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# MASTERCRAFT STRIKER2010 Owner's Manual

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----- Manual continues below -----



# **ONFLOOR®**

Operators Manual

## ***STRIKER 2010***





This manual is furnished with each new Striker 2010. It provides necessary operating and preventive maintenance instructions. Read this manual completely and understand the machine before operating or servicing the machine.

This machine will provide excellent service. However, the best results will be obtained at minimum costs if:

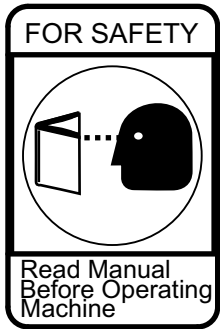
- The machine is operated with reasonable care.
- The machine is maintained regularly by following maintenance instructions provided.
- The machine is maintained with Striker 2010 supplied parts.



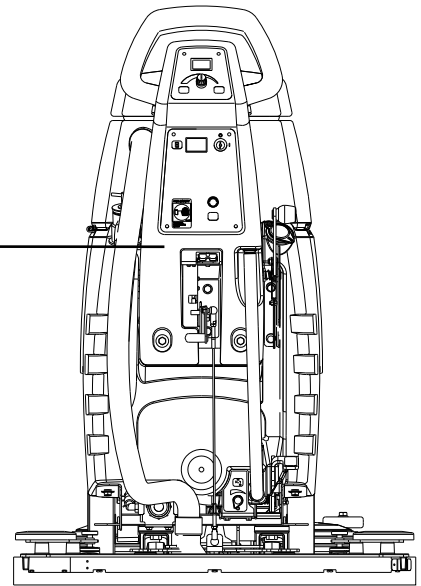
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# SAFETY PRECAUTIONS

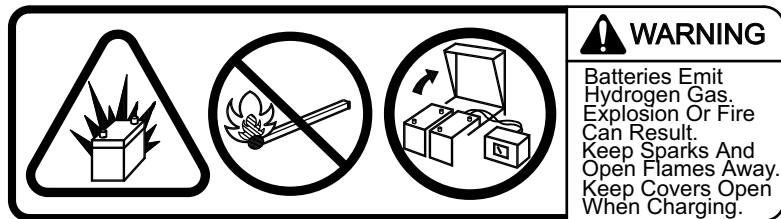
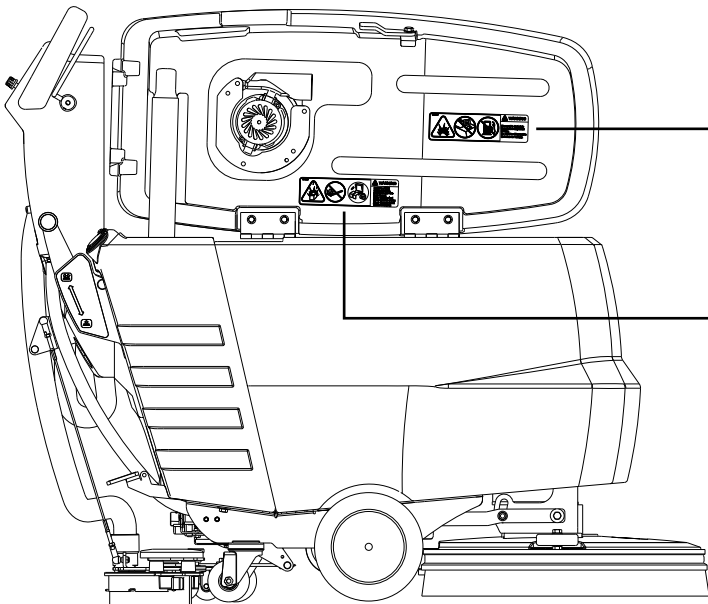
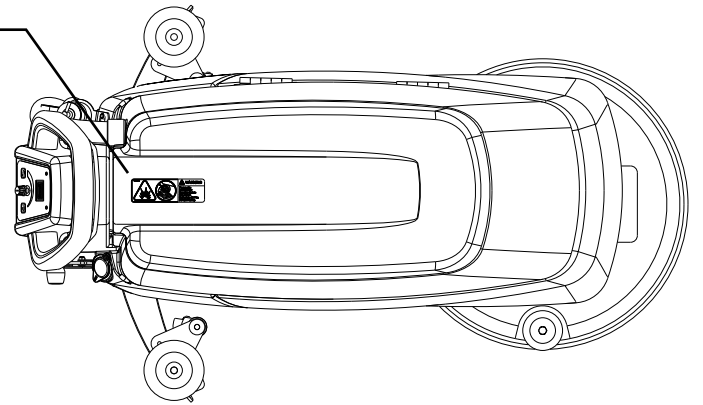
The safety labels appear on the machine in the locations indicated. If these or any label becomes damaged or illegible, install a new label in its place.



DECAL, READ MANUAL



DECAL, PICKUP WARNING



DECAL, CHARGING WARNING



OVERLAY SOLUTION WARNING

## OPERATION

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### OPERATOR RESPONSIBILITY

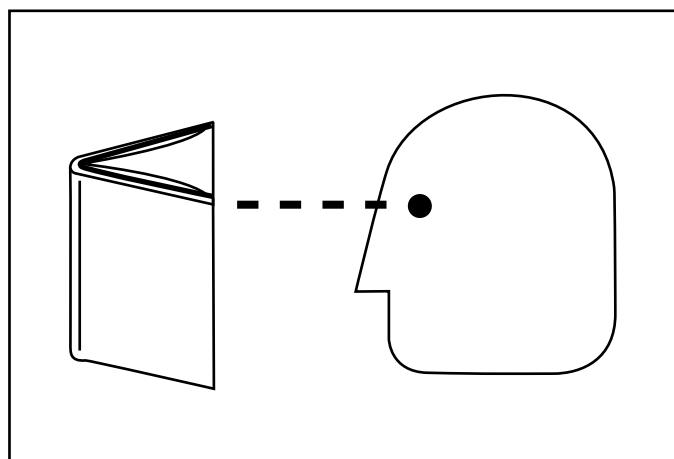
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- ❑ The operator's responsibility is to take care of the daily maintenance and inspection of the machine to maintain it in optimal working condition. It is the operator's responsibility to inform the service technician or supervisor when the maintenance intervals are required as stated in the MAINTENANCE section of this manual.

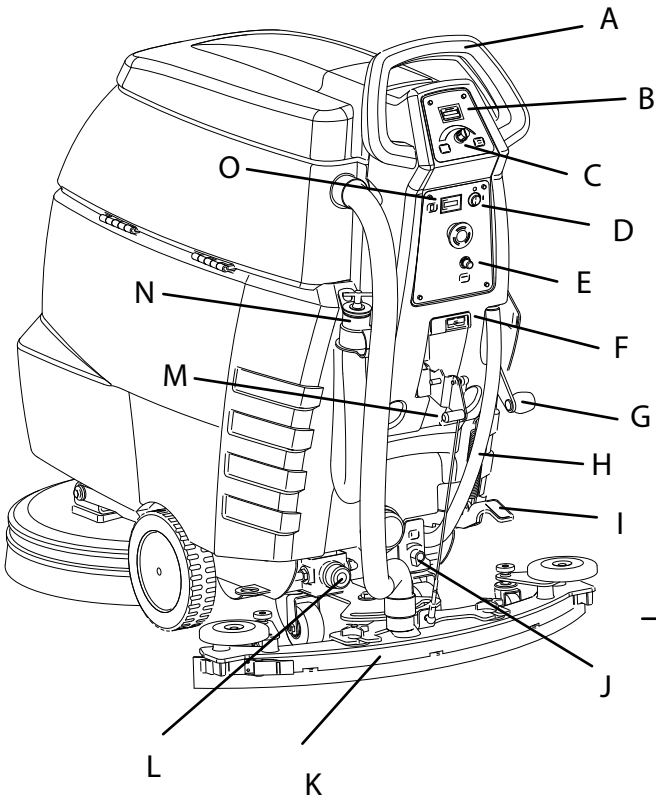
- ❑ Read this manual carefully before operating this machine.

**FOR SAFETY: Do not operate machine, unless operation manual is read and understood.**

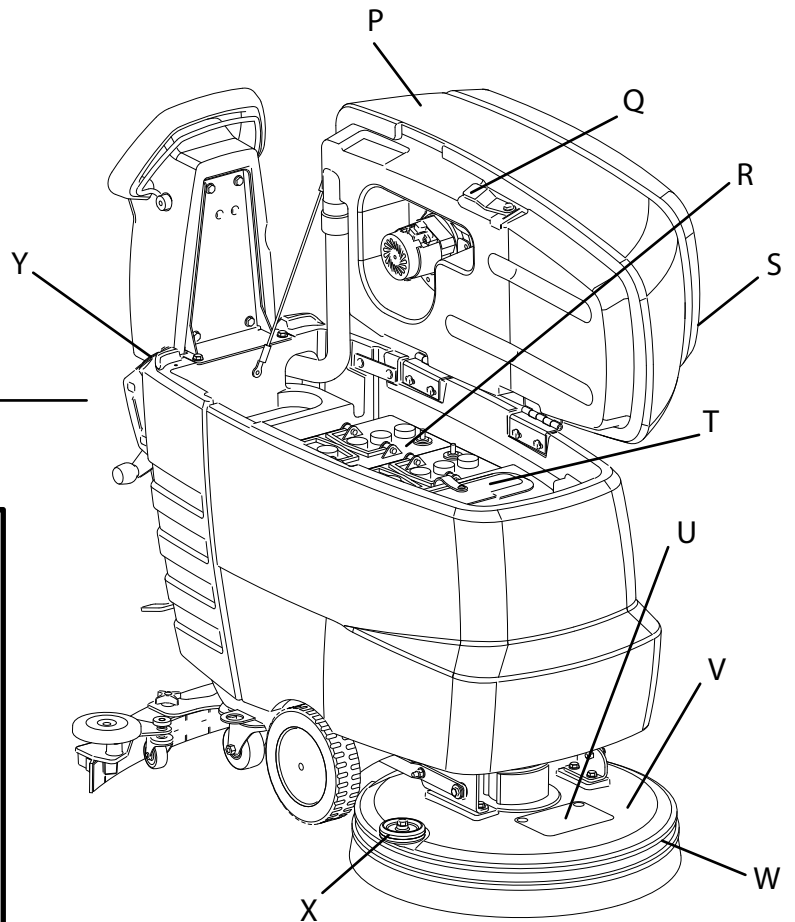
- ❑ Inspect machine for shipping damage and make sure the machine is complete according to your order.
- ❑ Keep your machine regularly maintained by following the maintenance information in this manual. We recommend a regularly scheduled service contract with your authorized dealer.
- ❑ Order parts and supplies directly from your authorized dealer. Use the parts manual provided when ordering parts.
- ❑ After use, follow the recommended daily and hourly procedures shown in the MAINTENANCE CHART.



MACHINE COMPONENTS



- A. Control Handle
- B. Battery Meter
- C. Variable Speed Knob
- D. Machine Power Key Switch
- E. Brush Motor Circuit Breaker
- F. Battery Charging Connector
- G. Brush Pressure Lever
- H. Solution Tank Sight Guage/Drain Hose
- I. Scrub Head Lift Pedal
- J. Solution Flow Control Knob
- K. Squeegee Assembly
- L. Solution Filter
- M. Squeegee Lift Lever
- N. Recovery Tank Drain Hose
- O. Hour Meter



- P. Recovery Tank
- Q. Battery Charging Support Arm
- R. Batteries
- S. Recovery Tank Cover
- T. Solution Tank/Fast Fill Port
- U. Scrub Brush Access Opening
- V. Scrub Deck
- W. Scrub Debris Skirt
- X. Edge Roller
- Y. Hose Fill Opening

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## CONTROL PANEL SYMBOLS

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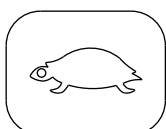
These symbols identify controls and displays on the machine.



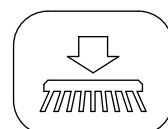
INCREASE VEHICLE SPEED



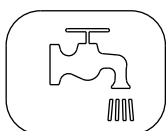
VARIABLE FLOW OR RATE



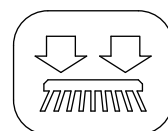
DECREASE VEHICLE SPEED



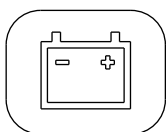
NORMAL SCRUB PRESSURE



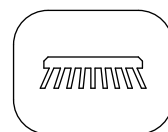
SOLUTION FLOW



HEAVY SCRUB PRESSURE



BATTERY CONDITION METER



BRUSH MOTOR CIRCUIT BREAKER

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## UNCRATING MACHINE

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1. Check shipping crate. If damaged, report to carrier.
2. To uncrate machine, carefully remove hardware and machine strapping.

**ATTENTION: Do not roll machine off pallet without a ramp.**

**ATTENTION: Install batteries after removing machine from shipping pallet.**

## INSTALLING BATTERIES

**⚠ WARNING: Fire OR Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Flames Away. Charge Batteries With Cover Open.**

**FOR SAFETY: When servicing machine, wear protective glove and eye protection when managing batteries and battery cables. Avoid contact with battery acid.**

### Battery Specifications:

Two deep cycle 12 Volt lead acid batteries.

155 AH battery - Recommended For 20”  
Traction Scrubber.

105 AH battery -  
130 AH battery -

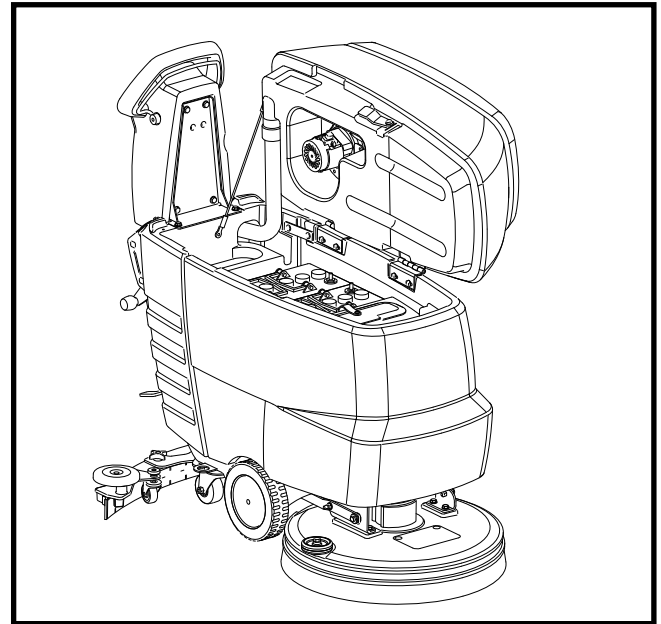
Maximum battery dimensions:

380 mm (15 in) Length

174 mm (6.85 in) Wide

284 mm (11.18 in) Height

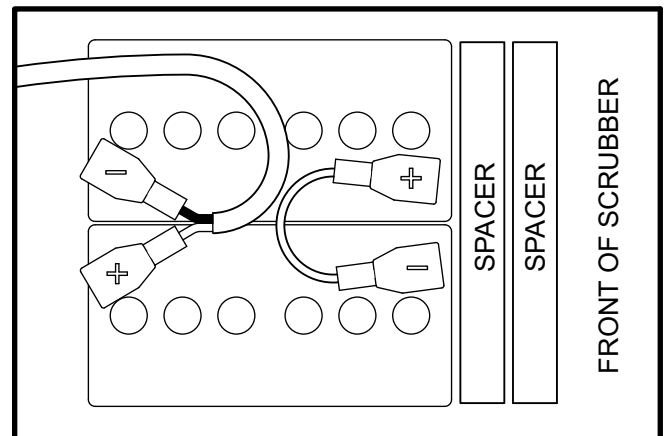
1. Park machine on level surface and remove key.
2. Raise recovery tank to access battery compartment.



3. Install batteries into the battery compartment. Secure batteries with supplied battery spacers.
4. Before connecting batteries, make sure terminals and posts are clean. Use post cleaner and wire brush if needed.

**NOTE:** To prevent battery corrosion, apply a light coating of protective, anti-corrosion spray.

5. Connect battery cables to battery post.  
RED TO POSITIVE (+)  
BLACK TO NEGATIVE (-)



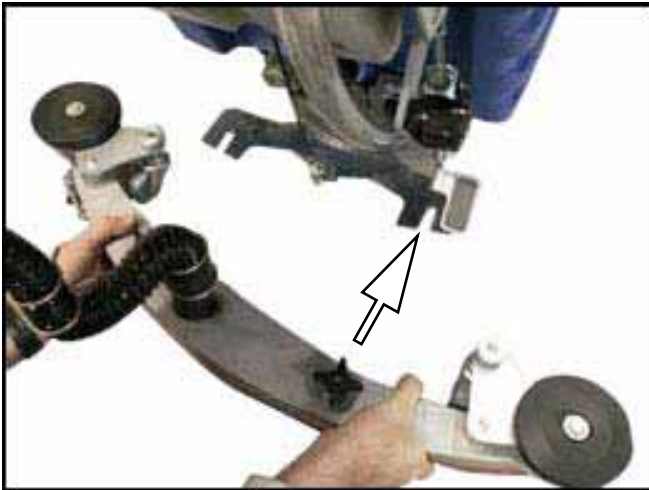
6. After battery installation, check the battery condition meter.

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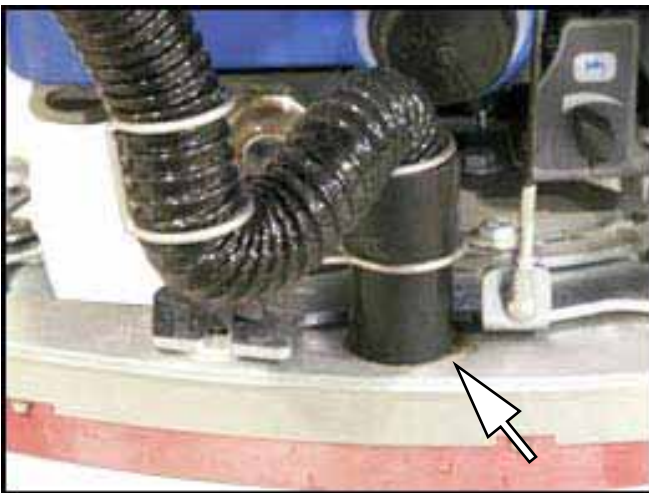
## ATTACHING SQUEEGEE ASSEMBLY

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1. Park machine on level surface. Remove the key.
2. Lift squeegee using the lift lever.
3. Mount squeegee assembly to squeegee bracket as shown. (*Ref. Photo*)



4. Connect vacuum hose to the squeegee casting.



5. Check squeegee blades for proper deflection. (*Reference: Squeegee blade adjustment*)

---

## BRUSH AND PAD SELECTION

---

*Use the correct brush type for your cleaning environment.  
Choose from the following brushes and pads.*

**Non-scuff polypropylene scrub brush** - A softer brush intended for use in general purpose scrubbing for lightly lifting compacted soilage without scuffing high-gloss coated floors.

**Nylon scrub brush** - Recommended for scrubbing coated floors. Cleans without scuffing surface.

**Super abrasive bristle scrub brush** - Nylon fiber impregnated with abrasive grit for removing heavy stains and soilage. Strong action works well on build up, grease, and/or tire marks.

**Heavy duty stripping pad** - Intended for stripping floors. Pad aggressively cuts through old, heavy, floor finishes in preparation for re-coating.

**Stripping pad** - Intended for stripping floors. Quickly and easily cuts through old finish to prepare the floor for re-coating.

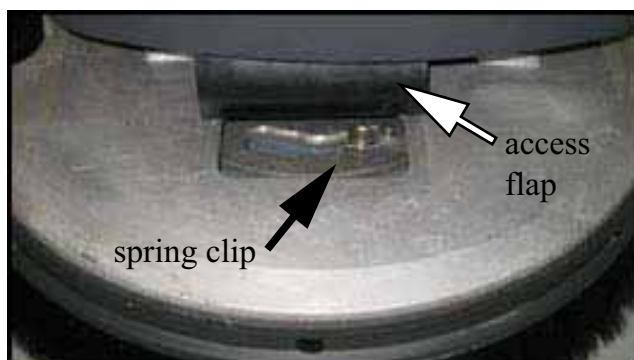
**Scrubbing pad** - Intended for scrubbing floors. Removes dirt, spills and scuffs, leaving a clean surface ready for re-coating.

**Buffing pad** - Intended for buffing floors. Quickly cleans and removes scuff marks while polishing the floor to a high gloss.

**Polishing pad** - Intended for polishing floors. Maintains a high gloss. Use for buffing very soft finishes and lower traffic areas, or use for polishing soft waxes on wood floors.

## BRUSH/PAD INSTALLATION

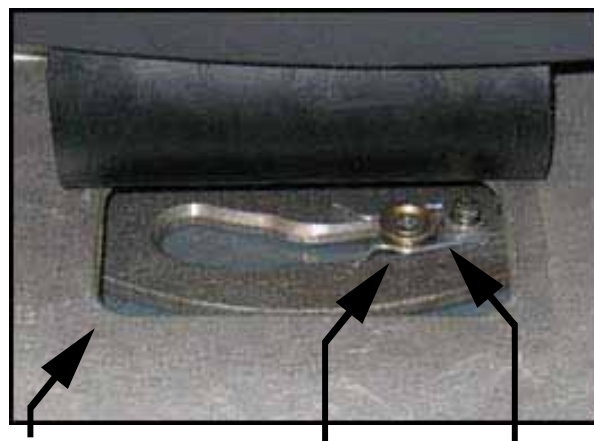
1. Park machine on level surface, remove the key.
2. With foot, press down on scrub head lift pedal to raise scrub head from cleaning surface.
3. Turn the brush drive hub until spring clip is in clear view.



4. Align pad driver/brush mounting posts into drive hub slots. Turn the pad/brush driver counter clockwise until retained by the spring clip.



5. Inspect that lock pin is securely located.



Hub/Motor Opening    Pad Driver/Brush Mounting Post    Spring Clip

6. To remove pad driver/brush, grasp pad driver/brush and turn clockwise with a quick motion.

## FILLING SOLUTION TANK

A hose fill port is located on the upper right rear corner of the solution tank.

View sight gauge when filling solution tank with hose fill port.

The solution tank port is located under the recovery tank.

Do not fill beyond the bottom edge of the fill port. (Ref. Arrow 1)

Do not open recovery tank if full. First, drain until empty, then open for solution fill access.

### FOR CONVENTIONAL SCRUBBING:

Fill with hot water not to exceed 140° F (60°C). Mix recommended cleaning detergent into the solution tank.

**⚠ WARNING: Fire or Explosion Hazard. Never Use Flammable Liquids.**

**FOR SAFETY: Always follow mixing and handling instructions on chemical containers.**

**MACHINE OPERATION**

**FOR SAFETY: Do not operate machine, unless operator manual is read and understood.**

**⚠ WARNING: Fire or Explosion Hazard. Never Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.**

1. Turn main power key on ( I ).
2. Lower squeegee assembly level to floor with the squeegee lift lever. *The vacuum motor will automatically engage when squeegee is lowered.*



3. Lower scrub head to floor by depressing scrub head lift pedal as shown.
4. To drive machine forward, squeeze the directional control bar against the handle (*Ref Arrow 1*).

For reverse, push control bar forward as illustrated (*Ref. Arrow 2*).



**Forward**

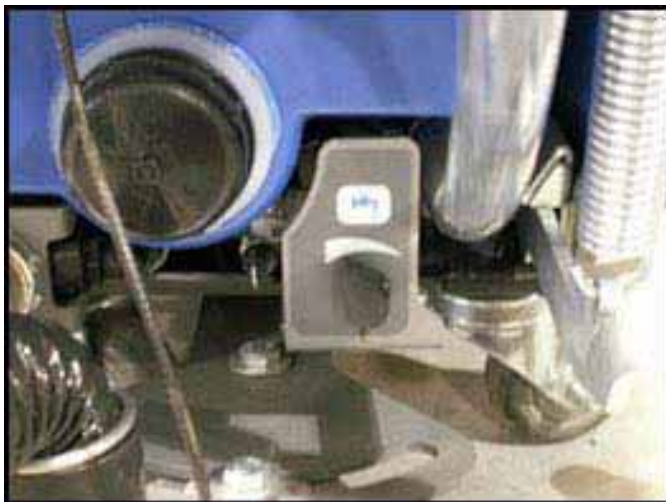


**Reverse**

5. Adjust the variable speed control knob to the desired scrub brush speed.



6. Turn the solution flow control dial to desired rate.



7. With the brush in the lowered position, the solution flow and brush will automatically activate when the scrubber is driven forward or reverse.
8. For increased brush pressure, adjust by lifting the down pressure lever.
9. To stop scrubbing, release the directional control bar.

#### WHILE OPERATING MACHINE

**⚠ WARNING: Fire Or Explosion Hazard. Do Not Pick Up Flammable Materials Or Reactive Metals.**

**FOR SAFETY: When using machine, maneuver slowly on inclines and slippery surfaces. Wear non-slip shoes.**

1. Overlap scrubbing path by 4 cm (1.5 in).
2. If squeegee leaves streaks, wipe with cloth to remove debris. Pre-sweeping area is recommended.
3. Do not operate machine where grade exceeds 5% (3°).
4. Mix recommended foam control solution in recovery tank if foaming appears.

5. Heavily soiled floors may require double scrubbing. Scrub first with squeegee up, let solution work for a few minutes. Scrub the second time with squeegee down.
6. When machine is unattended, park on a level surface and remove the key.

**ATTENTION: Do not allow foam to enter float screen. Vacuum motor damage may occur. Foam will not activate float shut off.**

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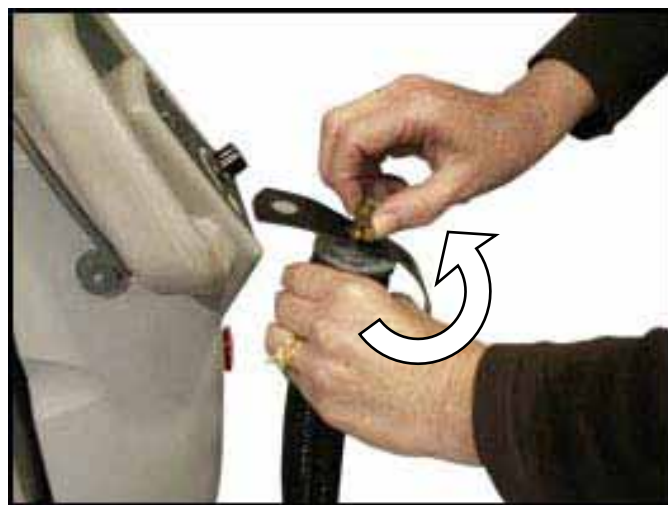
#### DRAINING TANKS

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Drain and clean recovery tank after each use. Clean the solution tank periodically.

#### DRAINING RECOVERY TANK

1. Remove recovery tank drain hose cap. Plug by turning the T-Handle counter-clockwise to empty.

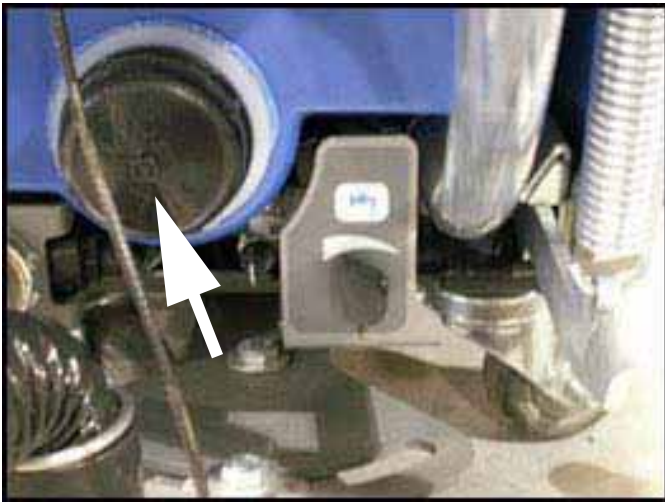


**NOTE:** *When using a bucket to empty machine, do not use the same bucket to fill the solution tank.*

2. After empty, open recovery tank cover and rinse out the tank.

### DRAINING RECOVERY TANK

1. To drain remaining water from the solution tank, remove solution tank level hose from the barbed fitting.
2. To clean out the solution tank, remove the clean out cap at the rear of the machine and rinse the tank through the opening in the front of the recovery tank.
3. To rinse out the solution tank, remove the clean out cap at the rear of the machine and rinse fill port under the recovery tank.



### CIRCUIT BREAKER / FUSES

The machine is equipped with a circuit breaker. This breaker is easily reset after preventing electrical damage during an overload.

The circuit breaker protects the brush motor. It is located on the control panel. If breaker trips, determine cause, let motor cool, then reset.

The machine is equipped with two fuses. The fuses are attached to wires hanging in the lower area inside the control console:

The powered model has a 30A main fuse and a 25 amp vacuum motor fuse.

The brush assist model has a 5A main fuse and a 25A vacuum motor fuse.

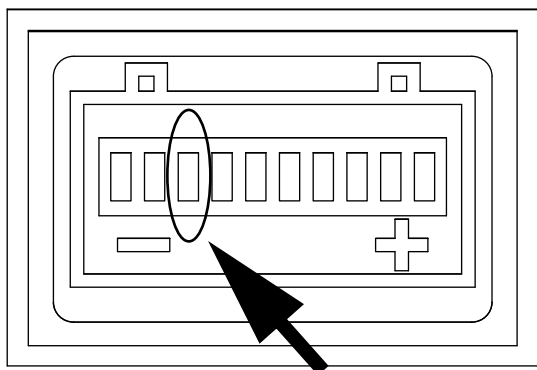


**Contact your dealer or Authorized Service Center for Machine repairs.**

## BATTERY METER

The battery meter displays the battery charge level. When fully charged, all indicator lights are displayed. As batteries discharge, battery life will be indicated viewing from right to left.

Do not allow batteries to discharge beyond illustrated discharge level.



At First Red Light, stop and recharge.

The Last Red Light will flash before machine automatically shuts down.

Drive machine to recharging station immediately. Scrubbing functions will stop when the last red light begins flashing.

This automatic function protects batteries from total battery discharge.

**NOTE:** Prolong battery life, ONLY recharge after machine use cycles of 30 minutes or more.

**NOTE:** If a machine fault is detected, the battery meter will flash fault codes.  
(Ref. LED FAULT CODES)

## HOUR METER

The hour meter will record only when the brush motor is on.




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## CHARGING BATTERIES

---

**ATTENTION: Prolong battery life. ONLY Recharge batteries after a minimum run cycle of 30 minutes. Do not leave batteries discharged.**

Only use a battery charger with the following specifications.

- CHARGER TYPE:
  - FOR LEAD ACID BATTERIES
  - FOR WET (Lead Acid) BATTERIES
- OUTPUT CURRENT - 11 AMPS
- OUTPUT VOLTAGE - 24 VOLTS
- AUTOMATIC SHUTOFF CIRCUIT
- FOR DEEP CYCLE BATTERY CHARGING

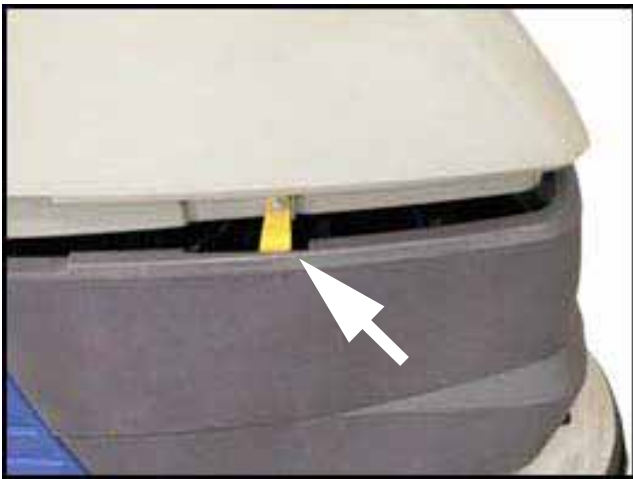
**For battery charger operating instructions, refer to the Battery Charger Manual supplied with the charger.**

## OPERATION

1. Recharge batteries in a well ventilated area.

**⚠ WARNING: Fire OR Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks And Flames Away. Charge Batteries With Hood Open.**

2. Park machine on level surface, turn key off.
3. Before charging, check water level in each battery cell.  
(Ref. BATTERY MAINTENANCE)
4. When charging, use recovery tank support stand to ensure ventilation during charging.



5. Connect charger's AC power supply cord to a properly grounded receptacle.
6. Connect charger's Red 24 VDC plug to the machines battery receptacle found above squeegee lift handle.
7. The charger will automatically begin charging and turn off when fully charged.

**NOTE:** Machine will not operate while connected to battery charger.

**ATTENTION:** Do not disconnect charger cord from machine receptacle while charger is operating. If charging must be interrupted, disconnect charger from wall outlet first.

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## MAINTENANCE

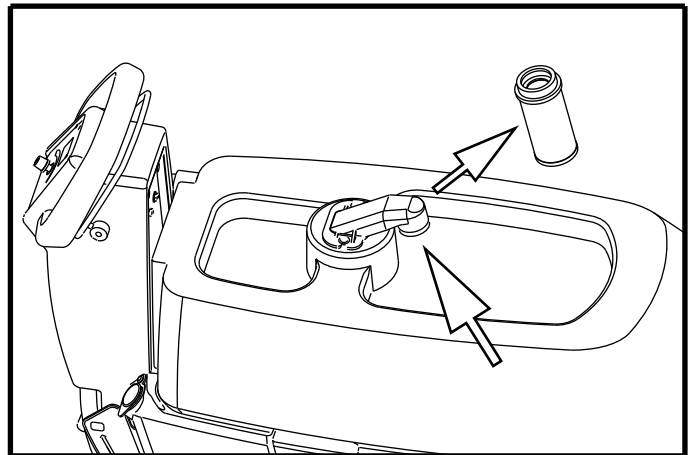
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For optimal machine performance, follow regularly scheduled maintenance procedures.

**⚠ WARNING: Electrical Hazard. Disconnect Battery Cables Before Machine Maintenance.**

### DAILY MAINTENANCE

1. Drain and clean the recovery tank.
2. Remove and clean float shut off screen located in the recovery tank.



3. Drain solution tank and rinse with hot water, 60° (140°F) max temperature.

4. Remove and clean solution tank filter.  
Turn counter-clockwise to loosen.



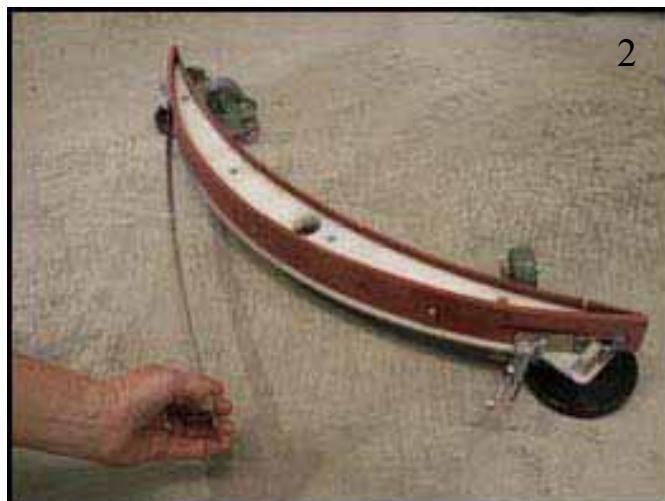
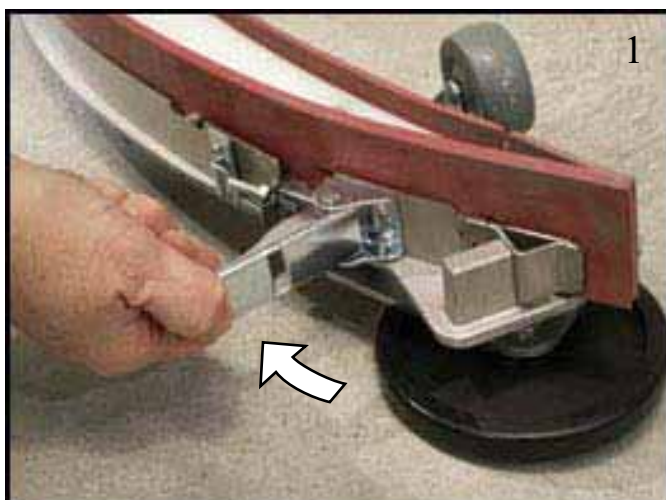
**MOTOR MAINTENANCE**

**All motor brushes have a service life of 750 hours.**

**SQUEEGEE BLADE REPLACEMENT**

Both squeegee blades have four usable edges. When blade edges are worn, unfasten, rotate/flip for a new squeegee edge. Replace when all edges are worn.

1. Remove squeegee assembly from machine.  
*(Ref. Photo 1)*
2. Loosen band clamp, remove band from squeegee assembly. *(Ref. Photo 2)*

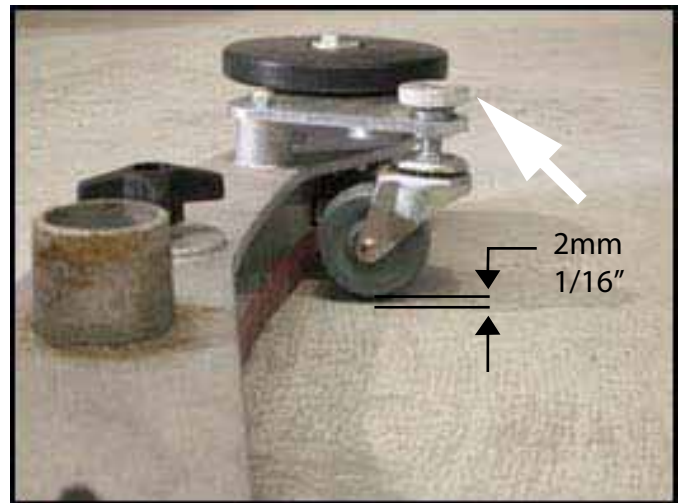


3. Rotate rear blade to a new wiping edge, reinstall band.
4. To replace front blade, unclamp, remove retainer strap to access squeegee, then pull off.

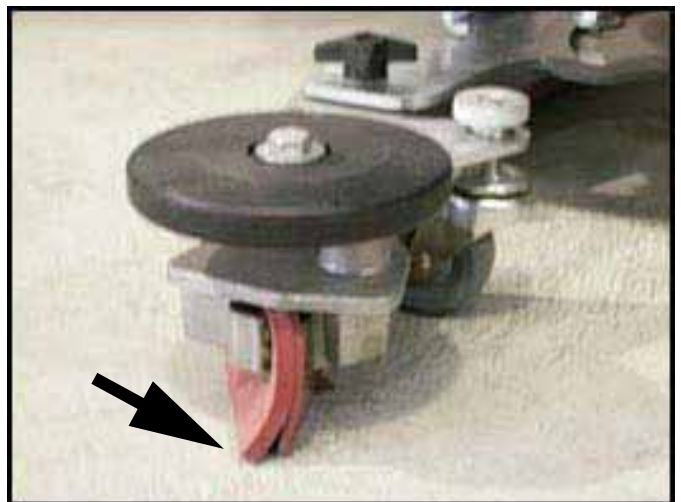
## OPERATION



2. To adjust caster height rotate knurled knob for up/down height adjustment.



3. With the scrubber in motion, squeegee blades should deflect as shown.



### SQUEEGEE BLADE ADJUSTMENT

The squeegee assembly and blades are set at the factory. Adjustment may be necessary depending on surface to be cleaned.

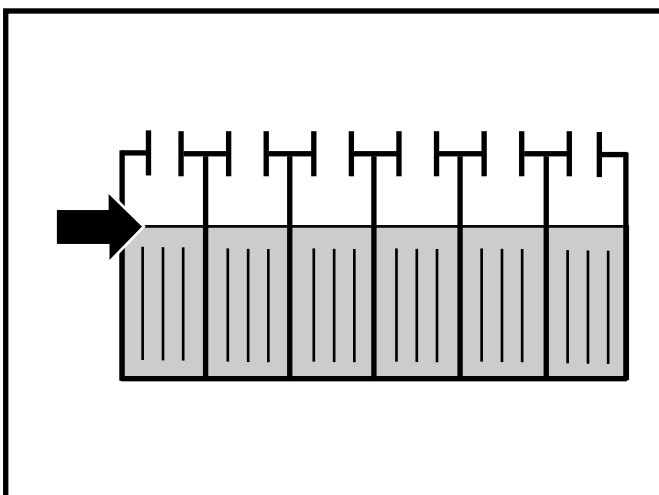
For optimal operation, squeegee assembly casters must be set as illustrated.

1. To check for proper adjustment, remove squeegee assembly from machine and place on a level surface. Measure the distance between the surface and casters approximately 2 mm (1/16").

## BATTERY MAINTENANCE

**⚠ WARNING: Fire or Explosion Hazard. Never Operate Machine In Or Near Flammable Liquids, Vapors Or Combustible Dusts.**

1. Check battery fluid level frequently.



2. Clean batteries to prevent corrosion. Use scrub brush with a mixture of baking soda and water

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## TRANSPORTING MACHINE

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When transporting by truck or trailer, safely tie down and secure machine.

1. Raise the scrub head and squeegee.
2. Load machine using recommended ramp.
3. Place machine against the front of transporter.
4. Block each wheel.
5. Use tie-down straps over the top of machine to prevent tipping.

**FOR SAFETY: Use recommended ramp for loading/unloading. Tie down machine to transporter.**

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## STORING MACHINE

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1. Fully charge batteries. Never store with discharged batteries.
2. Drain and rinse tanks.
3. Store in a dry area with squeegee and scrub head up from surface.
4. Open tanks for air circulation.

**ATTENTION: Store indoors, away from heat and moisture.**

**LED FAULT CODES (Flashing LED's)**

<b>CODE</b>	<b>FAULT</b>	<b>SOLUTION</b>
One	Low voltage shut-off. Scrubbing function stops.	Recharge batteries. Check battery connection.
Two	Battery charge level getting low.	Recharge batteries.
Three	Drive motor tripped.	Reset circuit breaker.
	Short circuit to drive motor.	Contact Dealer.
Four	Battery lockout.	Recharge batteries immediately.
Eight	Controller tripped.	Contact Dealer.
Ten	High battery voltage reading.	Check battery connections.
No Bars	Sleep mode.	Turn key to restore.
Bars Rippling	Throttle engaged.	Release directional control bar.

**SPECIFICATIONS**

**GENERAL MACHINE DIMENSIONS/CAPACITIES**

Length	1283mm (50.6")
Width (with squeegee)	762mm (30.0")
Width (without squeegee)	554mm (21.8")
Width (tanks)	457 mm (18.0")
Height	1087 mm (42.81")
Squeegee width	762 mm (30.0")
Scrubbing path	510 mm (20")
Solution Tank capacity	41 L (10.8 gal)
Recovery Tank capacity	41 L (10.8 gal)
Weight empty	102 Kg (227 lbs)
Weight with batteries	180 Kg (397 lbs)

**BATTERIES**

System voltage	24-V
Number of batteries	Two
Battery voltage	12-V
Battery amp hour rating	155AH
Maximum run time	3 hours
Total power consumption	30A at 22.7 Kg (50 lbs) brush pressure
	37A at 45.3 Kg (100 lbs) brush pressure

## **SPECIFICATIONS**

### **SOLUTION DELIVERY SYSTEM**

Solution filter	80 mesh stainless steel
Solution flow control	Automatic shut-off solenoid valve with operator-controlled variable flow rate

### **BRUSH SYSTEM**

Brush size	510mm (20.0") Diameter
Brush RPM	235 RPM
Brush motor horsepower	.74 Kw (1.0 hp)
Brush pressure	22.7 Kg (50 lbs) minimum, 45.3 Kg (100 lbs) Maximum

### **SOLUTION RECOVERY SYSTEM**

Squeegee	Curved 762 mm (30.0") four-sided quick-change blades
Vacuum motor horsepower	.37 Kw (.5 hp)
Vacuum CMM (CFM)	1.84 cmm (65 cfm)
Vacuum Maximum water lift	1067 mm (42")

### **DRIVE SYSTEM**

Vehicle control	Electronic variable speed control forward and reverse
Vehicle speed	Forward 0 - 4.3 KPH (2.6 MPH)
	Reverse 0 - 2.6 KPH (1.6 MPH)
Maximum grade empty	15% (9 degrees)
Maximum grade scrubbing	5% (3 degrees)
Maximum grade transporting	8% (5 degrees)
Transaxle	24-V, 0.104 Kw (0.14 hp)
Tires	203.2 (8.0") Diameter non-marking polyurethane
Casters	77.0mm (3")

### **SOUND RATING**

Operator position	68.0 dBa
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