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# MASTERCRAFT STRIKER2840 Owner's Manual

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



# **ONFLOOR®**

Operating Manual

## ***STRIKER 2840***





This manual is furnished with each new ONFLOOR. 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 ONFLOOR supplied parts.

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## SAFETY PRECAUTIONS

The following symbols are used throughout this manual as indicated in their description:



**WARNING:** To warn of hazards or unsafe practices that could result in severe personal injury or death.



**FOR SAFETY:** To identify actions that must be followed for safe operation of equipment.

This machine is designed solely for scrubbing dirt and dust in an indoor environment. TREK does not recommend using this machine in any other environment.

The following information signals potentially dangerous conditions to the operator or equipment. Read this manual carefully. Know when these conditions can exist. Locate all safety devices on the machine. Then, take necessary steps to train machine operating personnel. Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition.



**WARNING:** Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away. Keep covers open when charging.



**WARNING:** Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).



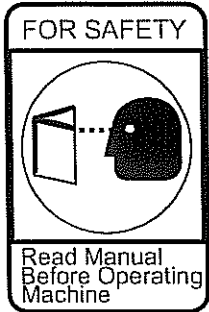
**WARNING:** Flammable materials or reactive metals can cause an explosion or fire. Do not pickup.

## FOR SAFETY

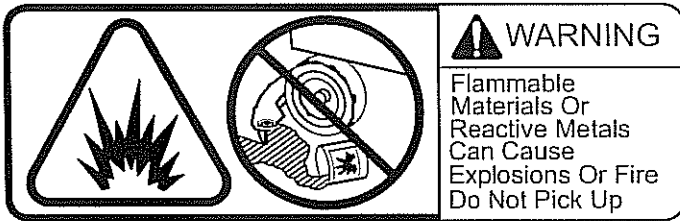
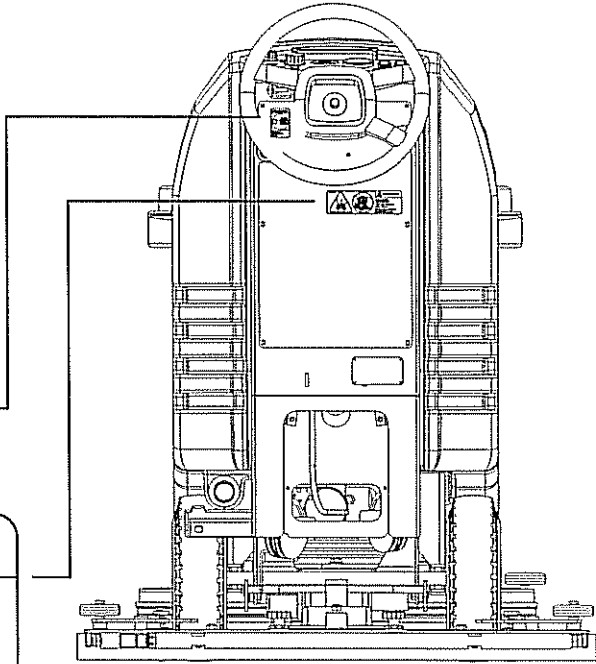
1. Do not operate machine:
  - Unless trained and authorized.
  - Unless operation manual is read and understood.
  - In flammable or explosive areas unless designed for use in those areas.
3. When using machine:
  - Go slow on inclines and slippery surfaces.
  - Use care when backing machine.
  - Follow mixing and handling instructions on chemical containers.
4. Before leaving or servicing machine:
  - Stop on level surface.
  - Set parking brake (if equipped).
  - Turn off machine and remove key.
5. When servicing machine:
  - Avoid moving parts. Do not wear loose jackets, shirts, or sleeves when working on machine.
  - Block machine tires before jacking machine up.
  - Jack machine up at designated locations only. Block machine up with jack stands.
  - Use hoist or jack that will support the weight of the machine.
  - Wear eye and ear protection when using pressurized air or water.
  - Disconnect battery connections before working on machine.
  - Avoid contact with battery acid.
  - Use original equipment replacement parts.
6. When loading/unloading machine onto/off truck or trailer:
  - Turn off machine.
  - Use truck or trailer that will support the weight of the machine.
  - Use winch. Do not push the machine onto/off the truck or trailer unless the load height is 380mm (15 in) or less from the ground.
  - Set parking brake after machine is loaded.
  - Block machine tires.
  - Tie machine down to truck or trailer.

# SAFETY PRECAUTIONS

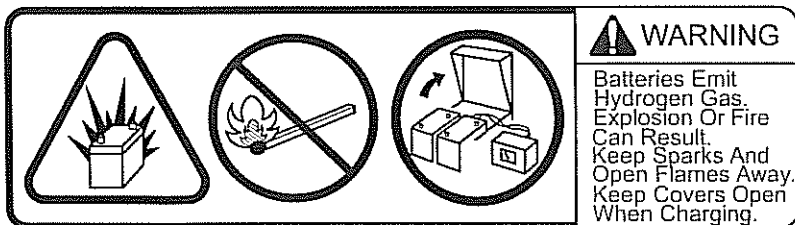
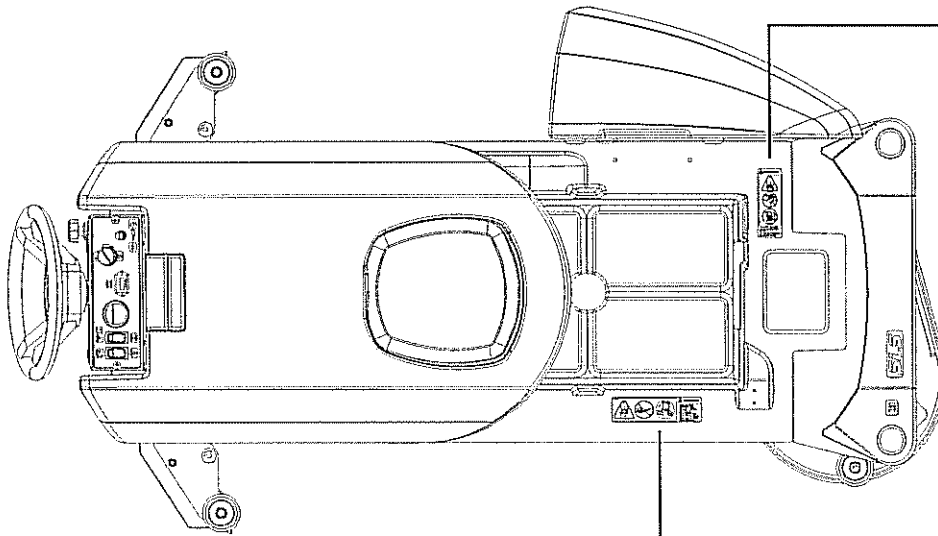
The safety labels appear on the machine in the locations indicated. If these or any label becomes damaged or illegible, install a new label in its place.



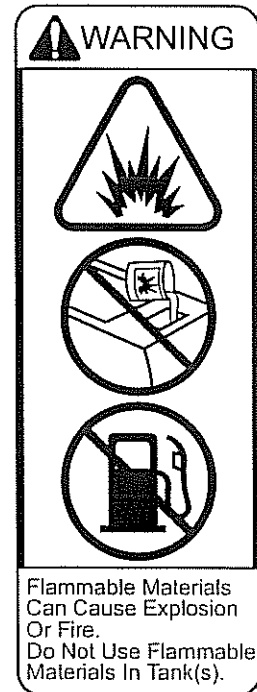
DECAL, READ MANUAL



DECAL, PICKUP WARNING



OVERLAY, CHARGING WARNING



OVERLAY SOLUTION WARNING

## OPERATION

---

**OPERATOR RESPONSIBILITY**

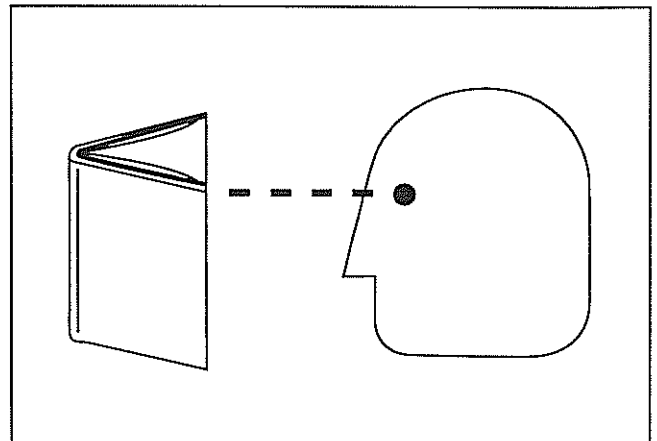
---

- 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.

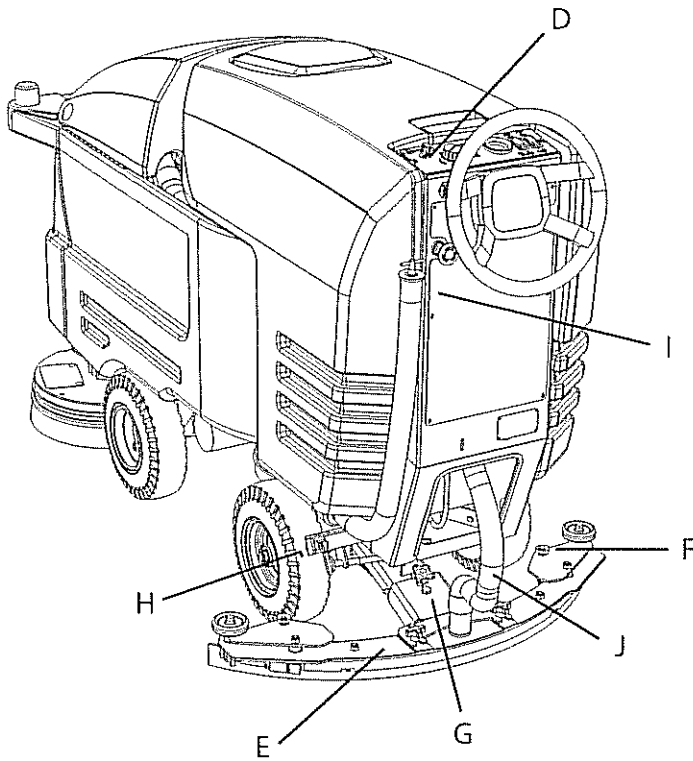
- Read this manual carefully before operating this machine.

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

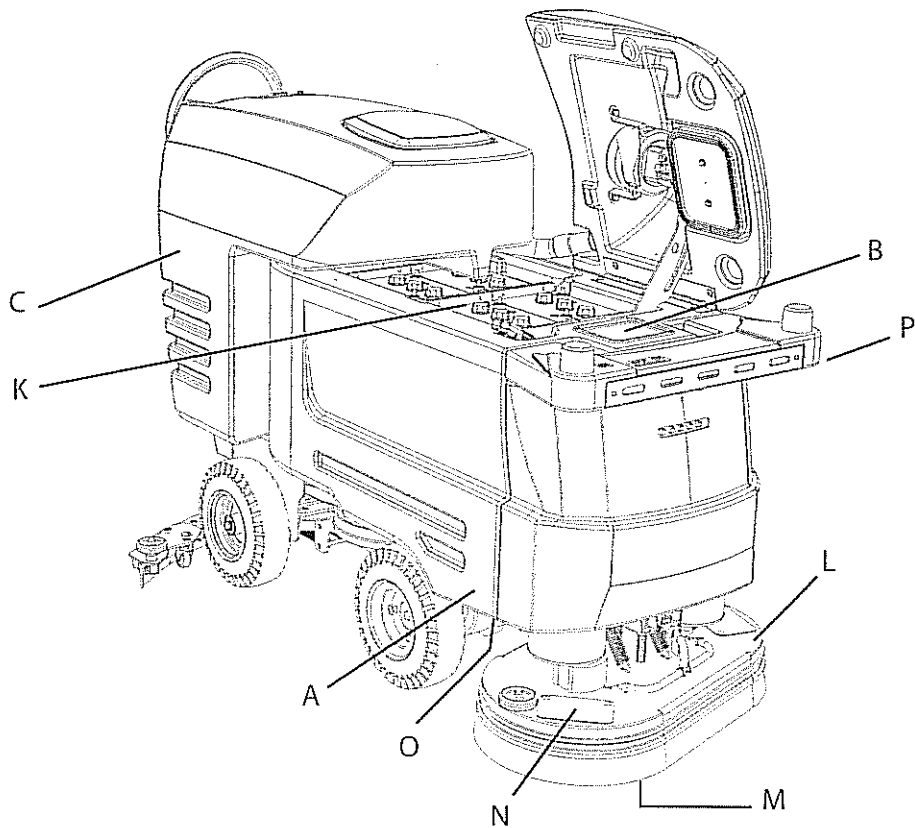
- Inspect machine for shipping damage and make sure the machine is complete according to your order.
- Keep your machine regularly maintained by following the maintenance information in this manual. We recommend a regularly scheduled service contract with your authorized dealer.
- Order parts and supplies 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. Solution Tank
- B. Solution Tank Fill Opening
- C. Recovery Tank
- D. Instrument Panel
- E. Squeegee
- F. Squeegee Height Adjustment
- G. Squeegee Pitch Adjustment
- H. Parking Brake
- I. Recovery Tank Drain Hose
- J. Vacuum Hose
- K. Batteries
- L. Scrub Head
- M. Scrub Brushes
- N. Scrub Brush Access Cover
- O. Solution Tank Drain/Filter
- P. SLS (Safety Light System)

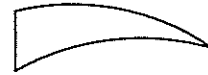


**CONTROL PANEL SYMBOLS**

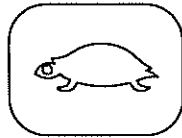
These symbols identify controls and displays on the machine.



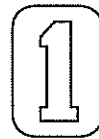
INCREASE VEHICLE SPEED



VARIABLE FLOW OR RATE



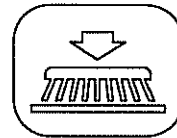
DECREASE VEHICLE SPEED



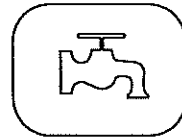
SWITCH POSITION FOR ONE-TOUCH SCRUBBING



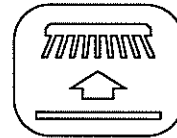
RECOVERY TANK FULL



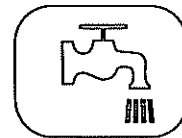
SCRUB BRUSHES DOWN AUTOMATIC



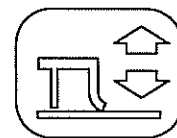
REDUCE SOLUTION FLOW



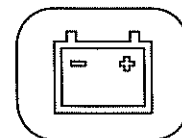
SCRUB BRUSHES UP AND OFF



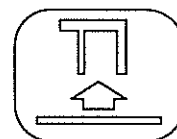
INCREASE SOLUTION FLOW



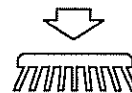
SQUEEGEE DOWN AUTOMATIC



BATTERY CONDITION METER

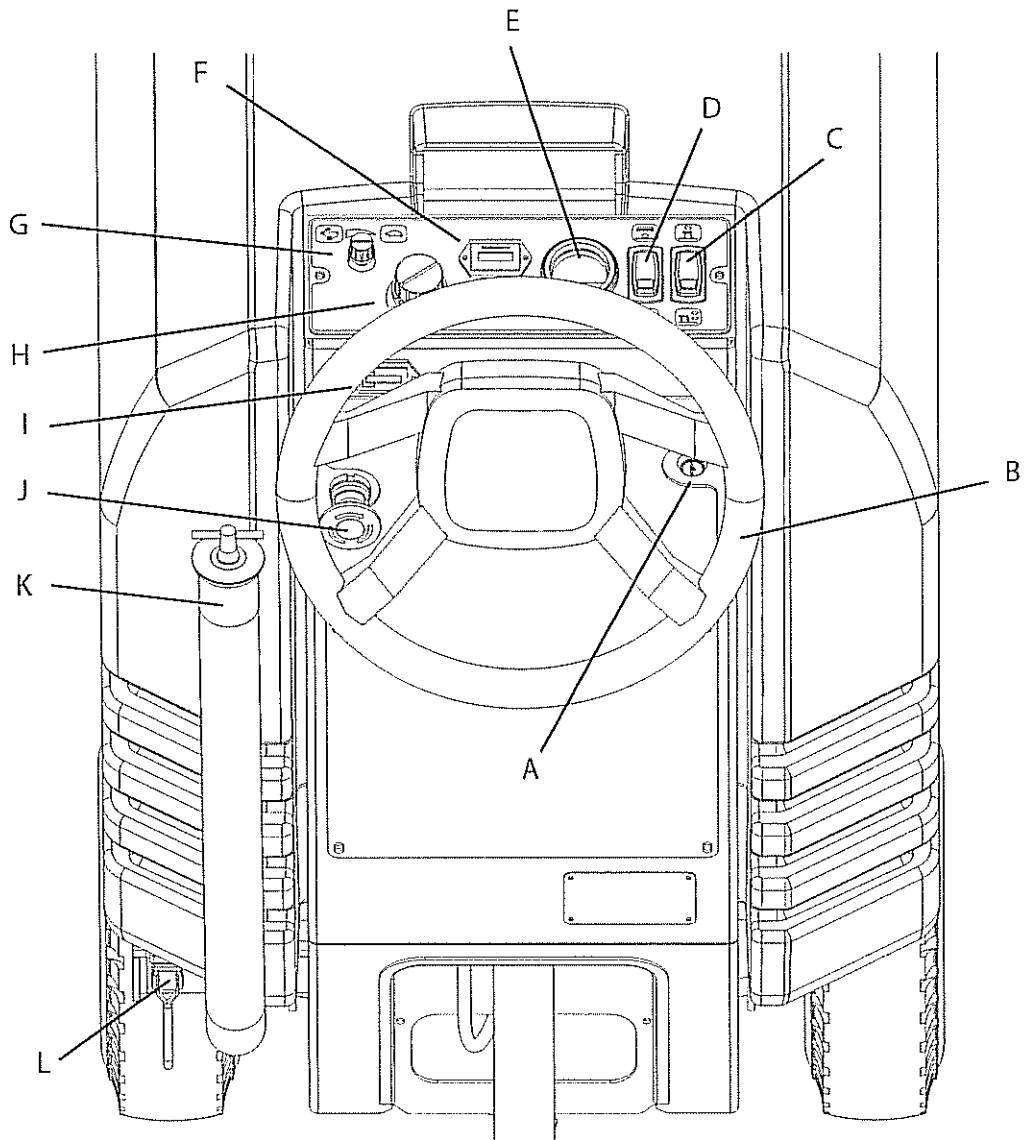


SQUEEGEE UP AND OFF



GAUGE BRUSH PRESSURE

OPERATOR RESPONSIBILITY

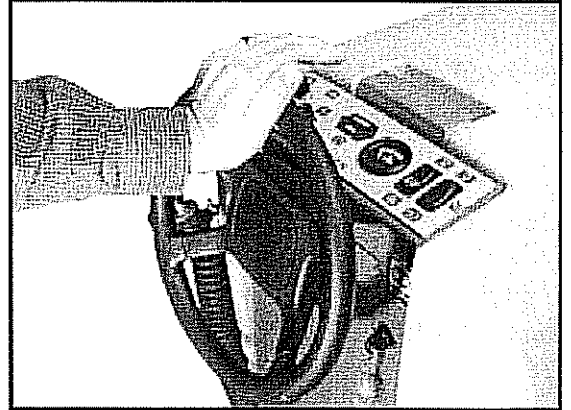


- |    |                                      |    |                          |
|----|--------------------------------------|----|--------------------------|
| A. | Machine On/Off                       | G. | Variable Speed Dial      |
| B. | Steering Wheel                       | H. | Solution Flow Rate Dial  |
| C. | Automatic Squeegee/Vac Switch On/Off | I. | Hourmeter                |
| D. | Scrub brush Up/Down                  | J. | Emergency Stop           |
| E. | Brush Pressure Gauge                 | K. | Recovery Tank Drain Hose |
| F. | Battery Discharge Indicator          | L. | Parking Brake            |

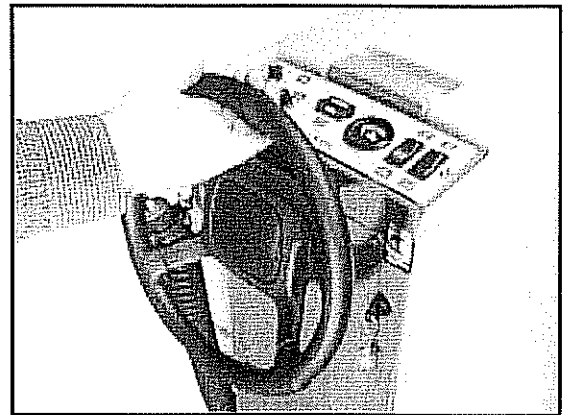
## STEERING WHEEL

The steering wheel controls the machine movement and direction.

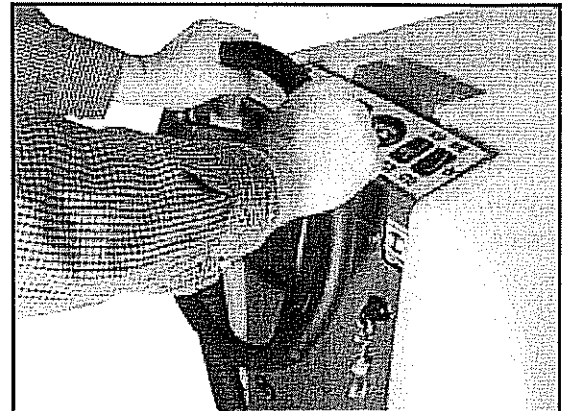
To Drive Forward: Press forward on steering wheel. Speed is controlled by speed knob on the instrument panel.



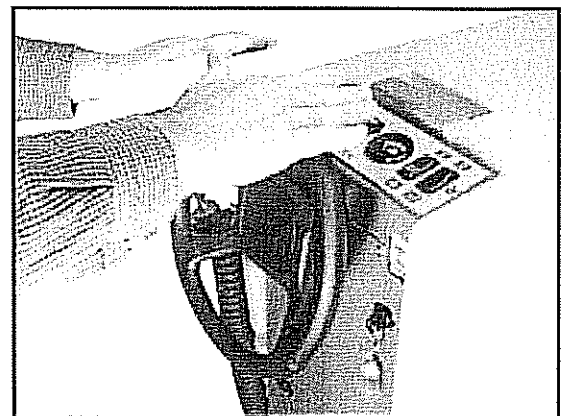
To Reverse: Pull back on steering wheel



Turning: Steer the machine in the direction you desire. The machine will articulate in the center as you steer.



Stopping: Allow the steering wheel to return from the forward or reverse position, to neutral.



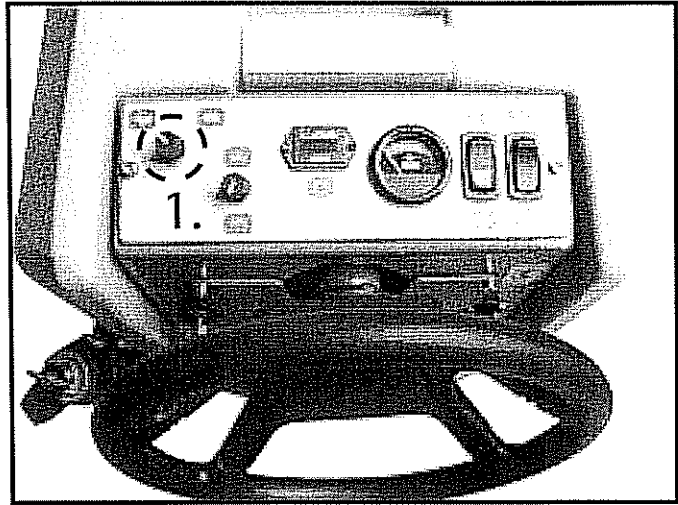
## OPERATION

### SPEED CONTROL KNOB

The speed control knob adjusts the machine's travel speed (*Ref. Dotted Circle #1*).

To reduce vehicle speed, turn the knob clockwise.

To increase vehicle speed, turn the knob counter-clockwise.

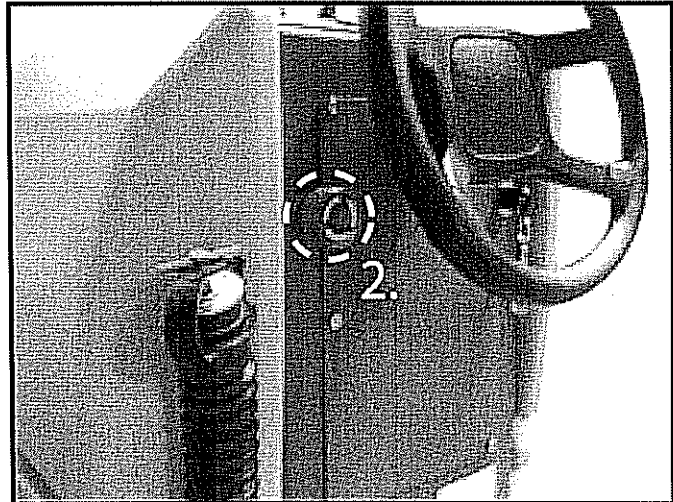


### EMERGENCY SHUT OFF

The emergency shut off switch discontinues all machine power (*Ref. Dotted Circle #2*).

In the event of an emergency, push the emergency shut off switch.

To resume operation, turn emergency shut off switch to the right, then release. Turn key off, then turn on to regain machine power.



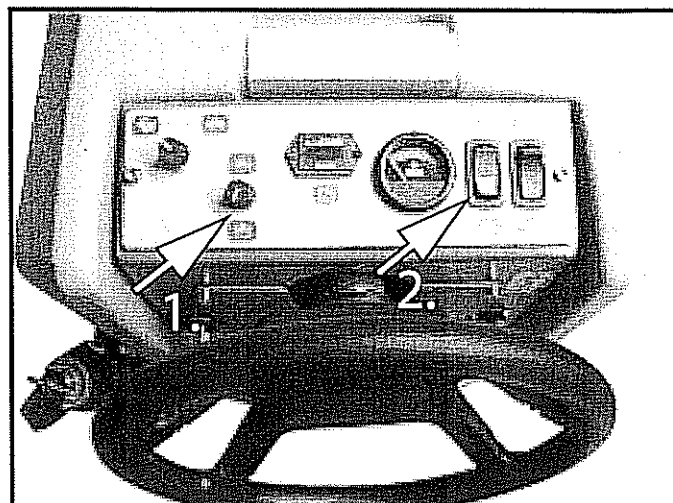
### SOLUTION CONTROL KNOB

The solution control knob controls the rate of solution flow to the brushes.

To Increase: Turn knob counter clockwise.

To Decrease: Turn knob clockwise  
(Ref. Arrow #1).

*NOTE: A solenoid valve dispenses the solution to the brushes. The valve opens when the scrub brushes are turning.*



### RECOVERY TANK FULL INDICATOR

The recovery tank full indicator illuminates when the recovery tank is full. After 15 seconds, the vacuum motor will shut off.  
(Ref. Arrow 3).

### BATTERY CONDITION INDICATOR

The battery condition indicator displays the level of battery charge (Ref. Arrow #4). When batteries are fully charged, the far right bar will be illuminated.

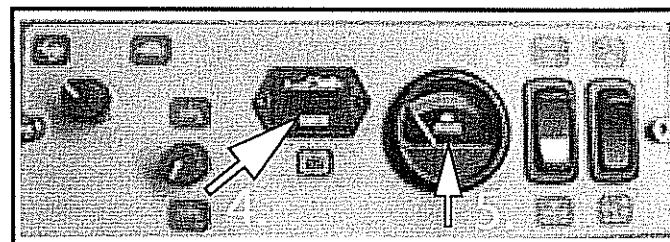
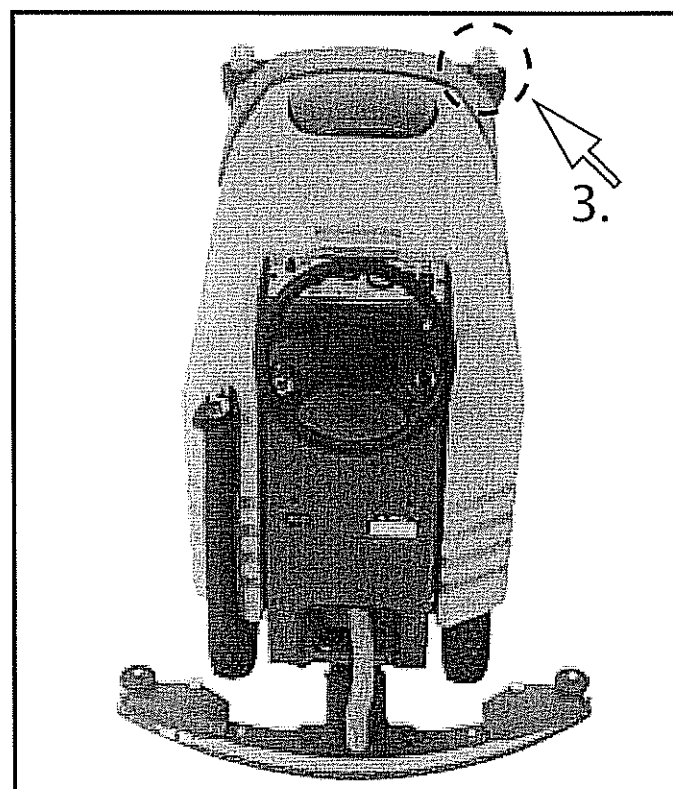
As the batteries discharge, the indicator bar will move to the left. The batteries should be recharged when the far left bar is illuminated.

### BRUSH PRESSURE GAUGE

The brush pressure gauge (Ref. Arrow #5) indicates the pressure that the scrub brushes are applying to the floor.

The brush pressure should be operated in the *green* zone. Operation in the *red* zone indicates excessive brush pressure, and will cause the circuit breakers to trip.

Adjust the brush pressure during scrubbing with the scrub brushes switch.  
(Ref. Arrow #2)



## OPERATION

### SCRUB BRUSHES SWITCH

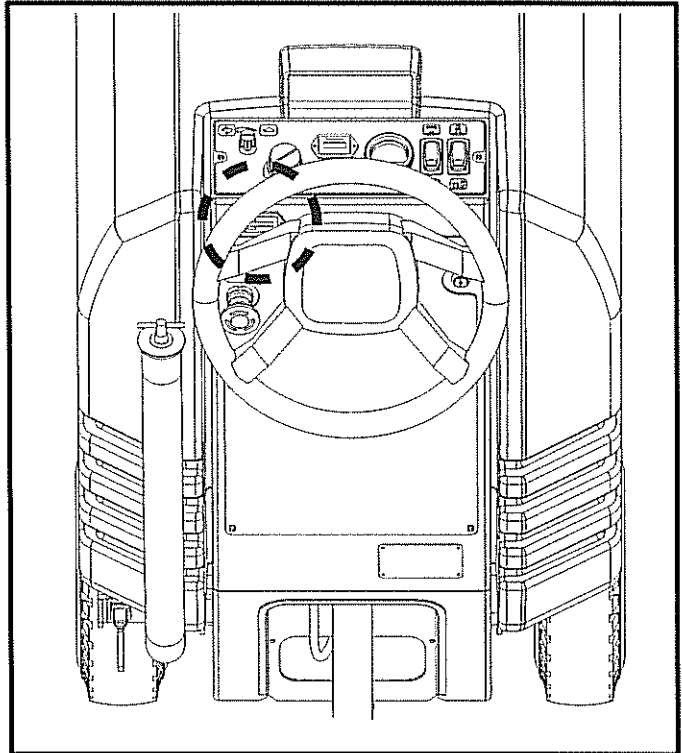
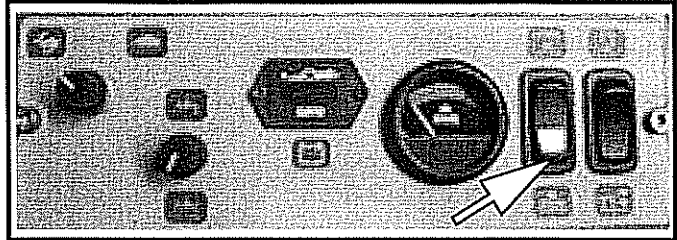
The scrub brush switch controls the scrub brushes position and down pressure.

Lower brushes: Press and hold the bottom of the switch until the scrub brush contacts the floor.

Raise brushes: press and hold the top of the switch until the scrub brush is fully raised.

Increase brush pressure: With the machine moving forward, press and hold the bottom of the switch. Watch the brush pressure gauge.

Decrease brush pressure: With the machine moving forward, press and hold the top of the switch. Watch the brush pressure gauge.



### HOURMETER

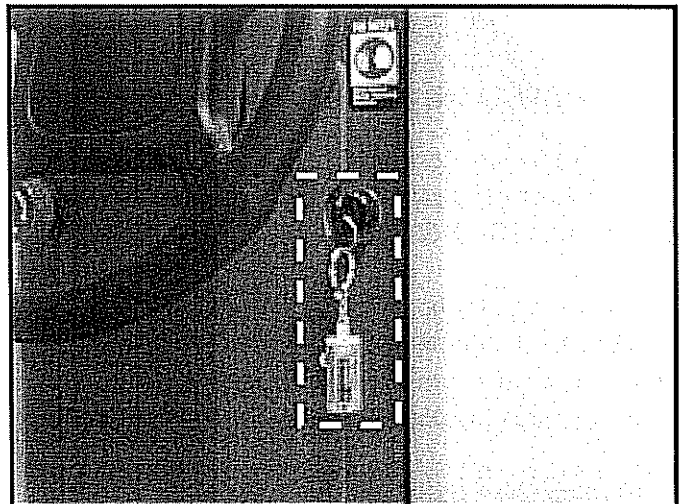
The hourmeter records the number of hours the machine has been powered on. The hour meter is intended for machine service schedules.

### ON/OFF KEY

The On/Off key controls machine power

On: Turn the key to the right.

Off: Turn the key to the left.



**CIRCUIT BREAKERS**

The circuit breakers are resettable protection mechanisms. When tripped or overloaded, power will bypass and protect the overloaded device. To reset a tripped circuit breaker, inspect circuit panel and press the tripped (extended) circuit breaker button.

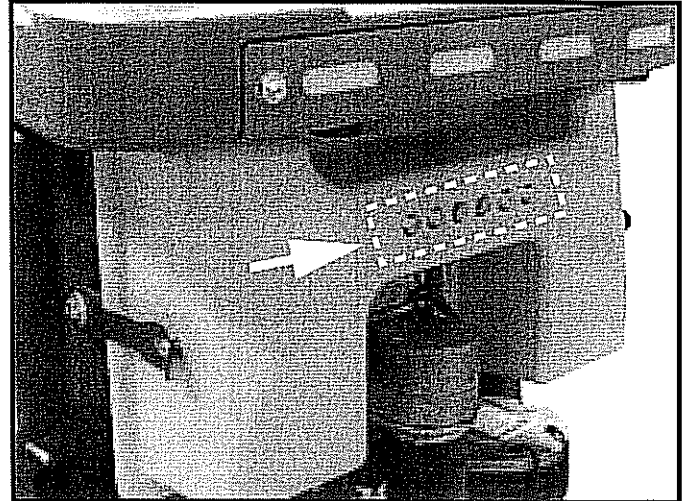
If the overload occurs after resetting, reset the machine settings i.e. brush pressure.

The circuit breakers are located behind the front cover. They can be accessed through the slot in the front cover.

The chart illustrates circuits and corresponding electrical components that are protected.

*NOTE: Chart represents circuits from left to right. C1 is located on the far left and C6 is located on the far right.*

*(Ref. Dotted Rectangle for Circuit breakers)*



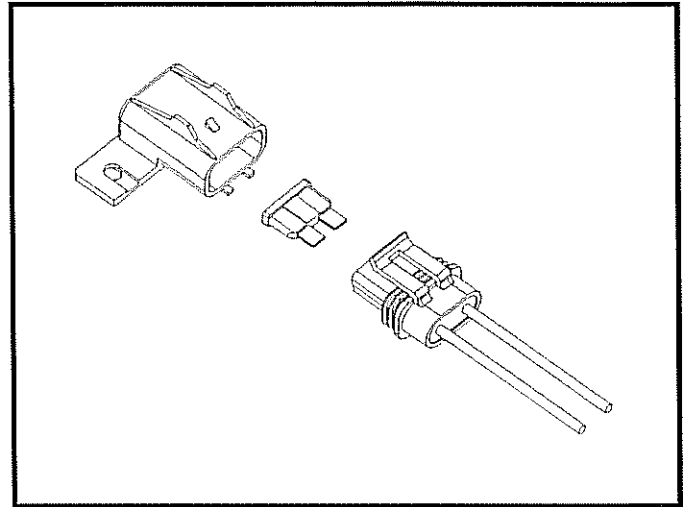
CIRCUIT	RATING	PROTECTED CIRCUIT
C1	10A	MACHINE CONTROLS
C2	10A	GENERAL OPERATION
C3	30A	RIGHT BRUSH MOTOR
C4	30A	LEFT BRUSH MOTOR
C5	25A	VACUUM MOTOR
C6	25A	VEHICLE DRIVE

## OPERATION

### FUSES

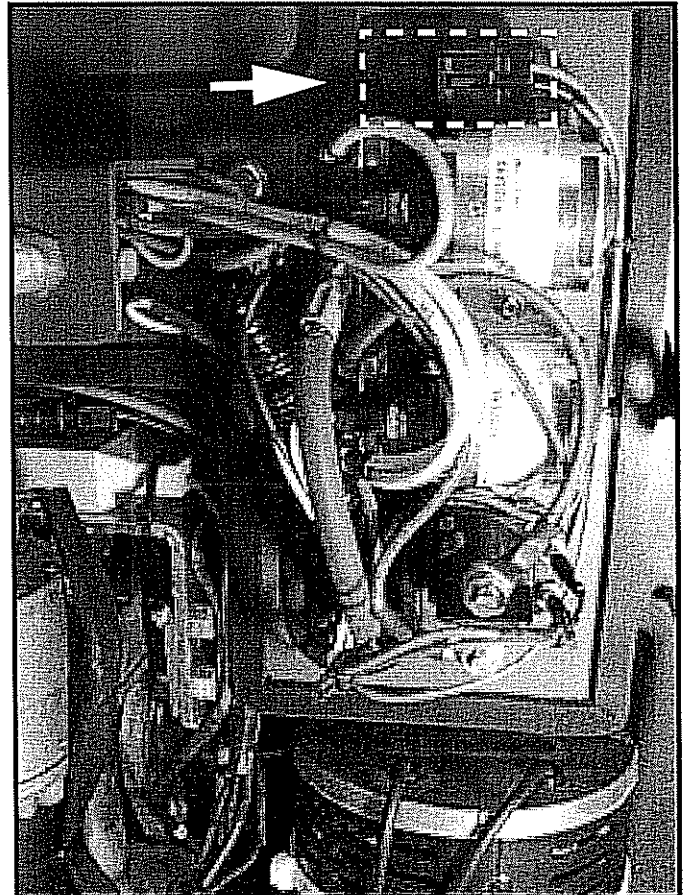
The fuse is a one-time protection device that will terminate the flow of current in the event of a circuit overload.

*NOTE: Replace the fuse with a fuse of the same amperage.*



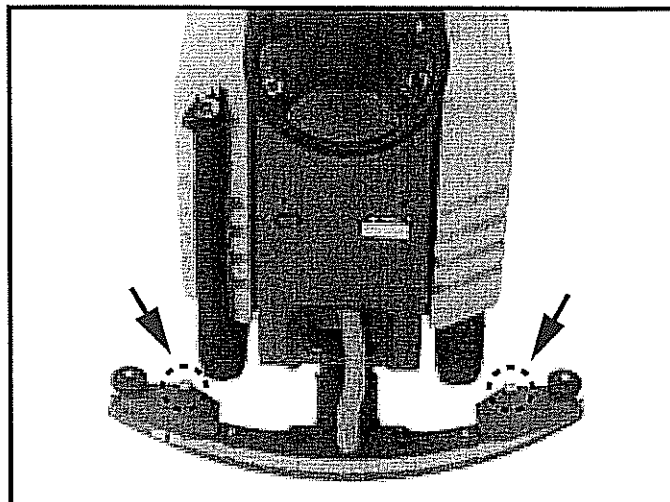
The 10amp fuse for the solution control valve is located behind the electrical panel cover.

Reference dotted line indicating fuse position, in the right upper corner of the electrical panel.



### SQUEEGEE HEIGHT ADJUSTMENT

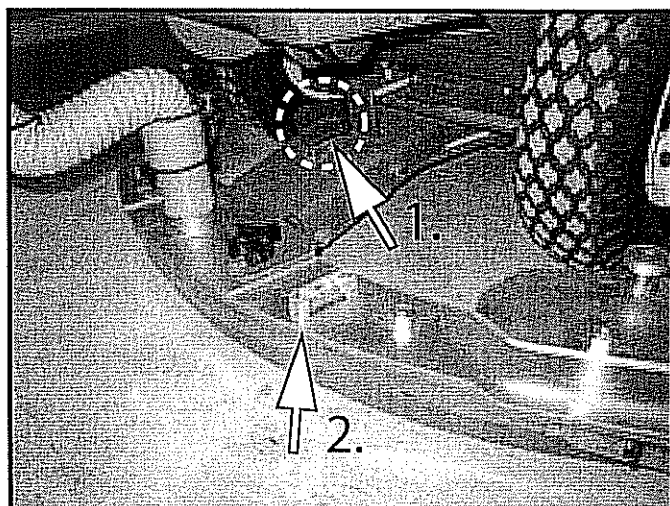
The squeegee height adjustment knobs raise and lower the squeegee for optimum squeegee deflection. The adjustment knobs are located directly above squeegee casters.



### SQUEEGEE PITCH ADJUSTMENT

The squeegee pitch adjustment knob controls the forward and backward tilt of the squeegee. The squeegee should be adjusted parallel to the floor. (*Ref. Arrow #1*)

The keychain bubble level, supplied with the machine, can be used for accurate squeegee adjustment. (*Ref. Arrow #2*)

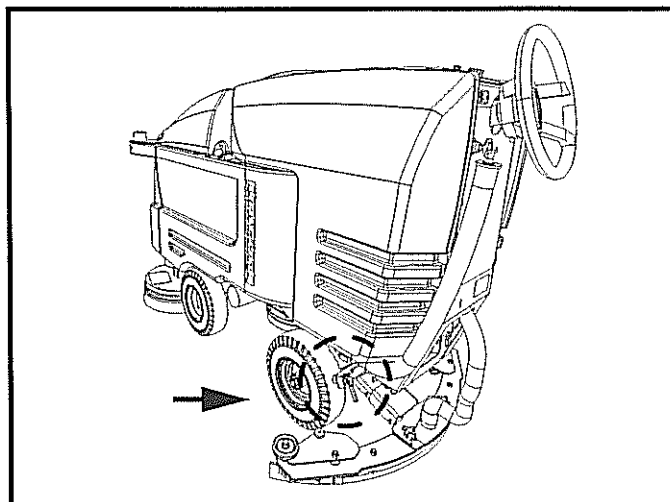


## OPERATION

### PARKING BRAKE

The parking brake is applied by pushing down on the parking brake lever.

The parking brake is released by lifting up the parking brake lever.



---

### BASIC MACHINE OPERATION

---

The scrub components of the machine include a solution tank, a recovery tank, scrub brushes, a squeegee, and a vacuum motor.

Water and detergent is dispensed from the solution tank, through a dispensing valve to the scrub brushes. For water pick up, the squeegee and vac motor work in unison to leave the freshly scrubbed surface clean and dry. Dirty solution is contained in the recovery tank.

The steering wheel controls forward, reverse, and steering. Pushing the steering wheel forward, propels the machine forward. Pulling the steering wheel propels the machine in reverse. Releasing the steering wheel returns the machine to neutral.

The scrub head widths are as follows:  
24 in. (610mm), 28 in. (710mm), 32 in. (810mm).

Both disks and cylindrical brush types are available.



---

## PRE-OPERATION CHECKLIST

---

Check over the following list of items before operating the scrubbing machine:

- Check under the machine for leaks
- Check the squeegee for proper adjustment. Check the squeegee blade for wear, rounded edges, nicks, or cuts.
- Check that brushes of proper type are on the machine.
- Check brushes for entangled wire, string, or twine.
- Check squeegee suction hose for obstructions.
- Check the recovery tank cover seals for wear or damage.
- Check that vacuum fan inlet filter is clean.

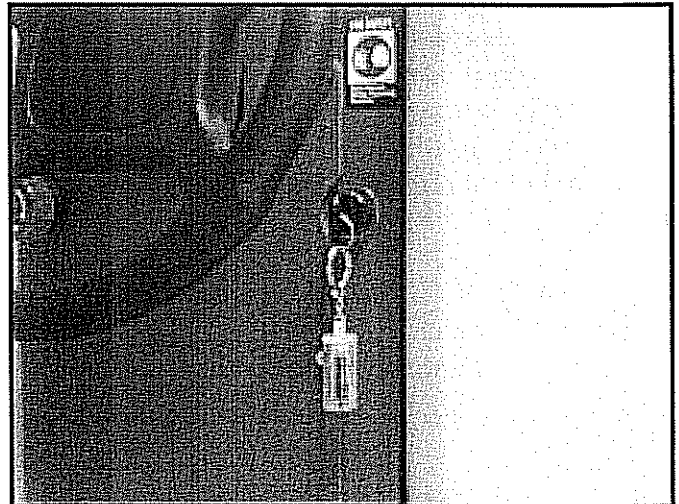
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## STARTING THE MACHINE

---

Turn key to power machine.

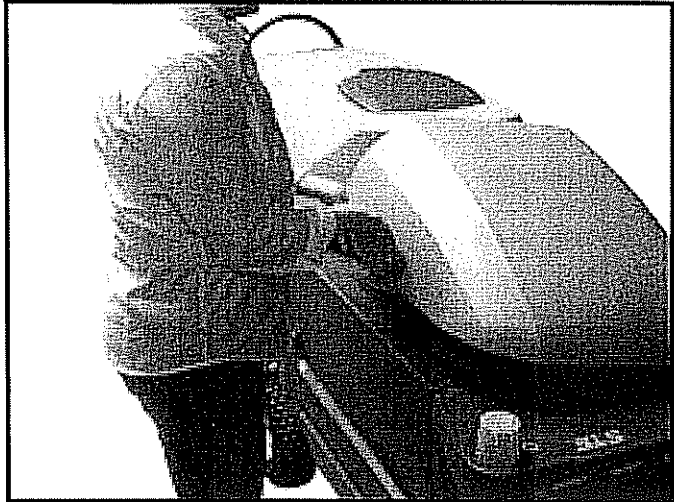
Release safety parking brake.



## OPERATION

### FILLING THE SOLUTION TANK

1. Lift battery cover.

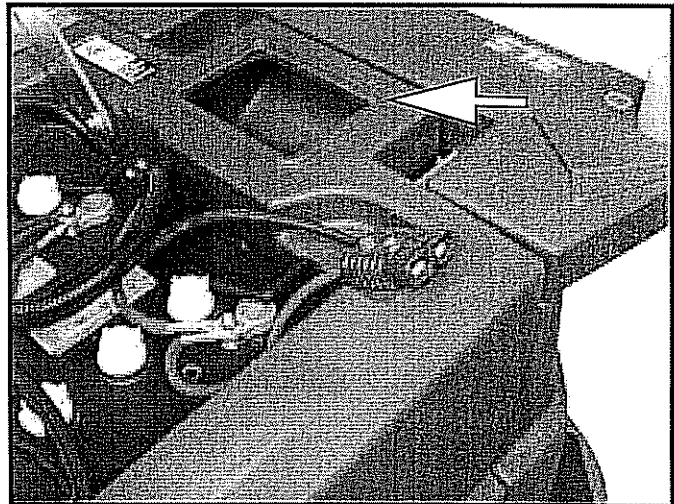


2. Fill solution tank through the fill opening indicated (*Ref. Arrow*).

For conventional scrubbing, partially fill the solution tank with water. Pour the required amount of detergent into the solution tank fill opening. Continue filling the solution tank with water 25mm or (1 in) below the bottom of the solution fill opening.

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

*NOTE: Floor conditions, water condition, amount of soilage, types of soilage, and brush action are important for determining the type and amount of concentration recommended for the environment being cleaned.*



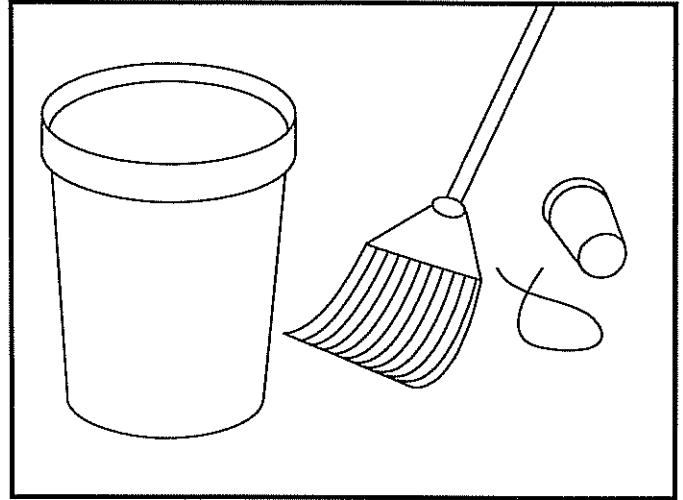
**WARNING:** Flammable materials can cause an explosion or fire. Do not use flammable materials.

---

**NORMAL SCRUBBING**

---

- ❑ Pick up oversized debris before scrubbing. Remove debris such as wire, string, twine, etc., which may become wrapped around the scrub brush.
- ❑ Plan the scrubbing in advance. Arrange runs with minimum stopping and starting. Complete entire floor or section at one time.
- ❑ Scrub as straight a path as possible. Avoid bumping into objects and/or brushing the sides of the machine. When scrubbing aisles, start at the closed end of the aisle to scrub your way out. Overlap the scrub paths by a few centimeters (inches).
- ❑ If you see poor scrubbing performance, stop scrubbing and refer to MACHINE TROUBLESHOOTING.



**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.

## OPERATION

**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.

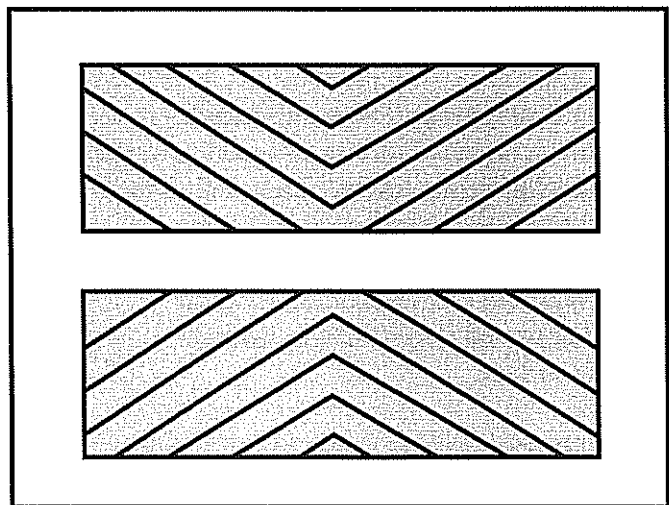
**Polishing pad** - Intended for polishing floors. Maintains a high gloss. Use for buffing very soft finishes and lower traffic areas, or use for polishing soft waxes on wood floors.

**Cylindrical polypropylene scrub brush** - This cylindrical brush is a softer, general purpose polypropylene bristle intended to lift lightly compacted soilage without scuffing high-gloss, coated floors.

**Cylindrical nylon scrub brush** - This cylindrical brush is recommended for scrubbing coated floors. Cleans without scuffing.

**Cylindrical super abrasive bristle scrub brush** - Nylon fiber impregnated with abrasive grit for removing stains and soilage. Performs well on buildup, grease, and/or tire marks.

*NOTE: Cylindrical scrub brushes must be installed with chevron patterns on brushes pointing toward each other for optimal debris pick up. (As viewed from below)*

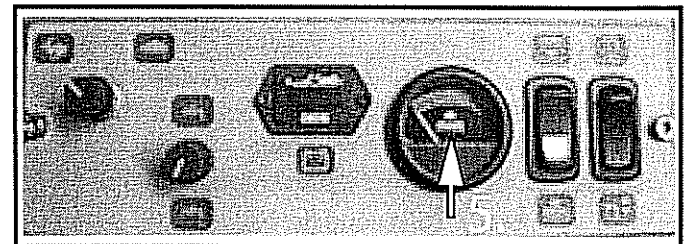
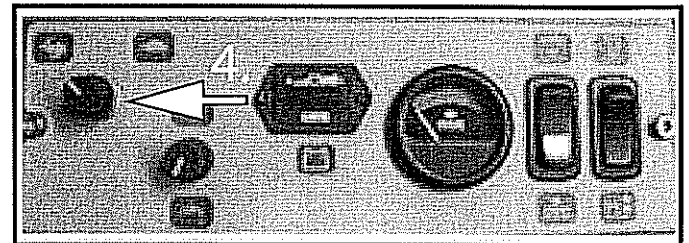
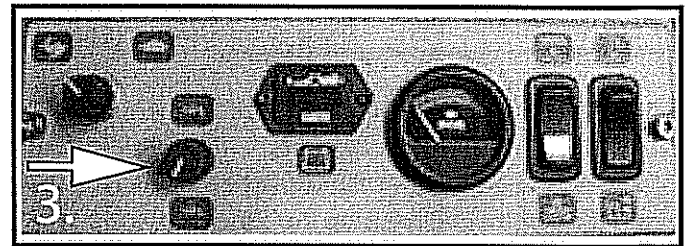
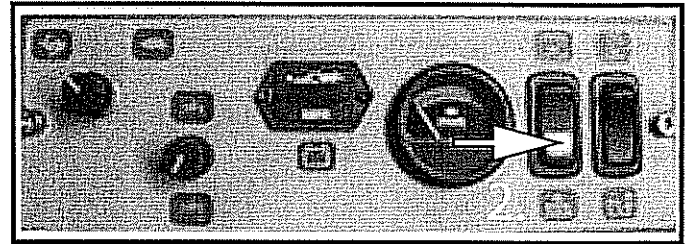
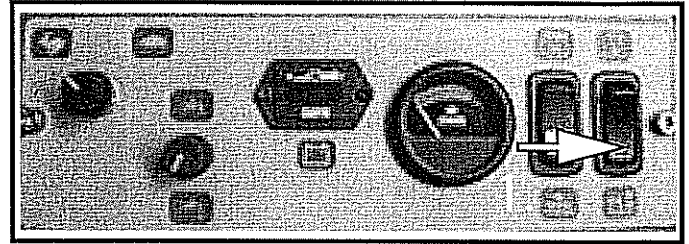


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**CONVENTIONAL SCRUBBING**


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1. Start the machine by turning the key switch on.
2. Be sure that the squeegee switch is in the lower or "automatic" position. *(Ref. Arrow #1)*
3. Lower the scrub head to the floor by pressing and holding the bottom of the scrub head switch. *(Ref. Arrow #2)*  
*The squeegee will automatically lower.*
4. Adjust solution flow rate during operation as required. *(Ref. Arrow #3)*
5. Adjust scrubber speed during operation as required. *(Ref. Arrow #4)*
6. Drive machine forward to scrub floor surface. The brushes will start and the solution valve will open.
7. Adjust brush pressure by pressing the bottom of the scrub head switch to increase or the top of the scrub head switch to decrease scrubbing pressure. *(Ref. Arrow #2).*
8. When adjusting brush pressure, watch brush pressure gauge *(Ref. Arrow #5).*



## OPERATION

### DOUBLE SCRUBBING

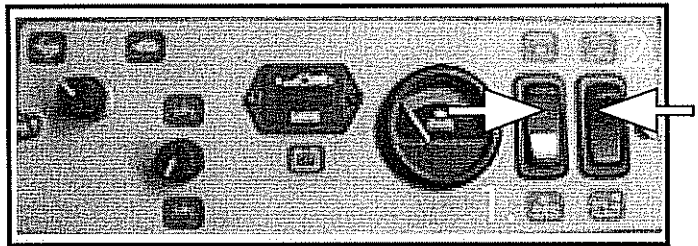
Double scrubbing is a method for removing heavy floor accumulations. This is done by making two or more passes over the area to be cleaned with the machine.

Begin by making a pass over the area scrubbing with the squeegee up. This dispenses solution over the the area allowing the solution to soak on the floor. Then make a second pass scrubbing with the squeegee down. Repeat if necessary.

**FOR SAFETY:** When using machine, go slow on inclines and slippery surfaces.

### STOP SCRUBBING

1. When scrubbing is complete, pick up the remaining solution on the floor by pressing and holding the top of the scrub head switch. At the same time, position the squeegee switch in the upper (squeegee down) position. The scrub head will raise and the squeegee will remain on the floor. (Ref. Arrows #1 and #2).



2. When finished, position the squeegee switch in the lower (automatic) position. The squeegee will raise and the vacuum motor will stop after a 15 second delay. (Ref. Arrow #3).

