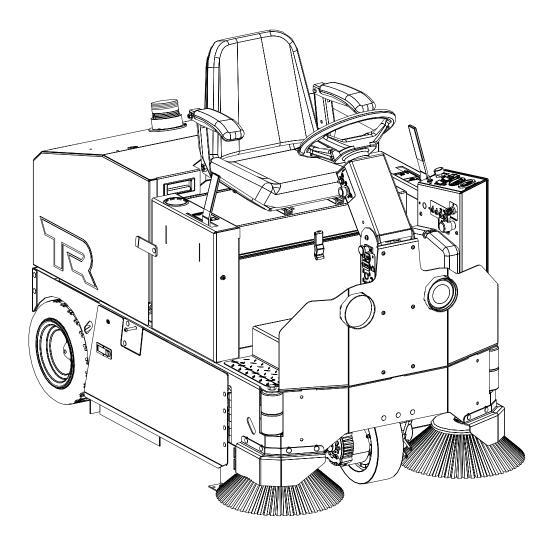




Operating Instructions (EN)





Read these Instructions before using the machine.



Read these Safety Messages before using the machine.

Scan With Phone for more Information



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 machine Preventative Maintenance instructions provided.
- The machine is operated with reasonable care and caution.
- The machine is maintained with manufacturer supplied parts.

ABOUT THIS MANUAL

TABLE OF CONTENTS: Tells you where to look in the manual.

SAFETY MESSAGES: Section contains important information regarding hazard or unsafe practices of the machine. Levels of hazards are identified that could result in product or personal injury, or severe injury resulting in death.

OPERATION CONTROLS / MACHINE COMPONENTS: Shows you the different machine controls and features.

MACHINE SETUP: Tells you how to setup machine from un-crating to installing squeegee and brushes.

MACHINE OPERATION: Section is to familiarize the operator with the operation and function of the machine.

BATTERY CHARGING: Shows you how to charge the batteries (on-board and off board charging).

MAINTENANCE: This section contains preventative maintenance to keep the machine and it's components in good working condition. They are listed in this general order:

- Batteries
- Brooms
- Filters
- Service Schedule
- Machine Trouble Shooting

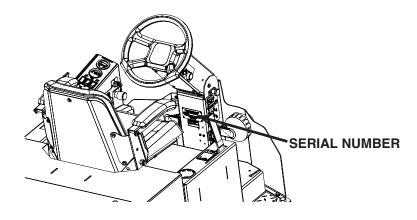
TROUBLE SHOOTING: A list of common problems that may occur.

MACHINE SPECS: Tells you Machine Specifications for the various parts of the machine.

MACHINE INSTALL FORM: Should be filled out upon machine installation and faxed to 1-866-632-6961 or online at www.rpscorporation.com.

WARRANTY POLICY: Tells you coverage, exclusions and limitations to warranty.

NOTE: The serial number of your machine is located on the lower half of the Steering Pedestal of the machine.



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

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SAFETY MESSAGES

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

ADANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

A WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

ACAUTION

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.

NOTICE

NOTICE indicates information considered important, but not hazard-related. This safety message may be related to property damage or warranty warnings.

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 5% grade
- Unless equipped with a functional parking brake

WHEN OPERATING THIS MACHINE:

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

BEFORE LEAVING THE MACHINE:

- Park the machine on a level surface
- Turn the machine off & remove key
- Open battery lid

BEFORE SERVICING THE MACHINE:

Disconnect the Batteries

A DANGER

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.

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A 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.

A 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.

A 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.

A 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.

A WARNING

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

▲ 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.

ACAUTION

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

ACAUTION

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.

A WARNING

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

A 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.

A WARNING

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

A WARNING

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

A WARNING

Understand the dynamic braking system before you operate the machine on ramps. 5 Degree max.

A WARNING

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

ACAUTION

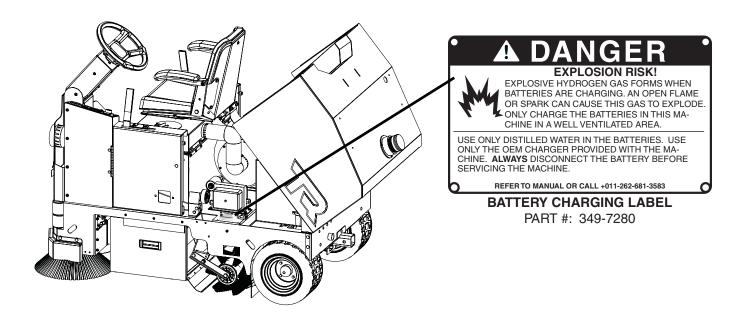
To avoid damage to the electronic control components of this machine, Do not store this machine outdoors. Do not pressure wash this machine.

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SAFETY LABEL LOCATIONS

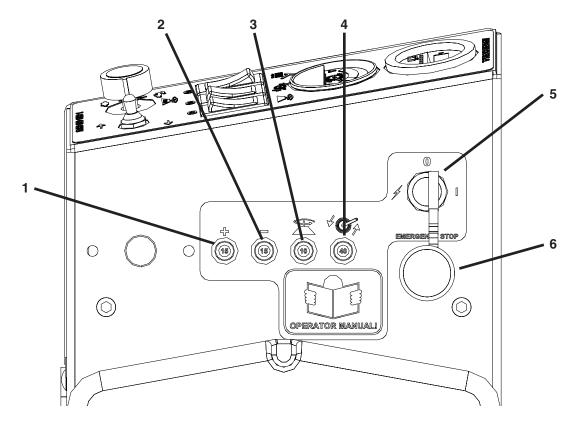
Read and obey all Safety Labels on your TR Floor Sweeper. If you have questions about these labels, ask your supervisor.

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



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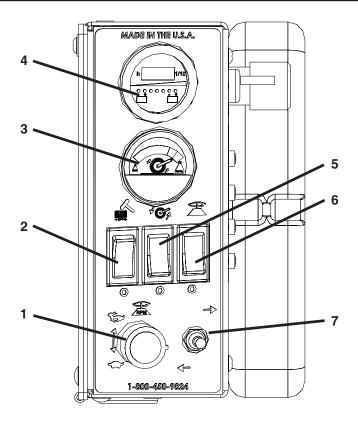
OPERATION CONTROLS



- 1. CIRCUIT BREAKER: 15 AMP resettable circuit breaker
- 2. CIRCUIT BREAKER: 15 AMP resettable circuit breaker
- 3. CIRCUIT BREAKER: 10 AMP Side Broom resettable circuit breaker
- 4. CIRCUIT BREAKER: 40 AMP Main Broom resettable circuit breaker
- 5. **KEY SWITCH:** Turns power of the machine *ON* and *OFF*
- 6. **EMERGENCY STOP (OPTIONAL):** 1 button push machine shut down in case of emergency

TR-OP-EN -7-

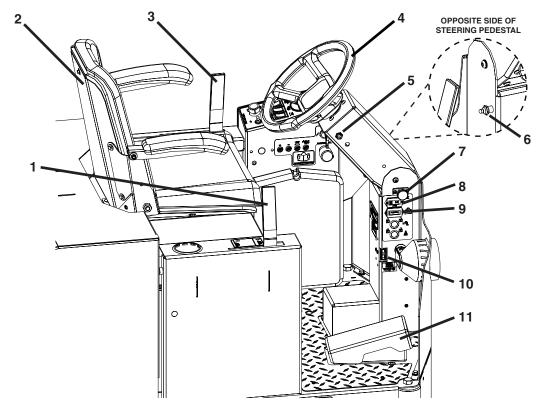
OPERATION CONTROLS



- 1. SIDE BROOM SPEED CONTROL KNOB: Controls the speed of the Side Brooms Turn counterclockwise to reduce speed
- 2. FILTER SHAKER SWITCH: Filter shaker button shakes filter to remove dust or debris particles to deposit into the hopper for removal
- 3. BRUSH AMP GAUGE: Indicates the amount of amperage that the Main Broom pulling
- 4. BATTERY GAUGE / HOUR METER: Indicates the amount of batery charge remaining along with total hours used
- 5. MAIN BROOM SWITCH: Tuns the Main Broom *ON* or *OFF*
- **6. SIDE BROOM SWITCH:** Turns the Side Brooms *ON* or *OFF*
- 7. **REVERSE SWITCH:** Switch back for reverse machine drive

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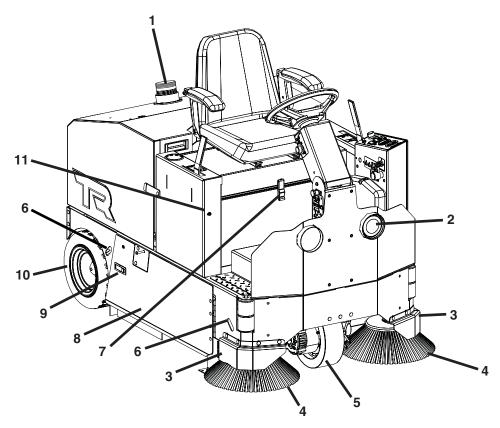
OPERATION CONTROLS



- 1. SIDE BROOM LIFT LEVER: Lifts and lowers Side Brooms that allow for debris clean up directly up to walls
- 2. ADJUSTABLE SEAT WITH ARM RESTS: The machine is equipped with an ergonomic seat with adjustable arm rests and positioning
- 3. MAIN BROOM LIFT LEVER: Lifts and lowers the Main Broom
- 4. STEERING WHEEL: Steers the main Drive Wheel
- **5. HORN:** Sounds the horn for warning oncoming traffic
- 6. **HEADLIGHT SWITCH:** Turns power of the Headlights *ON* and *OFF*
- 7. ADJUSTABLE STEERING: Four settings for operator comfort and ease of entry
- 8. HOUR METER: Hour meter to indicate complete time machine has been ON
- 9. RECHARGE CYCLE METER: Shows the amount of charges on a machine
- 10. CHARGER PORT: Grey 50 used to receive charger input for optional external charger
- 11. FOOT PEDAL: Controls the acceleration and deceleration of the machine

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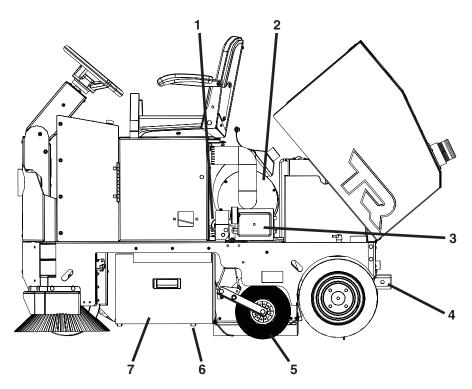
MACHINE COMPONENTS



- 1. STROBE LIGHT (OPTIONAL): Optional Strobe Light silently alerts others nearby of the machines presence
- 2. **HEADLIGHTS:** Helps you see in low light areas and to warn oncoming traffic
- 3. SIDE BROOM GUARDS (OPTIONAL): Optional Side Broom Guards protect your Side Broom Brushes in case operator error
- 4. SIDE BROOMS: Allows for debris clean up directly up to walls
- 5. FRONT DRIVE TIRE: Drives and steers the machine
- 6. TIE DOWN POINTS: Location for tie down straps during transport
- 7. FILTER ACCESS LATCH: Latch holds the Filter Box together while also releasing and allowing access to the inside of the Filter Box
- 8. SIDE ACCESS DOOR: Protects the Main Broom and Hopper
- **9. SIDE DOOR LATCH:** Opens and latches closed the Side Access Door to the Main Broom and Hopper
- 10. REAR WHEELS: Rear wheels provide three point stability for this machine
- 11. SIDE BROOM ADJUSTMENT SCREW: Turn screw counterclockwise for fine tuning of height adjustment of the Side Brooms to accommodate for brush wear

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MACHINE COMPONENTS



- 1. FILTER MOTOR: Powers the Beater Bar to clean out the filter
- 2. MAIN BROOM MOTOR: Powers the Main Broom and creates vacuum for the Filter Box
- 3. ONBOARD CHARGER: Easily charge your machine by conveniently pulling over and plugging in into any standard wall outlet to charge
- 4. HITCH (OPTIONAL): Used to attach rear Garbage Can Holder option
- **5. MAIN BROOM:** The powerful Main Broom sweeps the floor by sweeping debris into the back of the Hopper
- **6. HOPPER TRANSPORT WHEELS:** Wheels allow the Hopper to easily slide in and out from underneath the machine
- 7. HOPPER: Houses all of the dust and debris that the machine sweeps

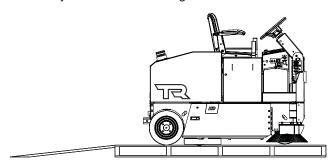
TR-OP-EN - 11 -

MACHINE SETUP

UN-CRATING MACHINE:

Carefully check the crate for any signs of damage and that the batteries are in the unit.

To un-crate the machine, remove banding strips from around the crate. Take off the top and sides and dispose properly. Remove brackets from machine wheels. Remove bolts from pallet, then remove board. Carefully roll the machine off of the base. Notify the carrier immediately if concealed damage is discovered.



CONNECTING BATTERIES:

Your machine is equipped with $(4\times)$ 6-Volt/ 245 AH, $(4\times)$ 6-Volt/ 325 AH, or $(4\times)$ 6-Volt/ 420 AH Wet Lead Acid, AGM, Industrial, or Deep Cycle Batteries which form a 24 Volt system.

(SEE PICTURE BELOW OR BATTERY DISCONNECT LABEL FOR CORRECT CABLE CONNECTIONS)

- Turn all switches to the OFF position and remove Key.
- Tip Tank back. Attach all Battery Cables to Terminals as shown below.
- Turn ON main power switch and check the Battery Meter to ensure correct installation. Charge Batteries if needed (SEE BATTERY CHARGING).

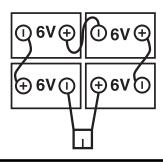
NOTICE

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

NOTICE

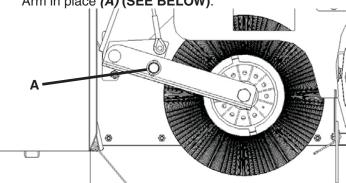
Orientation of Batteries is critical for cables to reach.

24 VOLTS

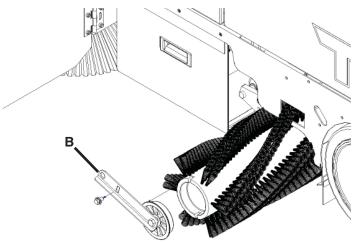


INSTALLING MAIN BROOM:

- 1. Turn Key Switch to the *OFF* position and remove Key.
- Open Side Access Door and remove bolt holding Idler Arm in place (A) (SEE BELOW).



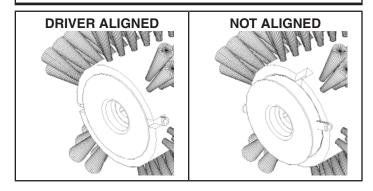
Remove Idler Arm and pull out old Broom (B) (SEE BELOW).



- 4. Slide the new Broom in. With new Broom on Driver, spin until Driver engages Broom.
- 5. Reinstall Idler Arm and tighten bolt (B) (SEE ABOVE).
- 6. If Broom is not level, loosen bolt and run Main Broom motor for a couple seconds.
- 7. Retighten bolt and ensure Broom is level.

NOTICE

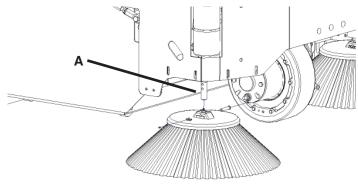
For correct Main Broom application - Contact your Local Servicing Dealer.



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INSTALLING SIDE BROOMS:

- Lower the Side Brooms by pulling forward on the Side Broom Level and sliding to the rear.
- 2. Remove the Side Brooms from the box.
- Install the Side Brooms onto the Motor Shaft. Use the bottom hole on the shaft to install the Clevis Pin and

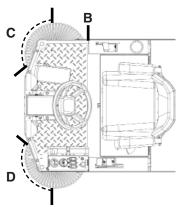


Saftey Clip (A) (SEE BELOW).

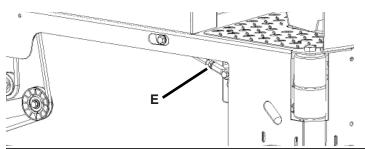
4. Check Side Broom height to see if Adjustments are needed.

ADJUSTING SIDE BROOMS:

- To adjust Side Broom height, turn Adjustment Screws Clockwise to raise and Counterclockwise to lower (B) (SEE BELOW).
- The right Side Broom bristles should contact the floor in a 10 o'clock to a 3 o'clock pattern when the Broom is in motion (C) (SEE BELOW). The left Side Broom bristles should contact the floor in a 9 o'clock to a 2 o'clock pattern when the Broom is in motion (D) (SEE BELOW).



3. To raise the Side Brooms higher when in the up position, adjust the Adjustment Arm (E) (SEE BELOW).



MACHINE OPERATION

PRE-CLEANING CHECKLIST:

Read and understand the Safety Messages section on Pages 3 and 4 before operating the machine.

- Check Battery Condition Gauge on the Control Panel. Make sure Batteries are fully charged before using.
- Check the condition of the Brooms.
- 3. Check to make sure Hopper is empty.
- 4. Disconnect Charger and close Hood.
- 5. Adjust the Seat and Steering Pedestal.
- Turn the Key Switch ON and drive to the area to be cleaned.
- 7. Adjust the speed of the Side Brooms to the desired speed and confirm the Side Brooms height is correct.
- 8. Lower the Main Broom and the Side Brooms.
- Drive slowly.

OPERATING HINTS:

- Observe the amount of dirt/debris that the machine is sweeping up. If dirt/debris is left on ground make sure that the Wet Sweep By-Pass is not open. This feature reduces dust control and should only be used when operating on a floor with water on it.
- 2. Always operate at lower speeds when sweeping around walls and objects. You should reduce the speed to maintain control when turning.
- 3. Change or turn over Brooms when dirty.
- 4. Stay clear of objects protruding from the floor such as sockets, grates, etc, for they will damage the Brooms.
- Always keep an eye on your gauges. They let you know the status of a particular system at a glance. If your battery gauge is reading low you must stop immediately and recharge. Running the Batteries dead will result in damage to the Batteries.
- 6. When you are ready to stop, raise the Side Brooms, raise the Main Broom, turn OFF the Side Broom Switch, turn OFF the Main Broom Switch and drive the machine back to the charging area. Be sure to clean the Hopper thoroughly before storing the machine.

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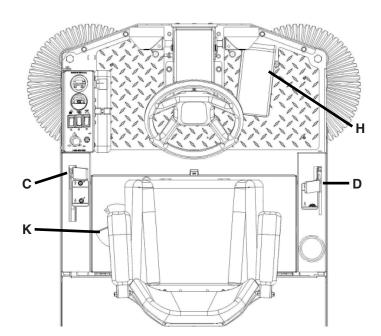
SWEEPING:

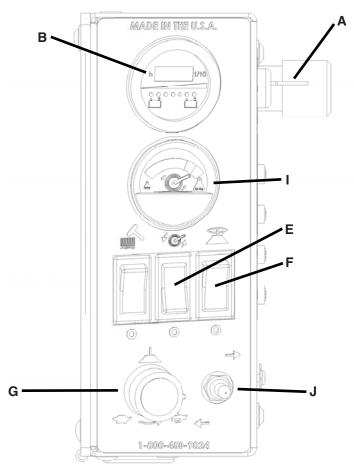
- 1. Turn on machine Key Switch (A).
- 2. Check the Battery Gauge to ensure proper charge before starting to sweep (B).
- 3. Lower the Main Broom to the floor by dropping the Main Broom Lift Lever forward *(C)*.
- 4. Lower the Side Brooms head to the floor by dropping the Side Broom Lift Lever forward (D).
- 5. Turn on the Main Broom Motor by pressing the Main Broom Motor Switch *(E)*.
- 6. Turn on the Side Broom Motors by pressing the Side Broom Motors Switch *(F)*.
- 7. Set the speed of the Side Brooms by dialing the Side Broom Speed Control (G) (Clockwise = Fastest / CounterClockwise = Slowest).
- 8. Begin sweeping by depressing the Foot Pedal **(H)** slowly and then to the speed required.
- 9. Once the machine begins to move, check the Broom Amp Gauge (I). This Gauge allows the Operator to see if there are issues in regards to the Broom type for certain applications, if something was tangled in the Broom, or other small issues that could cause the circuit to blow.
- 10. To operate the machine in reverse, simply switch the Reverse switch (J) back towards the rear of the machine. The reverse speed is set to approximately 50% of the forward speed.
- 11. To stop the machine, release the Foot Pedal and the machine will stop automatically *(H)*.

WET SWEEPING:

- 1. Turn on machine Key Switch (A).
- 2. Check the Battery Gauge to ensure proper charge before starting to sweep (B).
- 3. Lower the Main Broom to the floor by dropping the Main Broom Lift Lever forward *(C)*.
- 4. Lower the Side Brooms head to the floor by dropping the Side Broom Lift Lever forward (*D*).
- 5. Open the WET Sweep By-Pass door by rotating it clockwise (K). This door being open reduces the Dust Control. Always remember to close door when sweeping again once on dry ground.
- 6. Turn on the Main Broom Motor by pressing the Main Broom Motor Switch *(E)*.
- 7. Turn on the Side Broom Motors by pressing the Side Broom Motors Switch *(F)*.
- 8. Set the speed of the Side Brooms by dialing the Side Broom Speed Control (G) (Clockwise = Fastest / CounterClockwise = Slowest).
- 9. Begin sweeping by depressing the Foot Pedal *(H)* slowly and then to the speed required.
- 10. Once the machine begins to move, check the Broom Amp Gauge (I). This Gauge allows the Operator to see if there are issues in regards to the Broom type for certain applications, if something was tangled in the Broom, or other small issues that could cause the circuit to blow.

- 11. To operate the machine in reverse, simply switch the Reverse switch (*J*) back towards the rear of the machine. The reverse speed is set to approximately 50% of the forward speed.
- 12. To stop the machine, release the Foot Pedal and the machine will stop automatically *(H)*.





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CLEANING FILTER:

- If dust begins to blow through the Vacuum Motor or is leaking out of the sides, then the filter needs to be cleaned.
- 2. Turn on machine Key Switch (A).
- Before cleaning Filter, turn off Main Broom and Side Broom motors.
- 4. Clean the Filter by pressing the Shaker Switch for 20 seconds (B).

NOTICE

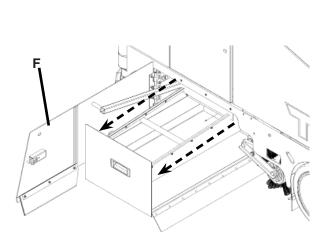
After using the Shaker Switch let the machine sit for 30 seconds to allow the dust time to settle.

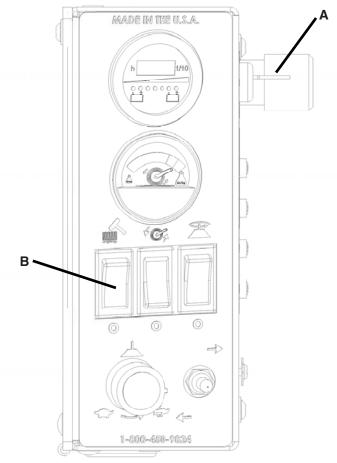
CHANGING FILTER:

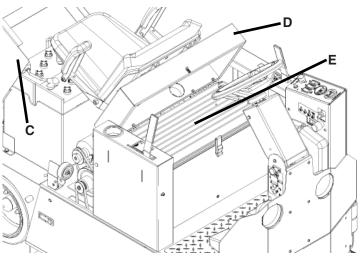
- To remove Filter, open Battery Compartment Hood (C) (SEE BELOW).
- 2. Undo the Filter Latch and lift open the Filter Chamber Lid with the Seat ontop (D).
- 3. Pull out old Filter and replace with new one (E).

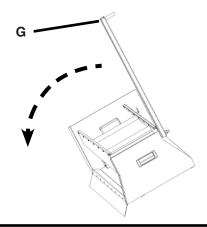
EMPTY HOPPER:

- 1. After machine usage, stop and shake filter.
- 2. Turn machine OFF and remove the key.
- 3. Open the Hopper Access Side Door and remove the Hopper (F).
- 4. Use Hopper tip lever (G) for easier dumping of contents. Clean thoroughly before placing back in machine.





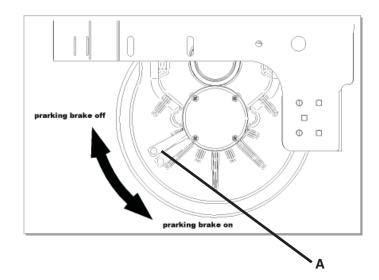




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RELEASING PARKING BRAKE OVERRIDE LEVER:

To release the Parking Brake, move the Parking Brake Override Lever *(A)* to the UP position. To return back to Override Mode - slide to the DOWN position.



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ON-BOARD CHARGER

Charger Specifications

- Output voltage of 24 Volts
- Output current of 40 amps max
- Input voltage of 110 Volts/ 60 Hz (220V/50 Hz available)
- Automatic shut off circuit
- Made for Deep Cycle Batteries

ADANGER

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.

A WARNING

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

AWARNING

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.

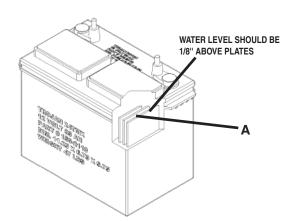
ACAUTION

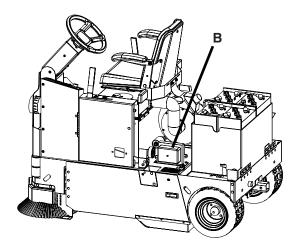
Always use the automatic battery charger provided by the manufacturer of this machine to charge the Batteries of this machine. It is designed to charge the Batteries at the appropriate rate. If you must use a different charger, disconnect the Batteries before charging to avoid damage to the electronic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

ON-BOARD BATTERY CHARGING (OPTIONAL):

- Transport machine to a well ventilated area for charging.
- 2. Turn the machine off. Open the Machine Battery Compartment.
- Check the water in each Battery (A). Do not charge the machine unless the water is slightly higher than the plates. If needed, add enough distilled water to just slightly cover the plates. Be careful not to over fill. Batteries can overflow during charging. Replace caps before charging.

- 4. Plug the Charger power cord (B) into a grounded standard wall outlet (SEE BELOW).
- 5. The charger will automatically begin charging and automatically shut off when fully charged.
- 6. After the Charger has turned off, unplug the Charger from the wall outlet.
- 7. Recheck the cell level after charging. If needed, add distilled water up to the correct level. Be certain to replace the caps securely and to wipe off the top of the Batteries with a clean cloth.





DESCRIPTION OF LED:

Red LED: Battery level low Yellow LED: Battery at ½ charge Green LED: Battery fully charged

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BATTERY CHARGING

Charger Specifications

- Output voltage of 24 Volts
- Output current of 40 amps max (Optional)
- Input voltage of 110 Volts/ 60 Hz (220V/50 Hz available)
- Automatic shut off circuit
- Made for Deep Cycle Batteries

ADANGER

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.

A WARNING

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

A 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.

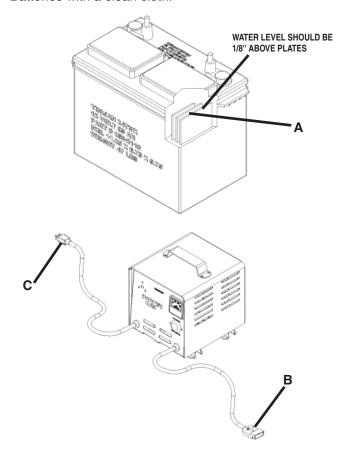
ACAUTION

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.

EXTERNAL BATTERY CHARGING:

- Transport machine to a well ventilated area for charging.
- 2. Turn the machine off. Open the Machine Battery Compartment.
- 3. Check the water in each Battery (A). Do not charge the machine unless the water is slightly higher than the plates. If needed, add enough distilled water to just slightly cover the plates. Be careful not to over fill. Batteries can overflow during charging. Replace caps before charging.
- 4. First, disconnect the batteries by unplugging the red

- 50 Charger plug. Connect the red 50 Charger plug to the machine's Charger (*B*). While the Charger plug is connected, plug the charger power cord into a grounded 110 Volt standard wall outlet (*C*).
- 5. The Charger will automatically begin charging and automatically shut off when fully charged *(check Battery gauge)*.
- After the Charger has turned off First, unplug the Charger from the wall outlet. Second, unplug the red 50 Charger plug from the Batteries and reconnect the Batteries.
- 7. Recheck the cell level after charging. If needed, add distilled water up to the correct level. Be certain to replace the caps securely and to wipe off the top of the Batteries with a clean cloth.



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BATTERY MAINTENANCE GUIDE

SAFETY:

ADANGER

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.

A WARNING

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

A 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.

A 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.

AWARNING

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.

INSPECTION AND CLEANING:

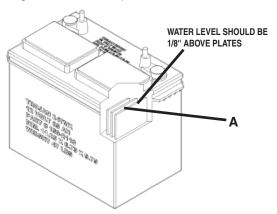
- Keep Batteries clean and dry from residue
- Check that all vent caps are tight
- Use a solution of baking soda and water to clean if acid residue on Batteries or corrosion on the terminals
- Protective spray of petroleum jelly should be applied to terminals to reduce corrosion

STORAGE:

- Batteries should be fully charged prior to and during storage
- Never store discharged Batteries
- Store Batteries in a cool, dry place but never below freezing - Recharge in storage a minimum of every 30 days
- Recharge Batteries before putting them back into service

WATERING:

- Add water, NEVER ACID, to cells (distilled water recommended).
- Do not over water
- Before charging the Batteries, only add water if the plates are exposed. Add just enough water to cover the plates, then charge the batteries. Once fully charged, add water to the proper level as indicated below.
- For full charge plus series Batteries add water to the maximum water level indicator (A).
- After watering, secure vent caps back on Batteries.



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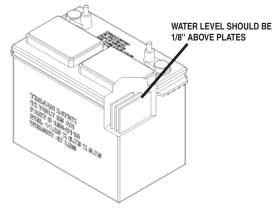
MAINTENANCE

DAILY MAINTENANCE:

- Remove the clean Brushes. Never use soiled Brushes when cleaning. Replace Brushes when they become worn.
- 2. Press Filter Shaker Switch for 20 seconds to clean out Filter. Inspect filter.
- 3. Pull out Hopper to empty and clean before machine storage.
- 4. Wipe down machine if needed. Use a non-abrasive, non-solvent cleaner or a clean damp cloth.
- 5. Recharge the Batteries if needed.

WEEKLY MAINTENANCE:

- 1. Check Battery water level in each cell of the Batteries and fill as needed. Always use distilled water to refill Batteries. Batteries should be filled approximately ¾" to 1" above the plates. Overfilling will cause the Batteries to leak during charging. The charging process creates gas bubbles inside the Battery, which effectively increases the volume of the electrolyte.
- 2. Clean Battery tops to prevent corrosion.
- 3. Flip Brushes.
- 4. Pull out Hopper to empty and clean before machine



storage.

MONTHLY MAINTENANCE:

- Check Main Broom Jackshaft Belt for wear and tension.
- 2. Check machine for Vacuum Leaks.
- 3. Inspect the Dust Curtains and replace if torn or worn.
- 4. Check to see if Battery cables are tightened. Tighten, if needed, 8-10 ft/lb MAX.
- 5. Insepct all Cables and Springs,.
- 6. Insepct all Nuts, Bolts, and Fasteners.

YEARLY MAINTENANCE:

Call your local dealer for yearly maintenance.

STORING MACHINE:

1. Be sure to clean the Hopper out completely.

CHECKING BATTERY SPECIFIC GRAVITY:

A WARNING

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

Use a hydrometer to check the Battery specific gravity.

Checking Gravity:

- Hydrometer
- Battery

NOTICE

Do not take readings immediately after adding distilled water. If water and acid are not thoroughly mixed, the reading may not be accurate.

Check the hydrometer against this chart

SPECIFIC GRAVITY @ 80°F (27°C)	BATTERY CONDITION
1.265	100% Charged
1.225	75% Charged
1.190	50% Charged
1.155	25% Charged
1.120	Discharged

NOTICE

If the readings are taken when the battery electrolyte is any temperature other than $80^{\circ}F(27^{\circ}C)$, the reading must be temperature corrected. To find the corrected specific gravity reading when the temperature of the battery electrolyte is other than $80^{\circ}F(27^{\circ}C)$: add (+) to the specific gravity reading 0.004 (4 points), for each $10^{\circ}F(6^{\circ}C)$ above $80^{\circ}F(27^{\circ}C)$. Subtract (-) from the specific reading 0.004 (4 points), for each $10^{\circ}F(6^{\circ}C)$ below $80^{\circ}F(27^{\circ}C)$.

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TR PM RECORDS

CUSTOMER INFORMATION										
CUSTOMER		EMAIL	EMAIL							
ADDRESS						PHONE				
CITY	STATE		ZIP	ZIP CONTACT		ITACT				
MACHINE INFORMATION										
MODEL #:				SERIA	SERIAL #:					
WORK ORDER#:					METER	(Kev):				
CHASSIS HOUR METER:					METER		on):			
RE-CHARGE COUNTER:					METER					
BATTERY CONDITION			CELL 1	CEI	L 2	CEL	L 3	CELL 4	CELL 5	CELL 6
BATTERY 1 HYDROMETER										
BATTERY 1 ELECTROLYTE CLARITY	,						T			
(Clear, Cloudy, Particulate, Dark)										
BATTERY 1 WATER LEVEL										
(Overfilled, Full, Low, Dry)										
BATTERY 2 HYDROMETER										
BATTERY 2 ELECTROLYTE CLARITY	/									
(Clear, Cloudy, Particulate, Dark) BATTERY 2 WATER LEVEL				_						
(Overfilled, Full, Low, Dry)										
BATTERY 3 HYDROMETER										
BATTERY 3 ELECTROLYTE CLARITY	,						\neg			
(Clear, Cloudy, Particulate, Dark)										
BATTERY 3 WATER LEVEL										
(Overfilled, Full, Low, Dry)										
BATTERY 4 HYDROMETER										
BATTERY 4 ELECTROLYTE CLARITY	/									
(Clear, Cloudy, Particulate, Dark)										
BATTERY 4 WATER LEVEL (Overfilled, Full, Low, Dry)										
CLEAN BATTERY TOPS. CHECK BA	TTERY CAR	BLE AND	L FERMINAL	CONDITIO						
NOTES:	TTEITT ONE	JEE 7(14D	1	CONDINO						
PAD/BRUSH CONDITION										
MAIN BROOM FIBER LENGTH					ED BRUS	SHES				
BROOM DRIVER		G	OOD	\	VORN			NEEDS R	REPLACEMENT	
BROOM DRIVER & IDLER HUBS			OOD		VORN	\perp			REPLACEMENT	
SIDE BROOM CONDITION		G	OOD	١	VORN	NI	EEDS R	EPLACEMEN	T ROTATED	SIDE TO SIDE
CHECK OPERATION AND CONDITION	ON OF:			IN SPEC	REPA	IR	PROBL	.EM		
MAIN POWER SWITCH OR KEY SWI	TCH									
STEERING WHEEL TILT MECHANISM	M									
HORN										
HEAD LIGHTS										
BATTERY / HOUR METER GAUGE										
BROOM AMP GAUGE										

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MAIN BROOM SWITCH
SIDE BROOM SWITCH
FILTER SHAKER SWITCH
FORWARD / REVERSE SWITCH

FOOT DED.	1			
FOOT PEDAL				
BACK UP ALARM				
SIDE BROOM SPEED CONTROL RHEOSTAT				
MAIN BROOM BELTS				
MAIN BROOM LIFT CABLE				
SIDE BROOM LIFT MECHANISM				
MAIN BROOM MOTOR				
SIDE BROOM OPERATION				
STROBE LIGHT				
BATTERY CHARGER CONNECTORS				
BATTERY CHARGER				
CLEAN AND / OR LUBRICATE	IN SPEC	REPAIR	PROBLEM	
FILTER (20 SEC W/ SHAKER SWITCH)				
HOPPER				
SIDE BROOM LINKAGE				
REMOVE BROOM & CHECK DRIVERS FOR DEBRIS				
STEERING CHAIN				
VISUALLY INSPECT	IN SPEC	REPAIR	PROBLEM	
SEAL UNDER FILTER				
HOPPER CURTAIN				
HOPPER SIDE CURTAIN				
MAIN BROOM CURTAIN (REAR)				
SIDE DOOR CURTAIN				
INNER SIDE CURTAIN				
VACUUM HOSE				
DRIVE WHEEL CONDITION				
REAR WHEELS CONDITION				
COMMENTS				
SERVICING DISTRIBUTOR:			_	
	<u>-</u>	_		
TECHNICIAN'S NAME:	DATE	= :	SIGNATURE:	
OLIOTOMEDIO NANTE	D 4-7-1	- .	CIONATURE	
CUSTOMER'S NAME:	DAIL	=:	SIGNATURE:	

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TROUBLE-SHOOTING

PROBLEM	CAUSE	SOLUTION
No power - Nothing operates	Faulty Key Switch	Contact Local Servicing Dealer
	Batteries need charging	See CHARGING BATTERIES
	Faulty Batteries	Replace Battery
	Loose Battery Cable	Tighten loose cable
Main Broom does not sweep	Main Broom is not down	Slide Main Broom Lever to the down position
	Foot Pedal is not depressed	Engage Foot Pedal
	Main Broom Circuit Breaker tripped	Reset 40 Amp Breaker
	Carbon Brushes worn	Contact Local Servicing Dealer
	Fault Motor or Wires	Contact Local Servicing Dealer
Drive Motor does not operate	Recharge Switch misadjusted	Contact Local Servicing Dealer
	Faulty Speed Controller or Wires	Contact Local Servicing Dealer
	Faulty Drive Motor	Contact Local Servicing Dealer
	Faulty Wiring	Contact Local Servicing Dealer
	Carbon Brushes worn	Contact Local Servicing Dealer
Drive Motor runs incorrectly	Faulty Speed Controller or Wires	Contact Local Servicing Dealer
	Faulty Potentiometer	Contact Local Servicing Dealer
	Loose Wires	Contact Local Servicing Dealer
Poor Dust Control	Filter clogged	Press Filter Shaker Switch for 20 seconds
	Hopper Gasket faulty	Replace Gasket
	Hopper full	Empty Hopper
	Faulty Vacuum fan	Contact Local Servicing Dealer
	Battery Charge is low	Fully charge batteries
	Wet Sweep By-pass Door is open	Close By-pass Door

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MACHINE SPECS

BODY CONSTRUCTION/DIMENSIONS

Frame Construction: Front Drive Wheel:

Rear Wheels: Size $(L \times W \times H)$:

Weight (without Batteries):

Weight (with standard Batteries):

SWEEPING SYSTEM

Sweeping Method:

Broom (length \times dia): Broom Power/Speed:

Side Broom Size:

Side Broom Power: Side Broom Speed:

Hopper Capacity

FILTERING SYSTEM

Filtering Material:

Filter Rating:

Size:

Vacuum Rating:

BATTERY SYSTEM

System Voltage:

Standard Battery Ah Rating: Optional Battery Ah Rating:

Battery Run Time (Standard):

Charger (Automatic):

DRIVE SYSTEM

Drive Power:

Speed Control:

PRODUCTIVITY

Cleaning Width:

Cleaning Rate:

GENERAL

Sound Level: Standard Equipment:

Optional Equipment:

TR

3/16" Steel (.47625 cm)

 $10" \times 3" [25 \times 8 cm]$

 $(2\times)$ 14" \times 5" [$(2\times)$ 36 \times 13 cm] $64" \times 37" \times 50" (163 \times 94 \times 140 \text{ cm})$

850 lb

1140 lb

Direct Throw

 $32" \times 10" (81 \times 25 cm)$

1.0 hp / 435 rpm

(2×) 17"

(2×) 0.3 hp

100 rpm

4.2 cubic ft

Polymer Felt

1 Micron

5,182 sq. inches

280 cfm

24 Volts

(4x) 245 Ah

Up to (4x) 420 Ah

Up to 7 Hrs

25 Amp

2.0 hp (1491 watts)

0-4 mph

46"

60,568 sq.ft/hr

71 dBA

Low Battery Indicator

Non-Marking Tires, Artifical Turf Pack-

age, Strobe Light

COMMON WEAR PARTS

CYLINDRICAL BROOMS:

BROOM TYPE	PART #'S
Poly	8-401
Nylon	8-401N
Carpet Broom	8-401NN
Poly & Steel	8-401S
Union	8-401U
Union & Steel	8-401US

SIDE BROOMS:

SIDE BROOM TYPE	PART#'S
Poly	4-402
Poly & Steel	4-402S

FILTER KITS:

FILTER TYPE	PART#'S
Standard Filter Assembly (Includes Tape Seal Kit, Grill, and Filter)	4-500
Standard Filter Kit (Includes Tape Seal Kit and Filter)	4-502D
1 Micron Filter	4-502
0.2 Micron Filter	4-502F
Nomex Filter	4-502N
Filter Tape Seal Kit	4-502K

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STANDARD WARRANTY POLICY

RPS Corporation warrants its Machines and Original Equipment Accessories to be free of manufacturer's defects in materials or workmanship for the periods specified below. Warranty will be granted at the sole discretion of RPS Corporation and is subject to final claim and parts review by RPS Corporation and its vendors. This policy is effective January 1, 2014 and is subject to change on production units at a future date.

COVERAGE, EXCLUSIONS AND LIMITATIONS:

BATTERY POWERED MACHINES:

PARTS: 36 months or 1,500 hours (Power On meter)

LABOR: 12 months

TRAVEL: 3 months (150 mile maximum)

POLY TANKS: 7 Years or 3,000 hours (Water must not exceed 135°F/57°C)

Freight coverage for 3 Years under the parts section of warranty.

AC POWERED MACHINES:

FLOOR MACHINES: All EDGE and ORBITZ Models

PARTS: 1 Year LABOR: 90 Days

MOTOR: 2 Years(1,500 hour)

ZERO3 WALL MOUNT/PORTABLE UNITS: Unit Must be Shipped back to Factory

PARTS: 6 Month

BACKPACK VACUUMS: Unit Must be Shipped back to Factory

PARTS: 3 Years / Lifetime Housing Warranty

LABOR: 3 Years

CARPET SPOTTER/EXTRACTOR: Unit Must be Shipped back to Factory

PARTS: 3 Years LABOR: 3 Years

NEW PARTS: 90 day warranty on OEM replacement parts (when installed by an authorized dealer)

VALIDITY: Machine is serviced by Factory Authorized Personnel and a fully completed Machine Delivery Form (online or fax) is

on record at RPS Corporation.

LIMITATION: Warranty will begin on date of machine installation to end-user or 6 months after shipment from RPS Corporation to

the distributor if unsold at that time.

This warranty includes all parts and original equipment accessories on the machine except **normal wear items**. Some examples of these wear item exclusions are:

- EDGE/ORBITZ isolators (1,000 hours on average)
- EDGE/ORBITZ Grip Face
- Squeegee Blades, Wiper Blades, Skirts and Curtains.
- Caster Wheels, Squeegee Wheels and Bumpers.
- · Lights (Strobe, Headlights, or Bulbs).
- Chains and Belts.
- Filters, Screens, and Vacuum Bags.
- Motor Brushes and/or commutator wear.
- Brooms, Brushes, Pads and Pad Retainers.
- Hoses and Tubing.
- Drive Tires, Foam Filled/Pneumatic Wheels, Tubes or Valve Stems.
- · Rubber Floor Seals or Gaskets.
- Vacuum motors with evidence of moisture or debris intrusion or > 400 hours.
- Batteries (see below)

NOT COVERED: Routine maintenance, adjustments or parts damaged from abuse, neglect, improper use of the machine, or lack of scheduled "daily, weekly, monthly" maintenance in accordance with our published PM Sheets.

BATTERIES: Warranted through the battery manufacturer for One Year (pro-rated) from the date of delivery. The battery manufacturer approves or denies the warranty coverage after their analysis. Labor and Travel credit through RPS is applicable once a warranty defect has been confirmed.

NOT COVERED: Damage from lack of maintenance/lack of water, use of a non-OEM charger, or use of non-distilled water

BATTERY TERMINALS: Battery terminals and cable connections are covered for 30 days from the shipment of the machine. (Battery terminals and cables should be inspected, cleaned and secured upon installation of the machine and then every 30 days thereafter.)

MACH	INE INSTALL / WARRA	INTY REGISTRATI	ON		
Installing Dealer:	stalling Dealer:Installed By:				
Location: (City, State):		Install Date:			
End-User Company Name:	1	End-User Contact: _			
Address:	City/Sta	ate:	Zip:		
Phone:	Fax:	Email:			
Model:	Serial #:	Hour I	Meter:		
BUYER'S REPRESENTATIVE HAS RECEIVE SCRUBBERS: - Filling solution tank, Solution tank and a solution tank and padjusting and padjust and padjust and padjust and padjust and padjust and padjust and and and padjust and and padjust and and padjust and and and padjust	sight tube, Solution drain hose or valuble scrubbing, Squeegee lift delay, in APPROVED locations only, Combat dinstallation and maintenance for water control removal and cleaning) ers (key switch, brush, traction drive oth tanks are fully drained king for clogs are proper removal and replaceme perating range to avoid tripping the replacement of main broom and side emptying out the debris hopper anom and side broom levers, and underside door and not to operate through shave their isolators & deck hour metallice.	alve for flushing and freezing High Recovery RED Light, v amon Squeegee hose clog po e, vacuum) nt of burnishing pad circuit breaker le brooms d correct installation erstands to park with brushes standing water	conditions vacuum switch (horn honking) and pints, vacuum screen removal and s in UP position		
- Parking Brake works and Park Brainclinded surface - Charging operation and customer - Seat and steering wheel adjustme - Customer has read and understar - Battery and Machine Maintenance - Manufacturer's website is a good s	understands batteries have limited nt lost the list of WARNINGS/CAUTION Guide posters hung up and review source of information (Videos, PM Se delivered, reviewed, understood,	Always park on a solid and le "cycles" and recharging = 1 of NS in the Operator manual or or or operator manual or operator and sign up for quart	cycle		
Installed By (print)		Signature			
Buyers Representative (print)		Signature			

Buyer agrees to pay for any repairs, adjustments, or secondary training that manufacturer determines is excluded from the warranty.

Complete Online at www.rpscorporation.com

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