



SMARTPOOL CLIMBER NC51 ROBOTIC POOL CLEANER OPERATION MANUAL

Congratulations on your purchase of the most technologically advanced automatic pool vacuum available today. The SmartPool Climber is easy to use and will make maintaining your pool affordable and effortless. Following these simple directions will insure that the Climber will quickly and efficiently clean your pool today and for many years to come.

INSTALLATION

- Place the power supply in an area that will allow the cleaner to cover all areas of the pool.
- Be sure to only plug the power supply into a GFI (ground fault interrupter) or ELI (earth leak interrupter) protected electrical outlet.
- Look at the power supply and check that the power supply switch is in the off position.
- Plug the power supply into the protected outlet.
- Plug in the connector from the cleaner into the power supply. The connector is keyed so that it will only plug into the power supply one way. Make sure that the plug is pushed all the way onto the power supply. Slide the connector lock (strain relief) onto the connector and turn the connector lock clockwise until it is snug.

DO NOT RUN THE CLEANER OUT OF THE WATER.

OPERATING THE CLEANER OUT OF THE WATER WILL DAMAGE THE MOTORS AND VOID THE WARRANTY

- Place the cleaner into the pool and if needed rock the cleaner side to side to release any trapped air. The cleaner will sink to the bottom of the pool.
- Put enough of the blue cord into the water to assure that the cleaner can easily reach all areas of the pool. (Do not place ALL of the blue cord into the pool).
- Push the power switch down away from the handle to start the 3 Hour auto cleaning program. A red Led should be lit.
- The cleaner will begin its cleaning program.
- The cleaner will automatically shut itself down after three hours.
- To turn unit off press small off switch in the middle of the switch. The led will turn off
- If a second cleaning is required or the unit is accidentally shut off, you should wait one minute before switching the unit on again.



For "Rapid Clean" place robot into the pool. Push the power switch up towards the transformer handle and a green led will light. The cleaner will quick clean the pool and turn off in 1 hour.

IMPORTANT NOTE: During normal operation, the cleaner will appear to shut off for a few seconds, raise the front wheels off the pool bottom and move either left or right or turn for an undetermined amount of time. This is normal and has been preprogrammed into the unit to assure the quickest and most efficient cleaning of your pool.

This unit has been designed to clean all areas of your pool. It will climb the s, and occasionally break the surface. In the process of climbing the it may stay on the surface and continue to operate from several seconds to a few minutes. This is normal operation procedure and the cleaner will eventually make its way to the bottom to continue its cleaning. Since most of the dirt is concentrated on the floor of the pool, the cleaner will spend the majority of its time on the floor.

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

Risk of electrical shock or electrocution – The electrical supply to this product must be installed in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard which could result in death or serious injury to pool users or others due to electrical shock, and may also cause damage to property.

DO NOT USE EXTENSION CORDS - DEATH OR INJURY CAN RESULT.

To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times

If ambient air temperature exceeds 115° F., protect the power supply from direct sunlight. Do not cover the power supply.

The sole purpose of this product is for use as a robotic pool cleaner as described in this manual; any modification or other use will void the warranty.

Do not allow children to use, touch, or play near or around the units' power supply.

A Ground Fault Current Interrupter (GFCI-USA) and Earth Leak Interrupter (ELI-EU) must be installed to protect your electrical outlet and to prevent any possible electric shock. Failure to do so could create an electrical hazard which could result in death or serious injury to pool users or others due to electrical shock and may also cause damage to property.

Do not connect unit to AC power until installation has been completed.

Do not use if unit is damaged in any way.

Unit must be completely submerged in water or warranty is void.

Make sure the robotic pool cleaner is unplugged from its power supply before opening the unit or performing any other maintenance.

To avoid damage to the power supply and cord, never carry the power supply by the cord or pull on the cord to disconnect from an outlet. Instead, disconnect by pulling the plug, itself, from the outlet. Do not pull cord around sharp corners or edges.

Do not play with the cleaner or cable or apply to body. It can trap or tear hair or body parts. The cable can trip or entangle swimmers which could result in drowning.

Do not operate with a damaged cord or power supply.

Before installing the cleaner, understand the cleaners coverage. The cleaner was not designed to automatically clean steps or to work under solar covers. It was also not designed to do initial clean up for a new pool installation.

Your cleaner should not be used while people are swimming in the pool.

The power supply must be at least 12 feet / 4 meters from the pool's edge at all times!

It is recommended that you clean your filter bag and check the impeller to make sure it is free and clear of debris after every use.

Disconnect the power supply from the outlet when not in use.

DO NOT switch the pool cleaner to "ON" if it is not immersed in the water. Operation the cleaner out of the water may cause severe damage and will result in loss of warranty. Always remember to turn the power supply "OFF" and unplug it from the power outlet before removing the cleaner from the pool.

If your robotic pool cleaner is not working as it should or has been dropped or damaged in any way, contact SmartPool Customer Service before using at info@smartpool.com or visit our website at www.smartpool.com.

SAVE THESE INSTRUCTIONS

REMOVING THE CLEANER FROM THE POOL

- Slowly pull the blue cord to get the cleaner to the pool surface and near the edge of the pool. DO NOT PULL THE CLEANER OUT OF THE POOL BY THE CORD.
- Reach down and grasp the handle of the cleaner and remove it from the pool as shown below.



FIGURE 1: Grasping Handle



FIGURE 2: Lift from Pool by Handle

- Clean filter bag.
- Store the cleaner on the caddy.
- Loosely coil the cable on the caddy.

The unit should be stored in an area that will afford some protection from the elements to insure that it retains its finish.

CLEANING THE FILTER BAG (Filter Bag Should Be Cleaned After Every Use.)

- Turn cleaner upside down and place on the ground so the bottom lid is exposed.
- Turn red locking clips (by wheel area) to the unlocked position as shown in Fig 3. Next press the two red locking clips near the roller brush in towards the center of the unit. Lift the bottom lid out.

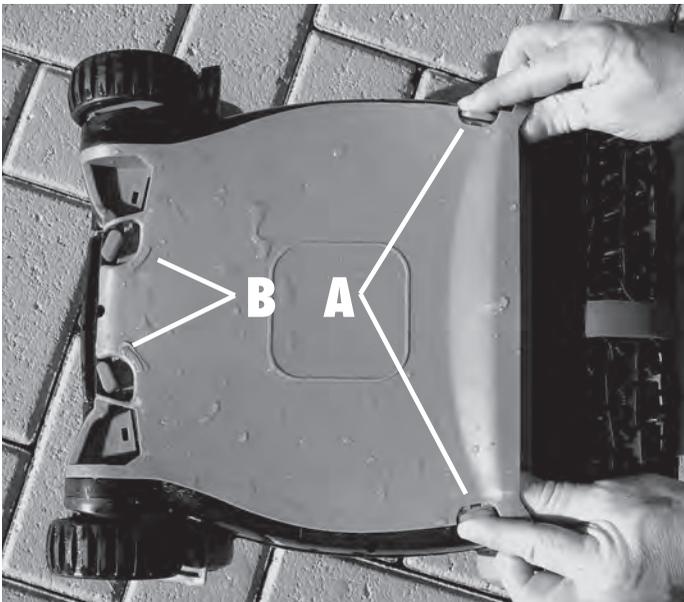


FIGURE 3

- A: Press the red locking clips inward as shown and lift lid off cleaner**
- B: Turn the red locking clips inward as indicated by arrows imprinted on lid**

- Hold the bottom lid as shown in Fig 4 and pull the tab marked "PULL TO REMOVE BAG"



FIGURE 4

- Turn filter bag inside out and hose off all debris as shown in Fig 5. If very dirty it may be washed in your washing machine, inside out, with cold water, mild detergent, and by itself. Do NOT put in the dryer.



FIGURE 5

- Hose all debris off the bottom lid being sure to get all dirt out of the fine filters on the intake doors as shown in Fig 6.



FIGURE 6

- To reattach the filter to the bottom lid, turn the filter bag right-side-out. Start at the back where the filter bag says "PUSH" and insert the filter bead into the channel, so that the tabs are holding the bag in near the label with the word "PUSH", as shown in Fig 7.



FIGURE 7

- Press the filter bead down all the way around the perimeter making sure that it is completely seated and behind all the tabs as shown in Fig 7a.



FIGURE 7a

- Pick up the bottom lid and turn it over so the bag hangs below it. Place the bottom lid back into the cleaner being careful to feed the filter bag into the body of the cleaner. **MAKE SURE ALL FILTER MATERIAL IS INSIDE THE CLEANER OTHERWISE THE LID WILL NOT CLOSE AND LATCH PROPERLY.**

- Once the bottom lid is properly seated, turn the red locking clips in the opposite direction of the arrows embossed on the bottom lid until it locks between the two raised locks (as shown in Figure 7B).



FIGURE 7B



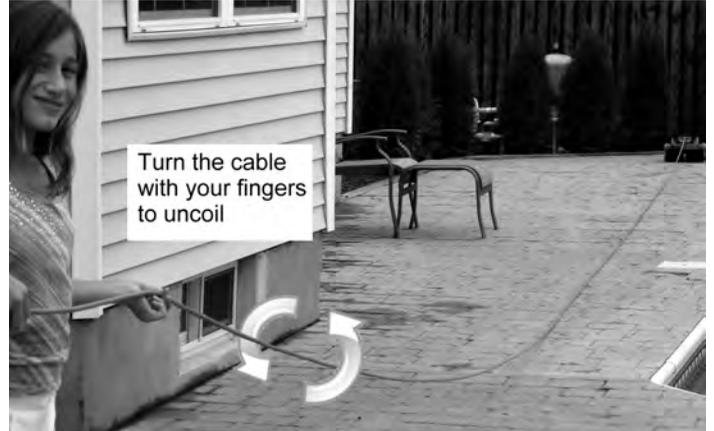
FIGURE 7C

- Press the rear section of the bottom lid into the cleaner while pushing the locking clips towards the edge of the cleaner until an audible click is heard as shown in Fig 7c.

CABLE MAINTENANCE

In the course of using your Climber, the cord may begin to coil. Excessive coiling can lead to improper cleaning coverage of your pool.

- To uncoil the cord, it is best that the cable is wet.
- Place the cleaner on the ground as shown below.
- Be sure to use a clear area that will allow the cord to stretch out in a straight line.
- Pull the cable so it is off the ground
- Using your fingers, roll the cable in the opposite direction that it is coiled in.
- When straight, wrap cable for storage as shown below.



STORING THE CABLE

- Loosely loop the cable as shown below.



Hold the cord close to the cleaner. Make a roughly two foot loop with the cord as shown.

When making loop, roll the cable slightly in a counter clockwise manner to maintain form. **DO NOT WRAP THE CORD TIGHTLY AROUND OBJECTS.**

When cable is properly wrapped place it on the caddy provided.

WINTER STORAGE

If temperatures will regularly be below 45 degrees Fahrenheit or 5 degrees Celsius, the cleaner and power supply should be stored indoors.

CADDY ASSEMBLY

Check the parts list below, if any parts are missing or damaged call SmartPool, Inc.'s Customer Service Department at 732-730-9880 for help.



- A. 1 Caddy base
- B. 2 Axle stops
- C. 6 Phillips head machine screws
- D. 6 black screw covers
- E. 2 axle washers
- F. 4 self tapping Phillips head screws
- G. 2 cleaner mounting brackets (black)
- H. 1 axle rod

- I. 1 hook support rod
- J. 2 caddy poles large
- K. 2 caddy hooks
- L. 1 caddy handle
- M. 2 wheels

REQUIRED TOOLS

- HAMMER
- PHILLIPS HEAD SCREWDRIVER

- Take one of the cleaner mounting brackets and locate it onto the caddy base so the claw faces towards the lower part of the base as shown in Fig 8



- Turn the caddy base over and screw two self tapping screws into the base and the cleaner mounting brackets connecting the two parts. Repeat for the other cleaner mounting bracket.

- Place the caddy poles into the base with the large holes going into the base. Be sure that the small holes on the top side of the poles are positioned towards the inside of the caddy as shown in fig 9.



TURN HOLES
TOWARD CENTER

- Place the axle rod through the caddy base insuring that it passes through the caddy poles as shown in Fig 10 The axle rod should stick out slightly on either side of the caddy



- Place an axle washer onto the axle on both sides of the caddy base.
- Slide a wheel onto both sides of the axle rod.



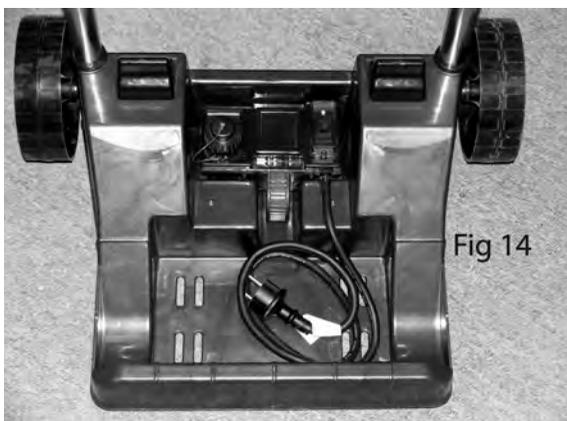
- Slide the tapered end of axle stop into axle rod Fig 11
- Turn the entire assembly on its side on a firm flat surface with the axle stop flat on the ground.
- With a hammer lightly tap the other side of the axle until the axle stop seats. When finished turn unit over, insert last axle stop and repeat process until the second axle stop is seated.



- Take one of the two caddy hooks and insert the rod support into the recessed hole in the hook. Screw one Phillips head machine screw through the caddy hook into the rod support. Snug up but do not fully tighten. Repeat for the other caddy hook as shown in Fig 12.
- Slide the caddy hook assembly onto the top of the upright caddy poles with the hooks pointing up and suspended over the caddy base. Align the screw holes on the inside of the poles with the screw boss on the caddy hooks. Screw the Phillips head machine screws most of the way in but do not tighten.
- Slide the caddy handle into the receptacle on the top of the caddy hooks. The handle should curve away from the caddy towards the back of the unit (away from the caddy hooks). Align the screw holes with the screw boss on the caddy hook. Tighten all Phillips head machine head screws at this point. (See Fig 13)



- Insert the six black screw covers into the screw bosses to hide the screw.
- Place the transformer into its mounting spot in the base of the caddy as shown in fig 14.

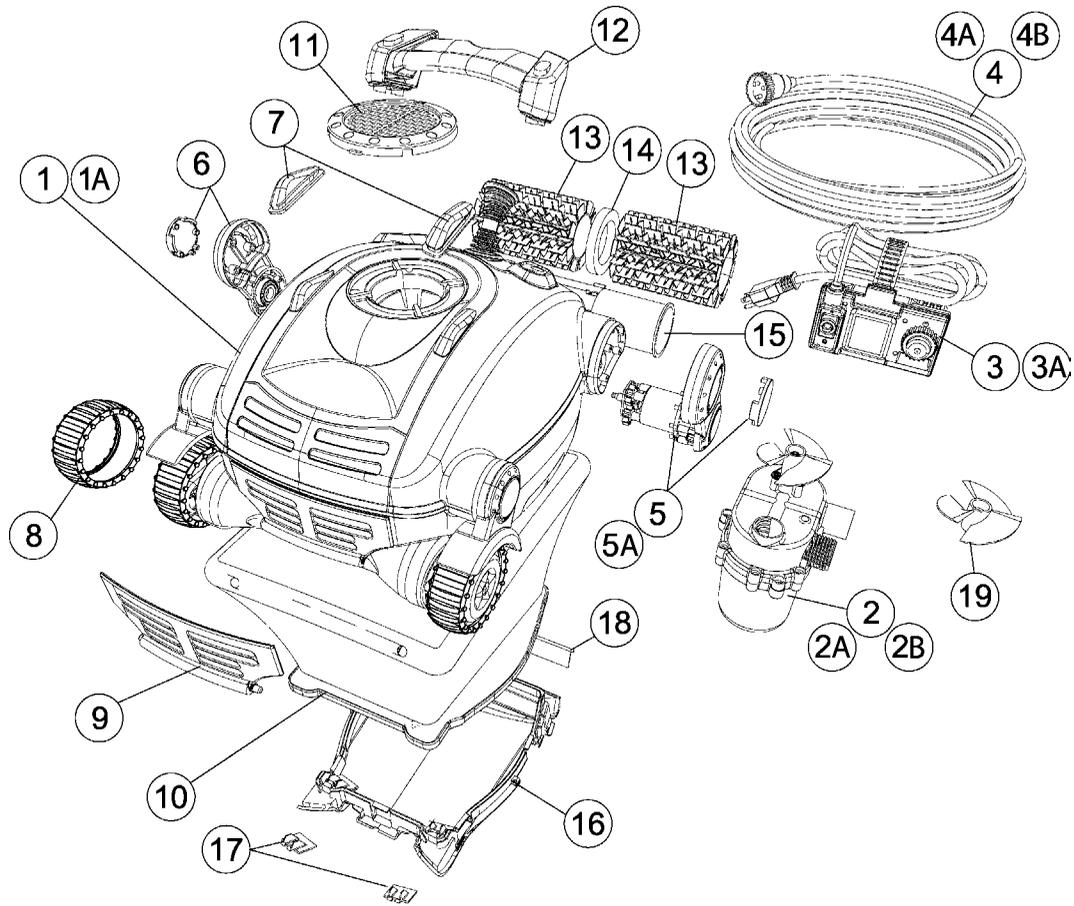


- Place the cleaner on the caddy with the wheels facing forward and down. The brushes will be suspended in this position which will increase the longevity and cleaning properties of the cleaner. Loosely wrap the cord (see above) and hang from the caddy hooks as shown in Fig 15



TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE REASON	SOLUTION
Cord twisting or cable coils up	Obstruction in pool	Remove obstruction in pool.
	Too much cord is being placed in pool.	Only add enough cord into pool for the cleaner to reach the bottom. Allow the cleaner to pull in the extra cord when needed.
	Excessive coiling	Uncoil the cord (see page 3 for Cable Maintenance).
	Cord is attached to the power supply	Make sure to disconnect the cord from the power supply after each use to alleviate any tension.
SmartPool Climber is moving in circles	Clogged filter bag	Clean filter bag (See Cleaning the filter bag on page 2).
	Bottom lid is not placed in the cleaner properly	Remove the bottom lid and make sure that the filter bag is on properly and place back onto cleaner. (See page 3 Figure 7)
SmartPool Climber is not covering all areas of the pool	Power supply is wrongly positioned	Place power supply in a position so that the cleaner can reach all s.
	Pool filter pump is on	Turn off pool filter pump.
	The floor and the s are too slick	Brush down the floors and the s.
	Excessive coiling	Uncoil the cord (see page 3 for Cable Maintenance).
SmartPool Climber does not climb s	Debris in filter bag	Empty and wash filter bag.
	The floor and the s are too slick	Brush down the floors and the s.
	Water is too cold	Make sure water temperature is at least 60°.
	Brushes are worn out	Replace brushes - contact your dealer.
Cleaner is not moving	Debris is in filter bag	Test cleaner without filter bag. If cleaner starts to move then clean the filter bag.
	Bottom lid is not installed properly	Remove bottom lid and make sure that the filter bag is on properly and place back onto cleaner. (See page 3 Figure 7)
SmartPool Climber will not sink	Air caught in filter bag	Remove cleaner from the pool. Wash filter bag. Place cleaner back into pool rocking the cleaner back and forth to release the air.
SmartPool Climber is doing wheelies	Debris in filter bag	Test cleaner without filter bag. If cleaner does not do wheelies then clean the filter bag.
	Debris caught around impeller tube	Check impeller tube to see if there is any hair or debris and remove.
	Bottom lid is not installed properly	Remove bottom lid and make sure that the filter bag is on properly and place back onto cleaner. (See page 3 Figure 7)
SmartPool Climber is climbing out of water	Air trapped in filter bag	Test cleaner without filter bag. If cleaner does not climb out of water then clean the filter bag.
LED on power supply is not lighting	Faulty GFI Outlet	Test the power supply by using another GFI outlet.
	Faulty extension cord	Remove the Extension cord and plug the power supply directly into a GFI outlet.
Cleaner is only moving a few feet	Improper installation of the bottom lid and/or filter bag	Test cleaner without filter bag (placing the bottom lid back on). If the cleaner is traveling more than a few feet then reinstall the bottom lid and the filter bag.
<p>If your cleaner is still not performing properly after all of the troubleshooting has been performed please contact SmartPool, Inc., Inc. Customer Support at 1-732-730-9880. You can also visit our website at http://www.smartpool.com/website/repairs.html for additional videos and troubleshooting.</p>		



Location	Part #	Description
1	NC1001	NC31 & 32 Chassis
1A	NC1022	Climber Chassis
2	NC1009	NC31 & 32 Pump Motor
2A	NC1024	Climber Pump Motor (Version 1)
2B	NC1024:02	Climber Pump Motor (Version 2)
3	NC1013	NC31 & 32 Power Supply
3A	NC1023	Climber Power Supply
4	NC1012	NC31 & 32 Floating Cord
4A	NC1012XL	Climber/SmartPool Climber XL Floating Cord
4B	NC1012XL:02	Climber Floating Cord (Version 2)
5	NC1006	NC31, 32, AND 51 Drive Motor (Version 1)
5A	NC1006:02	NC51 Drive Motor (Version 2)
6	NC1010	Drive Tube Mount
7	NC1011	Chassis Bumper
8	NC1002	Sensor Wheel (Tire Only)
9	NC1005	Quick Drain Flap
10	NC1017	Filter Bag
11	NC1003	Impeller Cover
12	NC1008	Handle
13	NC1004	Drive Brush
14	NC1014	Foam Ring
15	NC1007	Drive Wheel Tube
16	NC1016	Bottom Lid
17	NC1018	Front Intake
18	NC1019	Rear Intake
19	NC1015	Impeller

Model NC51 2-YEAR LIMITED WARRANTY

This product has been manufactured, tested and inspected in accordance with carefully specified engineering requirements. It is warranted to be free from defects in materials and workmanship under normal use and service, subject to qualifications, conditions and limitations described below.

SmartPool, Inc. 2 Year Limited Warranty:

One year full warranty, 2 years on Drive Motor and Pump Motor. This warranty applies only while using this product in the United States and Canada.

This warranty extends to the first consumer/purchaser for a period of 24 months from the original date of purchase.

This warranty covers only normal and reasonable use. Any damage, defects, malfunctions or other failures arising from its use without the original transformer or any use which does not comply with the instructions in this manual, including failure of the purchaser to provide reasonable and necessary maintenance, will void this warranty.

The warranty obligations of SmartPool, Inc. shall be limited to repair or replacement of the product or any defective component, at the discretion of SmartPool, Inc.. The repair or replacement may include the use of refurbished components and/or units. SmartPool, Inc. will not be liable or responsible under any circumstances or in any amount for any consequential or incidental damages, for any injury or damages to persons or property using or used in connection with this product, or for loss of profits or other costs or expenses of any kind or character.

This warranty does not include replacements of the filter bag, bottom lid, and brushes.

THERE ARE NO OTHER WARRANTIES OR REPRESENTATIONS, EITHER EXPRESSED OR IMPLIED, WHETHER OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHER, MADE BY SMARTPOOL, INC. OTHER THAN THOSE SPECIFICALLY SET FORTH IN THIS WARRANTY. NO PERSON, FIRM, OR CORPORATION IS AUTHORIZED TO MAKE ANY REPRESENTATIONS OR INCUR ANY OBLIGATIONS IN THE NAME OF OR ON BEHALF OF SMARTPOOL, INC., EXCEPT AS STATED HEREIN. THE REMEDIES SET FORTH IN THIS WARRANTY ARE EXPRESSLY UNDERSTOOD TO BE THE EXCLUSIVE REMEDIES AVAILABLE TO THE PURCHASER, AND THIS WARRANTY CONTAINS THE FULL AND COMPLETE AGREEMENT BETWEEN SMARTPOOL, INC. AND THE PURCHASER. THIS WARRANTY SETS FORTH THE ONLY OBLIGATIONS OF SMARTPOOL, INC. WITH REGARDS TO THIS PRODUCT, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

To obtain warranty service, call SmartPool, Inc. Customer Support Specialist at 1-732-730-9880, Monday – Friday, 9:00 a.m. – 5:00 p.m. EST.

CAUTION:

Some vinyl liners are more susceptible to surface wear and pattern removal than others, caused by objects such as brushes, toys, floats, chlorine dispensers, and automatic pool cleaners coming into contact with the vinyl surface. Such patterns can be easily scratched or abraded merely by rubbing the surface with a brush. Pattern ink can also rub off when they come into contact with objects in the pool. SmartPool, Inc. is not responsible for, nor does this limited warranty cover pattern removal, abrasion, and markings on or damage to any kind of vinyl liner.



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