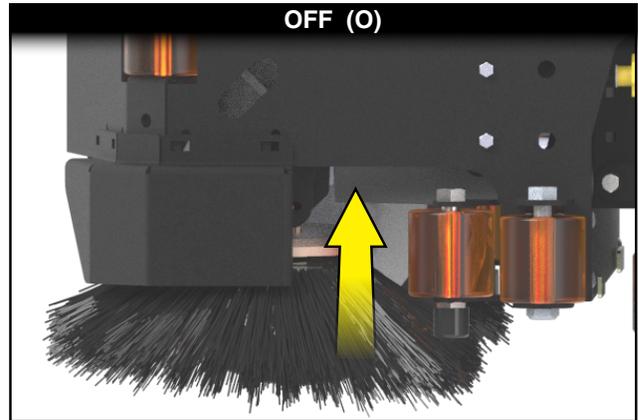
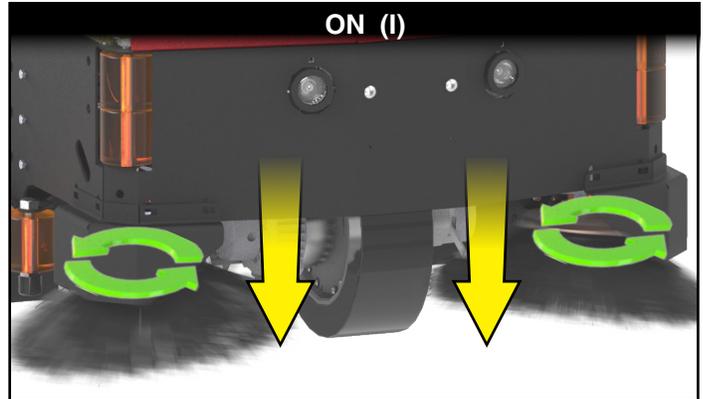


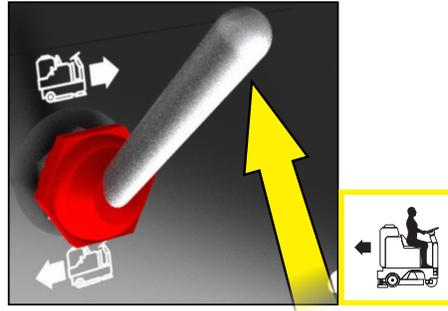
# OPERATION

## Fill Solution Tank

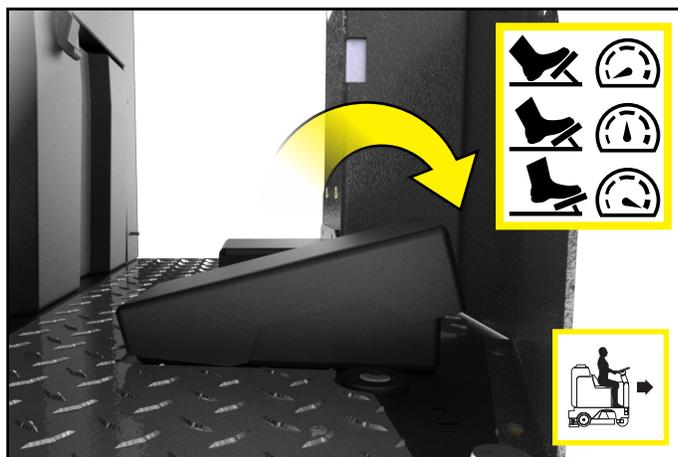
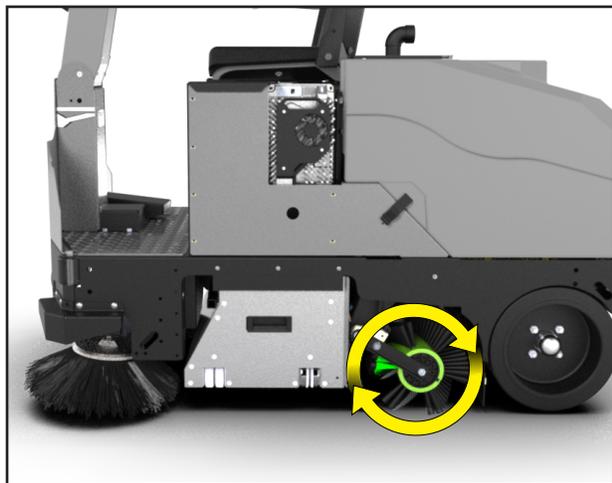


See pg. 7 for touch screen controls



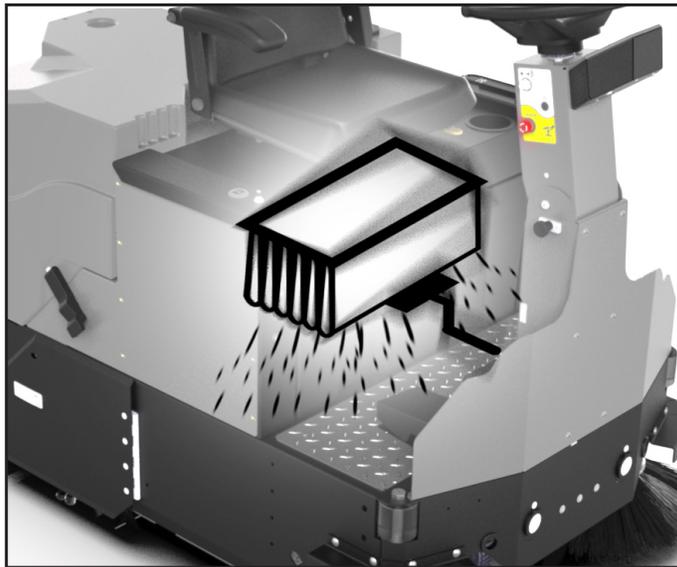


See pg. 7 for touch screen controls



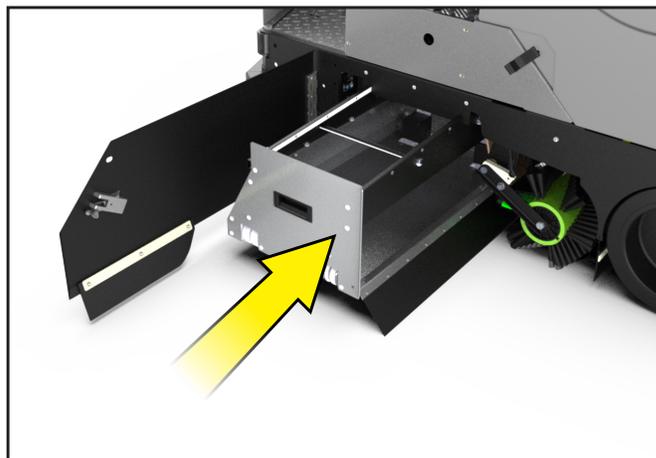
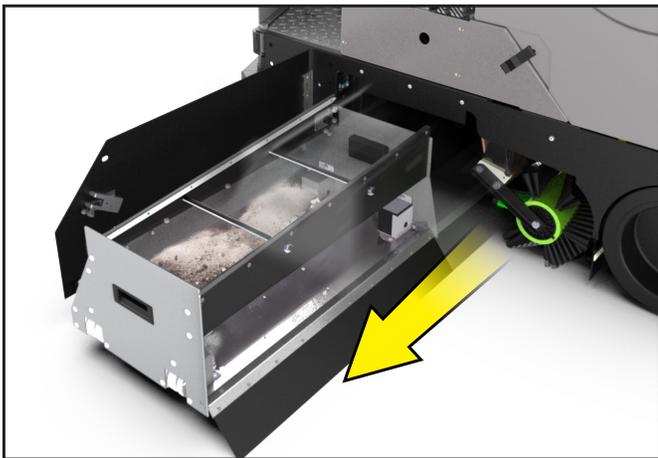
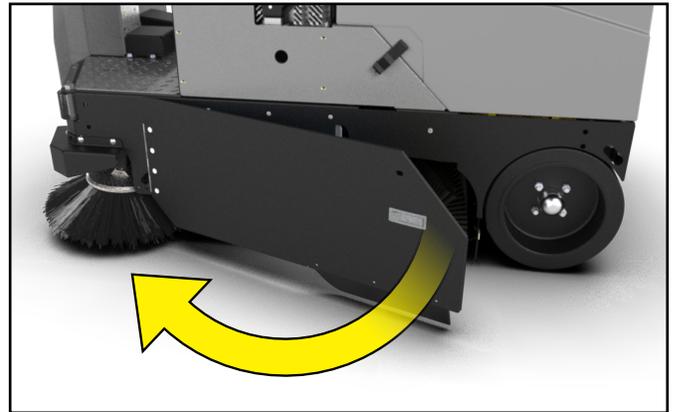
**OPERATION**

**Filter Shaker**



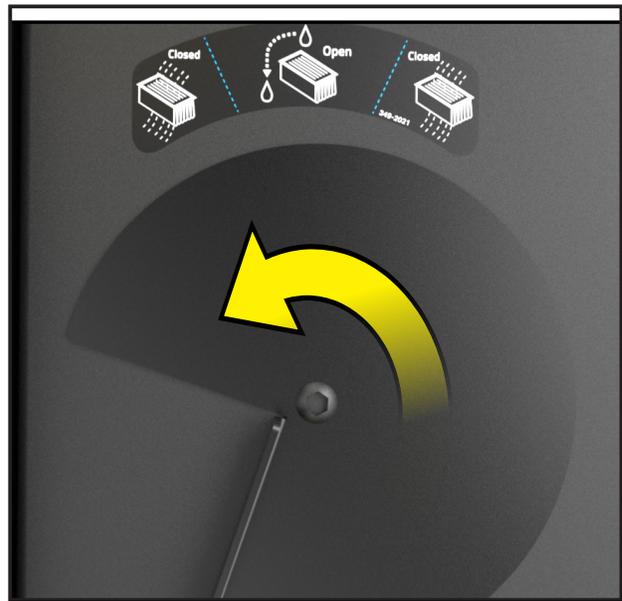
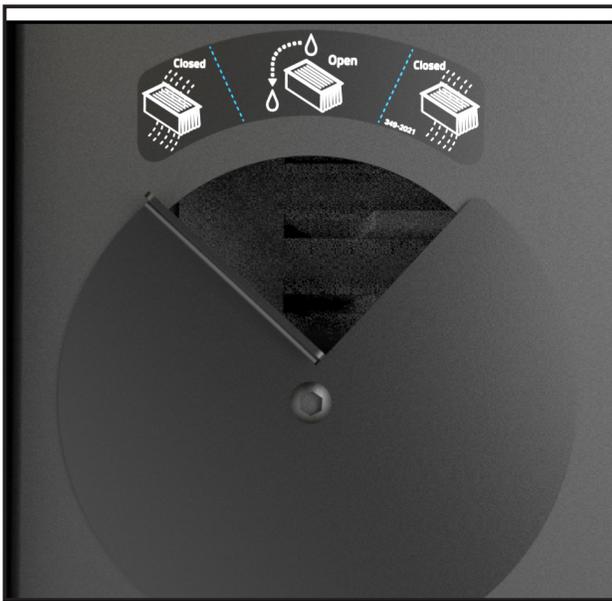
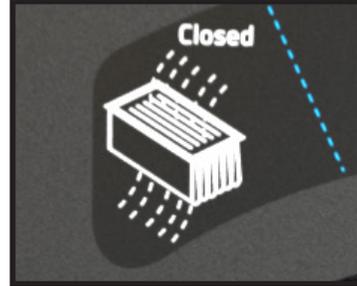
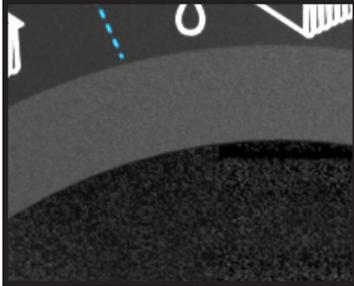


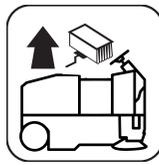
**OPERATION**  
**Empty Hopper**



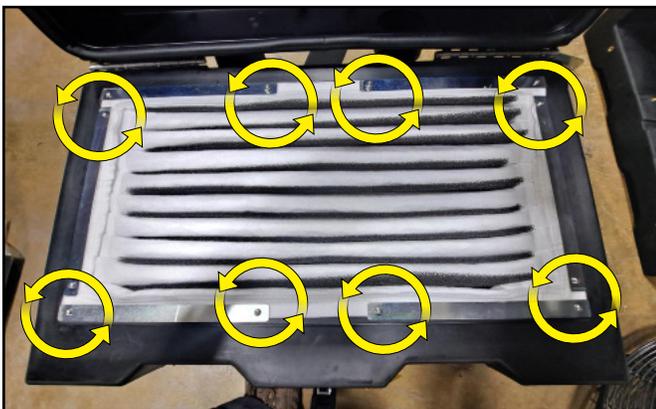
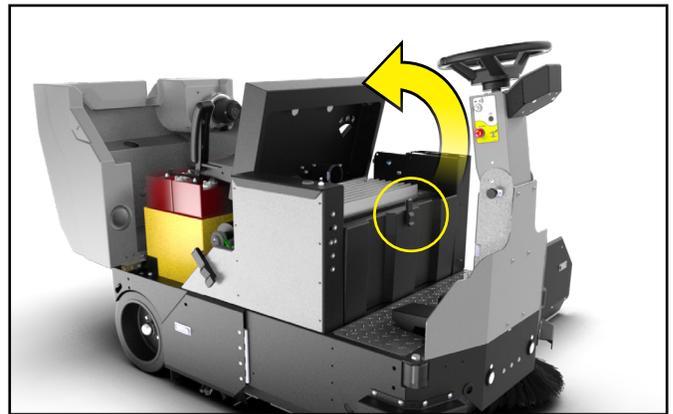
# OPERATION

## Filter Bypass



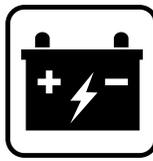


Removing Baghouse Filter



Remove screws and metal strips

# OPERATION



## Battery Chargers

### Console / WET / Domestic Chargers:

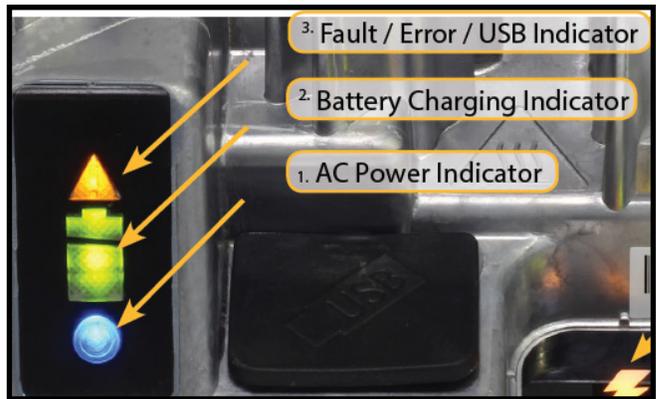
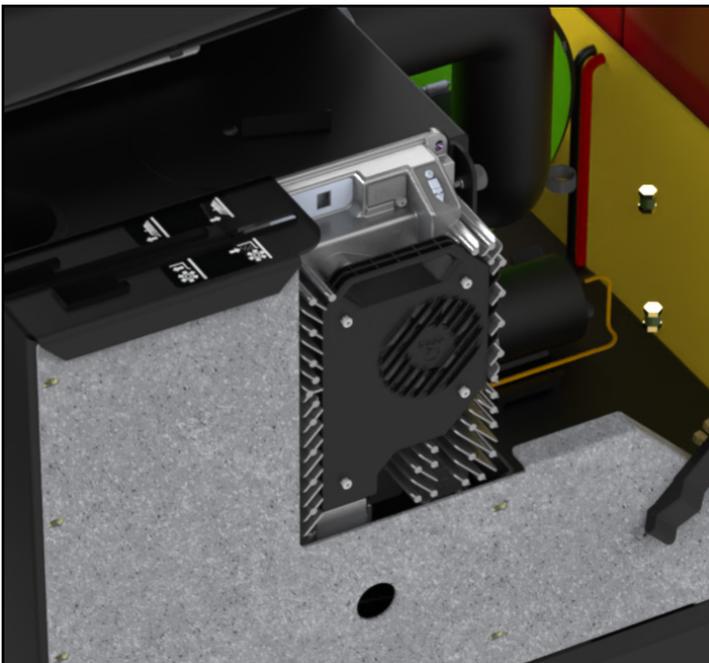


**AC Power IN:** 110VAC / 60Hz  
**DC Power OUT:** 24VDC / 27A

Please refer to OEM Charger Operating Instructions for more information.



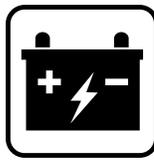
### Onboard / AGM / International Chargers:



**AC Power:** 80-270VAC / 50-60Hz  
**DC Power OUT:** 24VDC / 27A

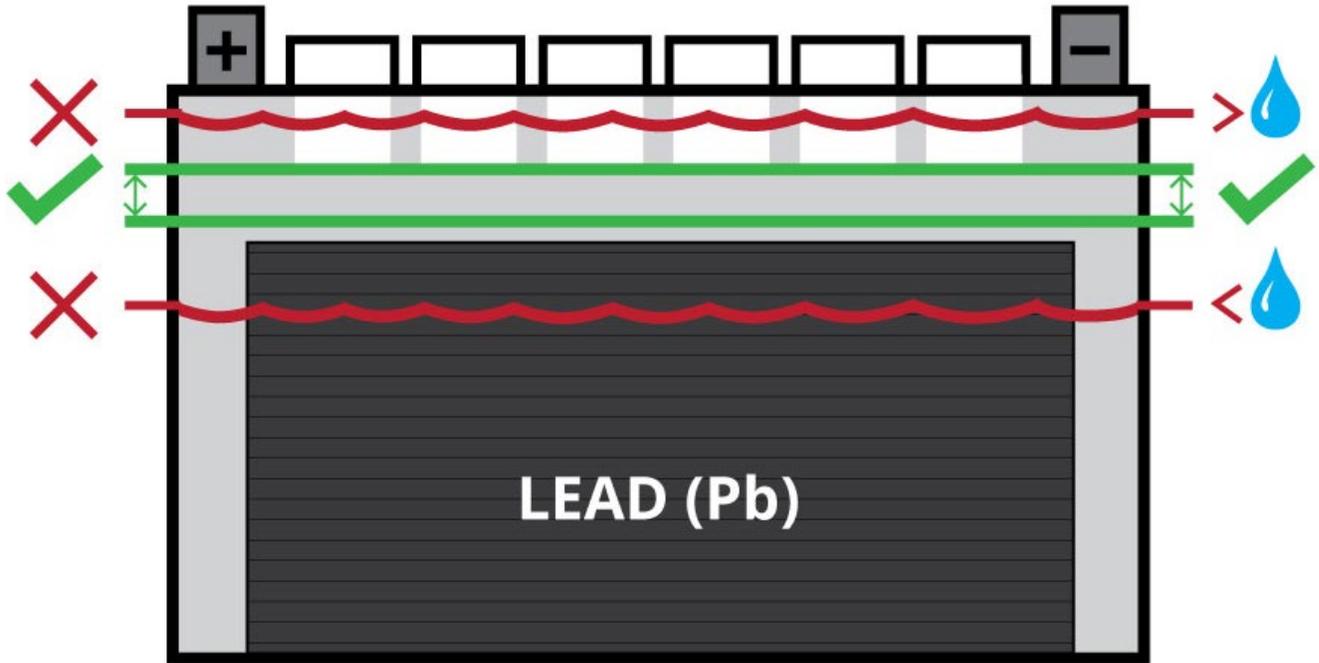
Please refer to OEM Charger Operating Instructions for more information.





MONTHLY MAINTENANCE (OR 100 HRS)

Battery Water Level



# ERROR CODES



Legacy

## Status Light Guide

## Status Light Guide

Below is a list of self-help actions. Try to use this list before you contact your service agent. Go to the number in the list which matches the number of indicator light flashes and follow the instructions.

**1 Flash**

The battery needs charging, there is a bad connection to the battery or dependent on programming, may indicate that the battery lockout function is active and the controller is in a restricted mode of operation. Check the connections to the battery. If the connections are good, try charging the battery.

**2 Flash**

There is a bad connection to the motor. Check all connections between the motor and the controller.

**3 Flash**

The motor has a short circuit to a battery connection. Contact your service agent.

**4 Flash**

The battery charge level has fallen below the Battery Lockout Level and the controller is inhibiting certain machine functions. Charge the battery.

**5 Flash**

Not Used.

**6 Flash**

The controller is being inhibited from driving, this may be because the battery charger is connected.

**7 Flash**

A throttle fault is indicated. Make sure that the throttle is in the rest position before switching on the machine.

**8 Flash**

A controller fault is indicated. Make sure that all connections are secure.

**9 Flash**

The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the controller connections are secure.

**10 Flash**

An excessive voltage has been applied to the controller. This is usually caused by a poor battery connection. Check the battery connections.

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