BETCO Genie B

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Intro to the Genie B

14" Mini All Purpose Automatic Scrubber

Goes anywhere a mop and bucket can go –

Betco's Genie™ B brings the benefits of automatic scrubbing to small and congested areas that are hard to clean with traditional equipment. Battery operated and compact, this machine can virtually replace the mop and bucket to provide more effective and efficient cleaning in an endless variety of environments. The standard nylon cleaning brush transitions from smooth to textured floors making it perfect for schools, hospitals, retail or any institution that wants a better clean!

http://www.betco.com/Brochures_EN/E1000_EM10/E83039-00_GenieB_Manual_Jan2012.pdf

Background on Genie B

First released in 2007, approx. 5,000 to 6,000 machines in service today.

- **Cleaning Path: 14”**
- **Brush System: Disc**
- **Brush Size: 14”**
- **Brush Motor: 0.33 HP** *(189-9035 12V brush motor $423.15)*
- **Brush Speed: 160 RPM**
- **Vacuum Motor: 0.33 HP** *(189-5141 12V vacuum motor $227.28)*
- **Squeegee: 17” parabolic**
- **Volts: 12 V**
- **Battery: Maintenance Free, 75AH AGM** *(OEM 189-7584 or NON-OEM 162-0009*)
- **Run Time: Up to 1.25 hours**
- **Charger: Onboard**
- **Solution Control: Electronic, adjustable**
- **Solution Tank: 3 gallons**
- **Recovery Tank: 3 gallons**
- **Float Shut off: Yes**

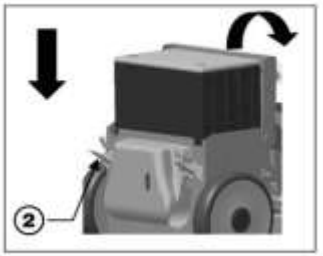
Applications

- CERAMIC TILE
- CONCRETE
- GROUT
- RESILIENT TILE
- STONE
- WOOD

Top Parts…

189-8732 BCE82707	**Screw M6 x 40mm hex set flat end stainless steel**	**$2.42**
189-8525 BCE8386900	**Rear squeegee blade**	**$18.24**
189-8524 BCE8387000	**Front squeegee blade**	**$16.64**
189-5133 BCE8241900	**Squeegee lift cable**	**$26.41**
189-7560 BCE81549	**O-ring**	**$3.80**

Installing and Connecting the Batteries



The machine is supplied with an on-board battery charger and a sealed maintenance free battery. If a battery is used other than the one supplied with the machine, use only a 12 volt AGM *(OEM 189-7584 or NON-OEM 162-0009*).
The battery must be housed in the special compartment beneath the solution tank.

To insert the batteries:

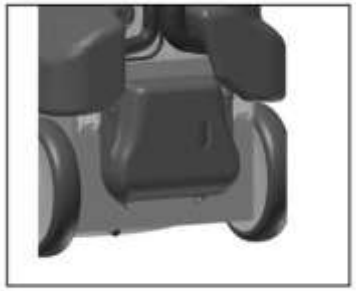
1. Disconnect the quick connector (1) at the front of the solution tank.
2. Remove the solution tank and place it on the ground.
3. Open the two rear latches (2) that hold down the battery compartment lid.
4. Lower the handlebar forward to open the battery compartment.
5. Position the battery inside the compartment with the terminals positioned toward the rear of the machine.
6. Connect cables *(189-9090 Battery cable)* to the battery.

WARNING: Only use sealed batteries to avoid leaking battery acid.

1. Connect the batteries to the machine using the Anderson plug.
2. Reassemble all of the components.

Charging the battery (with built in on-board charger)

Perform a battery charging cycle before using the machine.



To recharge the battery:

1. Make sure the recovery and solution tanks are empty.
2. Move the machine to a 110 volt electrical outlet.
3. Remove the rubber battery charger socket protection on the back of the machine.
4. Plug the power cable (provided with machine) into the battery charger.
5. Plug the power cable into the electrical outlet.

ATTENTION: If one of the three LED's begin flashing on the battery charger, refer to the battery charger manual supplied with the machine

WARNING: It is important to avoid complete discharge of the batteries during use. Plan to recharge the batteries within a few minutes of the battery indicator turning the machine off.

Battery Discharge Indicator

The battery indicator is digital with 4 fixed positions and a flashing signal. The numbers that appear on the display represent the approximate charge level.

4 = Maximum Charge
3 = 3/4 Charge
2 = 1/2 Charge
1 = 1/4 Charge
0 = Discharged Batteries (Flashing)

WARNING: A few seconds after the appearance of the flashing "0", the brush motor will automatically turn off. With the remaining charge, it is possible to continue using the vacuum motor to finish drying the surface before recharging.

Instrument Panel Components

The instrument panel components are identified as follows:

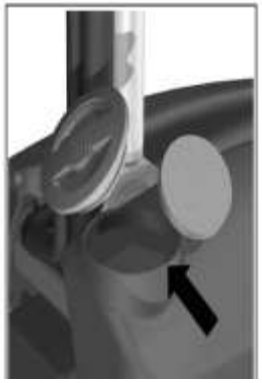
1. Main Power / Brush Motor Switch
2. Vacuum Motor Switch
3. Solution Valve Switch
4. Digital Battery Discharge Indicator

Positioning the Handlebars

For packaging purposes, the handlebars are positioned in the down location and must be put into working position.

1. Squeeze the lever on the right side of the machine to release the handle lock.
2. Lift the handle upwards while maintaining pressure on the lever.
3. Attach the recovery tank to the handle tube using the two hooks on the tank.
4. Attach the vacuum hoses to the lid on the recovery tank.

Solution Tank Care



Solution Tank

- The recovery tank must be completely emptied each time the solution tank is filled.
- Ensure the cap is correctly threaded into the solution tank (A).
- Ensure that the quick connect fitting is properly connected at the front of the
- machine (B).

Solution Tank Filling

- Fill the solution tank with clean water at a temperature that does not exceed
- 120°F (50°C). Add liquid detergent at the concentration and according to the
- procedures recommended by the chemical manufacturer. To prevent excess
- foam, use a defoaming chemical in the recovery tank. If foam passes through
- the vacuum motor, damage will occur and will not be covered under warranty.

WARNING: Always use low-foam detergent. Add defoaming chemical to the recovery tank before starting work to prevent foam from being generated.

Recovery Tank

- Make sure the recovery tank is empty, otherwise, empty it completely.
- Check that it is properly secured to the handle tube and that the hoses are correctly inserted in the tank elbows.
- Check the cap to ensure it is properly seated.

Assembling the Brush

- To install the brush - (Be sure squeegee is in the 'up' position)

1. Place the brush in front of the machine on the floor.
2. Raise the front of the machine using the handlebar as a lever.
3. Place the front of the machine over the brush, centering the hub into the clutch plate on the brush.
4. Press the main switch button to power on the machine.
5. Pull the operation lever on the handle to engage the brush to the brush hub.

Operation

Before installing the tanks, it is necessary to carry out the following operations:

1. Open the two rear latches to the battery compartment and connect the battery.
2. Close the battery compartment and reconnect the latches.
3. Make sure that the recovery tank is empty.
4. Attach the recovery tank to the handlebar tube and connect the two vacuum hoses to the lid.
5. Place the solution tank over the base of the machine and connect the quick connector at the front of the machine.
6. Fill the solution tank as previously described.
7. Lower the squeegee assembly to the floor using the squeegee lift lever on the rear of the handle tube.
8. Press the main switch (1) and check that the green indicator light comes on.
9. Turn on the vacuum switch (2) and the solution control switch (3).
10. Pull the operation lever (4) to activate the brush and apply solution to the floor. The machine is now operating.

Turning off the machine

Recovery Tank

To properly turn off the machine after use or before performing any maintenance:

1. Turn off the solution control switch (3).
2. Turn off the vacuum switch (2).
3. Turn off the main switch (1).
4. Raise the squeegee lift lever on the back side of the handle tube.
5. Transport the machine to the location provided to drain water.
6. Disconnect the vacuum hoses and remove the recovery tank from the machine.
7. Remove the recovery tank cap and tilt the tank to empty the waste water.
8. Disconnect the quick connection at the front of the machine and remove the solution tank.
9. Remove the cap from the solution tank and tilt the tank to dump any remaining solution.
10. Remove the brush and rinse it with clean water.

WARNING: Never tilt the machine backwards and rest on the handle if there is water in the recovery tank. This may spill water into the electrical panel and cause permanent damage to the machine.

Daily Maintenance

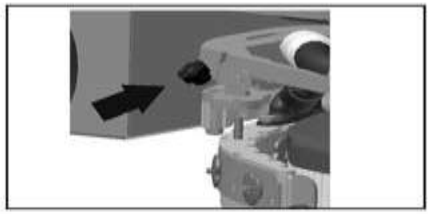
CLEANING THE RECOVERY TANK

1. Disconnect the vacuum hoses from the recovery tank lid.
2. Detach the recovery tank from the handle tube.
3. Remove the lid and empty the tank.
4. Rinse the float ball filter cage with clean water.
5. Rinse the inside of the tank with clean water.
6. Reassemble the recovery tank.

CLEANING THE SQUEEGEE

Verify that the squeegee blades are clean and free from cuts.
This ensures optimum drying.
To clean the squeegee:
A. Raise the front of the machine.
B. Carefully clean the inside of the squeegee shoe.
C. Carefully clean the squeegee blades.

REPLACING THE SQUEEGEE BLADES

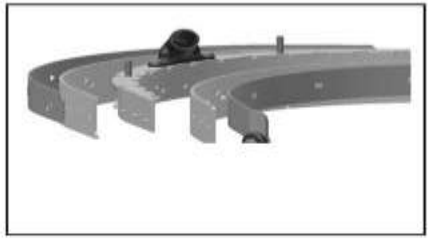


Examine the condition of the squeegee blades. Replace as necessary. To replace the blades:

A. Lift the squeegee.
B. Remove the two knobs.
C. Detach the squeegee from the squeegee yoke.
D. Remove the hose from the squeegee hose adaptor.

WARNING: Before carrying out any type of maintenance, disconnect the machine's battery connector.
WARNING: Always wear gloves to protect yourself from contact with hazardous chemicals.

E. Unscrew the squeegee knobs that hold the band clamps on squeegee shoe.
F. Remove the band clamps and squeegee blades.
G. Replace the squeegee blades and band clamps.
H. Reinstall everything by performing this procedures in reverse.
I. Inspect the squeegee guide wheels to make sure they spin freely and have no damage. Replace if necessary.



BRUSH DISASSEMBLY

A. Lock the squeegee in 'up' position.
B. Lift the front of the machine by pressing down on the handle until the brush is 2” - 4” off the floor.
C. When the brush is lifted jog the brush motor. The brush releases automatically and falls onto the floor.

WARNING: Always wear gloves to protect yourself from contact with hazardous chemicals.

Scheduled Maintenance

CLEANING THE SQUEEGEE HOSE

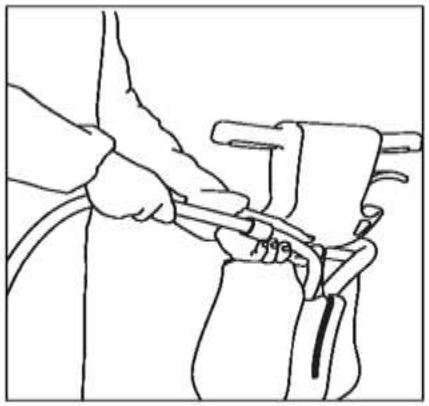
Check the squeegee hose for blockage if the suction is insufficient and at periodic intervals. To clean the hose:

A. Remove the hose end from the squeegee hose adapter.

B. Remove the other end of the hose from the recovery tank.

C. Wash the inside of the hose with clear water, spraying from the end that connects to the tank.

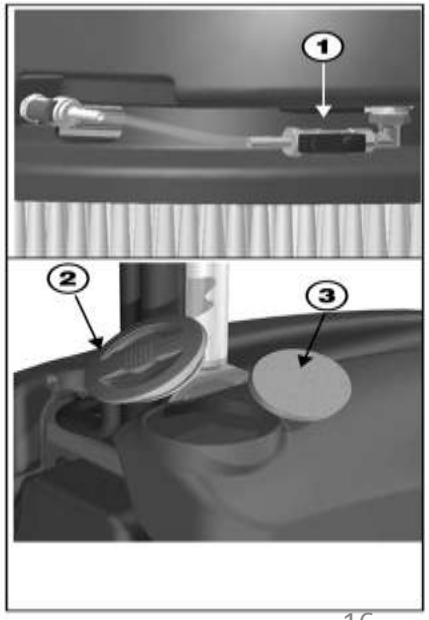
D. Reinstall the hose.



WARNING: Do not wash the hose that goes from the vacuum unit to the recovery tank. This will damage the vacuum motor!

CLEANING THE SOLUTION TANK AND FILTER

1. Disconnect the quick connection at the front of the machine (1).
2. Remove the solution tank from the machine.
3. Unscrew the solution cap (2).
4. Remove the screen filter (3) and rinse with clean water.
5. Rinse the inside of the tank with clean water.
6. Install the tank back on the machine.



Troubleshooting Guide

Electrical System Safety

The machine is equipped with self-resetting thermal safety fuses located in the electric box beneath the solution tank. These fuses interrupt the power supply to the brush and suction motor when the machine exceeds the predetermined current limit. To restore power to the motor, switch off the machine and wait for the fuses to cool down. If the switch interrupts power supply again, contact USA-CLEAN.

INSUFFICIENT WATER ON THE FLOOR

A. Verify that the solution tank is clean.

B. Verify that the solenoid valve switch is turned on.

C. Verify the quick disconnect is properly connected.

D. Verify the adjustment of the ball valve that supplies water.

E. Verify the vent pin on the solution tank cap is lowered.

THE MACHINE DOES NOT CLEAN WELL

A. Check the condition of the brushes or pad. Replace them as required. Brushes must be replaced when the tufts are roughly 5/8” (15 mm) long.

THE SQUEEGEE DOES NOT DRY THE FLOOR

A. Verify that the squeegee blades are clean.

B. Verify that the vacuum hoses are properly installed and seated on the squeegee.

C. Verify the vacuum hose nozzle is clean.

D. Replace worn squeegee blades.

E. Check squeegee guide wheels for wear or damage.

EXCESSIVE FOAM PRODUCTION

Verify that low-foam detergent is being used. Add defoaming chemical to the recovery tank.

More foam is generated when the floors are not very dirty. Dilute the detergent more when cleaning floors that are not very dirty.

Troubleshooting Tips

Solution System:

- Brush motor must be turning for solution to dispense
- Check for Clogs
- At the Solenoid Valve/fittings
- Tank with quick disconnect tube
- Check valve knob setting (Open or Closed)

Recovery System:

- If poor pickup, check for the normal clogs, damaged squeegee, etc., but also check the middle wheel on the squeegee bracket, if this wheel is damaged, it can cause poor pickup.

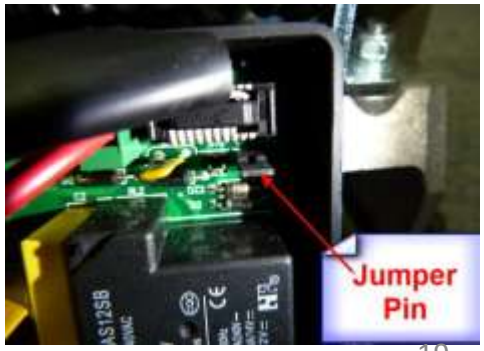
More Troubleshooting

Electrical System:

- Machine is designed to shut down at 10.9 volts or less.
- Lower power board has 6 self resetting fuses
- If these are not evenly spaced, heat can build up and cause an issue
- If one of them goes out, then the others have to carry the load and will overheat
- This will be noticeable as one or two of them we get very hot.
- Solution would be to replace board
- There is also a jumper pin on the board that needs to be in the farthest right position (default). It will be connected to the two pins to furthest to the right. This is the setting for the charger and AGM battery, which is the only battery type that should be used on this machine.

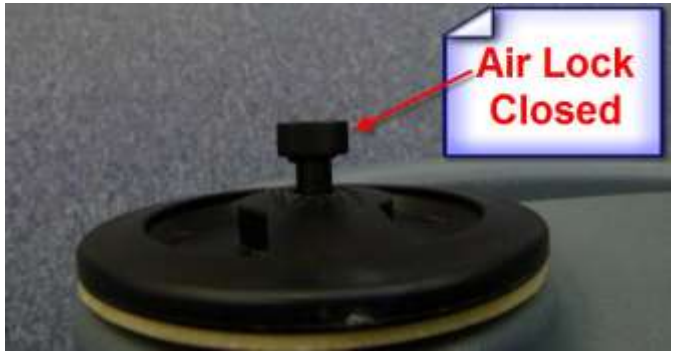
Run-time issues:

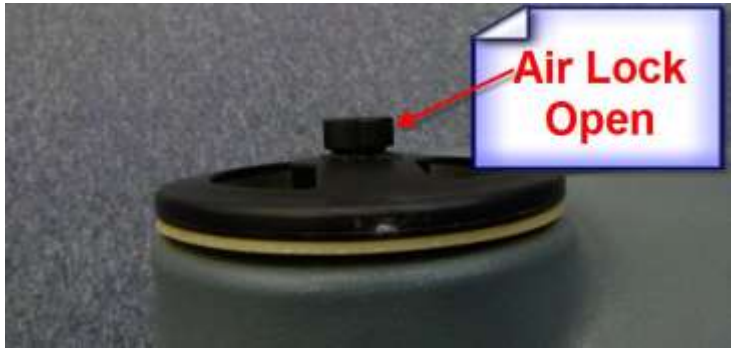
- **1 hr is acceptable.**
- If this is a new machine and it is running in the 45 minute range with fully charged batteries, then it may be the control board in the handle.
- The card in the upper handle is for battery check, battery voltage check, and contains control switches
- There have been instances of the machine shutting off with the battery having voltages between 10.9 and less than 12.0. Voltages must be checked with machine under load, otherwise the surface charge will give false indications. If machine is shutting off in this range under load, replace upper board.



Other things to be aware of:

- If solenoid valve needs replaced, tech will need to keep the clear cap on the unused outlet, (it's hard to see if you are not looking for it) to put on the new valve. New valves do not ship with this cap.
- Common user complaint – Machine ran 10 minutes and worked fine, then just stopped –
- **Possible solution - there is a little pop-up button (Air Lock) on the solution tank cap. This button must be in the down (Open) position. It just push/pulls by hand to adjust up or down.**
- On-board Charger – make sure you unplug the cord from the charger before moving the machine. The chargers' outlet connection isn't the most robust in the world and can break. Good news is that replacement outlets are available for the charger, but soldering is required for installation.
- Make sure there isn't pressure on the handle before you activate the handle position lever and cable.





BETCO US WARRANTY POLICY

10 year coverage

Betco warrants parts and labor on rotationally molded polyethylene tanks/ housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

3 Year Coverage

Betco warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

1 Year Coverage

Betco offers a limited warranty on parts and labor on the following equipment:

- **All Tools and Accessories**
- **All Battery Chargers**
- **All Batteries are pro-rated for 1 year**

Questions?

http://www.betco.com/Brochures_EN/E1000_EM10/E83039-00_GenieB_Manual_Jan2012.pdf