



*SINCE 1984, EMPLOYEE OWNED
SPECIALISTS IN SWIMMING POOL SAFETY PRODUCTS*

**INFINITY
SAFETY COVER SYSTEM
OWNERS MANUAL
&
SAFETY INFORMATION**

***Pool Covers, Inc.
4925 Fulton Drive, Fairfield, Ca 94534
www.poolcoversinc.com
Ca. License #497489
800.662.7662 Fax 707.864.6385***

AN IMPORTANT MESSAGE FROM POOL COVERS, INC.

Thank you for purchasing the INFINITY 4000 safety pool cover from Pool Covers, Inc.

Since our inception, our purpose has been to provide safety, savings, and quality service to California families like yours. Drowning is still the leading cause of death for California's young children. Although we make every effort to provide you with the safest product available, we want to stress the following:

- Pool Covers, Inc. recommends layers of protection, of which our safety pool cover is one layer.
- There is no substitute for constant adult supervision. Most drownings occur during a five minute or less lapse in supervision. Never leave a child unattended!
- Do not consider children water safe just because they have had swimming lessons.
- Instruct baby sitters about the potential backyard hazards.
- Install a telephone poolside with emergency telephone numbers permanently posted, as well as your home address.
- Beware of free-floating bubble-type covers. A child can slip beneath one unnoticed.
- Always take the pool cover completely off the pool before swimming. A partially covered pool can be a hazard.

Each year Pool Covers, Inc. spends a lot of time and money to get this message out to the public. We know that your recommendation to a neighbor, friend, or family member is more effective than any type of advertising. To reward you for making another pool safe, we offer discount certificates and coupons for referrals that result in a sale. If you are the first to let us know about any potential referrals that result in a sale, you will receive a generous credit towards future goods and services from Pool Covers, Inc.

Please call 1-800-662-7665 to refer a friend or neighbor.

Thank you,

The Employee Owners at Pool Covers, Inc.

THE INFINITY 4000

Manufactured with the highest quality materials and engineered for low maintenance and ease of operation, your INFINITY 4000 pool cover system will provide years and years of dependable service with just routine maintenance. As with any precision-engineered machinery, however, failure to maintain or operate according to instruction will adversely affect the performance of your system and your warranty. The manufacturer urges you, therefore, to familiarize yourself with each section of this manual.

FABRIC STRENGTH AND WATER LEVEL

The INFINITY 4000 is a *Safety Cover*, which means it meets or exceeds all of the A.S.T.M. standards set for safety covers and creates a protective barrier capable of supporting the weight of several people. However, we discourage intentional playing or walking on the fabric since such activity increases the likelihood of sharp objects penetrating the fabric and could also interfere with the even roll-up and extension of the fabric.

The INFINITY 4000 fabric floats on top of the water and uses the water to support weight on the cover. Therefore, inadequate water level in the pool compromises the capability of the cover to support weight. Failure to maintain an adequate water level may result in extensive damage to the fabric or a separation of the track from the coping to which it is anchored. More importantly, inadequate support created by insufficient water level beneath the cover could compromise the cover's ability to perform as a safety barrier. Therefore, be sure that your pool water is kept at its normal level, not just during the swimming season, but during the "off season" as well. Do not operate the cover if the water level is more that 4" below normal.

CARE OF FABRIC

Care of Fabric: Care of the cover begins with removing any objects before rolling the fabric around the roller. Any leaves, insects, or dirty water left on the fabric may affect the vinyl by leaving a residue. When dirt, organic matter, or harmful chemical deposits build up on top of the fabric, it should be rinsed off with fresh, clean water. If the cover is not rinsed off regularly premature fabric failure can occur. This is not covered under this Limited Warranty.

The key to longevity in all cases has been proper pool water balance as well as regular care and cleaning of the cover.

For stubborn stains try using a soft bristle brush and scrub the cover with fresh clean water. For oils like suntan lotion or leaf stains, or anything that cannot be removed by just scrubbing, try using a small amount of non-detergent cleanser or Simple Green. Never use

detergents on the vinyl! (One of the most available non-detergent cleaners is Ivory bar soap, not the dish washing liquid.) Use the bar soap on a wet cloth and scrub the soiled area. Next, rinse well with fresh water. Pump all water from the top of the cover prior to operating it.

For algae stains, especially black algae, you may use a mixture of nine parts water to 1 part Clorox. Wipe this solution directly on the algae. Do not use algaecides since some contain detergent.

Patch even the smallest holes as soon as they occur with vinyl glue, available from Pool Covers, Inc. If water penetrates the vinyl and is exposed to the reinforcing thread (called scrim), the thread will soak up water. The chemicals in the water will contaminate the inside of the material, which will lead to stiffening and/or deterioration of the vinyl. Patching should be done on both sides of the material whenever possible.

To repair a leak in the fabric, retract the cover until the damaged area is on top of the beam for under track models, or on top of the deck for top track models. Clean the area around the hole thoroughly and dry the fabric. The patch should have rounded corners and overlap all sides of the hole or tear by one inch. Apply the vinyl glue to the patch as well as the area to be patched. Wait until both surfaces are "tacky". Join the fabric and patch together. For small "pinholes", clean the area and seal with a drop of glue. If possible, patch the cover on both sides. Patch material and vinyl glue can be purchased from our parts department.

Chemicals: The primary thing to remember regarding chemicals and your new cover is that you will almost certainly have to change the quantity and/or frequency that you add chemicals to the water. Where it was previously necessary to chlorinate your pool at a constant rate because chemicals dissipated at a constant rate, with proper use, the cover will substantially diminish the loss of chemicals. It now becomes impractical and perhaps even detrimental to follow your previous chemical program.

With the proper use of the cover, chemicals will dissipate at a substantially diminished rate. You must avoid a build up in the quantity of chemicals in the pool water. Such a build up may create improper balance, which may cause deterioration of the vinyl cover. This type of deterioration is not covered by warranty. After adding chemicals to your pool, allow the chemicals to circulate before closing your cover. A good rule of thumb is do not cover any water you would not swim in. ***WARNING: Never leave an open pool unattended.***

Please pay particular attention to the chemicals you use. We find that chlorine, ozone, and salt can vary dramatically in pH level. Long term imbalance or consistently fluctuating pH can ruin your vinyl cover, and adversely affect your pool cover mechanism and their components, in just a season or two. This imbalance will void your warranty. Making sure your pool water is balanced should be on the top of your checklist. Pool Covers, Inc. recommends having your pool serviced by a professional. There are several in your area. They will not only help to maintain your pool water but they can alert you to any possible equipment malfunctions.

Inspect for Wear and Deterioration: Depending on your cover's exposure to chemicals, dirt, and debris, your vinyl will eventually become brittle and start to crack as the years go by. When this occurs, the reinforcing thread, called scrim, will be exposed and begin to break down, decreasing the capability of your cover to support weight. By having a certified Pool Cover's Inc. technician perform the recommended twice yearly maintenance we will make sure any deterioration in fabric strength will not compromise the effectiveness of your pool cover.

Inspection for this kind of deterioration should begin with examination for leaks. Any change in the feel of the vinyl such as brittleness or stiffness can indicate a problem and the vinyl may be weakening.

For above ground installations, there may be areas where your cover is pulled over deck or coping, it is possible to gradually wear the vinyl away. This is normal wear and tear and not covered under warranty.

Inspect the sewing along the side of the cover. Broken threads decrease the strength of your cover, and if not repaired may cause damage to other parts of your system. If you suspect a problem please call us.

PROPER MAINTENANCE

The INFINITY 4000 has been designed for low maintenance requirements. There is only one adjustment that may call for periodic attention. The ropes may shrink slightly over time, causing the cover to run askew. A "rope-tension" adjustment allows the cover to roll evenly back and forth across the pool. These, and other maintenance techniques, are described in subsequent sections of this manual.

To facilitate optimum, long-term performance of your system, the manufacturer recommends a general maintenance, or GM, of your system at least twice a year. During a GM, a Pool Cover's Inc. trained technician will tighten all attachments, check and lubricate all moving parts, inspect the fabric and webbing for signs of premature aging, and adjust autostops. We will also clear track of debris, check and adjust pulleys/guides, motor and controller, and adjust rope tension to facilitate a smooth, even extension and retraction of the cover. It is also important for you to periodically rinse off your leading edge bar, track, fabric and mechanism to eliminate any chemical build up that may occur. By having the above maintenance done by a Pool Covers, Inc. technician you will assure that your system will be covered by all warranties that apply.

DRAINAGE

On recessed models of the INFINITY 4000, the mechanism housing box (vault) is designed to act as a drain for water that may find its way into the housing. Keep the housing free of debris by cleaning it at least once a year, more often if you live in a wooded area.

REPLACING A PULLEY

The INFINITY 4000 cover system contains a total of six pulleys. Three are located on the motor end side of the mechanism, one is on the opposite end of the mechanism, and one is at the far end of each length of track. Any pulleys not turning freely should be replaced. Although it is recommended that an authorized technician accomplish this procedure, a pulley replacement can be done on your own if care is taken. Use a screwdriver and an 11/32" wrench to replace a pulley. Be sure to check that the new pulley rotates freely and that the rope moves easily within the grooved channel of the pulley. Note that 1) it helps to pull a few inches of rope loose from the mechanism rope reel to remove tension around the pulley, 2) when replacing a track pulley, it is advantageous to remove the two or three track screws nearest the far end of the track so that access to the pulley can be achieved more readily by bending the track down slightly, and 3) do not use replacement pulleys other than those provided by the manufacturer. They are custom designed to precise specifications and load tolerances and engineered for very specific durability requirements. Installation of inferior pulleys will increase the likelihood of breakdown and void the manufacturers Limited Warranty.

CLEANING THE TRACK

Dirt and sand can build up around the fabric inside the track, especially when the cover is not frequently used. This buildup can impair the cover's operation, causing uneven retraction and premature wear of the fabric webbing. To flush out the track, first retract the cover, and then spray water under pressure down the full length of each track. This will also prevent any chemical build up which can cause corrosion of the track which is not covered under warranty.

COVER RETRACTED TOO FAR

If the autostops should fail and the cover retracts too far, do not attempt to roll the cover out until the cover has been put back in the track. To accomplish this, remove the screw that holds the nylon guide in place. Feed the cover through the nylon guide and into the track groove and refasten the nylon guide. It should now be safe to run the cover. If the webbing is badly frayed you may need to remove the frayed portion with a pair of scissors before re-threading. If the corner of the cover is damaged extensively, it may be necessary to place a service call so a trained technician can splice in a new corner.

COVERING THE POOL MANUALLY

In case of an emergency such as a power outage, it is possible to cover the pool manually although it is highly recommended that you contact an authorized service technician. Covering the pool manually requires two people. Remove the shifting collar to separate the mainshaft from the motorshaft. Pull a few feet of rope from the rope reels located on the motor side of the mechanism and unroll a little fabric manually. While one person is pulling on the ropes, the other person should be on the far end of the pool pulling gently on the leading edge bar. Pull evenly on both ropes until the cover is over the pool. It may be necessary to remove the aluminum lid to facilitate this task.

UNCOVERING THE POOL MANUALLY

Unless an emergency exists, only an authorized Pool Covers Inc. technician should manually remove your cover. This operation requires two people. Remove the aluminum lid by removing all hinge screws. Remove the shifting collar to separate the main shaft from the motor shaft. It may help to pull some rope off the two reels to reduce the tension. With one person on each side, pull the cover back, sliding the material out of the track ends. Pull the material as level with the track as possible. "Accordion-fold" the material as it comes out behind the mechanism. The trick is to pull on both sides simultaneously, exerting the same amount of energy and maintaining the same rhythm.

ELECTRICAL DATA

Code requirements are such that the unit should have been properly grounded when installed and wired to a GFI, or ground fault indicator, breaker. Periodically, test the GFI and the breaker. Only use a power source connected to a GFI around a swimming pool! If the mechanism housing has been flooded or if any of the electrical connections have been compromised, do not operate the system or go near the pool. Call a qualified electrician to make repairs and determine that the risk of electrical shock has been eliminated. Note: Do not continue to activate the control lever if the cover is bound up or fails to move. Approximately twenty seconds of such activation could burn up the interior wires of the motor and destroy it. Such an act would constitute abuse of the system and void the Electrical Components Limited Warranty. If you do not have a hardwired key switch or lever switch and are using an electrical cord to operate your cover, only use a 12-gauge electrical cord. Using a standard 14-gauge cord will burn out your motor and void your warranty.

RAIN WATER REMOVAL

Since water on top of your cover could result in drowning, remove it as quickly as possible with the RULE 1800 pump provided with your system. Keep your pump on the pool

whenever it is covered. Your pump is submersible, has an automatic on/off switch, and will automatically pump off water that has accumulated on your cover.

The water that accumulated on your closed cover can come from rain, misdirected garden sprinklers, or from your pool via small holes or leaks in your cover. Puddles usually consolidate into a pool of water up to several inches deep. The weight of larger accumulations of water causes depressions in the cover, which can work in your favor when removing water with your pump. After your pump has stopped and most of the water has been removed, the pump itself will create enough of a depression to allow continual consolidation of water. This consolidation is enhanced by snaking a long discharge hose over as much of your cover as possible to create a natural channel for the water to flow back into your pump. Each pool is different in shape and size, so you will have to experiment to see which pattern works best for you.

WARNING: Your pump is an electrical appliance and caution should be used when handling it and electrical cords around water. Always place the pump on the cover first and then plug in the pump. Do not stand on a wet surface while using the pump. Do not use your pump for any other application other than specified in these instructions. If your pump tips over, the automatic on/off feature will not work. Keep your pump clean and well maintained at all times.

DO NOT ATTEMPT TO OPEN YOUR COVER WITH WATER ON IT. This can damage your mechanism, tracks and motor. Also, be aware that if a lot of water collects on top of the cover, it will displace the water in the pool, resulting in a lower water level. Make sure to replace this water and monitor the water level of your pool. The proper operation of the cover depends on the water in the pool for support. It is imperative to keep your water level up in the pool at all times.

Your Rule 1800 pump has a 3 year manufacturer's warranty. Please contact Rule Industries at 978.281.0573 with any questions. Thank you.

RULE 1800 PUMP OPERATION

The computerized, automatic control system in the pump assures that the cover is always pumped off and that the pump will not run needlessly. When immersed in water, the pump will begin pumping immediately upon being plugged in. After pumping the water off the

cover, the pump will automatically stop. The pump will then periodically cycle and run for less than a second if no water is present. If water is present, the pump will continue pumping until the water is pumped off. Once the pump has power, starting and stopping is completely computerized. No further adjustment is necessary. In case of a power outage, the pump will restart automatically when the power outage is over. When not in use, the pump should be disconnected from the power source.

NOTE: The pump may be restarted at any time by disconnecting the power, waiting 5 seconds, and then reconnecting the power. If no water is present, the pump will only run momentarily. If water is present, the pump will continue to run until the water is pumped off.

Impeller Jamming: The Rule 1800 is equipped with a protective circuit, which prevents damage to the pump, should it ever become jammed with debris. The pump will continue to test for water every few minutes and shut itself off if no water is present, or if the impeller is unable to move. If the pump should jam due to debris, remove the debris as soon as possible so that the pump can return to its normal automatic pumping mode.

RULE 1800 PUMP - TROUBLE SHOOTING

Symptom	Possible Causes	Cure
Pump doesn't run	Electrical Connections	<ul style="list-style-type: none"> • Check electrical receptacle for power. • Check fuse and/or circuit breaker. • Is the receptacle a 3-prong grounded outlet in good condition? • Is the plug making good contact?
Pump runs but doesn't pump water	Air Lock	Check hose. Is it running level or downward? Any loops? Slosh the pump up & down in the water
Pump only runs for a few seconds	<ul style="list-style-type: none"> • Insufficient Water • Clogged strainer • Jammed Impeller 	<ul style="list-style-type: none"> • Water level must be one inch above the strainer. • Disconnect pump from power source and remove strainer. • Clean debris from strainer and surrounding area. • Remove any debris from impeller.

OL COVER OPERATOR INSTRUCTIONS

WARNING: FOLLOW THE INSTRUCTIONS BELOW WHILE OPERATING YOUR SAFETY COVER. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DAMAGE TO THE COVER

1. There is NO SUBSTITUTE FOR VIGILANCE IN A POOL AREA. Examples of good safety behavior by adults are important for young children. The covers are meant to be walked on in cases of emergency only. Children can not differentiate between a safety pool cover at your house and a floating blanket at someone else's house.
2. Maintain a clear view of the pool when operating the cover.
3. Do not operate the cover with swimmers in the pool.
4. When covering the pool, release the control switch the moment the cover reaches the closed position.
5. If the cover becomes skewed or obstructed, release the control switch immediately, back the cover up a few feet, then proceed forward again. If the cover continues to jam, or becomes skewed, stop the cover again and contact an authorized Pool Covers Inc. technician to correct the problem. **YOU MUST RUN THE COVER IN THE SAME DIRECTION FOR AT LEAST 6 SECONDS PRIOR TO SWITCHING DIRECTIONS.**
6. Do not operate the cover when the water level is low or when there is water on top of the cover. Severe damage to the mechanism and/or fabric could result.
7. Restrict children and adults unfamiliar with these instructions from using the cover by removing the key from the control whenever the cover is not in use. **THE KEY SHOULD NEVER BE LEFT UNATTENDED IN THE SWITCH AS THIS POSES A SERIOUS SAFETY HAZARD.**
8. If the cover consistently comes back crooked or experiences excessive tension, discontinue use until an authorized Pool Covers Inc. technician has serviced the cover.
9. Pay close attention to proper pool water chemistry. Water that is consistently out of balance could result in extensive damage to the fabric, your extrusion and your pool cover mechanism. Such damage is not covered under this limited warranty.
10. Examine the cover periodically for wear. When the fabric becomes brittle and develops cracks, order a replacement fabric. A badly worn cover may not safely support weight during an emergency.
11. Keep small children away from the edge of the pool while operating your pool cover.
12. Your cover is intended to prevent inadvertent entry to the pool, such as an accidental fall or inattentive playing, and should not be considered child proof. A determined child, if left unattended, can find a way to gain entry to the pool.

Enjoy your pool! Proper use of your INFINITY 4000 will not only give you peace of mind, but will save time and money as well, making your pool ownership the pleasurable experience it should be!

*Thank you for purchasing a safety swimming pool cover
from*

***Pool Covers, Inc.
A Company of Owners***

Enjoy your pool. Swimming is a wonderful activity that the entire family can enjoy.

Note: please refer to your fabric warranty for further instructions on the proper use and care of your cover. Please refer to you mechanical warranty for further instructions on the proper use and care of your mechanism. These items were sent in this same package and are separate documents.