



E88900-00



GENESYS™ 15

15" Floor
Cleaning Machine



Operator and Parts
Manual

1001 Brown Avenue • Toledo, Ohio 43607-0127
Customer Service: 888-GO-BETCO • Fax: 800-445-5056 • Technical Service: 877-856-5954 • www.betco.com

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RECEIVING THE MACHINE

Immediately check, when receiving the machine, that all the materials indicated on delivery documents have been received and also that the machine has not been damaged in transit. If it has been damaged, this damage must be immediately reported to the shipper and also to our customer service department. Only acting promptly in this manner will make it possible to receive missing material and to be compensated for damage.

INTRODUCTION

This is an automatic scrubber which, via the mechanical action of the rotating brush and chemical action of a water/detergent solution, can clean many types of hard surfaces. As it advances, it also collects the dirt removed and the detergent solution leaving the floor dry.

The machine must be used only for this purpose. Even the best machines will only work well if used correctly and kept in good working order. We therefore suggest you read this instruction booklet carefully and re-read it whenever difficulties arise while using the machine. Please contact our technical service department if you have any questions about the machine.

TECHNICAL DESCRIPTION	Measurement Unit	GeneSys 15™
Cleaning Width	Inches	15
Brush Diameter	Inches	3.5
Brush Rotation	RPM	800
Brush Motor Power	HP	0.5
Vacuum Motor Power	WATT	800
Vacuum Motor Suction	Inches of Water	77
Solution Tank Capacity	Gallons	3.00
Recovery Tank Capacity	Gallons	3.25
Work Capacity	Ft ² /Hr	10,000
Weight	Pounds	84

GENERAL SAFETY REGULATIONS

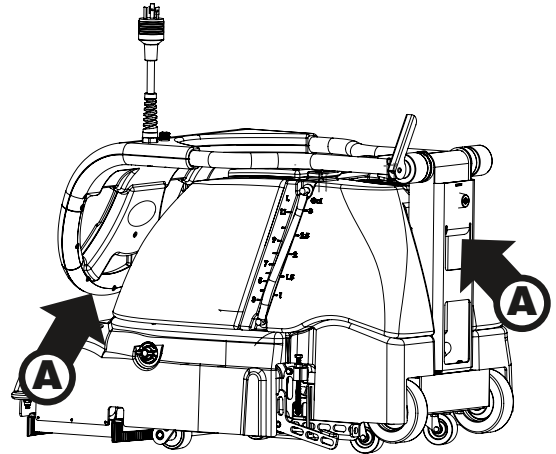
The regulations below must be carefully followed in order to avoid harm to the operator and damage to the machine.

- Read all labels on the machine carefully. Do not cover them for any reason and replace them immediately if they become damaged.
- The machine must be used exclusively by authorized and trained personnel.
- When operating the machine be careful of other people.
- The machine is not designed for cleaning carpets.
- The power cable outlet must be provided with a proper ground.
- Avoid damaging the power cable by crushing, bending, cutting or stressing it.
- Whenever the power cable is damaged, immediately contact a Betco service center.
- Do not mix different types of detergent as this may produce harmful gases.
- Machine storage temperature is between -10°F and 130°F, never store outside under humid conditions.
- Operating conditions: room temperature between 33°F and 100°F with relative humidity between 30% to 95%.
- Only use the machine in closed areas and do not expose it directly to rain.
- Never use the machine in an explosive environment.
- Do not use the machine as a means of transport.
- Never use acidic chemicals which could damage the machine.
- Avoid running the brushes with the machine stopped; this could damage the floor.
- Never vacuum up flammable liquids.
- Do not leave the machine unattended when it is plugged in.
- Do not allow the solution pump to run dry for more than 3 minutes.
- Never use the machine to gather dangerous powders.
- Use a powder fire extinguisher in case of fire. Do not use water.
- Do not hit against shelving or scaffolding.
- The operator must always be equipped with the appropriate personal protective equipment (gloves, shoes, helmet, glasses, etc.)
- The machine is designed to wash and dry floors simultaneously. Signal the presence of wet floors with suitable signs.
- If the machine does not work properly, perform routine maintenance. Otherwise, request the assistance of our technical service department.
- When replacing parts ask for ORIGINAL spare parts from your Authorized Dealer and/or Retailer.
- Always turn off the machine and disconnect the power supply whenever maintenance is performed.
- Never remove guards that require tools for removal.
- ***Never wash the machine with direct or pressurized jets of water or with corrosive substances.***
- Have your equipment service center check the machine once a year.
- To prevent the formation of scale in the solution tank, do not store the machine with detergent solution in the tanks.
- Before using the machine make sure that all doors and covers are positioned as shown in this operating and maintenance manual.
- When your machine is ready to be retired, it must be disposed of properly.
- Use only brushes furnished with the machine or those specified in the user's manual. Use of other brushes can compromise safety.

MACHINE PREPARATION

1. LIFTING THE MACHINE

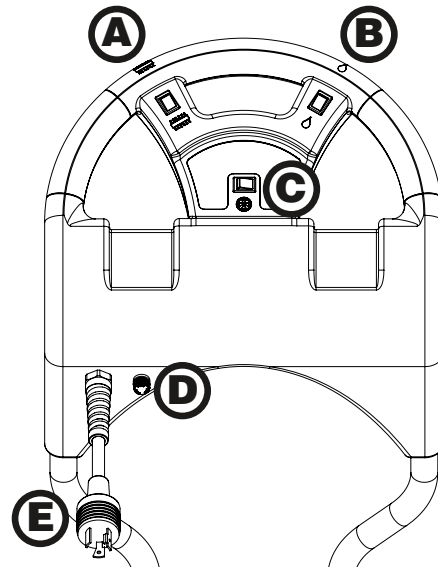
- A. The machine should be lifted using the front of the handle and the handgrip on the rear handle tower.



2. INSTRUMENT PANEL COMPONENTS

The instrument panel components are identified as follows:

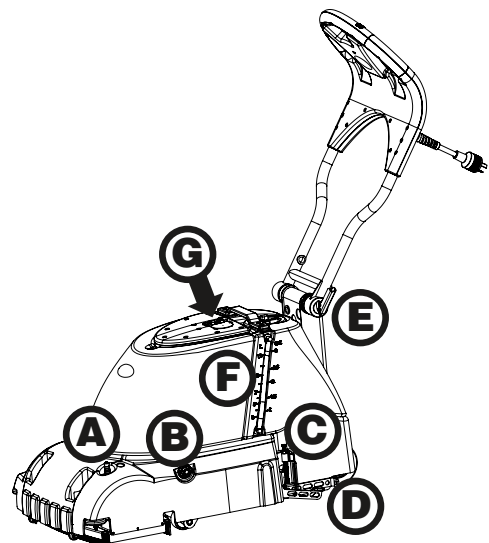
- A. ON/OFF Brush Control
- B. ON/OFF Solution Control
- C. ON/OFF Vacuum Control
- D. Fuse Holder
- E. Electrical Supply Cord



3. MACHINE COMPONENTS

The machine components are identified as follows:

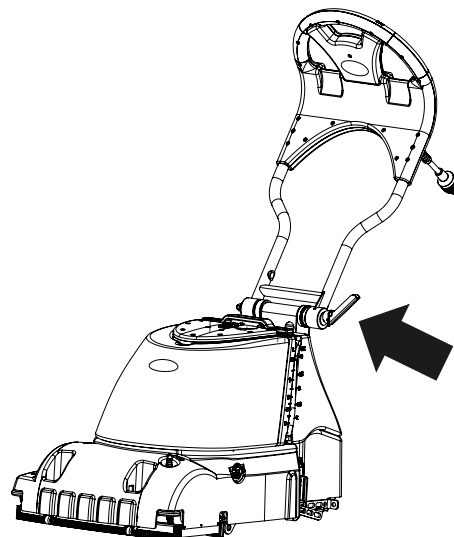
- A. Auxiliary Solution Connection
- B. Solution Flow Control Valve
- C. Head Pressure Adjustment Bolt
- D. Transport Wheel Engagement Lever
- E. Handle Position Locking Device
- F. Solution Level Sight Gauge
- G. Auxiliary Vacuum Connection



OPERATION

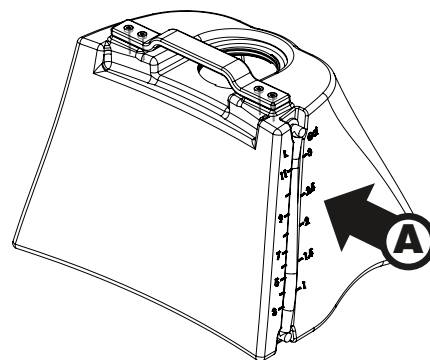
1. HANDLE ADJUSTMENT

- A. Open the cam handle to release the handle locking gears.
- B. Move the handle either up or down to a comfortable operating height or the storage position.
- C. Close the cam handle to lock the gears back into place.



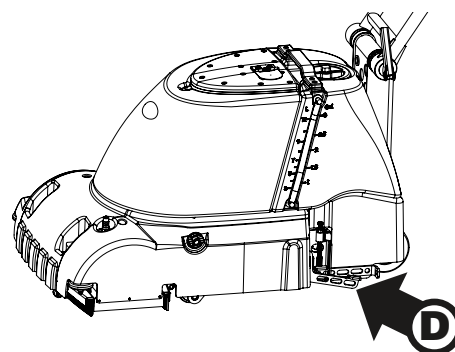
2. MACHINE OPERATION

- A. Fill the solution tank with clean water at a temperature not exceeding 120°F. An operator can check the level of solution in the tank by looking at the sight gauge on the side of the tank.
- B. Add liquid detergent into the tank using the correct concentration and manner specified by the manufacturer. Excess foam could damage the vacuum motor, so be sure to use only the correct amount of detergent.



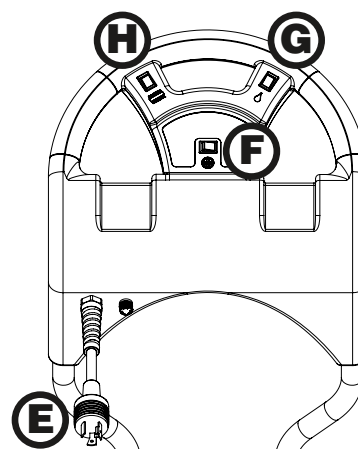
- C.  **To ensure proper operation, 2 ounces of defoaming liquid should be poured into the recovery tank before each use. Defoaming liquid should only be used in the recovery tank, never the solution tank.**

If tank is removed from the machine for remote filling, be sure to press it firmly on the base when returning it to the machine. This is required to ensure that the solution valve on the bottom of the tank properly engages with the solution port on the base.



- D. Release the transport wheels by pressing on the foot lever. This will lower the brush and squeegees onto the floor.

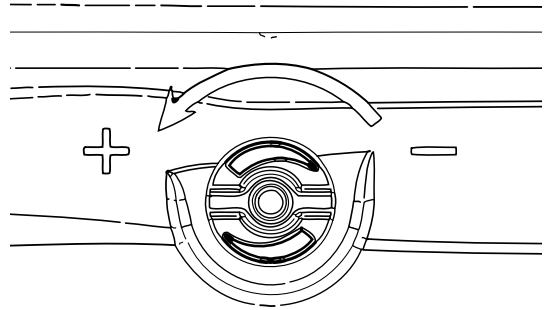
- E. Plug the cord into a standard 120v outlet.
- F. Turn on the Vacuum Switch
- G. Turn on the Water Control Switch
- H. Turn on the Brush Control Switch



OPERATION

3. SOLUTION FLOW CONTROL

- A. The solution flow control valve is located on the left side of the machine.
- B. Turn the knob clockwise to decrease solution flow or turn the knob counter-clockwise to increase the solution flow.
- C. To completely turn off the flow of solution, turn the solution knob clockwise until the valve is closed.

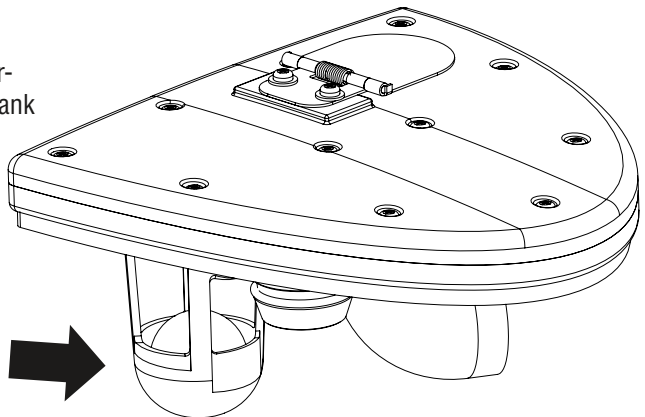


4. FORWARD AND REVERSE MOVEMENT

- A. The machine will scrub and vacuum water in both the forward and reverse directions.

5. OVERFLOW DEVICE

- A. The machine has a float in the recovery tank lid that will stop air-flow to the vacuum motor when the water level in the solution tank is too high.
- B. The recovery tank must be drained when this happens.



6. TOOL KIT OPERATION

- A. Turn the solution control knob clockwise until the valve is completely closed.
- B. Insert the long hose cuff of the vacuum hose into the vacuum port on the clear recovery tank lid.
- C. Connect the solution hose to the auxiliary solution port on the front left of the machine.
- D. Connect the vacuum hose and solution line to the tool or wand being used.
- E. The extension tool is now ready to use.

SHUTTING DOWN THE MACHINE

1. END OF WORK

When shutting down the machine and before performing any type of maintenance:

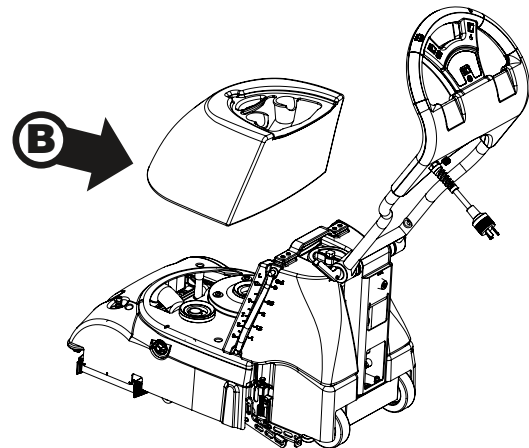
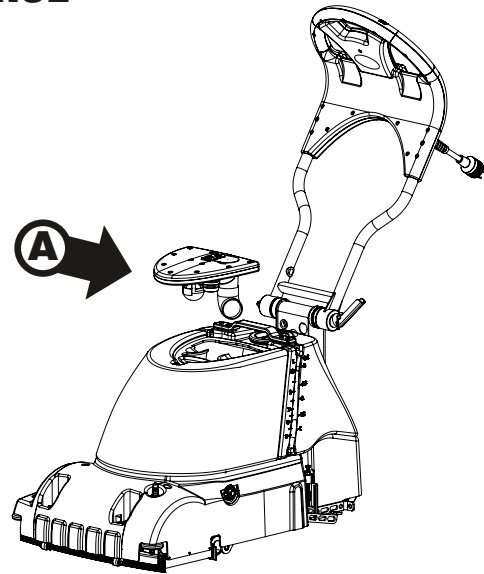
- A. Turn off the solution control valve.
- B. Turn off the solution control switch, brush drive switch, and vacuum motor switch.
- C. Raise the brush deck off the floor using the foot lever.
- D. Unplug machine from power source.
- E. Remove both tanks from the machine and dump out residual solution.

- F.  ***ALWAYS WEAR GLOVES.***

DAILY MAINTENANCE

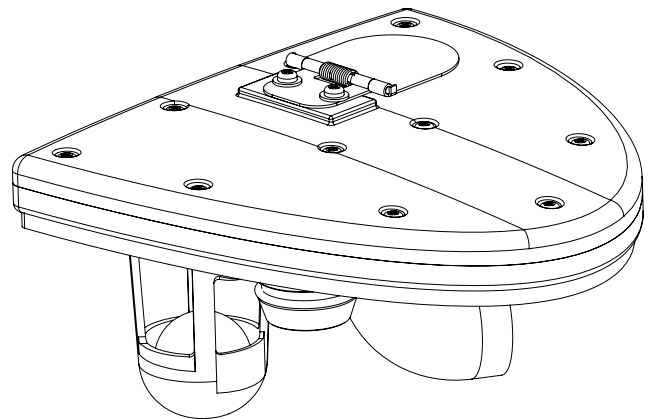
1. CLEAN THE RECOVERY TANK

- A. Remove lid from recovery tank.
- B. Lift tank from machine in a vertical direction.
- C. Rinse the inside of tank with warm water.
- D. Replace tank on machine and replace clear recovery tank lid.



2. CLEAN THE RECOVER TANK LID

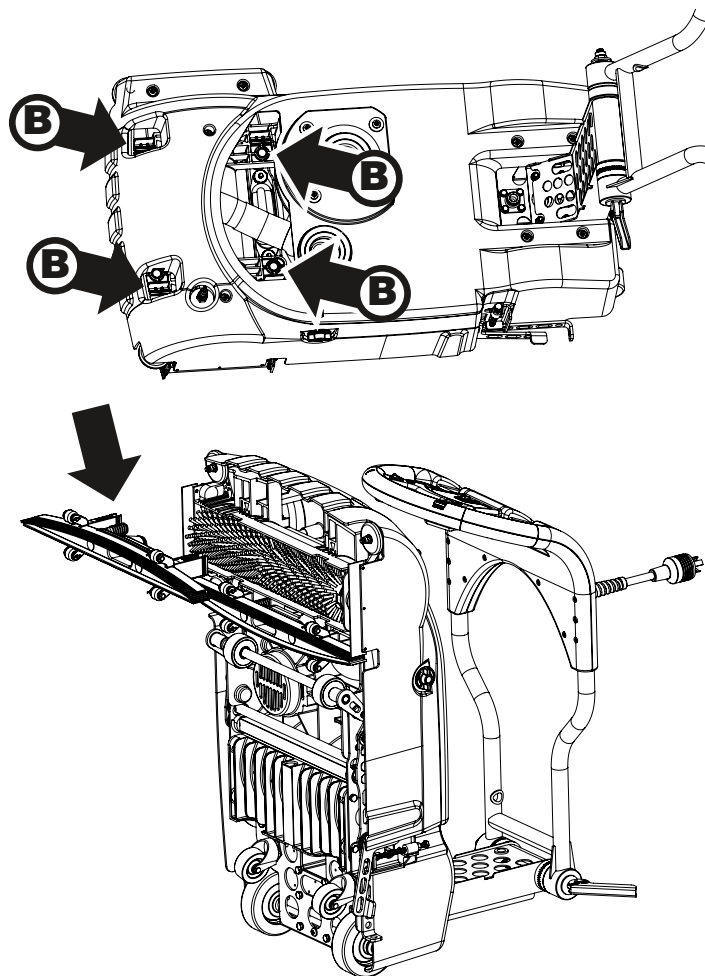
- A. Remove lid from the recovery tank.
- B. Rinse all of the open cavities in the lid and the float ball cage.
- C. Replace lid back on recovery tank.



DAILY MAINTENANCE

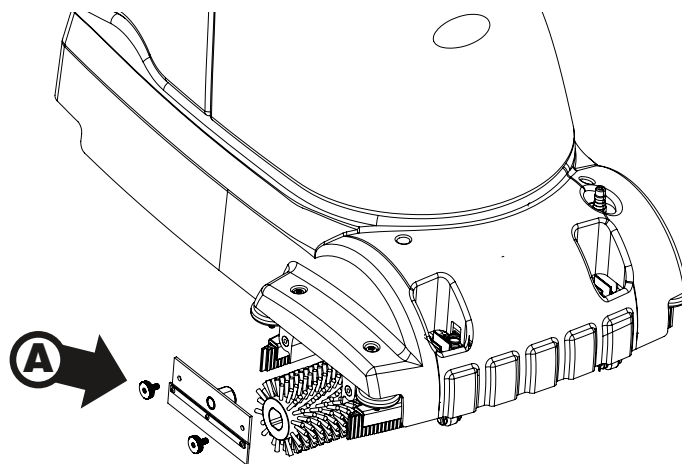
3. CLEAN THE SQUEEGEE ASSEMBLIES

- A. Remove recovery tank from machine.
- B. Release tabs holding squeegee assemblies in place.
- C. Disconnect vacuum hose from squeegee assembly.
- D. Clean squeegee assembly with water.
- E. Connect vacuum hose to squeegee assembly.
- F. Insert tabs back into place.
- G. Replace recovery tank.



4. CLEAN THE BRUSH ASSEMBLY

- A. Remove finger nuts from right side of machine.
- B. Remove right side retaining plate.
- C. Pull brush out from the drive bearing.
- D. Clean brush with water.
- E. Insert brush into the drive bearing.
- F. Replace right side retaining plate.
- G. Tighten finger nuts on retaining plate.



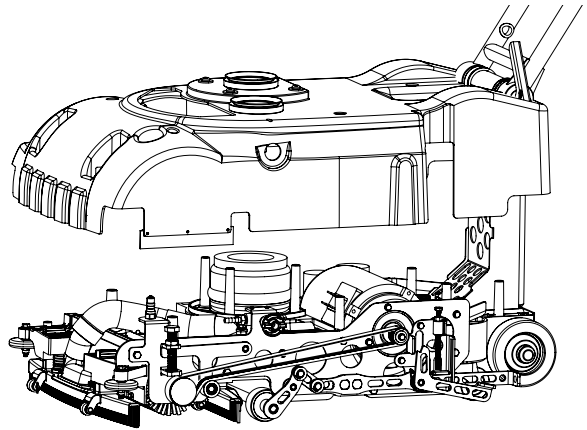
TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	REMEDY
The machine does not turn on	Power cord is unplugged	Plug Cord into 120V outlet
	The fuse is blown	Replace fuse
Insufficient water on brush	Solution valve is closed	Open valve
	No water in solution tank	Fill solution tank with water
	Pump switch is off	Turn the solution switch on
	Blockage in solution tube	Clean or replace the solution line
	The pump is damaged	Repair or replace pump
The machine does not clean well	Brush drive switch is off	Turn on brush drive
	The brush is worn	Replace brush
	Drive belt is loose	Adjust belt tension
The floor is not dry	Vacuum switch is off	Turn the vacuum switch on
	Dirty squeegee blades	Clean the squeegee blades
	Dirty squeegee body	Clean the squeegee body
	Vac hose not attached to shoe	Attach vac hose to the squeegee shoe
	Squeegee blade is worn	Replace squeegee blade
Too much foam is generated	No defoamer in recovery tank	Add defoamer to recovery tank

ADJUSTMENTS AND REPLACEMENT

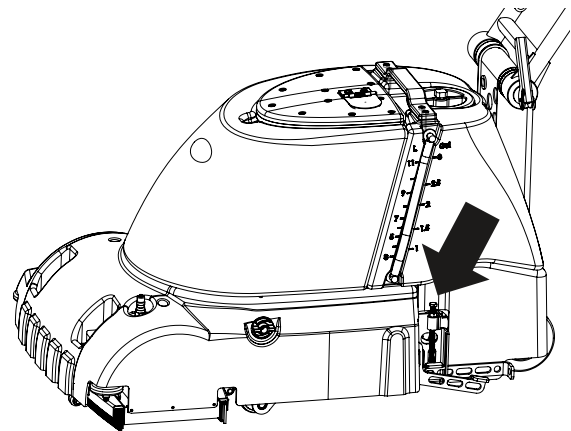
1. BELT TENSION AND REPLACEMENT

- A. Remove the solution tank and recovery tank.
- B. Remove the solution control valve handle.
- C. Remove all of the bolts holding the main shroud to the base.
- D. Loosen the jam nut holding the belt tension bolt in place.
- E. Turn the belt tension bolt in the desired direction to increase or decrease belt tension.
- F. Tighten the jam nut back in place on the tension plate.
- G. Replace the main shroud back on the machine base and tighten all of the bolts.
- H. Replace solution control valve handle.
- I. Replace the solution and recovery tanks.



2. HEAD PRESSURE ADJUSTMENT

- A. To increase or decrease the brush pressure, loosen the jam nut holding the head regulator bolt.
- B. Turn the head regulator bolt counterclockwise to increase head pressure or clockwise to decrease head pressure.
- C. Once in the desired position, tighten the jam nut to hold the regulator in place.



3. SQUEEGEE BLADE REPLACEMENT

- A. Remove recovery tank from machine
- B. Release tabs holding squeegee assemblies in place
- C. Disconnect vacuum hose from squeegee assembly
- D. Loosen the finger nuts from the squeegee assembly
- E. Remove squeegee retainer from inside of the squeegee mount
- F. The squeegee blades are easily removed from the squeegee retainer.
- G. Install new blades onto the squeegee retainer.
- H. Insert the squeegee retainer back into the squeegee mount
- I. Tighten finger nuts to hold the squeegee retainer in place.
- J. Reinstall squeegee assembly into the machine.

