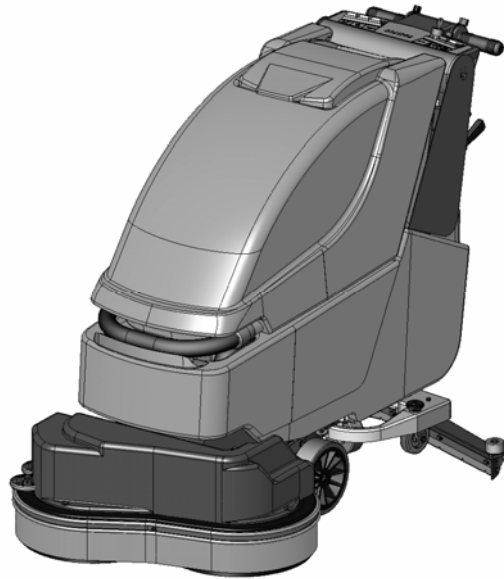




SSS ACE 26T & 26BA Auto Scrubber

Operating & Maintenance Instructions



READ THIS MANUAL

This operator's manual has important information for the use and safe operation of this machine. Read this manual carefully before starting the machine. Keep this manual and tell all operators to read this manual. If you do not follow the instructions, you can cause an injury or damage equipment. Carefully inspect all components to ensure that there is no concealed freight damage. If damage is discovered, file a "CONCEALED DAMAGE REPORT" immediately with the delivering carrier. The content of this manual are based on the latest product information available at the time of publication. **Triple S** reserves the right to make changes or improvements to its machines without notice.

For new manuals write to:

Triple S
2 Executive Park Drive
Billerica, MA 01862

or for additional information visit our website:

www.triple-s.com

FOR YOUR CONVENIENCE, RECORD THE FOLLOWING IMPORTANT INFORMATION:

SERIAL NUMBER

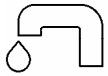

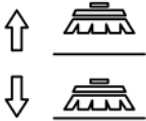

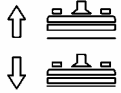
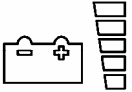





DATE PURCHASED



SAFETY INSTRUCTIONS

- 1) You must have training in the operation of the machine before using it. **READ THE INSTRUCTION BOOK.** If you do not understand any instruction, ask your supervisor.
- 2) Make sure all labels, decals, warnings, cautions and instructions are fastened to the machine.
- 3) Read the labels carefully on the machine. Do not cover them for any reason and replace them if damaged.
- 4) Do not operate this machine unless it is completely assembled and inspect the machine carefully before operation.
- 5) Pay close attention to other people and especially children while operating this machine.
- 6) Be a careful driver and do not strike shelving or scaffolding, especially where there is a danger of falling objects.
- 7) Machines can cause an explosion when operated near flammable materials and vapors. Do not use this machine with or near fuels, grain dust, solvents, thinners, or other flammable materials.
- 8) In case of fire, use a powder extinguisher. Do not use water.
- 9) Do not use this machine as a means of transport.
- 10) Do not use acid solutions that could damage the machine.
- 11) Adjust your speed to the conditions of the floor.
- 12) Do not turn the machine on an incline. Do not stop and leave the machine on a ramp or incline.
- 13) When the machine is parked, remove the key and set the parking brake.
- 14) During any maintenance operation disconnect the power supply from the machine.
- 15) Lead acid batteries generate gases that can cause an explosion. Read the instruction manual supplied with the battery charger. Keep sparks and flames away from batteries. **NO SMOKING.** Charge the batteries only in an area with good ventilation.
- 16) Do not use a charger if the power cord is damaged.
- 17) Always wear eye protection and protective clothing when working near batteries. Remove all jewelry. Do not put tools or other metal across the battery terminals, or on the top of the batteries.
- 18) Maintenance and repairs must be performed by authorized Service Centers only.
- 19) Keep the electrical parts of the machine dry. Do not wash the machine with direct water jets or high pressure, or with corrosive material. For storage, keep the machine in a dry location.
- 20) Water solutions or cleaning materials used with this type of machine can leave wet areas on the floor surface. These areas can cause a dangerous condition for the operator or other persons. Always put **CAUTION** signs near the area you are cleaning.
- 21) Do not reach under shrouds with fingers, hands, or toes when machine is running.

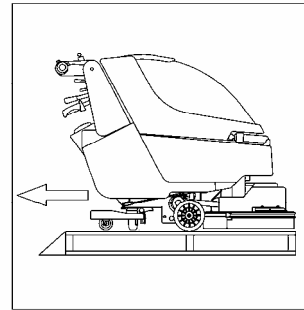
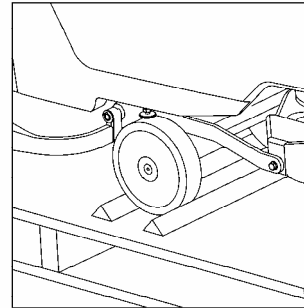
SYMBOLS USED ON THE AUTOMATIC SCRUBBER

	Water Valve Indicator
	Brush Drive Motor Control Switch
	Brush Base Lifting Lever
	Vacuum Motor Control Switch
	Squeegee Lift Lever Indicator
	Battery Charge Indicator
	Parking Brake Indicator
	Handle Bar Height Adjustment Lever
	OFF / ON Key Switch Indicator
	Maximum temperature of fluid added to Solution Tank is 50° Celsius (120° Fahrenheit)
	Water Flow Control Indicator

MACHINE PREPARATION

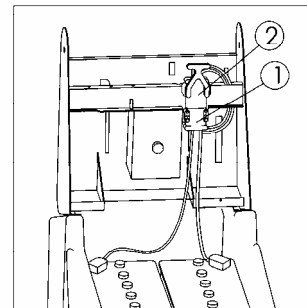
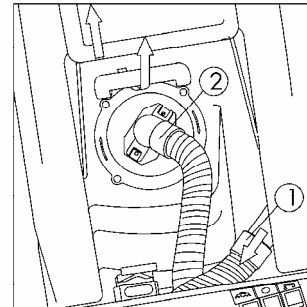
1) UNPACKING THE MACHINE

- a) Take off the outer packaging.
- b) The machine is fastened to the pallet with wooden wedges that block the wheels. Remove wedge and tie down straps.
- c) Using a ramp, pull the machine off the pallet.



2) BATTERY INSTALLATION

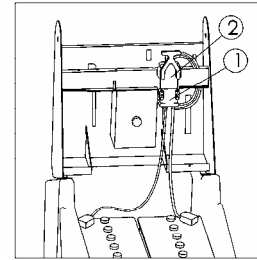
- a) Lift the recovery tank forward.
- b) Detach the squeegee hose (Item 1- Upper Image) from the recovery tank.
- c) Remove the vacuum cover (Item 2 - Upper Image) by rotating it counterclockwise.
- d) Place the batteries in the battery compartment.
- e) Connect the battery connector (Item 2 – Lower Image) to the machine connector (Item 1 – Lower Image).
- f) Lower the recovery tank and reassemble the vacuum plug and squeegee hose.



MACHINE PREPARATION

3) BATTERY INSTALLATION (Cont.)

The battery charger's connector fits into the battery connector (1).



4) CHARGING THE BATTERIES

NEVER ALLOW THE BATTERIES TO COMPLETELY DISCHARGE. Recharge them within a few minutes after the battery indicator starts flashing. Never leave the batteries completely discharged, even if the machine is not being used.



WARNING! When charging the batteries, follow all the instructions provided with this manual and the battery charger. Trained staff must carry out the installation and maintenance operations.



WARNING! Fire Danger: Lead acid batteries generate gases that can cause an explosion. Keep sparks and flames away from batteries. **NO SMOKING!**



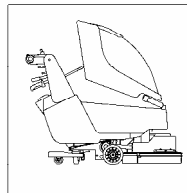
WARNING! To prevent an explosion, charge the batteries only in an area with good ventilation.



WARNING! Always wear eye protection and protective clothing when working near batteries.

When charging the batteries, keep the recovery tank lifted by supporting the prop as shown in the figure below.

Turn the key to the OFF position. Connect the DC connector on the charger to the DC battery connector. Connect the AC charger plug to a receptacle that has the correct voltage and frequency for your charger. Make sure the receptacle is connected to the electrical ground.

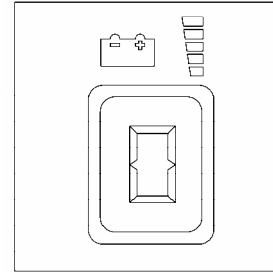


MACHINE PREPARATION

5) BATTERY CHARGE LEVEL INDICATOR

The batteries' indicator is digital with 4 display levels and a flashing one. The numbers, which appear on the display, show the approximate charge level. 4 represents a full charge and 0 represents discharged and the batteries must be recharged.

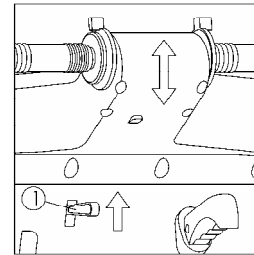
NOTE: The brush motor automatically switches off after the battery indicator light begins to flash. You will be able run the vacuum motor and finish drying any wet areas.



6) HANDLE BAR HEIGHT

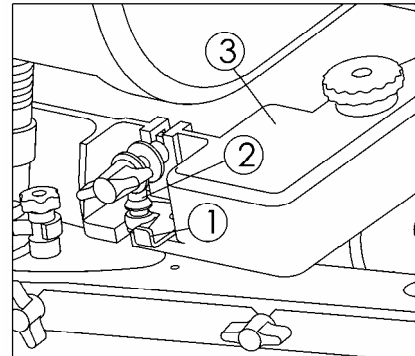
The handle bar is adjustable into three different positions, to adjust:

- Release the lever (1).
- Place the handle bar at the desired height.
- Release the lever and the handle bar will lock into place.



7) SQUEEGEE ASSEMBLY

The squeegee is assembled as shown in the figure. The squeegee lever should be in its up position. Push on the locking lever (1) and lock it into the post's (2) groove to secure the squeegee in place. Then fit the squeegee hose into its coupling. The hose should be located to the right of the lifting cable.

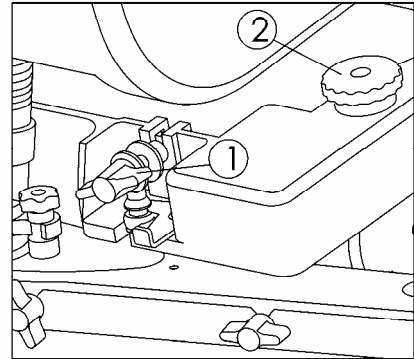


MACHINE PREPARATION

8) ADJUSTING SQUEEGEE HEIGHT

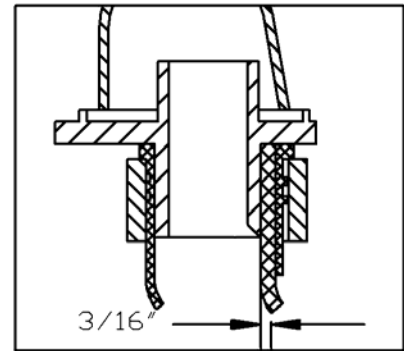
The height from floor to squeegee should be adjusted based on blade wear. Rotate the knobs (2) counter-clockwise to lift squeegee and clockwise to lower it.

NOTE: Rotate the right and left adjusting knobs until the squeegee is positioned parallel to the floor.



9) ADJUSTING SQUEEGEE INCLINATION

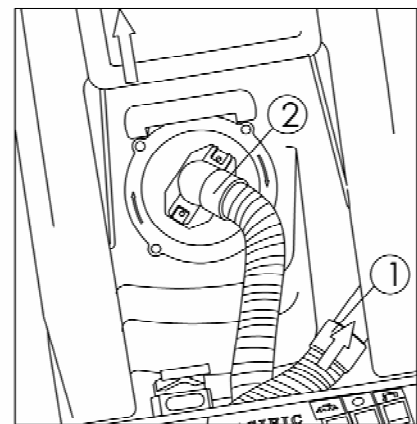
During operation the rear squeegee blade is most efficient when bent backwards roughly $3/16^{\text{th}}$ of an inch along its entire length. To increase the blade bending in the center of the squeegee, tilt the squeegee body backward by turning the adjuster screw (1) in the image above, counter-clockwise. Conversely, turn the adjuster screw (1) clockwise to increase the bending at the outside edges of squeegee blade.



10) RECOVERY TANK

Open the lid and confirm the following connections are secure:

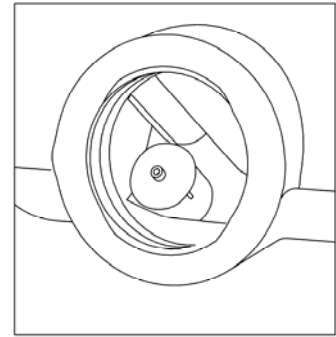
- The vacuum cover (2) is securely attached. Align the notches and rotate the cover clockwise to close. The vacuum hose must also be attached.
- Confirm that the squeegee hose (1) is properly connected.
- Confirm that the drain hose plug, which is located at the front of the machine, is closed.



MACHINE PREPARATION

11) SOLUTION TANK

Remove water inlet cover plug and confirm the solution filter, which is located on the bottom left side, is properly assembled.



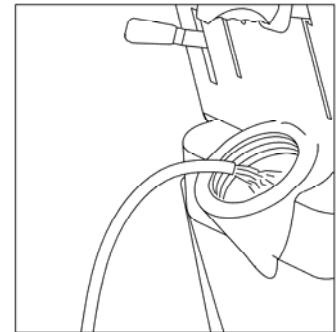
12) SOLUTION WATER

Fill the solution tank with clean water at a temperature not higher than 50°C / 122°F. Add the proper concentration of liquid detergent by following the manufacturer instructions. Excess foam in the recovery tank can damage the vacuum motor, so use only the minimum amount of detergent necessary. Reassemble the cover.



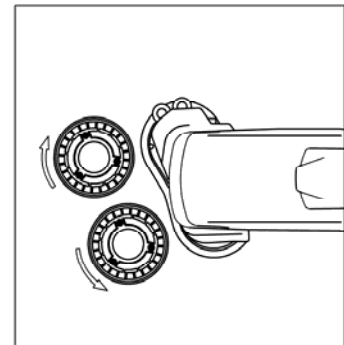
WARNING! Always use low foaming detergent. Adding antifoam liquid into the recovery tank before cleaning will also help prevent foaming.

NEVER USE ACID

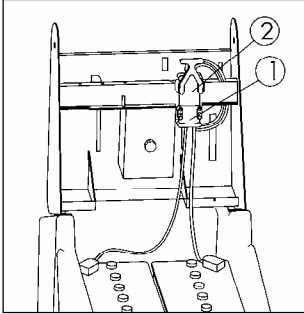
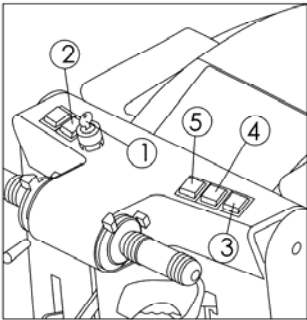



13) BRUSH INSTALLATION

- a) Lift the brush base by lifting on the hand level at the rear of the machine.
- b) Place the brushes under the base. Align the brush lugs with the holes in the brush plate. Insert the brushes into the plate and turn each brush so the lugs are pushed toward their retaining springs, until locked. The image shows the directions to rotate the brushes to lock them into operating position.



MACHINE OPERATION

<p>1) Connect machine connector (2) to the battery connector (1).</p>	
<p>2) Turn key (1) clockwise to ON. Signal light (3) will illuminate indicating that the batteries are charged. If the indicator is flashing the batteries need to be charged.</p> <p>3) Turn on the water solenoid valve switch (3).</p> <p>4) Turn on the brush motor switch (5).</p> <p>5) Turn on the vacuum motor switch (4).</p>	
<p>6) Adjust the flow rate of the cleaning solution with lever (1). There should be enough solution to wet the floor uniformly, but not so much that the water gets past the splash guard. Remember that the correct solution quantity depends on the type of floor, the dirt level and the scrubbing speed.</p> <p>7) Release and lower lever (2) to lower the brush base.</p> <p>8) Lower the squeegee using lever (3).</p> <p>9) Release parking park lever (4).</p> <p>During the first few yards of operation, check that the quantity of the cleaning solution is sufficient to wet the floor and that the squeegee dries the floor surface.</p>	

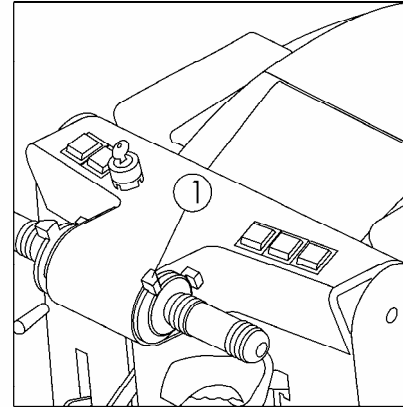
MACHINE OPERATION

10) MACHINE MOVEMENT

These machines are equipped with driven traction wheels or brush assist propulsion. The machines with driven wheels have two speeds forward and one speed backwards. To move either style machine forward, turn the key ON, wait for 3 seconds and then rotate forward lever (1) on the handle bar. To reverse the machines with driven wheels rotate backwards lever (1). To reverse the machines with brush assist propulsion pull backwards on the handle bar. The machines with driven wheel have two forward speeds. The first forward speed is obtained by rotating level (1) forward a few degrees. The second and faster speed is obtained by rotating lever (1) all the way forward.



WARNING! Always lift the squeegee when moving backwards.

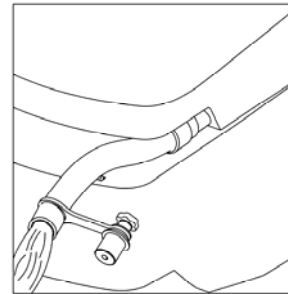


11) OVER FILL PROTECTION

The machine is equipped with a float that stops the vacuum exhaust air flow when the recovery tank is full. When this occurs, empty the recovery tank by removing the plug on the drain hose.

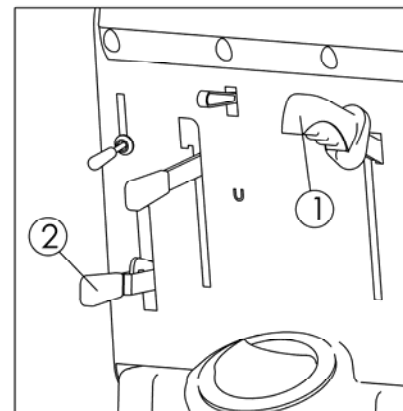


WARNING! Use gloves for protection from contact with dangerous solutions.



12) BRAKE

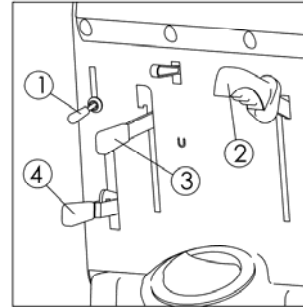
The machine is equipped with a braking system. To brake in normal working conditions, release the lever on the handle bar and the machine will stop. In case of an emergency, push down on brake level (2). This brake is also a parking brake.



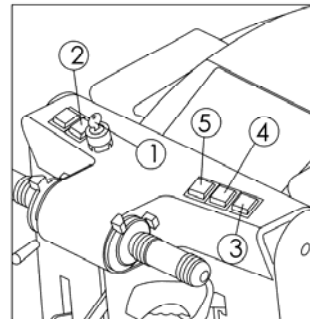
UPON COMPLETION OF MACHINE USE

After finishing your work and before any type of maintenance is done, it is necessary to do the following:

- 1) Close the water valve with lever (1).
- 2) Raise the brush base with lever (2).
- 3) Lift the squeegee with lever (3). **Note: The squeegee blades can be damaged if the squeegee is not raised during storage or transport.**



- 4) Switch off the water solenoid valve switch (3)
- 5) Switch off the brush motor switch (5).
- 6) Switch off the vacuum motor switch (4).
- 7) Transport the machine to the location where the recovery tank should be emptied.
- 8) Turn off key (4).
- 9) Set the parking brake (4) in the above image.

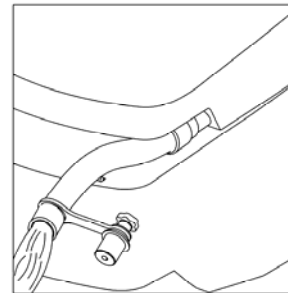


- 10) Remove the hose at the front of the recovery tank.
- 11) Unscrew and remove the drain plug and empty the recovery tank.



WARNING! Use gloves for protection from contact with dangerous solutions.

- 12) Remove the brushes or pad drivers and clean them with clear water.



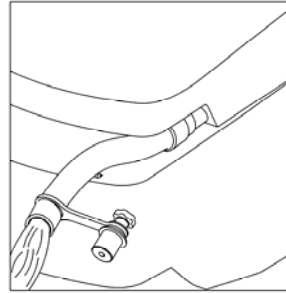
DAILY MACHINE MAINTENANCE

CLEANING THE RECOVERY TANK

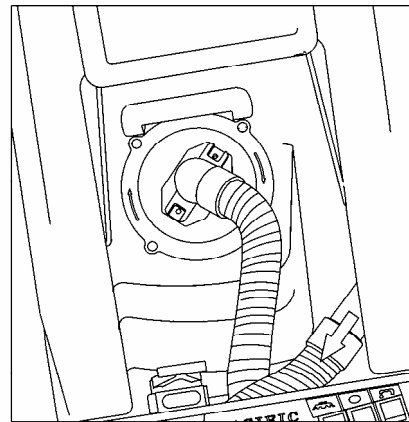
- 1) Empty the recovery tank by removing the plug from the drain hose.



WARNING: Use gloves for protection from contact with dangerous solution.

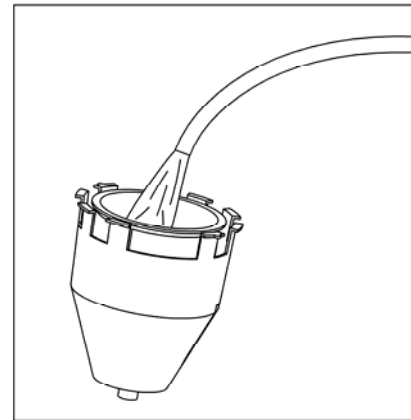


- 2) Lift the cover of the recovery tank.
- 3) Take off the vacuum cover by rotating it counter clockwise.
- 4) Remove the filter and its housing.
- 5) Rinse the tank with clean water.



CLEANING THE VACUUM FILTER

- 6) Lift the cover.
- 7) Take off the vacuum cover by rotating it counter clockwise.
- 8) Remove the filter and its housing.
- 9) Use clear water to clean the walls and the bottom of the filter.
- 10) Remove the filter and its housing.
- 11) Wash all components thoroughly.
- 12) Reassemble repeating the above operations in reverse.

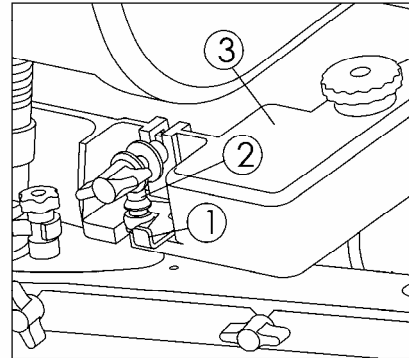


DAILY MACHINE MAINTENANCE

CLEANING THE SQUEEGEE

To obtain the best drying results, keep the squeegee clean. To clean the squeegee it is necessary to:

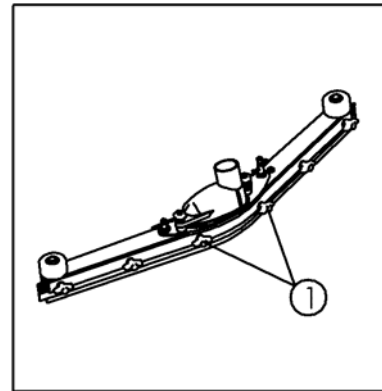
- 13) Remove the vacuum hose from the squeegee.
- 14) Press release latch (1) toward the center of the machine. Remove the squeegee assembly.
- 15) Clean the inside of the squeegee thoroughly.
- 16) Clean the squeegee blades thoroughly.
- 17) Reassemble.



REPLACING THE SQUEEGEE BLADES

Check the squeegee blades for wear and if necessary, change them. To replace the squeegee blades:

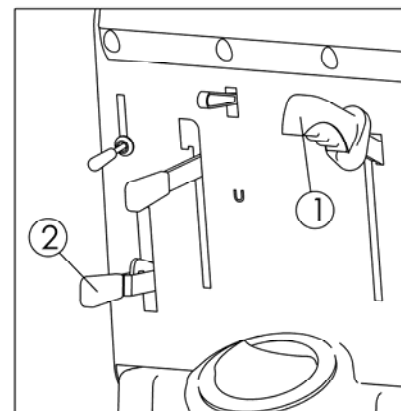
- 18) Remove the squeegee vacuum hose from its port.
- 19) Press release latch toward the center of the machine. Remove the squeegee assembly.
- 20) Remove the squeegee from its support.
- 21) Loosen the wing nuts (1) that lock the rubber blades and take them off.
- 22) Replace the blades.
- 23) To reassemble the squeegee, repeat the above operations in reverse.



BRUSH / PAD DRIVER REMOVAL

To remove the brushes / pad drivers:

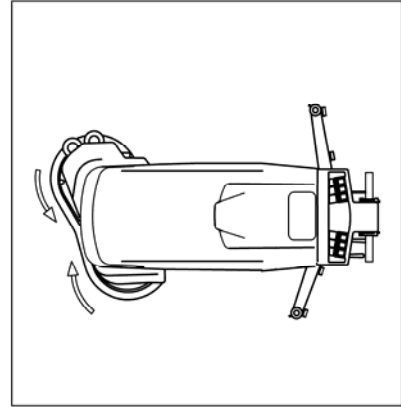
- 24) Lift the brush base with the lever (1).
- 25) Set parking brake by pressing down on level (2).
- 26) Turn the key to the OFF position.



DAILY MACHINE MAINTENANCE

BRUSH / PAD DRIVER REMOVAL (Cont.)

27) Rotate each brush until they come off the brush plate. The figure shows the direction to rotate each of the brushes to release them from the machine.



BATTERY COMPARTMENT CLEANING

28) Use the hose under the solution tank, which is accessible from the rear of the machine to empty any liquids from the battery compartment.



WARNING! Use gloves for protection from contact with dangerous solutions. Danger of emission of corrosive liquids!



FIRE DANGER: Do not approach with open flames!

WEEKLY MACHINE MAINTENANCE

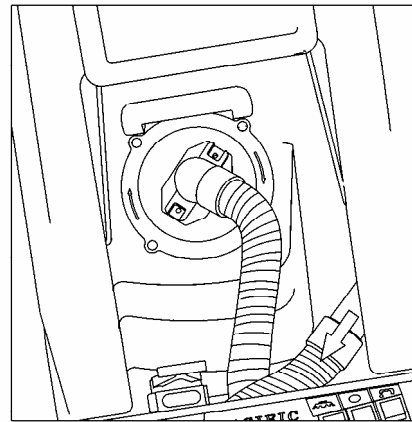
CLEANING THE SQUEEGEE HOSE

To obtain the best drying results, keep the squeegee hose clean. To clean the squeegee hose it is necessary to:

- 1) Take off the vacuum hose from its vacuum port on the squeegee.
- 2) Remove the other end of the vacuum hose from the recovery tank.
- 3) Wash the inner part of the hose with clean water.
- 4) Reassemble.



WARNING: Do not wash the hose that goes from the vacuum motor to the vacuum cover.

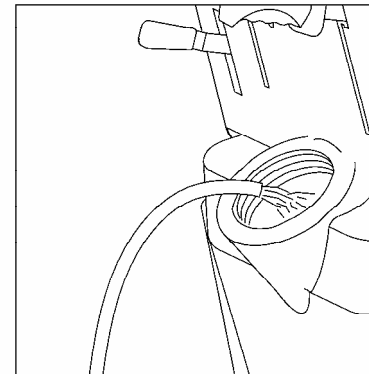


SOLUTION TANK CLEANING

- 5) Remove the fill cap from the solution tank.
- 6) Rinse with clear water.
- 7) Remove the solution tank drain hose and cap and empty the solution tank.

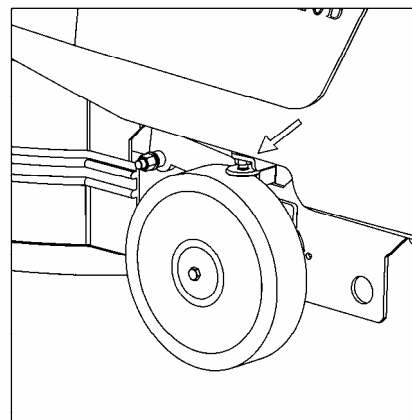


WARNING: Use gloves for protection from contact with dangerous solution.



CHECK BRAKE

Check the gap distance between the brake pads and wheels weekly. Adjust the gap so that there is 1/8 inch (3mm) between the brake pads and wheels by adjusting the nuts shown in the picture.



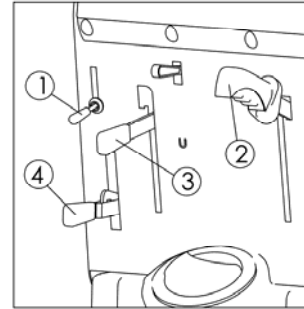
TROUBLE SHOOTING GUIDE

1) INSUFFICIENT WATER TO THE BRUSHES

- a) Make sure the water valve is open (lever 1).
- b) Confirm that there is water in the solution tank.

2) THE MACHINE DOES NOT CLEAN SATISFACTORILY

- a) Check the condition of the brushes or pads and replace them if necessary.
- b) The brushes should be replaced when the bristles reach a length of 5/8 inches (15mm).



3) THE SQUEEGEE DOES NOT DRY THE FLOOR WELL

- a) Check that the squeegee blades are clean.
- b) Adjust the inclination of the squeegee.
- c) Confirm the vacuum hose is correctly fitted into its port in the recovery tank.
- d) Remove the entire vacuum assembly and clean it.
- e) Replace the blades if worn.
- f) Check that the vacuum motor switch is on.
- g) Check the squeegee height adjustment (see "MACHINE PREPARATION" section 3).

4) EXCESSIVE FOAM PRODUCTION

- a) Check that a low foaming detergent has been used. If required, add a small quantity of defoamer liquid to the recovery tank. More foam is generated when a floor is lightly soiled. Use less detergent if this is the case.



WARRANTY POLICY TRIPLE S LIMITED WARRANTY

The **SSS ACE 26T and 26 BA** have been manufactured, tested and inspected in accordance with specific engineering requirements. This machine is **WARRANTED** to be free from defects in workmanship and materials for periods as follows from the date of purchase.

Ten (10) Years Parts, One (1) Year Labor – Polyethylene Components
Five (5) Years Parts, One (1) Year Labor – Main Frame
Two (2) Years Parts, One (1) Year Labor – Brush Drive Motors
One (1) Year Parts & Labor – All other components unless excluded below

Travel time for warranty repair is authorized for a period of ninety (90) days following the date of sale to the end user, with a maximum of three (3) hours per claim.

This warranty extends to the original user/purchaser and only when used, operated and maintained in accordance with **Triple S** Operating and Maintenance instructions.

This warranty does not apply to certain wear parts and accessories of the machine such as electrical cords, carbon motor brushes, floor brushes, belts, hoses, tools, squeegee blades, etc., nor does it apply to damage or failure caused by improper use, abuse or neglect. Warranty credit of return parts including motors, pumps, etc., is subject to incoming inspection of those items.

To secure repair under this warranty, the following procedure should be taken:

1. After the expiration of the ninety (90) day travel time warranty period, the customer is responsible for warranty travel payment for the inoperative machine or warranted parts must be delivered to the authorized dealer with shipping and delivery charges prepaid. If unable to locate the Dealer, you may contact **Triple S** at the address listed herein for the location of the nearest **Triple S** repair center, agent or for other instruction pertaining to your warranty difficulty.
2. Upon compliance with the above warranty procedure, all warranted repairs will be completed at no additional charge or cost to the user.
3. Only **Triple S** or its authorized dealers and agents may make no charge warranty repairs on this product. All others do so at their own risk.

This warranty limits **Triple S** liability to the repair of the product and/or warranted parts replacement and does not include incidental or consequential damages arising from the use of a **Triple S** machine whether defective or not.

BATTERY WARRANTY

In addition to the terms above, any original equipment **Triple S** battery which becomes unserviceable under normal use within a period of ninety (90) days from the date of sale to the original user will be repaired or replaced with one of equal specification at our option, F.O.B. any authorized **Triple S** sales or service branch, with no charge to user, except transportation costs. After the expiration of the above ninety (90) day period, any battery which fails under normal use will be adjusted to the original user with a new battery of equal specification on a twelve (12) month pro rata basis from the date of purchase. Adjustments will be determined using the then current list price, plus transportation costs. Warranty is rendered null and void if battery is not kept filled to the proper level with DISTILLED WATER.

This warranty is in lieu of all other expressed or implied warranties and is extended to the original purchaser/user.

