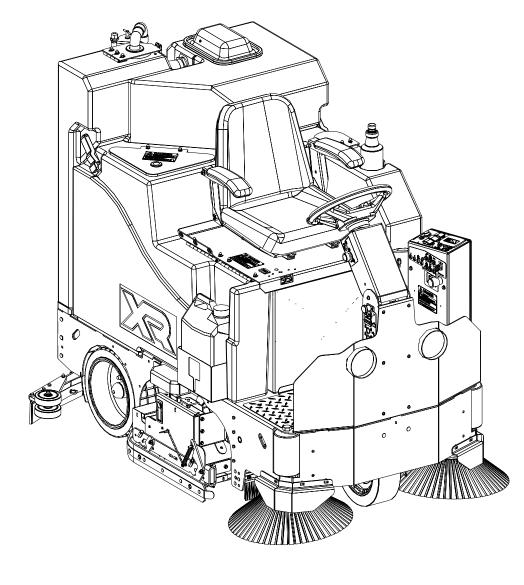


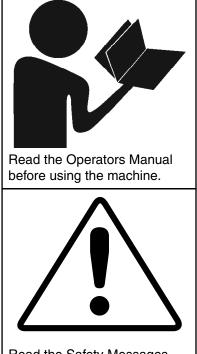


Operating Instructions (EN)

MODELS:

34" Disk 40" Disk 45" Disk 34" Cylindrical 40" Cylindrical 46" Cylindrical





Read the Safety Messages before servicing machine.

www.rpscorporation.com 1711 South Street Racine, WI 53404 (USA) (800) 450-9824 | (+001) 262-681-6470 © 2016 RPS Corporation

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
- Scrub Brushes
- Adjusting Squeegee
- Service Schedule
- Machine Trouble Shooting

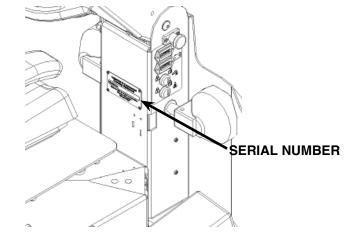
TROUBLE SHOOTING: A list of common problems that may occur.

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 control panel 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:

DANGER

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

WARNING

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

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. CAU-TION 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 Brushes
- Keep your hands and feet away from the rotating Brushes
- Do not operate this machine where flammable liquids are present
- Use caution when maneuvering

BEFORE LEAVING THE MACHINE:

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

BEFORE SERVICING THE MACHINE:

Disconnect the Batteries

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.

Flammable materials can cause an explosion or fire. Do not use flammable materials in Tank or pick up.

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 $135^{\circ}F/57^{\circ}C$. 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.

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

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

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.

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

WARNING

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

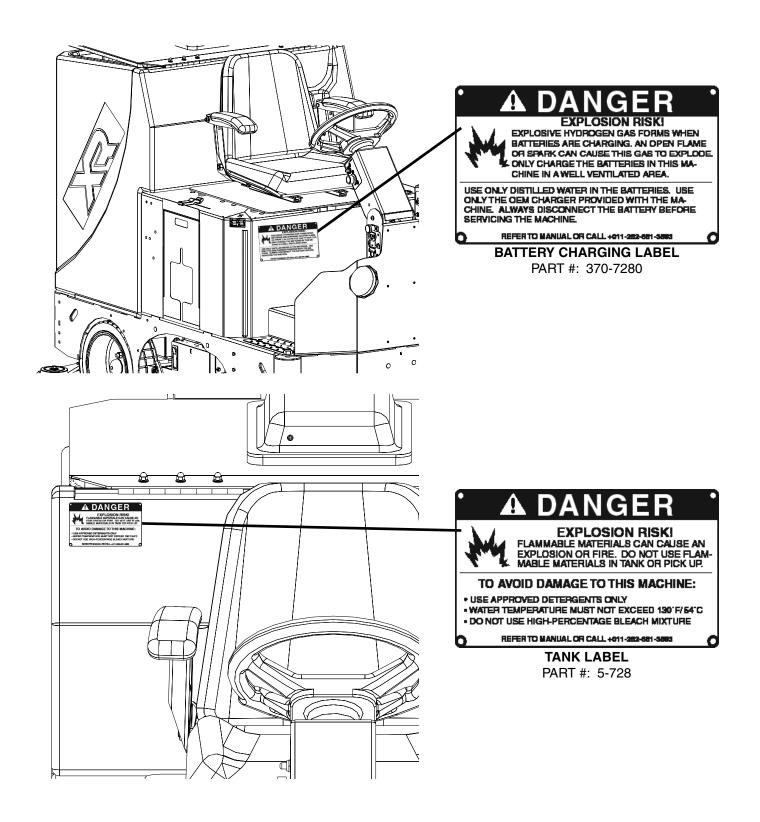
Always use the automatic battery charger provided by the manufacturer of this machine to charge the Batteries of this machine. It is designed to charge the Batteries at the appropriate rate. If you must use a different charger, disconnect the Batteries before charging to avoid damage to the electronic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

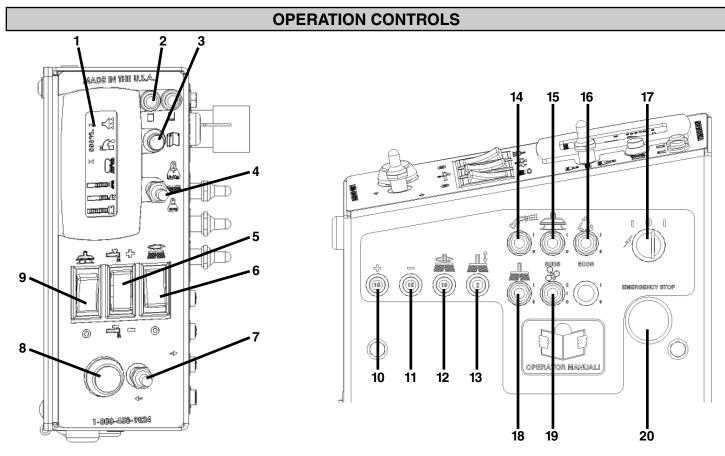
To avoid damage to the electronic control components of this machine, Do not store this machine outdoors. Do not pressure wash this machine.

SAFETY LABEL LOCATIONS

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

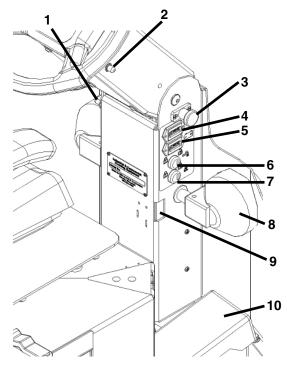
These images indicate where on the XR Safety Labels are located. If ever the labels become illegible, worn off, or torn, promptly report it to your supervisor and replace it.





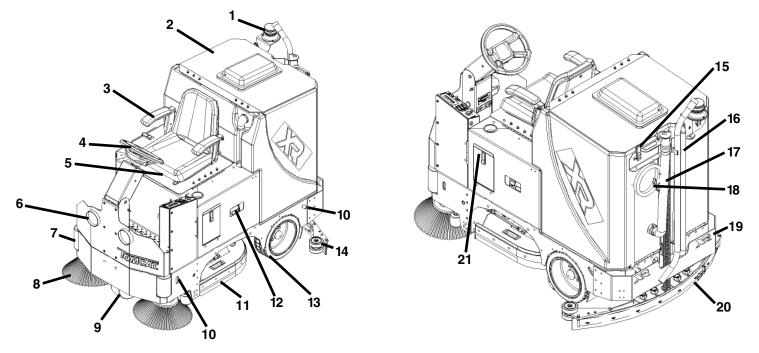
- 1. LCD SCREEN: Lists functions and settings of the machine
- 2. HIGH WATER RECOVERY LIGHT [RED]: Indicates when the Recovery Tank is nearly full
- 3. **MENU CONTROL:** Scrolls through different options on the LCD display there are 3 different screens it will scroll through
- 4. **DOWN PRESSURE TOGGLE SWITCH [BLACK]:** Controls the pressure to the Scrubdeck push up (+) for higher down pressure, down (-) for lower pressure
- 5. SOLUTION FLOW CONTROL SWITCH: Push down (-) to reduce and push up (+) to increase the solution flow
- 6. SCRUBDECK SWITCH: Raises and lowers the Scrubdeck
- 7. **REVERSE SWITCH:** Pull back for machine drive reverse
- 8. UNITOUCH BUTTON: Activates Scrubdeck, Squeegee, and Solution Flow simultaneously
- 9. SQUEEGEE SWITCH: Raises and lowers the Squeegee
- 10. CIRCUIT BREAKER: 15 amp Positive Bus Bar
- 11. CIRCUIT BREAKER: 15 amp Negative Bus Bar
- 12. CIRCUIT BREAKER: 10 amp Side Broom Motors
- 13. CIRCUIT BREAKER: 2 amp Side Broom Lift Actuator
- 14. SPRAY JET [BLUE] (OPTIONAL): Activates Water Pump for remote Spray Wand
- 15. VACUUM SWITCH [WHITE] (OPTIONAL): Activates Vacuum Motor for remote Vacuum Wand
- 16. ECON TOGGLE SWITCH [GREEN] (OPTIONAL): Reduces power to give machine a longer run time
- 17. KEY SWITCH: Turns power of the machine ON and OFF
- **18. SIDE BROOM SWITCH [YELLOW] (OPTIONAL):** Turns power of the side brooms *ON* and *OFF* as well as lifts and lowers automatically
- 19. "ON-BOARD" SOAP SYSTEM [GRAY] (OPTIONAL): Dispenses soap directly to the Scrubdeck level
- 20. EMERGENCY STOP (OPTIONAL): 1 button push machine shut down in case of emergency

OPERATION CONTROLS

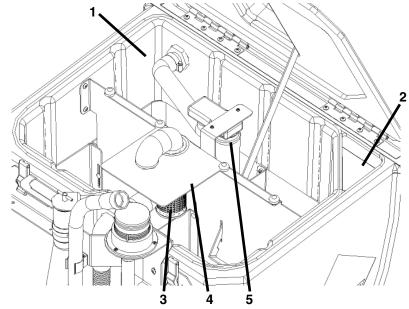


- 1. HEADLIGHT SWITCH: Turns power of the Headlight ON and OFF
- 2. **HORN:** Sounds the horn for warning oncoming traffic
- 3. ADJUSTABLE STEERING: Four settings for operator comfort and easy of entry
- 4. HOUR METER: Hour meter to indicate complete time machine has been *ON*
- 5. **RECHARGE CYCLE METER:** Shows the amount of charges on a machine
- 6. MANAGER SOLUTION LOCKOUT (OPTIONAL): Allows ability to set Solution Flow and then remove Key to not allow changing of parameters
- 7. MANAGER DOWN PRESSURE LOCKOUT (OPTIONAL): Allows ability to set Down Pressure and then remove Key to not allow changing of parameters
- 8. **HEADLIGHT:** Helps you see in low-light areas and to warn oncoming traffic
- 9. CHARGER PORT: Grey 50 used to receive charger input for optional external charger
- **10. FOOT PEDAL:** Controls the acceleration and deceleration of the machine

MACHINE COMPONENTS



- 1. STROBE LIGHT (OPTIONAL): Optional Strobe Light silently alerts others nearby of the machines presence
- 2. RECOVERY TANK LID: Latch must be secured for Recovery Tank to seal properly
- **3. ADJUSTABLE SEAT WITH ARM RESTS:** The machine is equipped with an ergonomic seat with adjustable arm rests and positioning
- 4. STEERING WHEEL: Steers the main Drive Wheel
- 5. SEAT ADJUSTMENT: Permits the Seat to be adjusted forward and backward for operator comfort
- 6. HEADLIGHT: Helps you see in low light areas and to warn oncoming traffic
- 7. POLYURETHANE ROLLERS: Helps prevent damage to machine and objects you may drive near
- 8. SIDE BROOMS (OPTIONAL): Optional Side Brooms allow for debris clean up directly up to walls
- 9. FRONT DRIVE TIRE: Drives and steers the machine
- **10. TIE DOWN POINTS:** Location for tie down straps during transport
- 11. SIDE WIPERS: Controls water on turns by directing it to the Squeegee
- 12. ONBOARD CHARGER (OPTIONAL): Two optional placements for the Onboard Charger Option which allows the operator to charge machine by plugging machine directly into any standard wall outlet
- 13. REAR WHEELS: Cut for complete water control
- 14. SQUEEGEE ROLLERS: Helps protect the Squeegee
- 15. TANK LATCHES: Permits access to the Recovery Tank
- 16. SOLUTION SIGHT GAUGE & DRAIN HOSE: Shows precise level of cleaning solution in Tank while also used as a Solution Tank drain hose
- 17. RECOVERY DRAIN HOSE: Allows for controlled draining of the Recovery Tank
- **18. SPRAY JET HOSE (OPTIONAL):** Optional Spray Jet hose allows operator to utilize the Solution Tanks cleaning solution in areas where the machine may not reach to scrub
- 19. REAR BUMPER: Offers squeegee system protection from damage
- 20. SQUEEGEE BLADE: Squeegees water to be recovered by the vacuum hose
- 21. ONBOARD SUDS SYSTEM (OPTIONAL): SUDs system allows the operator to precisely add soap directly to the Scrubdeck

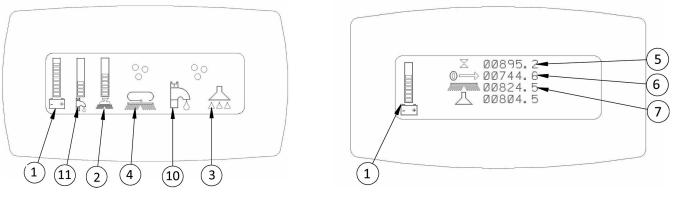


- 1. RECOVERY TANK: Holds approximately 68 gallons of dirty "recovered" water
- 2. SOLUTION FILL PORT: Holds approximately 68 gallons of clean water
- 3. DRAIN SAVER: Prevents debris from clogging drain
- 4. FOAM PROTECTION SCREEN: Used to protect the Vacuum Motor from debris
- 5. VACUUM SCREEN BOX: Houses the Dual Stainless Vacuum Screen & Shut-off balls

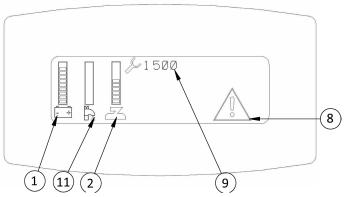
LCD SCREEN MENU DISPLAYS:

SCREEN #1 (OPERATOR)

SCREEN #2 (MAINTENANCE)



SCREEN #3 (WITH ERROR CODE)



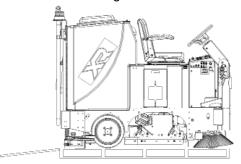
** USE GREEN MENU SELECTION BUTTON ON CONTROL PANEL TO CHANGE SCREENS **

- 1. BATTERY LEVEL INDICATOR Indicates the energy level remaining in the batteries (Shown on all menu displays)
- 2. SCRUBDECK DOWN PRESSURE GAUGE Sets the down pressure on the brushes
- 3. VACUUM ON Indicates the vacuum is ON
- 4. SCRUB MOTORS ON Indicates the brush motors are "running"
- 5. KEY SWITCH HOUR METER Indicates the total number of hours that the machine has been ON
- 6. TRANSPORT HOUR METER Indicates the total number of hours the drive system has been used
- 7. SCRUB BRUSH HOUR METER Indicates the total number of hours that the brush motors have been used
- 8. ERROR WARNING SYMBOL Indicates when there has been a diagnostic code error
- 9. DIAGNOSTIC CODE When the machine has detected an error, it will display the warning symbol and a diagnostic code which tells you what's wrong
- 10. WATER ON Indicates the solution flow is ON
- 11. SOLUTION LEVEL Indicates the gallons per minute (GPM) 0 1.0

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 $(6\times)$ 6-Volt/ 325 AH, $(6\times)$ 6-Volt/ 400 AH, $(6\times)$ 6-Volt/ 420 AH, or $(1\times)$ 36-Volt/ 440 AH Wet Lead Acid, AGM, Industrial, or Deep Cycle Batteries which form a 36 Volt system.

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

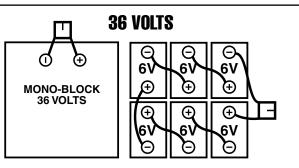
- 1. Turn all switches to the OFF position and remove Key.
- 2. Tip Tank back. Attach all Battery Cables to Terminals as shown below.
- 3. Turn *ON* main power switch and check the LCD to ensure correct installation. Charge Batteries if needed (SEE BATTERY CHARGING).

NOTICE

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

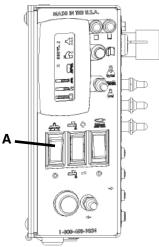
NOTICE

Orientation of Batteries is critical for cables to reach.

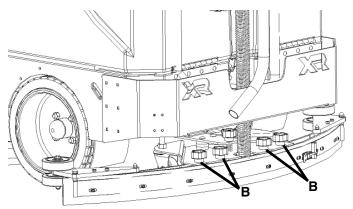


ATTACHING SQUEEGEE:

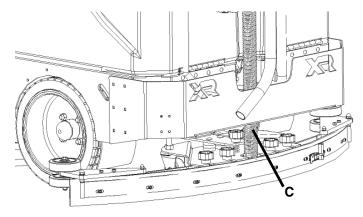
1. Lower the Squeegee Mounting Plate by depressing the Squeegee Lift switch (A) (SEE BELOW).



2. Loosen the two knobs *(B)* on the Squeegee and slide them into the slots in the Squeegee Mounting Plate *(SEE BELOW)*.



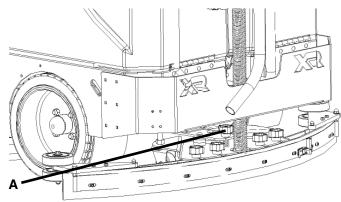
 Tighten the two knobs and connect the Vacuum Hose (C) from the machine to the Squeegee (SEE BELOW).



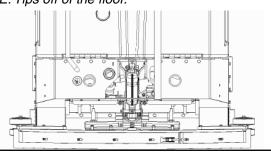
4. You may have to adjust the Squeegee Pitch (SEE ADJUSTING SQUEEGEE ON THE NEXT PAGE)

ADJUSTING SQUEEGEE:

 Turning adjustment knob (A) clockwise (tightening) will lower tips and raise the center of the Squeegee (SEE BELOW).

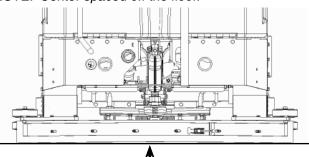


 This Squeegee is adjusted too far back and will not pick up on the corners (SEE BELOW). NOTE: Tips off of the floor.

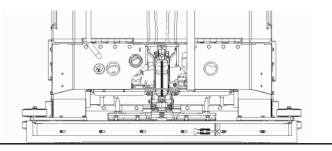


▲

 This Squeegee is adjusted too far forward and will not pick up in the center (SEE BELOW). NOTE: Center spaced off the floor.

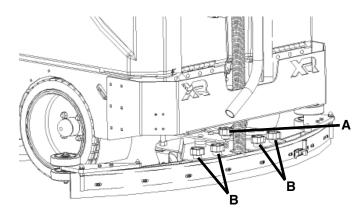


4. This Squeegee is adjusted just right with good deflection across the entire rear blade (SEE BELOW).



REMOVING SQUEEGEE:

- 1. With the Squeegee in the up position, turn machine power *OFF*.
- 2. Disconnect Vacuum Hose (*A*) from Squeegee and loosen both knobs (*B*) (SEE BELOW).



- 3. Pull Squeegee assembly backward from the lifting carrier.
- 4. Inspect or repair as needed and reinstall.

REPLACING OR ROTATING SQUEEGEE BLADES:



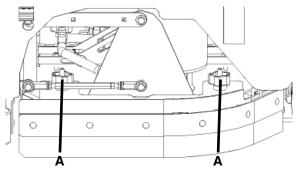
- 1. Remove the Squeegee Assembly from the machine. Remove Blade retainer strap and remove Squeegee Blade.
- 2. Rotate the Squeegee to new edge position or replace as required.
- 3. Install Blade on the locating pins of Squeegee Assembly.
- 4. Install Squeegee Retainer Strap.

⋪

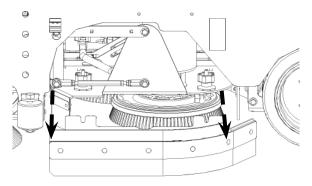
5. Fasten and lock knobs, starting in the center and moving outwards.

INSTALLING DISK PAD DRIVER OR BRUSH:

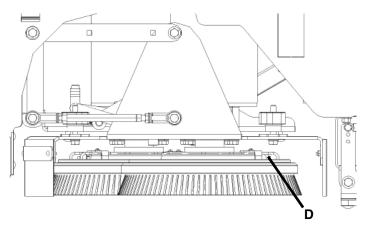
- 1. Turn ON machine power.
- 2. Raise the Scrubdeck by depressing the Brush switch to the up and *OFF* position and turn the machine power back *OFF*. Remove Key.
- 3. Loosen Star Knobs *(A)* and remove Shrouds to access the Scrubdeck (SEE BELOW).



4. If the machine is equipped with a Shroud, unscrew Shroud Star Knobs *(C)* and pull Shroud forwards - Away from the front of the Scrubdeck (SEE BELOW).

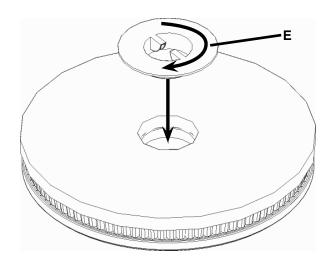


 Attach Brushes or Pads to Motor Drives. Squeeze the scissor locking device and lift brush up on to the motor drive hub. Make sure the scissors close and lock on the brushes (SEE BELOW).



INSTALLING DRIVER PADS:

- 1. Select the correct Pads that best meet your cleaning application needs. Consult your local dealer for assistance.
- 2. Pad Installation: Attach Pads to Pad Drivers before connecting drivers to motor hub. Screw center clip *(E)* into place **(SEE BELOW)**.



SCRUB BRUSHES / PADS:

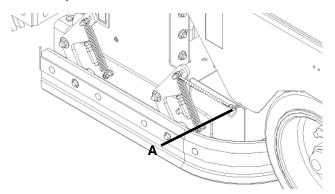
There are many different types of brushes available to cover applications from cleaning heavily soiled floors to polishing. A Pad Driver is also available to take advantage of the many cleaning pads on the market. Please refer to the "**Common Wear Parts**" page to assist in selecting the proper Brush / Pad for the work at hand.

INSTALLING CYLINDRICAL BRUSH:

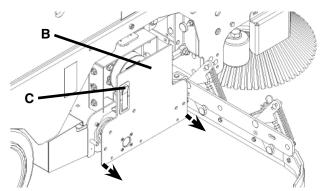
- 1. Turn ON machine power.
- 2. Raise the Scrubdeck by depressing the Brush switch to the up and *OFF* position and turn machine power back off. Remove Key.

Disconnect the batteries.

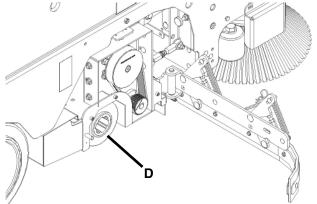
 Remove Side Wiper pin (A) and open the Wipers outward to allow access to the Cylindrical Door (B) (SEE BELOW).



 Press Side Door Latch (C) and pull door off of Scrubdeck to allow access to the brushes (SEE BELOW).



5. Slide Brush (D) into Brush area and engage onto the Brush Driver on the opposite side (SEE BELOW).

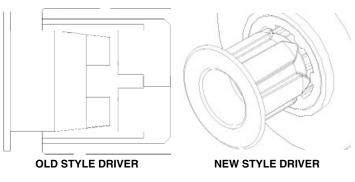


6. With Brushes engaged, re-attach the Side Door as well as the Side Wipers.

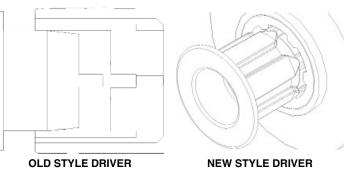
NOTICE

If the Brushes are not fully engaged with the Drivers, the Brushes will be damaged. Do **NOT** force the access door back on. This usually indicates improper Brush installation.

7. Brush drivers shown misaligned (SEE BELOW).



8. Brush driver shown properly aligned (SEE BELOW).

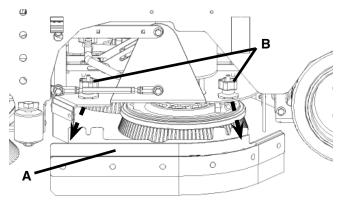


LEVELING CYLINDRICAL DECKS:

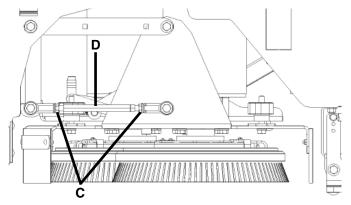
NOTICE

All Scrubdeck's should be level at time of machine delivery. If machine Scrubdeck is not level - Contact your Servicing Dealer.

- 1. Drive machine to a flat level surface and turn machine off.
- Ensure that Scrubdeck is in full upright position. Remove Shrouds (A) by loosening Star Knobs (B) and pulling away from Scrubdeck (SEE BELOW).



- 3. Turn *ON* machine and depress the Brush switch. Just before the Scrubdeck's Brushes touch the ground, turn machine *OFF*.
- Loosen the Locking Nut (C) on the Adjustable Deck Arms. Turn the Hexagonal Arm (D) on each side of the Scrubdeck to level it (SEE BELOW).

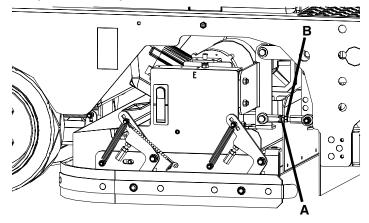


5. Extending the Adjustable Arms raise the front and lowers the rear of the Scrubdeck. After Scrubdeck has been leveled (*ensure correct pitch backward - if you have*) - retighten Locking Nuts (*C*).

NOTICE

All Scrubdeck's should be level at time of machine delivery. If machine Scrubdeck is not level - Contact your Servicing Dealer.

- 1. Drive machine to a flat level surface and turn machine off.
- 2. Ensure that Scrubdeck is in full upright position and remove brushes.
- 3. Turn *ON* machine and depress the Brush switch. Just before the Scrubdeck touches the ground, turn machine *OFF*.
- Loosen the Locking Nut (A) on the Adjustable Deck Arms. Turn the Hexagonal Arm (B) on each side of the Scrubdeck to level it. Use the levels built into the deck (SEE BELOW).



5. Extending the Adjustable Arms raise the front and lowers the rear of the Scrubdeck. After Scrubdeck has been leveled - retighten Locking Nuts (*A*).

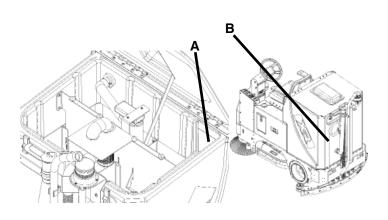
PRE-CLEANING CHECKLIST:

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

- 1. Check Battery Condition Gauge on the Control Panel. Make sure Batteries are fully charged before using.
- 2. Check the condition of the Pads or Brushes.
- 3. Check the condition of the Squeegee Blades.
- 4. Raise the Scrubdeck and Squeegee before transporting then transport the machine to the filling station.
- 5. Turn the machine OFF.
- 6. Fill the Tank with up to 68 gallons of clean water at the fill port *(A)* (SEE BELOW).
- 7. Add **APPROVED** cleaning chemical to the Tank. Use the proper dilution ratio indicated on the bottle. Contact us at 1(800)-634-4060 or +011-262-681-3583 if unsure.

NOTICE

The clear tube (Solution Sight Tube) (B) at the rear of the machine indicates the amount of water in the Tank (SEE BELOW).



EXPLOSION RISK! Flammable materials can cause an explosion or fire. Do NOT use flammable materials in Tank or pick up.

TO AVOID DAMAGE TO THIS MACHINE:

- Use APPROVED detergents only
- Water temperature must not exceed 130°F/54°C
- Do NOT use high-percentage Bleach mixture

OPERATING HINTS:

- 1. Observe the amount of solution the machine is dispensing on the floor and adjust to the desired flow. To increase the solution flow rate, press the Solution Control Switch up. To shut the solution *OFF* completely, just release the Foot Pedal, or use dash mounted switch.
- Keep an eye on the clear Vacuum cover to make sure that there is not any foamy buildup in the Recovery Tank. If excess foam begins to develop, pour a recommended foam control solution into the Recovery Tank. Foam is usually an indication of excessive soap.
- 3. Always operate at lower speeds when scrubbing around walls and objects. You should reduce the speed to maintain control when turning.
- If Squeegee starts to streak, raise and wipe the Blades with a clean cloth. if the problem continues, check the Squeegee Blades for wear or damage and rotate if needed. You may need to pre-sweep before scrubbing. (Only Use OEM Parts)
- 5. Change or turn over Brushes / Pads when dirty.
- Stay clear of objects protruding from the floor such as sockets, grates, etc, for they will damage the Brushes / Pads and Squeegee Blades.
- 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.
- 8. When you run out of solution, raise the Scrubdeck and continue to Vacuum the remaining water until it is all consumed. The Solution Sight Tube is used to indicate the level of detergent remaining in the Tank.
- 9. When you are ready to stop, raise the Scrubdeck, turn *OFF* the solution switch, raise the Squeegee and drive the machine back to the charging area. Be sure to drain both Tanks before storing the machine.

ONE PASS SCRUBBING:

- 1. Turn on machine Key Switch (A).
- 2. Lower the Squeegee by depressing the Squeegee Switch *(G)* (*Vacuum Motor will turn on automatically*).
- 3. Lower Scrubdeck head to the floor by pressing the Scrubdeck Switch on the Control Panel (D).
- 4. Press up or down on the Solution Flow Switch *(C)* to regulate the amount of solution flow.
- 5. Begin scrubbing by depressing the Foot Pedal *(H)* slowly and then to the speed required.
- 6. Once the machine begins to move, check the down pressure on the LCD screen. To adjust the down pressure, push toggle switch (B) forward to increase pressure backward to decrease pressure. Start scrubbing at the #1 or #2 marks. Do not use the #4 or #5 marks without management's approval.
- To operate the machine in reverse, simply switch the Reverse switch (*E*) back towards the rear of the machine. The reverse speed is set to approximately 50% of the forward speed.
- 8. To stop the machine, release the Foot Pedal and the machine will stop automatically *(H)*.
- Depressing the green Uni-Touch button (F) activates the Scrubdeck, Vacuum, and Squeegee simultaneously.

SCRUB ONLY:

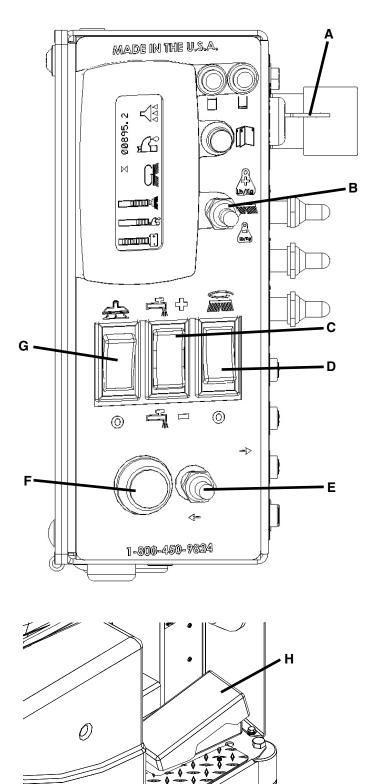
- 1. Turn on machine Key Switch (A).
- 2. Lower Scrubdeck head to the floor by pressing the Scrubdeck Switch on the Control Panel (D).
- Press up or down on the Solution Flow Switch (C) to regulate the amount of solution flow.
- 4. Begin scrubbing by depressing the Foot Pedal *(H)* slowly and then to the speed required.
- 5. Once the machine begins to move, check the down pressure on the LCD screen. To adjust the down pressure, push toggle switch (B) forward to increase pressure backward to decrease pressure. Start scrubbing at the #1 or #2 marks. Do not use the #4 or #5 marks without management's approval.
- To operate the machine in reverse, simply switch the Reverse switch (E) back towards the rear of the machine. The reverse speed is set to approximately 50% of the forward speed.
- 7. To stop the machine, release the Foot Pedal and the machine will stop automatically *(H)*.

VACUUM ONLY:

- 1. Turn on machine Key Switch (A).
- 2. Lower the Squeegee by depressing the Squeegee Switch *(G)* (*Vacuum Motor will turn on automatically*).
- 3. Begin vacuuming by depressing the Foot Pedal *(H)* slowly and then to the speed required.
- 4. To stop the machine, release the Foot Pedal and the machine will stop automatically *(H)*.

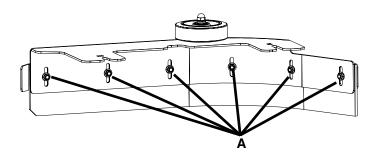
ADJUST SOLUTION FLOW:

 Push UP (+) on the Solution Flow switch (C) to increase the solution flow and push DOWN (-) on the toggle to decrease solution flow (SEE BELOW).



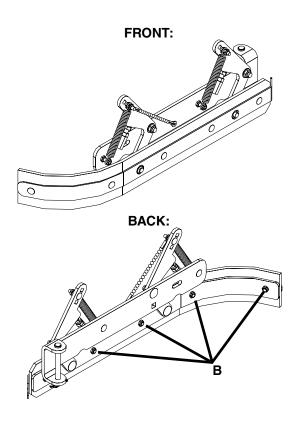
ADJUST SHROUDS BLADES:

- For Shroud rubber adjustments, loosen the Nylok Nuts (A) on the back of the Shrouds (SEE BELOW).
- 2. To adjust rubber to the desired height, just slide the curtain up or down in the slits and tighten screws.
- 3. Reattach the Shroud to the Scrubdeck by sliding back on and tightening the Star Knobs.



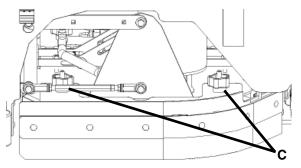
ADJUST WIPERS BLADES:

- For Cylindrical side Wipers, open wipers by releasing the pin. Loosen Wiper band screws (B) (SEE BELOW).
- 2. To adjust Wiper to the desired height, just slide the Wiper up or down in the slots and tighten the screws.

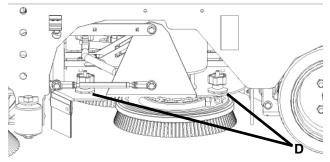


ADJUST SHROUDS:

1. For Shroud adjustments, loosen the Start Knobs (*C*) and remove Shroud (SEE BELOW).



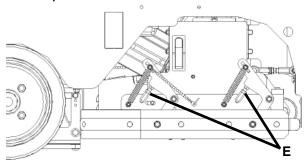
2. Spin the Red Shroud Adjustment Knobs *(D)* up or down on the Shroud Support Bolt **(SEE BELOW)**.



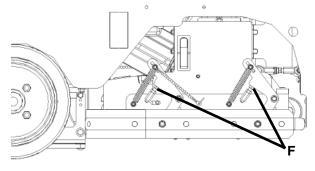
3. Once adjusted to the proper height, tighten shrouds back in place.

ADJUST CYLINDERICAL WIPERS:

 To adjust the Wiper Blades on a Cylindrical Scrubdeck machine, first loosen the locking nut (E) (SEE BELOW).

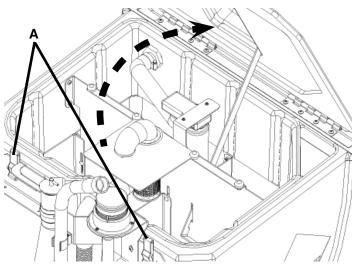


 Turn the adjustment screw (F) in to raise the wipers or out to lower the wipers. The spring (C) provides tension during adjustment (SEE BELOW).



OPEN RECOVERY LID:

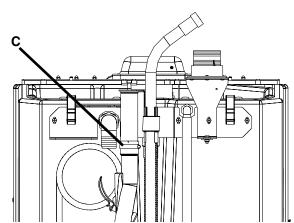
1. Release both latches *(A)* on Recovery Tank lid **(SEE BELOW)**.



2. Rotate lid fully open.

FLUSH RECOVERY TANK:

- 1. Rinse the Recovery Tank after every use. This will prevent heavy build-up on the bottom of the tank, foul odors as well as clogging of the Drain Hose.
- 2. Remove Drain Hose (C) and open to allow for drainage of the Recovery Tank (SEE BELOW).
- 3. Flush Recovery Tank with water hose.



4. After rinsing, reattach the Drain Hose *(C)* on stopper (SEE ABOVE).

NOTICE

Get Supervisor approval first and drain at APPROVED locations only. NON-APPROVED Locations include Storm Drains, Loading Docks, Etc.

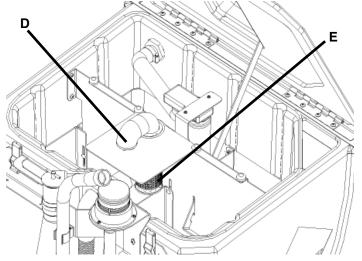
NOTICE

Keep water off of Control Panel.

CLEAN "DRAIN SAVER":

With Recovery Lid open and Tank fully drained:

- 1. Remove 2" Squeegee Intake Hose *(D)* from "Drain Saver" strainer *(E)* (SEE BELOW).
- 2. Remove stainless screen and dispose of debris.
- 3. Rinse screen with fresh water from the



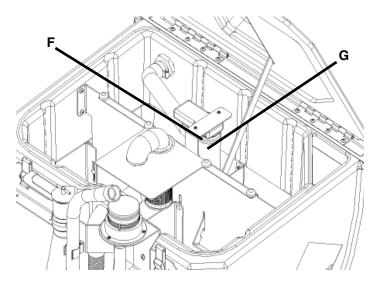
outside while holding the screen upside down. This will allow for better cleaning.

- 4. Replace the screen into the bracket.
- 5. Replace 2" Squeegee Intake Hose.

CLEAN VACUUM SCREEN:

With Recovery Lid open and Tank fully drained:

- 1. Remove Vacuum Screen retaining clip (F) (SEE BELOW).
- 2. Pull Vacuum Screen and float ball assembly (G) off of the Vacuum Box.
- 3. Rinse with hot water.
- 4. Dry thoroughly.
- 5. Replace the Vacuum Screen onto box.
- 6. Replace and tighten retaining clip.

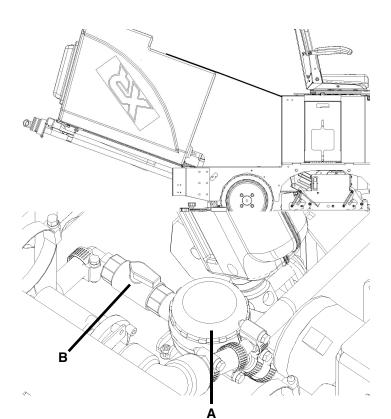


SOLUTION FILTER:

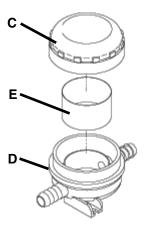
The solution system has an "Inline Filter" (A) to filter out cleaning solution prior to scrubbing (SEE BELOW).

CLEANING SOLUTION FILTER:

1. To clean the Solution Filter, tip tank and then close Gate Valve (*B*) (SEE BELOW).



- Unscrew the clear cap (C) from house (D) and remove the stainless steel screen (E) (SEE BELOW).
- 3. Rinse any debris from the screen with clean water.
- 4. Reinstall screen and screw cap back on tightly.

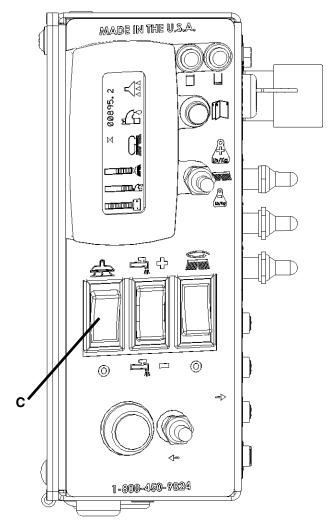


SQUEEGEE UP:

 To raise the Squeegee off the floor, press the Squeegee Vacuum Lift switch (C) down (SEE BELOW).

SQUEEGEE DOWN:

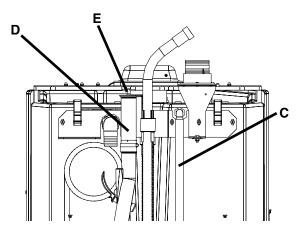
 To lower the Squeegee to the floor, press the Squeegee Vacuum Lift switch (C) up (SEE BELOW). Use with remote Vacuum Wand.



DRAINING SOLUTION TANK:

RELEASING PARKING BRAKE OVERRIDE LEVER:

To drain unwanted cleaning solution from the Solution Tank, perform the following steps: (SEE BELOW)



- 1. Tip machine Tank back and pull the clear Sight Tube/Drain Hose *(C)* off barbed fitting.
- 2. Rinse out Tank and solution flow system with clean water.

NOTICE

Get Supervisor approval first and drain at APPROVED locations only. NON-APPROVED Locations include Storm Drains, Loading Docks, Etc.

DRAINING RECOVERY TANK:

Always empty Recovery Tank when refilling the Solution Tank. You can refill the Solution Tank while the Recovery Tank is draining.

 To drain the Recovery Tank remove Drain Hose (D) by loosening the Recovery Hose Gasket (E) at the rear of the Tank and tip down (SEE ABOVE).

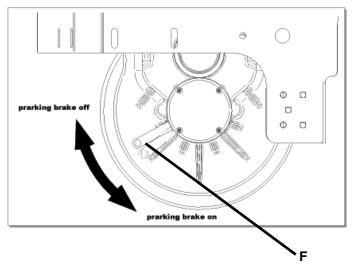
NOTICE

Leave Recovery Lid open while draining Tanks. Rinse thoroughly.

NOTICE

Get Supervisor approval first and drain at APPROVED locations only. NON-APPROVED Locations include Storm Drains, Loading Docks, Etc.

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



Charger Specifications

- Output voltage of 36 Volts
- Output current of 36 amps max (Optional)
- Input voltage of 110 Volts/ 60 Hz (220V/50 Hz available)
- Automatic shut off circuit
- Made for Deep Cycle Batteries

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.

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.

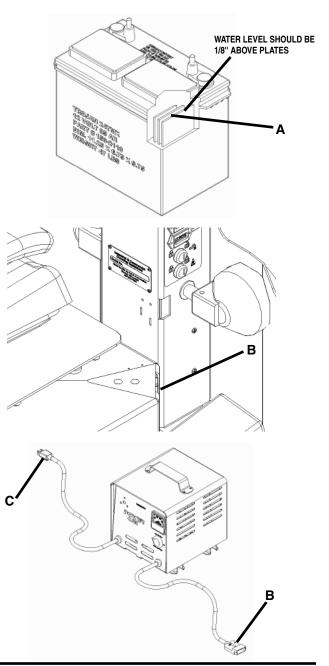
Always use the automatic battery charger provided by the manufacturer of this machine to charge the Batteries of this machine. It is designed to charge the Batteries at the appropriate rate. If you must use a different charger, disconnect the Batteries before charging to avoid damage to the electronic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

EXTERNAL BATTERY CHARGING:

- 1. Transport machine to a well ventilated area for charging.
- 2. Turn the machine off. Tip Tank back.
- 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.
- First, plug the grey 175 Charger plug into the machine's Charger Port (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 machine.
- 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.



Charger Specifications

- Output voltage of 36 Volts
- Output current of 36 amps max
- Input voltage of 110 Volts/ 60 Hz (220V/50 Hz available)
- Automatic shut off circuit
- Made for Deep Cycle Batteries

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.

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

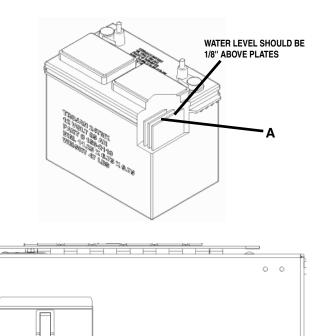
The Batteries in this machine contain sulfuric acid, which causes burns to skin. If battery acid contacts clothing or skin, rinse the effected area with cold water immediately. If battery acid gets on your face or in your eyes, flush the area immediately with cold water and seek medical attention.

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):

- 1. Transport machine to a well ventilated area for charging.
- 2. Turn the machine off. Tip Tank back.
- 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. Plug the Charger power cord into a grounded standard wall outlet and turn on the switch.
- 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

С

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

BATTERY MAINTENANCE GUIDE

SAFETY:

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.

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

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

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:

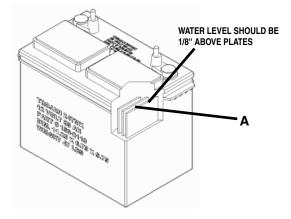
- Keep Batteries clean and dry from residue
- Check that all vent caps are tight
- Use a solution of baking soda and water to clean if acid residue on Batteries or corrosion on the terminals
- Protective spray of petroleum jelly should be applied to terminals to reduce corrosion

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).
- Water watering, secure vent caps back on Batteries.

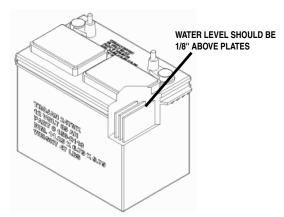


DAILY MAINTENANCE:

- 1. Remove the clean Pads or Brushes. Never use soiled Pads when cleaning. Replace Pads when they become packed with residue.
- 2. Remove and clean debris from the float shut-off screen and Drain Saver located inside the Recovery Tank.
- 3. Drain and rinse both Tanks thoroughly and flush out Solution Feed to deck in accordance with local water disposal laws.
- 4. Inspect Vacuum Hose for any objects obstructing the air flow.
- 5. Raise Squeegee and wipe Blades with a clean cloth. Store Squeegee in the raise position to prevent damage or setting of the Blades.
- 6. Wipe down machine if needed. Use a non-abrasive, non-solvent cleaner or a clean damp cloth.
- 7. Recharge the Batteries if needed.

WEEKLY MAINTENANCE:

 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 ³/₄" 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 Scrubdeck Brushes / Pads.
- 4. Drain and rinse tanks thoroughly. To thoroughly flush out any solution chemicals in solution line valves, refill solution tank with a few gallons of warm, clean water and run the machine until tank is empty.

MONTHLY MAINTENANCE:

- 1. Check Scrubdeck and Squeegee lifting cables for wear and spring tension.
- 2. Check machine for water leaks and loose nuts and bolts.
- 3. Check to see if Battery cables are tightened. Tighten, if needed, 8-10 ft/lb MAX.

4. Grease caster swivel and Squeegee Pivot Point.

YEARLY MAINTENANCE:

Call your local dealer for yearly maintenance to complete a Factory Authorized PM Checklist.

STORING MACHINE:

- Be sure to flush the Tanks out completely. To thoroughly flush out any solution chemicals in solution line and valves, refill Solution Tank with a few gallons of warm clean water and run machine until Tank is empty.
- 2. Open the Recovery Tank lid to promote air circulation.
- 3. Raise Scrubdeck and Squeegee.

CHECKING BATTERY SPECIFIC GRAVITY:

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 $80^{\circ}F(27^{\circ}C)$.

XR PM RECORDS

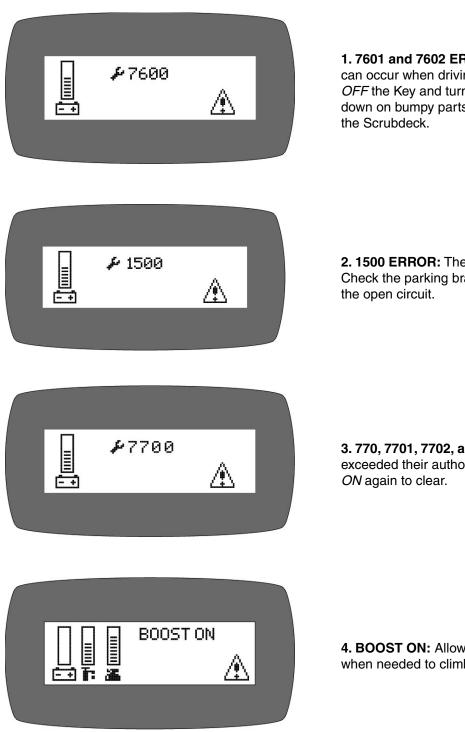
CUSTOMER INFORMATION										
CUSTOMER			EMAIL							
ADDRESS					PHO	PHONE				
CITY STATE	Y STATE		ZIP CONTACT							
MACHINE INFORMATION										
MODEL #:				SERIA	∟#:					
WORK ORDER#:				HOUR	METER	(Key):				
CHASSIS HOUR METER:				HOUR	METER	(Tractio	n):			
RE-CHARGE COUNTER:				HOUR	METER	(Scrub)):			
				HOUR	METER	(Vac):				
BATTERY CONDITION		CEL	.L 1	CEL	L 2	CI	ELL 3	CELL 4	CELL 5	CELL 6
BATTERY 1 HYDROMETER										
BATTERY 1 ELECTROLYTE CLARITY (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 (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)										
BATTERY 5 HYDROMETER										
BATTERY 5 ELECTROLYTE CLARITY (Clear, Cloudy, Particulate, Dark)										
BATTERY 5 WATER LEVEL (Overfilled, Full, Low, Dry)										
BATTERY 6 HYDROMETER										
BATTERY 6 ELECTROLYTE CLARITY (Clear, Cloudy, Particulate, Dark)										
BATTERY 6 WATER LEVEL (Overfilled, Full, Low, Dry)										
CLEAN BATTERY TOPS. CHECK BATTERY CABLE	AND TERMIN	AL COND	DITION.							
NOTES:										
PAD/BRUSH CONDITION										
SCRUB BRUSH FIBER LENGTH				ROTAT	red Bru	ISHES				
BROOM DRIVER SOCKETS (4)	G	GOOD		١	WORN		NEEDS REPLACEMENT		NT	
DRIVER IDLER HUBS	G	iood		l l	WORN			NEEDS	REPLACEME	NT
SIDE BROOM CONDITION	GOOD			١	WORN	Í	NEEDS REPLACEMENT ROTATED SIDE TO SID		ED SIDE TO SIDE	
DISK PAD DRIVER	GOOD			١	WORN			NEEDS	REPLACEME	NT
EDGE PAD GRIP FACE	G	iood		١	WORN			NEEDS	REPLACEME	NT
CHECK OPERATION AND CONDITION OF:			IN SI	PEC	REF	PAIR	PROBI	LEM		
STEERING WHEEL TILT MECHANISM										
MAIN POWER SWITCH OR KEY SWITCH										
LCD DISPLAY										
PAGE BUTTON										

BRUSH PRESSURE TOGGLE				
MANAGERS LOCK OUT				
REVERSE SWITCH				
BRUSH SWITCH				
SOLUTION +/- SWITCH				
SOLUTION SOLENOID				
LOW SOLUTION LIGHT				
BRUSH DECK LIFT SYSTEM				
BRUSH MOTORS				
VACUUM SWITCH				
VACUUM MOTOR PERFORMANCE				
OFF-BOARD VAC SWITCH				
SQUEEGEE LIFT SYSTEM				
SQUEEGEE ADJUSTMENT PITCH AND HEIGHT				
SQUEEGEE BLADES				
DRAIN HOSE AND PLUG				
SIDE BROOM OPERATION				
SPRAY JET PUMP, HOSE & NOZZLE				
BATTERY CHARGER CONNECTION & FUNCTION				
PITCH OF SCRUBDECK (MUST BE LEVEL)				
PITCH OF EDGE DECK (MUST BE LEVEL)				
FOOTPEDAL				
PARKING BRAKE				
BACK UP ALARM (REVERSE ONLY - OPTIONAL)				
CLEAN AND / OR LUBRICATE	IN SPEC	REPAIR	PROBLEM	
	1	1		
SOLUTION TANK CONDITION				
SQUEEGEE PIVOT POINTS & KNOBS				
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING				
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING SCRUB DECK LINKAGE				
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING SCRUB DECK LINKAGE STEERING CHAIN				
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING SCRUB DECK LINKAGE STEERING CHAIN VISUALLY INSPECT	IN SPEC	REPAIR	PROBLEM	
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING SCRUB DECK LINKAGE STEERING CHAIN VISUALLY INSPECT SOLUTION TANK CONDITION	IN SPEC	REPAIR	PROBLEM	
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING SCRUB DECK LINKAGE STEERING CHAIN VISUALLY INSPECT SOLUTION TANK CONDITION RECOVERY TANK & GASKET CONDITION	IN SPEC	REPAIR	PROBLEM	
SQUEEGEE PIVOT POINTS & KNOBS SOLUTION FILTER CLEANING SCRUB DECK LINKAGE STEERING CHAIN VISUALLY INSPECT SOLUTION TANK CONDITION RECOVERY TANK & GASKET CONDITION DRAIN SAVER	IN SPEC	REPAIR	PROBLEM	
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TROUBLE-SHOOTING CENTRAL COMMAND

NOTE: This machine is operated by a sophisticated electronic "controller" that has many fail safes within it. It self-analyzes problems and flashes a four-digit alpha-numeric code of what is wrong in the LCD window.

Most of these codes require a technician attention. You should not attempt repairs you are unfamiliar with, especially if you are not authorized to work on this equipment.

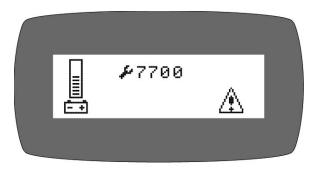


1.7601 and 7602 ERROR: Scrubdeck current over load. This can occur when driving over a bump in the floor. To restart, turn *OFF* the Key and turn it on again. To avoid this error, either slow down on bumpy parts of the floor, or reduce down pressure on the Scrubdeck.

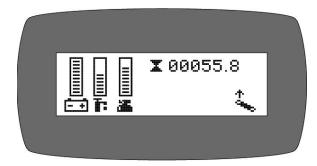
2.1500 ERROR: There is an open in the parking brake circuit. Check the parking brake wiring and the parking brake coil to find the open circuit.

3. 770, 7701, 7702, and 7703 ERROR: The vacuum motor has exceeded their authorized power limits. Turn *OFF* Key and turn *ON* again to clear.

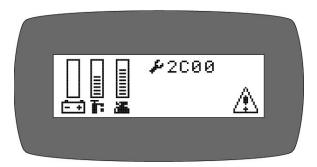
4. BOOST ON: Allows front wheel drive to draw more power when needed to climb ramps for 30 seconds.



5.7700: Vacuum Motor circuit is open.



6. Throttle ERROR: You pressed the foot pedal before turning on the key. Turn *OFF* the key and try again, leaving foot off of the pedal.



7. 2C00 and 2C01 ERROR: Low voltage warning. Voltage has dropped down below the minimum required to operate the machine. If you wait a few minutes, the Batteries may come up in voltage, allowing you to drive very slowly to the recharge station. If not, you will have to release the parking brake (on the front wheel, pull lever toward the front of the machine to release) and push the machine to recharging station. You must disconnect the traction motor! (+ cable first)

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8. 7802 ERROR: The traction motor pulled excessive current perhaps running a ramp for more than the 60 seconds allowing for this. Turn *OFF* the Key, turn on again, and continue. You should not use this machine to climb ramps so steep and so long that this code comes up repeatedly, or you could overheat the traction motor.

9. All other ERROR codes: Turn *OFF* the Key, and disconnect the positive battery cable from the Batteries for more than one minute (*the time is needed to drain the controller on-board capacitor*). Reconnect cables, being sure that it is tight. Too loose and you will burn Battery. If you over tighten the cables you can damage the Battery lead terminal. Try again.

10. If the problems cannot be solved by any of this solution, call your local dealer service department.

ROUND DISK BRUSHES:

BRUSHES	MODEL 34" DISK	MODEL 40" DISK	MODEL 46'' DISK		
Super Grit	17-421SS	20-421SS	23-421SS		
Tough Grit	17-421S	20-421S	23-421S		
Midi Grit	17-421C	20-421C	23-421C		
Light Grit	17-421PS	20-421PS	23-421PS		
Poly (.028)	17-421P	20-421P	23-421P		
Nylon (.016)	17-421N	20-421N	23-421N		
Tampico	17-421T	20-421T	23-421T		
Pad Driver	17-421D	20-421D	23-421D		
Diamond Driver	17-421DD	20-421DD	23-421DD		
Pad Driver Pad Retainer #40-433					
Pad Driver Spring Clip #40-423					

ROUND DISK PADS:

NOTICE

The ## in Disk Column Denotes Desk Pad Size: 17", 20" or 23"

DISK PADS	DISK	LEVEL	COLOR
Super Black	##-422BB	Very High	Black
Black	##-422B	High	Black
Brown	##-422BR	High	Brown
Green	##-422G	Medium	Green
Blue	##-422BL	Moderate	Blue
Red	##-422R	Moderate	Red
White	##-422W	Light	White

NEW STYLE CYLINDRICAL BRUSHES:

Tor Machine Senai #50000 & Creater					
BRUSHES		MODEL 40" CYLINDRICAL			
Super Grit	N/A	N / A	N/A		
Tough Grit	327-821S	387-821S	447-821S		
Midi Grit	327-821C	387-821C	447-821C		
Light Grit	327-821PS	387-821PS	N / A		
Poly (.028)	N / A	N / A	N / A		
Nylon (.016)	327-821N	387-821N	447-821N		

For Machine Serial #50000 & Greater

OLD STYLE CYLINDRICAL BRUSHES:

For Machines Prior To Serial #50000

BRUSHES	MODEL 34" CYLINDRICAL	MODEL 40" CYLINDRICAL	
Super Grit	N / A	N / A	N / A
Tough Grit	32-521S	38-521S	44-521S
Midi Grit	32-521C	38-521C	44-521C
Light Grit	32-521PS	38-521PS	44-521PS
Poly (.028)	N / A	N / A	N / A
Nylon (.016)	32-521N	38-521N	44-521N

SQUEEGEE BLADE KITS & COMPLETE SQUEEGEE ASSEMBLIES:

SQUEEGEE SIZE		40" CYL 40" DISK	
46" Squeegee	Standard	N / A	N / A
53" Squeegee	Optional	Standard	Optional
60" Squeegee	Optional	Optional	Standard

SQUEEGEE SIZE	GUM RUBBER BLADE KIT	LINATEX BLADE KIT	URETHANE BLADE KIT	COMPLETE SQUEEGEE ASSEMBLIES
46" Squeegee	360-770G	360-770L	360-770U	350-7180
53" Squeegee	370-770G	370-770L	370-770U	360-7180
60" Squeegee	380-770G	380-770L	380-770U	380-7180

NOTICE

Squeegee blade kits include (1) Rear Blade, (1) Front Blade, and (2) Backup Wheels with hardware.

NOTICE

Size is stamped into the top of the painted steel squeegee body on all squeegee's.

NOTICE

Squeegee Assemblies (complete) listed above all come with Linatex blades.

NOTICE

The 46" squeegee is designed for narrow aisles and may not have the same water control around tight turns as the large squeegees.





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