

T3 Evo™ Automatic Pool Cover

WARNING

FOR YOUR SAFETY – This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. In the event no such state or local requirement exists, the installer or maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation may void the warranty.

Table of Contents

Section 1. Important Safety Instructions	3	8.5 Maintain Proper Balance	12
Section 2. Cover Components	5	8.6 Recommended Chemical Plan	13
2.1 Feature Checklist.....	5	Section 9. Adjustments and Minor Repair	13
Section 3. Operation	6	9.1 Service.....	13
3.1 Covering the Pool.....	6	9.2 Uneven Cover Retraction	13
3.2 Uncovering the Pool.....	6	Section 10. Advanced Troubleshooting and Repair	14
Section 4. Feature Instructions.....	6	10.1 Slip Clutch Adjustment	14
4.1 Slip Clutch	6	10.2 Auto-Shutoff Amp Limiter Adjustment	15
4.2 Auto-shutoff Operation.....	7	Section 11. Inspection Procedure for Wear and Deterioration.....	15
Section 5. Removing Water on Top of the Cover ...	8	11.1 Vinyl Cover	15
5.1 Placing the Pump on the Cover	8	11.2 Cover Track	15
Section 6. Basic Maintenance.....	9	Section 12. Emergency Procedures	15
6.1 Motor	9	12.1 Manually Cover the Pool	15
6.2 Water Level.....	9	12.2 Manually Uncover the Pool	16
6.3 Track Cleaning.....	9	Section 13. CoverLink™ Wired Control	17
6.4 Mechanism Cleaning.....	9	13.1 Control Pad Features	17
6.5 Replacing a Pulley	9	13.2 Normal Operation	17
6.6 Lubrication.....	10	13.3 Change or Enter New PIN(s).....	17
Section 7. Fabric Maintenance and Care.....	11	13.5 Troubleshooting Guide	19
7.1 Extra Slack in the Fabric	11		
7.2 Debris and Obstacles.....	11		
7.3 Cleaning	11		
7.4 Repair Holes	11		
7.5 Winterizing Your Cover	11		
Section 8. Chemicals and Your Cover	12		
8.1 Chemical Build-up.....	12		
8.2 High Alkalinity & Chlorine	12		
8.3 Extended Covering.....	12		
8.4 Inform Others	12		

EQUIPMENT INFORMATION RECORD

DATE OF INSTALLATION _____

INSTALLER INFORMATION _____

NOTES _____

Section 1. Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

Installation Safety Checklist

For your benefit, double check the following items with your installer/representative to aid in your understanding of the use of your cover.	YES	NO
1. Has a representative from the company who installed your cover explained to you the proper operation of the system?		
a. Roll-up adjustment		
b. Chemical application as it affects the cover		
c. Authorized operation		
d. Latching the cover after it is closed (optional)		
e. Proper maintenance		
f. Placing the cover pump in position when the cover is closed		
2. Did a representative offer you assistance on how to maintain a safer pool area?		
3. Did you receive drowning prevention information?		
Please take the time with your representative to go over this list to ensure that you understand the importance of the proper use of your pool cover.		

WARNING

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following.

1. To reduce the risk of injury, do not permit children to operate this product.
2. Close and lock the toggle switch faceplate after covering or uncovering your pool. Remove and store the key in a safe place.
3. Turn off the electrical breaker when the cover will not be used for extended periods of time or as an added layer of protection against unauthorized operation. Always turn off the breaker before servicing the cover.

WARNING

AVOID DROWNING RISKS

- REMOVE STANDING WATER—CHILDREN CAN DROWN ON TOP OF THE COVER.
- REMOVE THE COVER(S) COMPLETELY BEFORE ENTRY OF BATHERS—ENTRAPMENT IS POSSIBLE.
- NON-SECURED OR IMPROPERLY SECURED COVERS ARE A HAZARD.
- DO NOT WALK ON THE COVER EXCEPT IN AN EMERGENCY.
- FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN INJURY OR DROWNING.

T3 EVO™ MEETS ASTM F1346 CLASS PCS WHEN USED AS INSTRUCTED.

WARNING

Protect Your Investment: Your automatic cover is designed to perform reliably throughout many years of daily use. Since the automatic cover is easy to use, some people allow anyone to operate it. Our experience shows that service requirements increase with the number of people who operate the cover without having received instruction. **Do not allow anyone to operate the cover unless they have been properly instructed. Never allow children to operate the cover.**

Do not walk on the cover except in the case of an emergency. Playing or walking on the cover unnecessarily can cause injury and increases the risk of damage to the cover. The standard aluminum lid over the cover housing is not strong enough to walk on; to prevent damage or injury, avoid stepping on the lid. Lids may be slippery when wet. Before operating the cover, remove all objects from the spa and cover, including toys, spa cleaners, cover pumps and hoses. Be sure you have full view of the spa area when operating the cover. To reduce the risk of drowning which can result in serious injury, including death, do not leave a spa partially covered.

⚠ WARNING

Thank you for your purchase of a Cover-Pools cover. Cover-Pools make every effort to provide you with the safest product available and want to stress the following safety precautions.

Cover-Pools recommends “layers” of protection. Your cover is a reliable layer; however, you should not rely on any one layer to be fail proof.

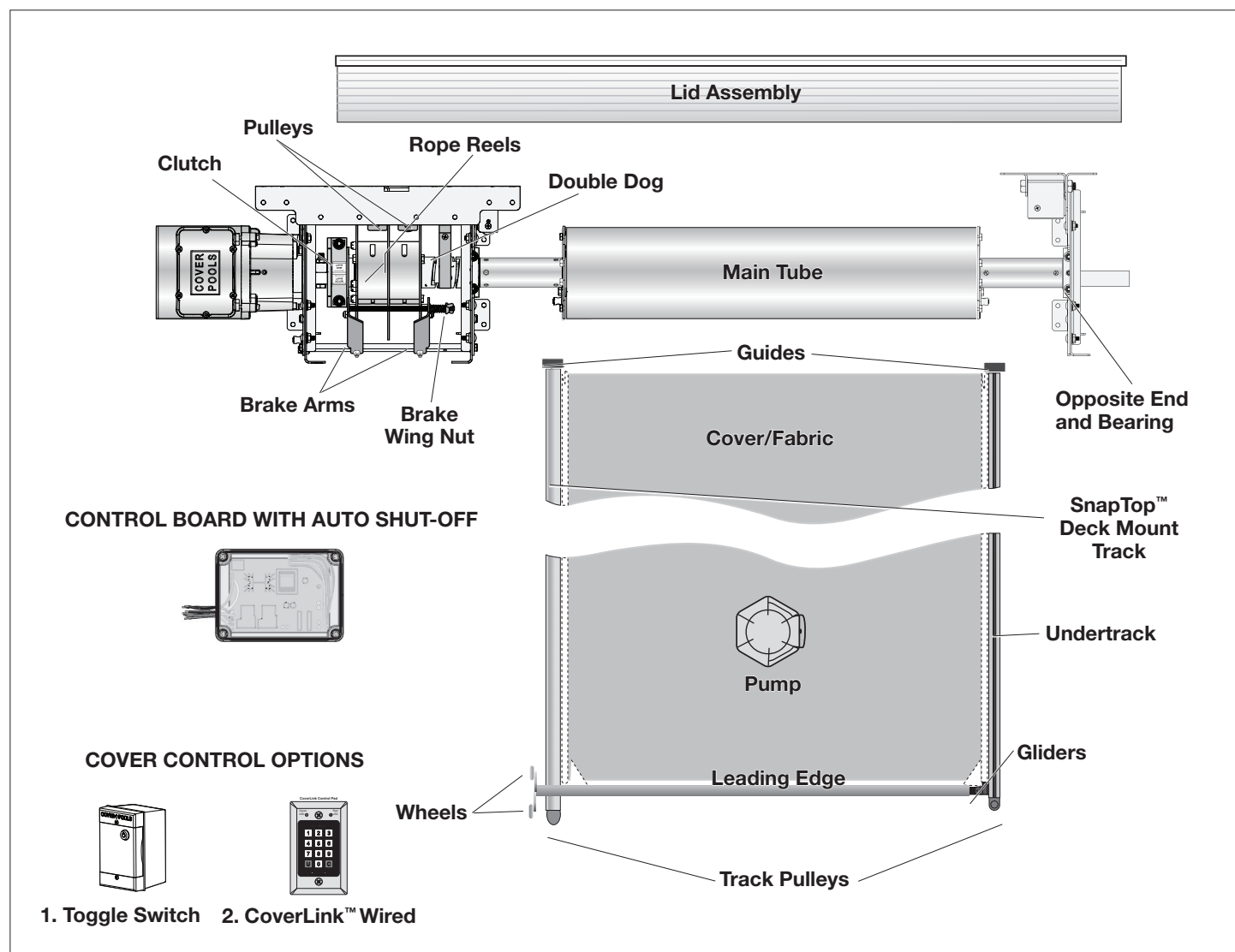
A swimming pool can provide your family with hours of entertainment and the opportunity for healthy recreation. As a pool owner, be aware that you must ensure your child's safety. There is a risk of a child drowning when around any body of water. There is no substitute for constant adult supervision. Most drowning occurs during a five-minute-or-less lapse in supervision. By providing barriers between your child and the pool, you can avoid a tragic accident should your child momentarily slip out of sight.

- Don't rely on one system—layering (pool cover, fence, alarm...) safety precautions provides the strongest safeguard.
- Never leave a child alone—even for a second.
- Maintain constant eye contact with your children when they are around the pool.
- Do not consider young children water-safe because they have had swimming lessons. Swimming instructions for children under three years of age are not recommended.
- Instruct all care-takers about potential hazards to young children in and around swimming pools and the need for constant supervision.
- Train all caretakers in life-saving, cardiopulmonary resuscitation and first aid. No exceptions.
- Add emergency phone numbers to cell phone for quick reference.
- Keep toys away from the pool when the pool is not in use. They can lure a child into the pool.
- Use inflatable toys only under adult supervision. They may deflate or your child may slip off.
- Post and enforce rules such as **No Running, No Pushing, No Dunking, and Never Swim Alone.**
- Make sure you have rescue devices accessible near the pool.
- Keep all doors and windows leading from the house to the pool area secure. Install self-closing mechanisms on doors.
- Enclose the pool with a barrier. In fact, fencing may be required in certain area. Check your local city or county building code for more information.
- Install only child-proof, self-closing, self-latching gates around the pool.
- Vertical bars on a pool fence should be no more than 3-3/4 inches apart. Avoid fences such as chain link that provide climbing footholds.
- Place table and chairs well away from the pool fence to prevent children from climbing into the pool area.
- Alert your pool maintenance people, utility personnel, and neighbors to keep covers, gates, and doors to pool closed and locked at all times.
- Check to ensure that spa and pool covers pass minimum safety requirements set by the American Society of Testing Materials.
- Never use a pool with its cover partially in place since children may become trapped under it.
- Beware of a free-floating pool cover. A child can slip beneath one unnoticed.
- Realize that a child can drown in as little as two inches of water. Drain standing water off of your spa or pool cover.
- Investigate using a pool alarm and/or a monitoring system that can be worn by a child.
- Remove ladders and steps from above ground pools. No objects should be in the pool area for a child to climb on and into the water.
- Inspect safety and pool equipment regularly. Preventative devices are only effective if they are in working order.

Sources: Drowning Prevention Society; United States Consumer Product Safety Commission; National Spa and Pool Institute's Operation Water Watch; and the American Academy of Pediatrics.

SAVE THESE INSTRUCTIONS

Section 2. Cover Components



2.1 Feature Checklist

This pool cover has been installed with the following features:

- | | | |
|---------------------------------------|---|---|
| <input type="checkbox"/> Slip Clutch | <input type="checkbox"/> CoverLink™ Control Pad | <input type="checkbox"/> AquaLink® RS Adapter |
| <input type="checkbox"/> Auto-shutoff | <input type="checkbox"/> Toggle Switch | <input type="checkbox"/> Hydraulic Power |

Please read operation instructions for these features.

Section 3. Operation

3.1 Covering the Pool

1. Remove any objects from the pool.
2. Cover the pool.
 - **Toggle Switch with Slip Clutch:** Hold the switch in the COVER position until the pool is completely covered.
 - **Toggle Switch with Auto-shutoff:** Activate the switch by holding it in the COVER position for one second before releasing it. Operate the cover by pressing the switch back into the COVER position within four seconds. Continue holding the switch in place until the pool is completely covered.
 - **CoverLink™ Control:** Enter the four-digit PIN and press COVER until the pool is covered.

NOTE: For Undertrack Systems without Auto-Shutoff, release the switch or control pad a few inches before the end of the pool, let the cover coast to a stop, then flip to or press COVER until the front of the cover taps the end of the pool. This “soft stop” method will prevent the cover from hitting the end of the pool under full motor torque, extending the life of the cover and its components.

For SnapTop™ Track Systems, run the cover up to within two to three inches of the end of the track and stop. Do not attempt to close the cover completely against the pulley castings at the end of the tracks. A convenient way to judge this is to place a stop mark on the cover, which will align with a stop mark placed on the tracks at a place where you can see from the switch or control.

NOTE: The switch or control will time out after 20 seconds of no use.

3. Place the cover pump on the cover at this time (see section 5.1). Keep the pump on the cover whenever the pool is covered.

3.2 Uncovering the Pool

1. Remove the cover pump and any debris that may damage the cover.
2. Uncover the pool.
 - **Toggle Switch with Slip Clutch:** Hold the switch in the UNCOVER position until the pool is completely uncovered.

- **Toggle Switch with Auto-shutoff:** Activate the switch by holding it in the UNCOVER position for one second before releasing it. Operate the cover by pressing the switch back into the UNCOVER position within four seconds. Continue holding the switch in place until the pool is completely uncovered.
- **CoverLink™ Control:** Enter the four-digit PIN and press UNCOVER until the pool is covered.

NOTE: The notes from section 3.1 also apply when uncovering the pool. Do not retract the pool cover too closely to the end of the tracks. With most Undertrack models, the leading edge should rest half way across the pool end wall. On SnapTop™ Track models, the leading edge should stop before the mechanism housing.

⚠ WARNING

In order to minimize the risk of drowning which can result in serious injury or death, the control pad must be mounted permanently on a wall in full view of the cover. Do not remove the control pad and carry it like a portable remote. This may be a direct violation of local codes.

Section 4. Feature Instructions

4.1 Slip Clutch

Some units include a slip clutch that is designed to slip if the cover runs too far in either direction to prevent possible damage to the cover components. While operating the cover, you may stop and reverse directions at any point between the fully opened or fully closed positions.

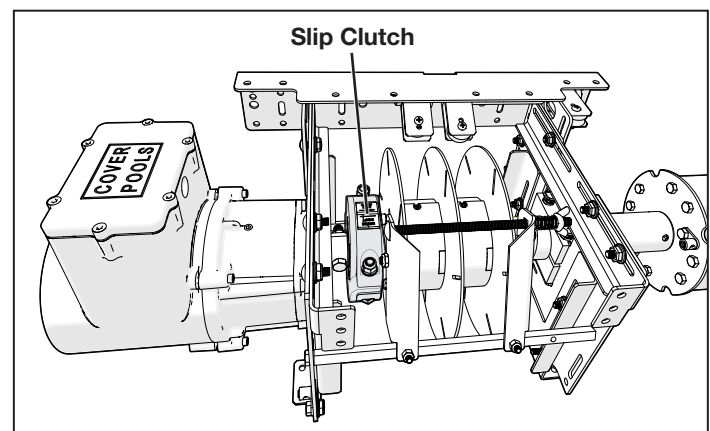


Figure 1. Slip Clutch Location

If your cover stops running during operation, there is something creating resistance such as water

on the cover, dirt or contamination in the tracks, or something damaged on the system. Remove any excess water or debris and try reversing the direction. If the cover moves, then proceed with operating the cover. If the cover will not move further in the intended direction, call your service technician or see *Section 10: Advanced Troubleshooting and Repair*.

4.2 Auto-shutoff Operation

If your cover has been installed with a control board with auto-shutoff, your cover will shut off automatically when it has reached the fully uncovered or covered position. This feature prevents overrunning the cover in either direction to prevent possible damage. Make sure that your cover opens and closes evenly so that your auto-shutoff will be able to operate properly. While operating the cover you may stop and reverse direction at any point between the fully opened or fully closed position.

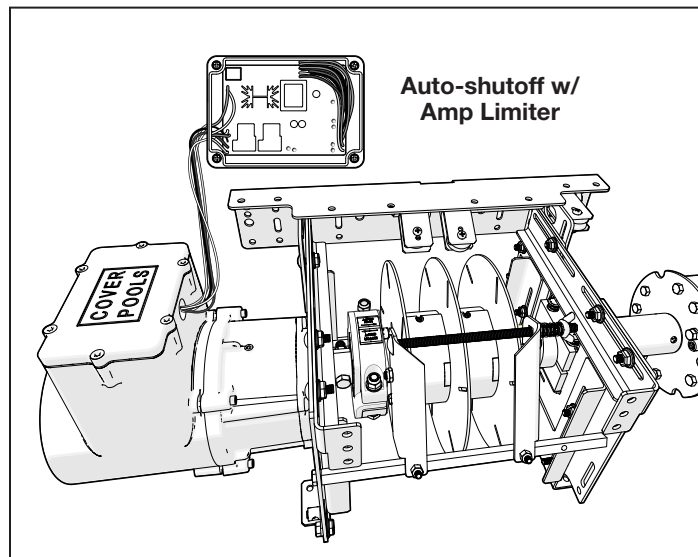


Figure 2. Auto-Shutoff with Amp Limiter

Once the cover has shut off automatically in one direction you will only be able to run it in the opposite direction. In addition, your auto-shutoff control has an adjustable amperage stop that will turn off the motor if the pool cover meets significant resistance when it is operating.

If your cover stops running during operation there is something creating resistance, such as water on the cover, dirt or contamination in the tracks, or something damaged on the system. Remove any excess water or debris and try reversing the direction. If the cover moves, then proceed with operating the cover. If the cover will not move further

in the intended direction, call your service technician or see section 10.2.

NOTE: If there has been a power interruption to your control, the system will not operate until power has been restored. Once power is restored, it is possible to overrun the cover if the control is operated in the wrong direction. Once the cover has been run in the correct direction for just a few feet, the shutoff sequence is restored and it will not be possible to overrun the cover.

Section 5. Removing Water on Top of the Cover

⚠ WARNING

Do not let persons or pets access or play on the cover. Water which may have collected on top of the cover poses a potential risk of drowning which could result in serious injury or death. Isolated puddles tend to migrate toward a depression. Persons or pets can create a depression in the cover that could be large enough to collect potentially dangerous amounts of water which can pose risk of drowning.

Standing water on top of your cover poses as great a hazard as an open pool. You have been provided with a submersible pump designed to reduce this hazard by sensing water accumulation and turning on or off automatically. Always place the pump on the cover anytime your pool is covered.

Water accumulation on top of the cover can come from holes or leaks in the cover, from over-spray and misdirected sprinklers, or from rain and snow.

⚠ CAUTION

Never attempt to run the cover with water on it. Damage can occur to the fabric and mechanism.

5.1 Placing the Pump on the Cover

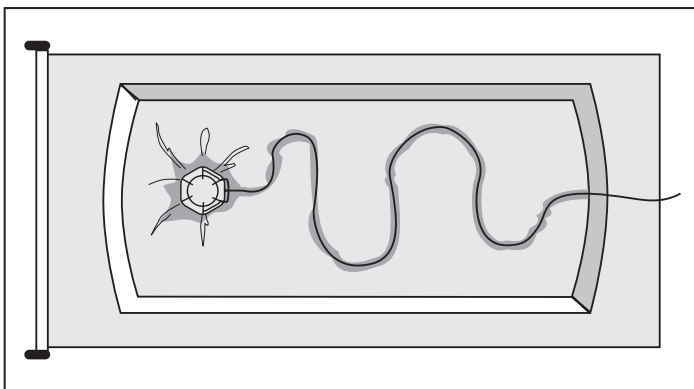


Figure 3. Pump on Cover

- 1. Place the pump on your cover:** (1) set the pump at the side of the pool, then push it into place with a pool brush. Or, (2) stand at the lid end of the pool and place the pump on the cover as a second person closes the cover.
- 2. Snake the Hose:** Snake a long discharge hose over as much of your cover as possible to create a natural channel for water to flow back to your pump (see diagram). The water will be removed

as it is channeled back to your pump. Due to different shapes and construction styles of pools, the occurrence of isolated puddles of water will be specific to your cover. After you become familiar with where the puddles usually occur, you should be able to position your discharge hose so you can remove nearly all the water on your cover.

- 3. Plug in the Pump:** Plug the pump into a GFCI-protected outlet.

After your pump has stopped and most of the water has been removed, the pump itself should create enough of a depression to allow continual consolidation of water.

If you plan on being away from your pool for a long period of time, you should find a neighbor or friend to check your cover frequently to make sure all standing water has been removed. Your pump can be left on the cover all winter. The pump will freeze into the ice without damage and it will activate itself as the ice melts during the winter. Make sure you keep power on to the pump and that the discharge hose is free of kinks.

NOTE: Cover-Pools supplies a variety of pumps depending on the size of your cover and region you live in. Carefully follow the instructions that have been supplied with your pump.

⚠ WARNING

In order to prevent the risk of drowning, fire or electric shock, which could result in property damage or serious injury, including loss of life be sure to adhere to the following:

- Plug the pump into a Ground Fault Circuit Interrupter (GFCI) - protected outlet only.
- Do not use extension cord.
- If your pump or cord becomes damaged, replace the pump immediately.
- Place the pump on the cover first; then plug in the pump.
- DO NOT stand on a wet surface while using the pump.
- Avoid contact with accumulated surface water on your cover when the pump is on the cover.
- Do not use the pump for anything other than what is specified in these instructions.
- The pump is provided with a stabilizer plate to keep it upright. To ensure that the automatic on/off feature operates properly, DO NOT allow the pump to tip over.
- Keep the pump clean and well-maintained at all times.

Section 6. Basic Maintenance

6.1 Motor

The motor we provide is waterproof and capable of withstanding short-term submersion. However, you should not allow the motor to be submersed for periods longer than a few hours. Your system housing should have adequate means of drainage for below-deck or recessed installations. Make sure all drains remain clear. Your motor has an internal thermal overload switch. If the motor overheats to the point where the switch activates, it will reset automatically when cool.

6.2 Water Level

The ability of your cover to support any weight and operate properly is completely dependent upon maintaining the pool water at normal operating level. In many cases, the cover will not support itself if run over a low or empty pool. In addition, low water level will increase friction and prevent the cover from operating properly.

WARNING

Severe damage to the cover may occur and a great hazard may develop if your water level is not maintained properly! (See section 7.5.)

6.3 Track Cleaning

The track may collect dirt and debris over a period of time. A buildup of dirt and debris can affect the operation and adjustment of your cover. If the channels in your cover track are not cleaned when necessary, the edging on your cover and the protective anodized coating on your track can wear out prematurely. To clean the track, retract the cover and spray water into the track. The water will flush out debris if sprayed the full length of the track at close range. In most situations your track should be cleaned twice a season. For pools that are used year round, or if you are in an area that is sandy or windy, cleaning should be done more often. Never use anything but water to clean the tracks or other extrusions.

6.4 Mechanism Cleaning

Over time, dried chemicals and dirt can build up on your mechanism. If these components are not rinsed off, the buildup can become so excessive that damage can occur. We recommend rinsing

the components as soon as you see a noticeable residue. The metal components of your pool cover should be rinsed off with fresh water only. The frequency will vary with the usage of the pool cover. When in doubt, it is better to rinse too frequently, than not frequently enough. When rinsing the mechanism, turn off all electricity to the cover. Make sure you have adequate drainage in your cover housing. The motor will withstand direct spray at low force.

NOTE: Improper chemical balance can rapidly affect your system as well as the cover fabric. Check your water regularly to be sure it is balanced properly. Please review the rest of this manual for proper chemical balance recommendations.

6.5 Replacing a Pulley

At the end of each track is a pulley. A worn pulley can cause cover adjustment problems and eventually lead to a broken rope. Pulleys usually last about three years. If a pulley in the end of the track causes a noticeable clicking or grinding sound, it is worn. You should contact your local dealer for replacement as soon as possible.

6.6 Lubrication

The working life of the mechanism will be enhanced and service problems will be reduced if you follow a regular lubrication schedule. Never over-grease; excessive lubrication will collect dirt and can

possibly get on the vinyl cover or webbing. Grease on the vinyl or webbing can cause deterioration. Do not grease or put silicone on the rope, webbing, or tracks; this will cause rapid deterioration of the threads, fabric, and track.

Table 1. Parts Lubrication Requirements

Part		Lubrication	Frequency
A	Opposite End Bearing #130097	Waterproof lithium type grease (Lubriplate® #1200-2)	Twice per season
B	Motor Side End Hub #180349	Waterproof lithium type grease (Lubriplate® #1200-2) NOTE: Cover the pool completely.	Twice per season
C	Rope Reels #181165	Waterproof lithium type grease (Lubriplate® #1200-2) NOTE: Uncover the pool completely and rotate rope reels.	Twice per season
D	Double Dog #181167 & #181174	WD-40®, Motor oil 30w, or similar NOTE: You may need to undo the strap around the double dog.	Twice per season
E	Toggle Switch Cover Lock	Graphite lock lube	Twice per year
F	Motor	Does not require lubrication	N/A
G	Hydraulic Tank Fluid*	Automatic transmission fluid (ATF) Type "F" or "Dextron III®"	Check twice per season
HYDRAULIC DRIVE*: Hydraulic tank, motor, and lines should be drained, flushed and refilled once per year.			
IMPORTANT: Clean and dry the parts before applying lubrication (e.g. using high-pressure water and/or compressed air).			

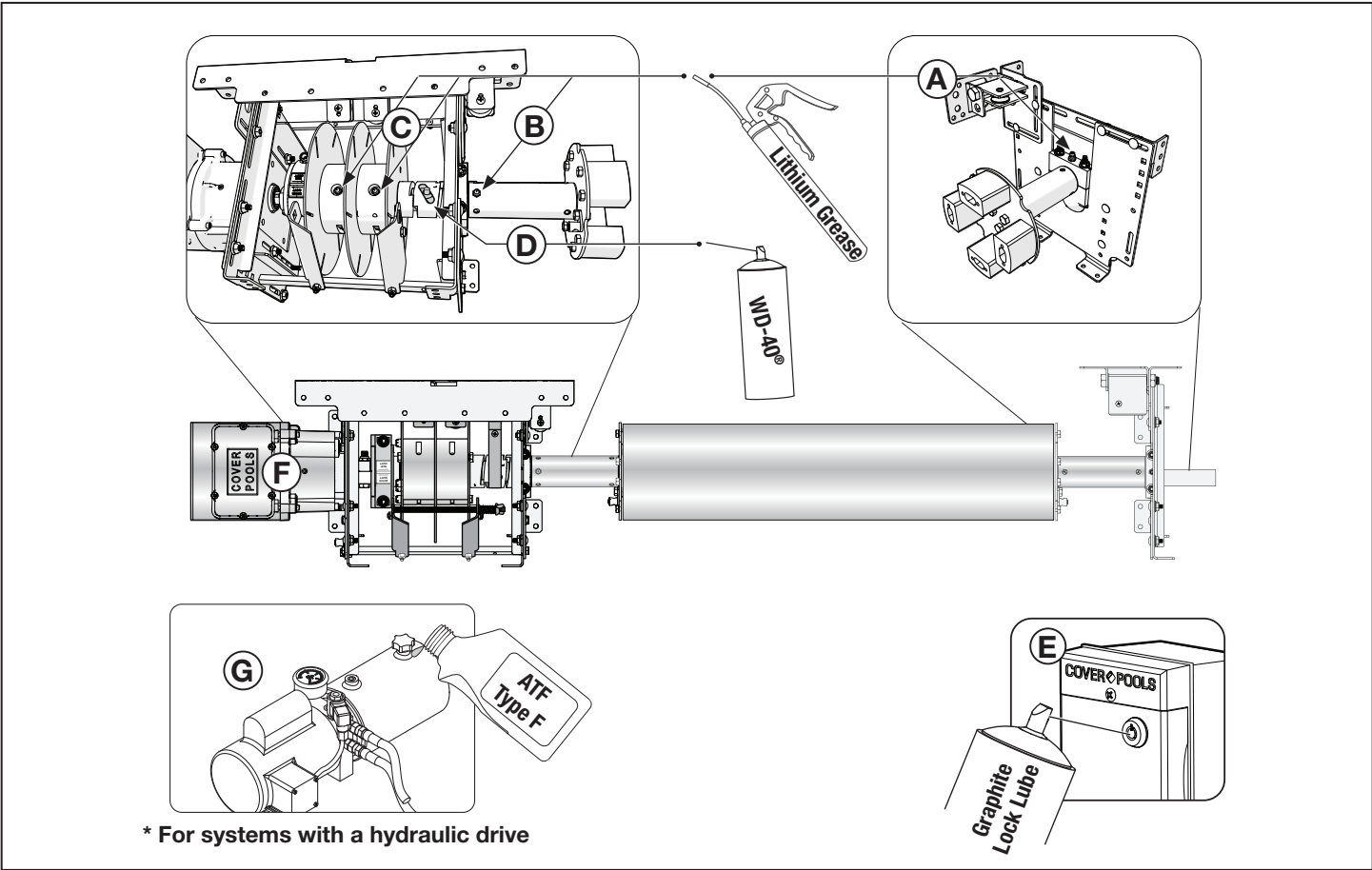


Figure 4. Parts Requiring Lubrication (See Table 1)

Section 7. Fabric Maintenance and Care

With over 50 years of experience, we have seen well-maintained covers last far beyond expectations. The key to a long-lasting, healthy cover has been proper pool chemical balance and regular care and cleaning of the cover.

7.1 Extra Slack in the Fabric

Our customers often question the extra slack in the pool cover. We include slack in our pool covers for the following reasons:

- **Rain and Snow Loads:** The pool cover needs extra slack to handle rain and snow loads.
- **Fabric Shrinks:** The pool cover fabric will shrink between one to two percent, which can equal three to four inches on a 20-foot wide pool cover. Indoor pools may shrink more because they are often heated year-round.

7.2 Debris and Obstacles

- **Sharp Objects:** Remove any sharp objects and obstacles before opening the cover. Sharp objects can damage the cover.
- **Obstacles:** Remove any obstacles (toys, dirt, rocks etc.) in the track, on the cover, or in the mechanism housing.
- **Debris:** Remove leaves, water, etc. promptly to prevent residue-buildup on the vinyl. When the cover does become soiled from dirt, organic matter, or undissolved chemicals, clean it.

7.3 Cleaning

- **Rinse:** Regularly rinse the cover fabric with a pump in place to remove water and contaminants. Even if the cover does not appear dirty, harmful chemical deposits can accumulate on the fabric and can cause premature fabric failure if the fabric is not rinsed regularly.
- **Stains:** For stains, use a soft bristle brush and scrub the cover with fresh, clean water.
- **Oils and Stubborn Stains:** For oils, such as suntan lotion or stubborn stains that cannot be removed by scrubbing, use a small amount of non-detergent cleanser. **Never use detergents on the vinyl.** One of the most available non-detergent cleaners is **Ivory® bar soap** (not dish-washing liquid). Use the bar soap on

a wet cloth and scrub the soiled area. Rinse well with fresh water.

- **Algae:** For algae stains, especially black algae, use a mixture of water and Clorox® bleach. Use one (1) part Clorox to nine (9) parts water. Make sure you use Clorox, not the pool's chlorine. You can apply this solution directly on the algae. Some algicides contain detergent and may damage the cover.

7.4 Repair Holes

Use the vinyl patch kit to patch even the smallest holes as soon as they occur. If water penetrates the vinyl and comes in contact with the scrim (the reinforcing thread), the thread will soak up water and carry chemicals and contaminants to the inside of the material. This may lead to stiffening and or delamination of the vinyl. Patching should be done on both sides of the hole in the cover if possible.

7.5 Winterizing Your Cover

The cover can support a limited amount of water, snow, and ice. Each gallon of water on the cover weighs eight pounds and a few inches of rain can quickly result in a ton of water. Without the support of water underneath the cover, tracks may pull off, the cover may tear, or other damage could occur to the pool that may create a hazardous situation.

It is important to maintain the same water level all year.

Make at least monthly inspections of the water level under the pool cover.

7.5.1 Fall Maintenance

It is important to keep all water pumped off your cover as freezing weather approaches so you can go through the winter with as little weight as possible on the cover. Your pump can be left on the cover through freezing weather. Follow instructions as described in section 5.

7.5.2 Winter Maintenance

Inspect the water level in the pool at least once a month and add water if necessary. (One method is to add water via the skimmer.) Note that your water level may appear to be normal if there is ice or snow on the cover. The weight on top of the cover displaces an equal volume of water under the cover and the pool water may be much lower than it appears. Adding water will float the ice or snow on the cover upward, thus relieving stress on the cover. As the ice or snow melts the cover pump will turn on to remove it. Your cover will survive the winter if these procedures are followed.

7.5.3 Drainage

Any drain in the housing should be kept free of debris to allow water to drain freely. The lid covering the housing should always be kept in place to avoid someone stepping into the housing area and to prevent rain from directly entering the housing.

IMPORTANT

If it is not possible to keep your pool full during the winter, then the cover should be left off the pool and other safety precautions should be taken.

Section 8. Chemicals and Your Cover

The pool's chemical program may be significantly different from that of a pool without a cover. With proper use, the cover will substantially reduce chemical loss; therefore, any previous chemical programs may need to be adjusted to maintain proper chemical balance in your covered pool.

8.1 Chemical Build-up

You must avoid a build-up in the quantity of chemicals in the pool water that can result in serious damage to pool walls and equipment. Such a build-up may also create an improper water balance which may cause deterioration of the vinyl cover. A deterioration so caused is not covered by the warranty.

To avoid chemical build-up, allow the chemicals to circulate before closing the cover after adding any chemicals to your pool. Test the water at the surface with your test kit to ensure that it is safe to cover.

If it is safe to swim in, it is safe to cover!

8.2 High Alkalinity & Chlorine

A high alkalinity or high chlorine level can begin to break down the cover prematurely. Some pH adjusters may create harmful levels of alkalinity (high pH) if they are not allowed to mix with the water before the cover is closed. The same is true with chlorine shocks. Some chlorine shocks require 12-24 hours before returning to swim-safe range.

Cover-Pools Incorporated recommends using a non-chlorine shock because you can close the cover within 30 minutes. Please check with your pool service company for proper usage.

8.3 Extended Covering

Before covering the pool for extended periods of time, such as winterizing, make sure the water is balanced. Recheck the water after the chemicals have mixed completely; this may require checking the pool water a day or two later.

When covering the pool for long periods of time, adjust your ozone generators and chemical feeders to an appropriate level for a covered pool. Constant long-term buildup of ozone can damage the fabric.

8.4 Inform Others

Please make sure your pool service company or anyone in charge of pool maintenance is aware of this information.

Obtain a good test kit and use it frequently.

8.5 Maintain Proper Balance

Common sanitizers (dry or liquid) vary in their pH value. Depending upon the pH value of the specific type of chlorine used, you may use acid, soda ash, and baking soda to maintain proper pH and alkalinity values.

Table 2. Swim-Safe Chemical Levels

Maintain the Following Swim-Safe Levels:		
*Chlorine	pH	Alkalinity
1—5 ppm	7.2—7.8 ppm	80—120 ppm
*Sanitizers other than chlorine-based compounds, per manufacturer guidelines.		

WARNING

Never leave an open pool unattended. Instruct anyone you allow to operate your cover about this!

8.6 Recommended Chemical Plan

Please have your pool company fill in the following:

Recommended Chemical Plan
Recommended Alkalinity:
Recommended Sanitizer Level:
Recommended pH:
Sanitizer Type:
Recommended Salt Level:
Shock Frequency:
Other Recommendations:

NOTE: Always leave the cover open until the water is back to a safe range for swimming.

Section 9. Adjustments and Minor Repair

9.1 Service

Some services, such as adjusting the cover alignment and patching holes, are simple enough that you can do it yourself. Other services are much more complex than they first appear; therefore, we recommend that you leave repairs to your local authorized service technician. Contact your local service company for advice before you undertake any serious service project on your own; call Cover-Pools at 800-447-2838 to find a local service company.

WARNING

In order to minimize the risk of serious injury, including death, from electrocution or moving mechanical parts, be sure to turn off the power to the cover at the mains circuit breaker. Never adjust the cover or try to perform any other maintenance while the cover is running. Keep hands, clothing, etc., away from the mechanism while operating.

9.2 Uneven Cover Retraction

During cover installation, make sure the cover's leading edge is aligned with the pool's end wall before running the cover over the pool for the first time. If the leading edge is misaligned by the time it reaches the opposite wall, you will need to adjust the reels.

IMPORTANT

Contact a service technician if the cover is off by a large amount.

1. Fully uncover the pool.
2. Rotate the reels to remove any remaining rope wound around them.
3. Insert a 5/32" hex key into the socket head inside the reel that corresponds to the side that doesn't close completely.

NOTE: The reel farthest from the cover controls the non-motor side, and the reel closest to the cover controls the motor side.

4. Turn the hex key counter-clockwise around three times to increase the reel's diameter.
5. Test the adjustment by fully covering the pool. If the leading edge is still misaligned, make another small adjustment.

Keep making small adjustments and running the cover until both sides of the leading edge reach the far side of the pool simultaneously.

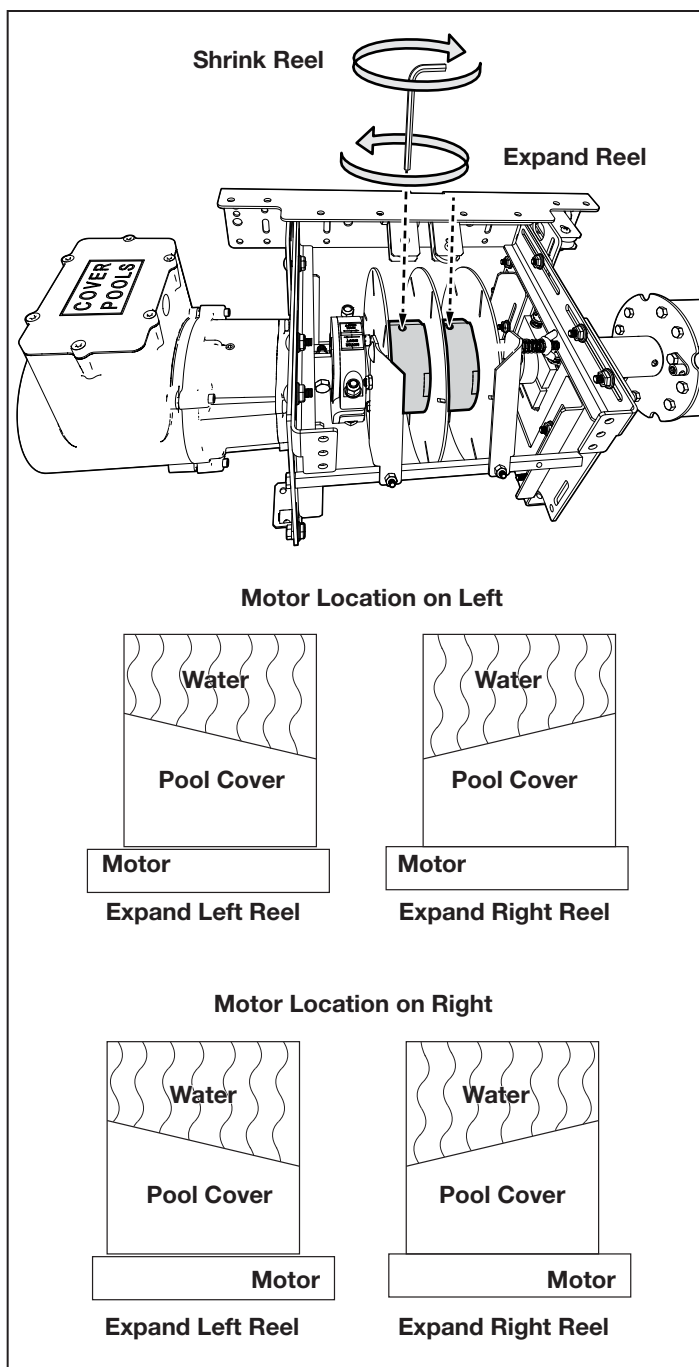


Figure 5. Reel Adjustment for Uneven Cover Retraction

Section 10. Advanced Troubleshooting and Repair

10.1 Slip Clutch Adjustment

(See checklist at front of manual for your included features.)

The slip clutch may need to be adjusted if the cover pauses as it travels across the pool or will not complete the open or close cycle. Make sure there is nothing interfering with the cover operation before adjusting the slip clutch. Water on the cover, low pool water level, bad track pulleys, and dirt or debris in the track can all cause the clutch to slip. If the clutch is slipping due to the reasons above, fix the problem, don't adjust the slip clutch.

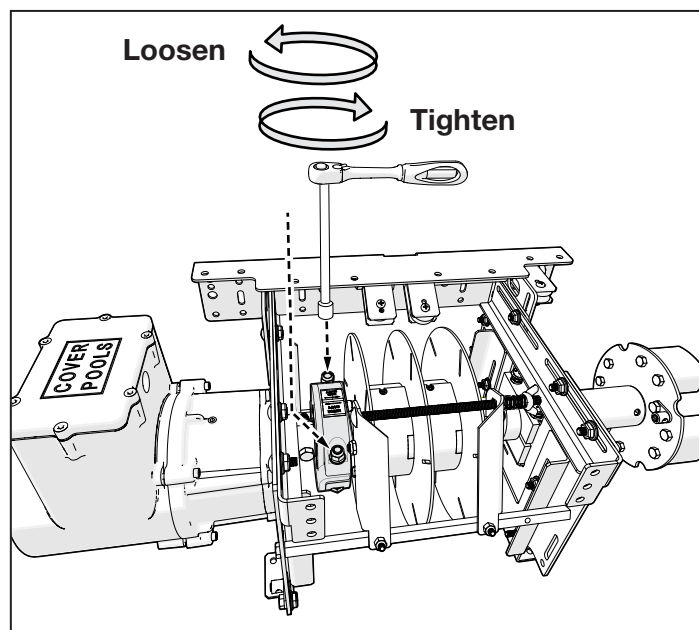


Figure 6. Slip Clutch Adjustment

To adjust the slip clutch:

1. Use a 1/2" socket, 6" socket extension and a ratchet handle. Tighten both bolts equally by turning nuts clockwise in 1/8 turn increments. See Figure 6.
2. After both nuts have been adjusted, run the cover. If the clutch is slipping before the cover is completely opened or closed, additional adjustment is needed. If for some reason you feel the slip clutch is too tight, loosen the nuts evenly by turning nuts counter-clockwise in 1/8 turn increments and run the cover after each adjustment.

NOTE: DO NOT OVER TIGHTEN THE CLUTCH TO THE POINT THAT IT WON'T SLIP IF OVERRUN.

10.2 Auto-Shutoff Amp Limiter Adjustment

(See checklist at front of manual for your included features.)

WARNING

Never attempt any adjustment to electrical components without first turning off the circuit breaker providing power to the cover.

The auto-shutoff amp limit board has LED lights to facilitate installation and diagnostics. The board also has an adjustable amp limit feature. The amp limit feature stops the cover by sensing the amperage draw to the motor. If the cover runs into an obstacle or resistance (i.e. water on the cover, dirt or contamination in the tracks, or something damaged on the system) during the cover or uncover cycle, the amp limit feature will sense the additional load and shut off the motor.

If the cover frequently stops during operation, and there is very little or no water on the cover, then call your local cover technician to adjust the amp limiter.

Section 11. Inspection Procedure for Wear and Deterioration

You should thoroughly inspect the components of your automatic cover least two to three times a year.

11.1 Vinyl Cover

The vinyl cover material is constructed with a tough combination of vinyl and a polyester mesh.

Inspect the vinyl: Over the years, depending on your cover's exposure to chemicals, heat, and sun, the vinyl will become brittle and eventually begin to crack. When this occurs the polyester mesh will be exposed and begin to change the capability of your cover to hold weight. Inspection for this kind of deterioration should begin with an examination for leaks. If you have leaks:

1. Patch the hole immediately.
2. Check the area around the hole to see if it has become brittle or stiffer than the rest of the cover. Any change in the feel of the vinyl where it begins to seem brittle or stiff can indicate a problem.
3. If the normal square pattern you see in your cover changes so that the mesh pattern appears to be more pronounced than the other parts of the cover, it could indicate that the vinyl is becoming weak.

4. In areas where your cover is pulled over your deck or coping it is possible to gradually wear the vinyl away from the reinforcing mesh. Once the mesh is exposed it can begin to deteriorate or break. Have the cover repaired immediately.

Inspect the sewing: Inspect the sewing where the vinyl is attached to the webbing (edging) along the side of your cover by your tracks. If any threads are broken or if the webbing has begun to tear or fray, the strength of your cover will be compromised. Have the cover repaired immediately if you notice this problem.

11.2 Cover Track

Since your track is the main means of anchoring your cover to your pool, inspection of the fasteners used to hold your track to the pool sides is as important as inspecting the cover. Make sure that all screws are tight and replaced if missing. Some track is contained in a channel with shims. Be sure to replace missing shims. The channel or opening that your webbing slides in can wear over the years. If you feel there is marked difference in any of these items, please contact your pool cover service technician immediately for a detailed inspection.

Section 12. Emergency Procedures

NOTE: Manually covering or uncovering the pool requires two people.

12.1 Manually Cover the Pool

1. Remove the bolt from the coupler (#080027) or the motor side of the slip clutch, whichever you have.
2. Pull a few feet of rope from the rope reels. Pull ropes equally on either side until the cover is in place.

NOTE: To accomplish this, it may be necessary to remove the lid and unroll the fabric a little manually before pulling it into the track.

12.2 Manually Uncover the Pool

There are two ways to manually uncover the pool:

12.2.1 Roll Onto Tube by Hand

1. If applicable, remove the recessed lid.
2. Remove the bolt through the motor shaft. Remove the four bolts holding the motor. Slide the motor out from the clutch.

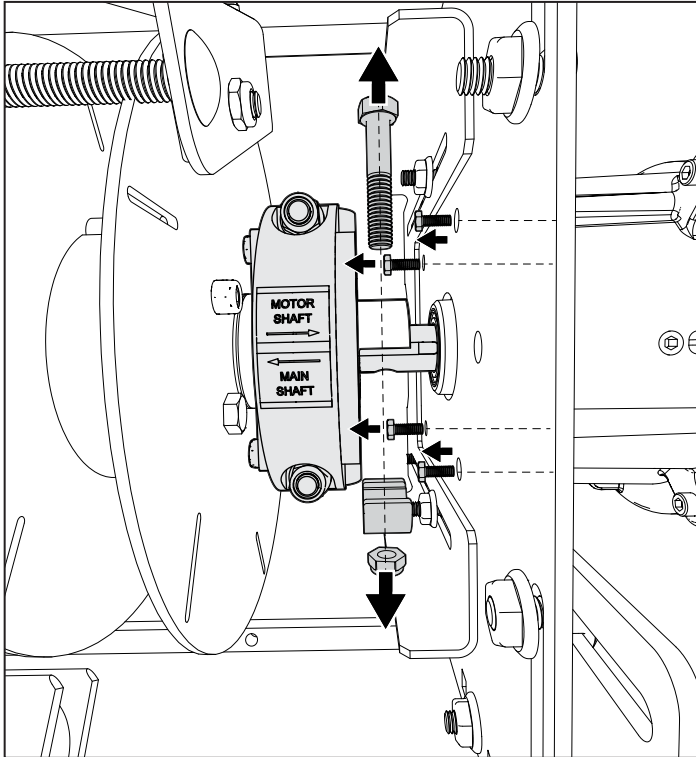


Figure 7. Removing Bolts

3. Slide the cover through the track toward the roller for a few feet on both sides. Then roll it up by turning the roller by hand.
4. Repeat this procedure until the cover is totally retracted, keeping the roll as compact as possible. To reduce any possible drag, loosen both brakes completely.

12.2.2 Use 1/2" Drive on Square Hole

1. If applicable, remove the recessed lid.
2. Follow the procedure in section 12.1 to remove the coupler bolt or clutch bolt and loosen the brakes.

3. The opposite end of the mechanism has a square hole that is sized to accept a standard 1/2" drive ratchet socket wrench.

Insert the wrench into the square hole. And then use the wrench to turn the main tube in the same direction that removes the cover from the pool.

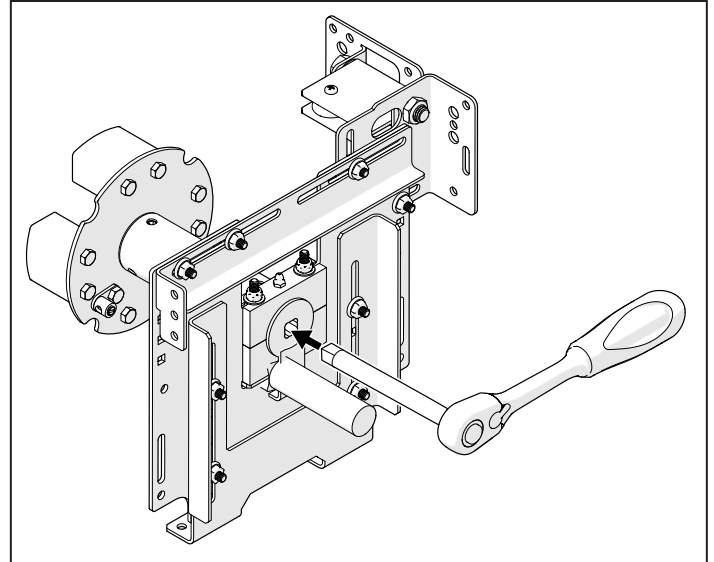


Figure 8. Square Hole on Opposite End

⚠ WARNING

It is physically easier to remove the cover using the ratchet wrench than it will be to close the cover. Closing the cover manually requires two strong people. If you are using your cover as a safety barrier, make sure you will be able to close the cover if needed, before you open the cover.

Section 13. CoverLink™ Wired Control

IMPORTANT

The CoverLink control pad must be mounted in full view of the pool cover.

The CoverLink Wired Control system controls access to pool cover operation with Personal Identification Number (PIN) entries. It is factory programmed and ready for use.

13.1 Control Pad Features

- Up to 3 separate control pads can operate the same pool cover.
- Up to 4 unique four-digit PINs can control access to the pool cover.
- Control pads can be setup in different locations around the pool.
- A master PIN is stored in memory location 1 (Factory Default Master PIN: 1583).
- Additional PINs can be stored in memory locations 2, 3, and 4.

NOTE: The pool owner should keep a record of PIN to memory location for reference.

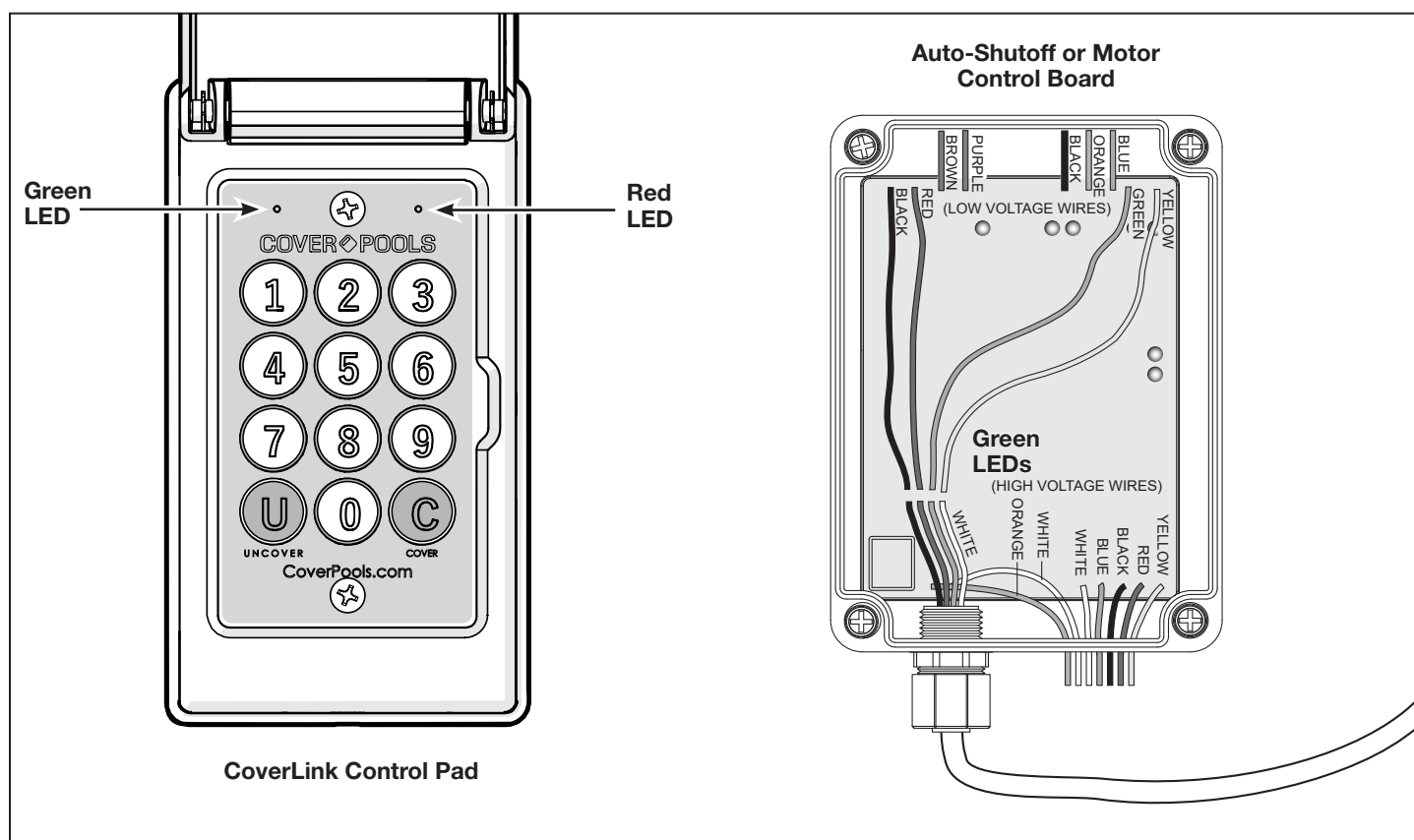


Figure 9. CoverLink Control Pad and Motor Control Board

13.2 Normal Operation

PIN entry controls access to cover and uncover operation for the pool. After entering the PIN, press and hold COVER or UNCOVER within 20 seconds or the system will time out and PIN re-entry will be required.

1. Enter four-digit PIN (the factory default master pin is 1583). The red LED will flash as each button is pressed.

2. If the pin is accepted, the green LED will flash.
3. Press and hold COVER or UNCOVER. The green LED will stay on while the cover is in motion.

If PIN is not accepted, the red LED will stay solid when you press COVER or UNCOVER. Re-enter PIN.

13.3 Change or Enter New PIN(s)

NOTE: Press buttons within 20 seconds of each other or programming access will time out.

1. Enter 1583 or the current master PIN. The red LED will flash as each button is pressed. If the pin is accepted, the green LED will flash.
2. Press 1 to enter programming mode. The red and green LEDs will turn on.
3. Press 1 to enter PIN change mode. The green LED will flash
4. Press 1, 2, 3, or 4 to select PIN memory location. (The factory default master PIN in memory location 1 can be changed.) The red LED will flash.

NOTE: To exit PIN setup, press 0.

5. Enter the new four-digit PIN. Both LEDs will flash.
6. Enter new pin again to confirm change.
 - Red LED will flash
 - Green LED will flash to indicate success.
 - The system is ready for operation after a 20 second delay.
7. Test the new PIN by following steps in section 4.3.
8. Record new PIN in Table 1 for future reference.

Table 3. PIN Memory Location Record

Location #	PIN
1	
2	
3	
4	

13.4 Delete PIN(s)

NOTE: Press buttons within 20 seconds of each other or programming access will time out.

NOTE: The master PIN in memory location 1 can be changed but not deleted.

13.4.1 Delete One PIN

1. Enter 1583 or the current master PIN. The red LED will flash as each button is pressed. If the pin is accepted, the green LED will flash.

2. Press 1 to enter programming mode. The red and green LEDs will turn on.
3. Press 2 to enter PIN delete mode. The green LED will flash.

NOTE: To exit PIN delete mode, press 0.

4. Press 2, 3, or 4 to delete the PIN from that memory location. The green LED will flash, indicating success.
5. Press (2, 3, or 4) again for confirmation. The green LED will turn on after a brief delay, indicating success. The system will be ready after a 20 second delay and the green LED turns off.

13.4.2 Delete All PINs

1. Enter 1583 or the current master PIN. The red LED will flash as each button is pressed. If the pin is accepted, the green LED will flash.
2. Press 1 to enter programming mode. The red and green LEDs will turn on.
3. Press 3 to enter all PIN delete mode. Both LEDs will flash, indicating success.

NOTE: To exit PIN delete mode, press 0.

4. Enter the master PIN to verify deletion. The green LED will turn on after a brief delay, indicating success. The system will be ready after a 20 second delay and the green LED turns off.

13.5 Troubleshooting Guide

Problem	Solution
LEDs on control pad do not light when buttons are pressed.	<ol style="list-style-type: none"> 1. Check to make sure the circuit breaker is on. 2. If the circuit breaker is on and the LEDs still don't light up, contact your local cover dealer for service.
PIN entry does not activate cover mechanism, but red LED on the control pad is on when buttons are pressed.	<ol style="list-style-type: none"> 1. Enter valid PIN. If PIN is valid, the green LED will flash as COVER or UNCOVER is pressed. If PIN is not valid, the red LED will be on as COVER or UNCOVER is pressed; re-enter PIN. 2. Verify that power to the auto-shutoff board is on. Power to auto-shutoff board will be on if two green LEDs on the auto-shutoff board are flashing. Typically, the auto shut-off board is located in an enclosure by the pool cover electric motor. 3. Turn power off for ten seconds before turning power back on. Enter valid PIN. 4. If PIN entry still does not activate the cover, contact your local cover dealer for service.
Troubleshooting for Qualified Service Personnel ONLY	
Cover system does not operate or operates intermittently.	<p>Verify that the auto-shutoff board is working properly prior to troubleshooting the CoverLink system.</p> <ol style="list-style-type: none"> 1. Check for secure wiring connections at the circuit breaker, auto-shutoff board, control pad, and motor. 2. If all wiring is good, continue to step 3. 3. Reboot the system by turning the system power off to the control pad and auto shut-off board. Leave it off for 30 seconds, then turn the system power back on. 4. Disconnect the control pad from the auto-shutoff. Short the auto-shutoff wires together (black to yellow should cover the pool and black to green should uncover the pool). <p>If the auto-shutoff works, go back to Troubleshooting Guide. If the auto-shutoff does not work, see document 600356.</p>

