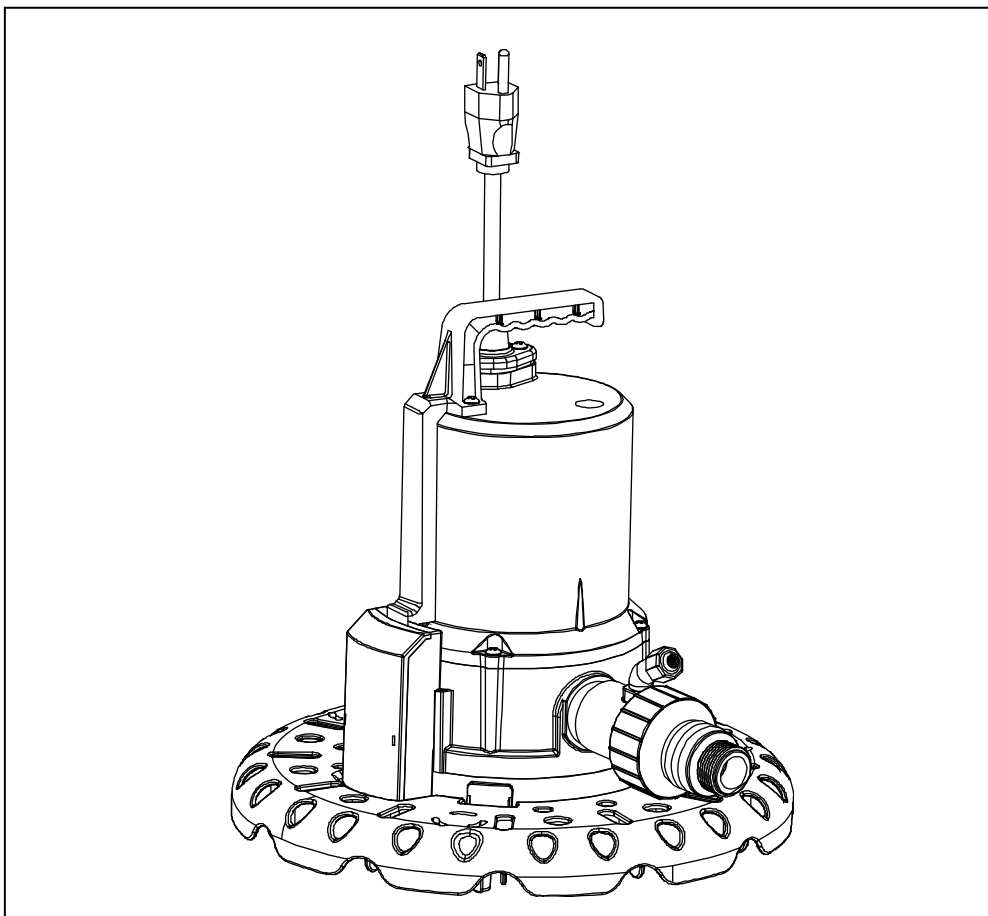




Model: UTA02505APK

# OWNER'S MANUAL

## Automatic Pool Cover Pump



Questions, problems, missing parts? Before returning to the store call  
K2 Customer Service 8 a.m. - 6 p.m., EST, Monday-Friday  
**1-844-242-2475**

[www.K2pumps.com](http://www.K2pumps.com)

# PERFORMANCE

Model	HP	GPH of Water @ Total Feet Of Lift						Max. Lift
		0 ft.	5 ft.	10 ft.	15 ft.	20 ft.	25 ft.	
UTA02505APK	1/4	1800	1550	1320	1080	780	360	28 ft.

# SAFETY INSTRUCTIONS

1. Do not pump flammable or explosive liquids such as oil, gasoline, kerosene, ethanol, etc. Do not use in the presence of flammable or explosive vapors. Using this pump with or near flammable liquids can cause an explosion or fire, resulting in property damage, serious personal injury, and/or death.
2. ALWAYS disconnect the power to the pump before servicing.
3. Do not touch the motor housing during operation. The motor is designed to operate at high temperatures. Do not disassemble the motor housing.
4. Do not handle the pump or pump motor with wet hands or when standing on a wet or damp surface, or in water before disconnect the power.
5. Release all pressure and drain all water from the system before servicing any component.
6. Secure the discharge line before starting the pump. An unsecured discharge line will whip, possibly causing personal injury, and/or property damage.
7. Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water. The use of an extension cord to power this pump is not permitted.
8. Wear safety goggles at all times when working with pumps.
9. This unit is designed only for use on 115 volts (single phase), 60 Hz, and is equipped with an approved 3-conductor cord and 3-prong grounded plug. Do not remove the ground pin under any circumstances. The 3-prong plug must be directly inserted into a properly installed and grounded 3-prong, grounding-type receptacle. Do not use this pump with a 2-prong wall outlet. Replace the 2-prong outlet with a properly grounded 3-prong receptacle (a GFCI outlet) installed in accordance with the National Electrical Code and local codes and ordinances. All wiring should be performed by a qualified electrician.
10. Protect the electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the cord. Do not use damaged or worn cords.
11. Failure to comply with the instruction and designed operation of this unit may void the warranty. ATTEMPTING TO USE ADAMAGED PUMP can result in property damage, serious personal injury, and/or death.
12. Ensure that the electrical circuit to the pump is protected by a 10 Amp fuse or circuit breaker.
13. Do not lift the pump by the power cord.
14. Know the pump and its applications, limitations, and potential hazards.
15. Secure the pump to a solid base. This will aid in keeping the pump in a vertical orientation. This is critical in keeping the pump operating at maximum efficiency. It will also help prevent the pump from clogging resulting in premature failure.
16. Periodically inspect the pump and system components to ensure the pump suction screen is free of mud, sand, and debris. Disconnect the pump from the power supply before inspecting.
17. Follow all local electrical and safety codes, along with the National Electrical Code (NEC). In addition, all Occupational Safety and Health Administration (OSHA) guidelines must be followed.
18. The motor of this pump has a thermal protector that will trip if the motor becomes too hot. The protector will reset itself once the motor cools down and an acceptable temperature has been reached. The pump may start unexpectedly if it is plugged in.

19. Ensure the electrical power source is adequate for the requirements of the pump.
20. Before using the pump, check the hose for holes or excess wear, which could cause leaks, and ensure the hose is not kinked or making sharp angles. A straight hose allows the pump to move the greatest amount of water quickly, and also check that all hose connections are tight to minimize leaks.
21. This pump is made of high-strength, corrosion-resistant materials. It will provide trouble-free service for a long time when properly installed, maintained, and used. However, inadequate electrical power to the pump, dirt, or debris may cause the pump to fail. Please carefully read the manual and follow the instructions regarding common pump problems and remedies.
22. This pump is fully automatic in operation. If the water level is over 2 in., the water detector senses water. Then the control system built in the pump automatically starts the pump and the pump continues to run until water is pumped down to 3/4 in. deep, and then it stops. If the water level is not over 2 in., the pump will not start.
23. Electric shock hazard! GFCI receptacles will provide protection against line to ground faults only. The ground fault receptacle does NOT limit the magnitude of fault current and will NOT prevent an electrical shock. Replace damaged cord immediately.
24. Risk of electric shock. This pump has NOT been tested for use in marine areas. NEVER place pump in pools while people are in the water. Do NOT handle pump with wet hands or when standing in water or on a damp surface. Pump is designed to be used in closed and covered pools only. Water accumulated on pool cover can cause injury or death. Proper installation of pool cover pump and periodic maintenance is recommended. Failure to follow COULD result in death or serious injury.
25. The unit MUST be plugged into a properly grounded GFCI outlet. Consult with a qualified electrician for proper installation of a GFCI OUTLET.
26. Do not move, position, retrieve, or carry pump using the power cord or the discharge hose, damage to the pump or power cord may occur. Use the handle supplied on the pump or attach a string to the strainer to position as instructed.

## PRE-INSTALLATION

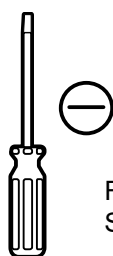
### APPLICATION

This portable, auto On-Off Pool Cover pump is designed for automatic removal of water, from a pool or spa cover. The unit is equipped with a 25 ft. 3-prong grounding type power cord. The provided discharge check valve prevents short cycling and it's 3/4" adapter can be used for convenient attachment to a standard garden hose.

#### Features:

- Operating water depth: minimum 2 in.

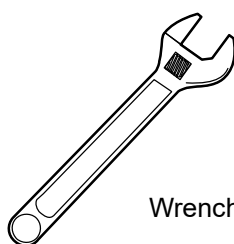
### TOOLS REQUIRED



Flathead  
Screwdriver



Phillips  
Screwdriver



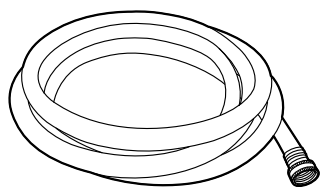
Wrench



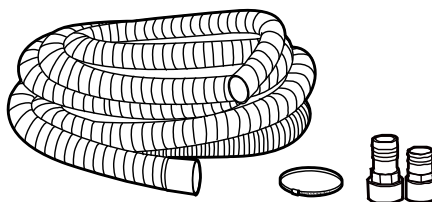
Safety  
Goggles

## MATERIALS REQUIRED (NOT INCLUDED)

**NOTE:** The hose and hose kit are not shown to scale.

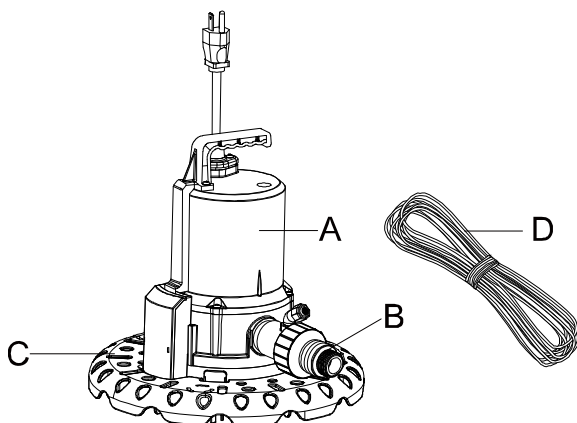


Garden Hose



Sump Pump Discharge hose kit

## PACKAGE CONTENTS



Part	Description
A	Pump
B	3/4 in. Check valve
C	Debris strainer
D	25' Rope

## SPECIFICATIONS

Power supply	115V, 60 HZ., 10 Amp Circuit
Liquid Temp. Range	32°F to 95°F(0°-35°C)
Discharge	1-1/4 in.Female NPT or 3/4 in. garden hose thread

## INSTALLATION

**DANGER:** Do NOT use pump if any part of the housing switch or probe is cracked, broken, or missing.

**DANGER:** Always unplug the pump before attempting to install, service, relocate, or perform any maintenance.

**DANGER:** Extension cords may not deliver sufficient voltage to the pump motor. Extension cords present a life threatening safety hazard if the insulation becomes damaged or the connection ends fall into water. The use of an extension cord to power this pump is not permitted.

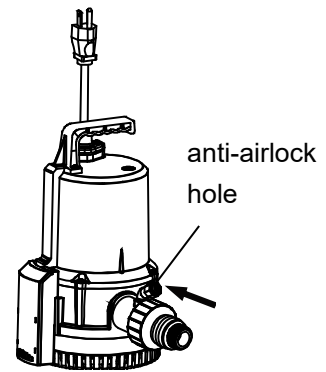
**WARNING:** This unit is NOT designed for use as a sump pump or in sump applications. This unit is NOT designed for use in septic tanks or underground vaults to pump raw sewage or effluents. NEVER use in hazardous or explosive locations

**CAUTION:** Always use the handle to lift the pump. Never use the power cord to lift the pump. To avoid skin burns, unplug the pump and allow time for it to cool after periods of extended use.

## 1. Connecting a check valve

- Install the check valve to the pump outlet

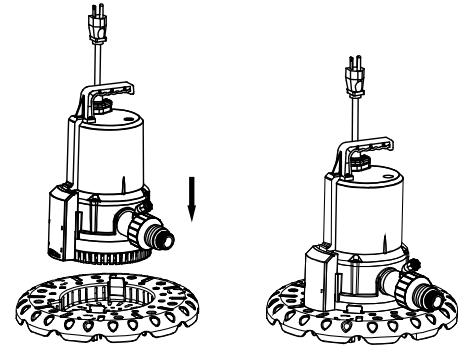
**NOTE:** Be sure anti-airlock hole is pointing upward.



## 2. Connecting a debris strainer

- Install the “snap-on” debris strainer. Begin by lining up the pump base profile with the profile of the strainer base using the switch housing as a guide. Tilt the pump back and guide the rear of the pump (opposite the discharge) into the strainer base. Once the rear of the pump is in place, gently rotate the pump down until the latch engages.
- To remove debris strainer release latch and guide pump out of strainer in the reverse motion of installation

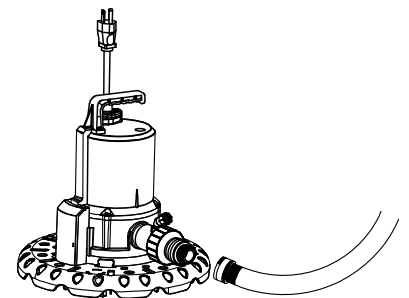
**NOTE:** Always use debris strainer when placing pump on a pool cover. The strainer helps protect the pool cover from damage, filters debris, and increases pump stability.



## 3. Connecting a 3/4 in. garden hose or 1-1/4 in. hose kit

**NOTE:** Be sure the 3/4 in. garden hose thread connector has a rubber gasket to minimize water leaks.

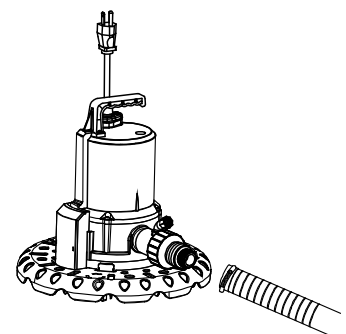
- Attach a garden hose with a 3/4 in. garden hose thread (not included) to the check valve.



If you would prefer to use a 1-1/4 in. hose kit (not included) in order to pump water away more quickly.

**WARNING:** Secure the discharge hose before plugging in the pump. An unsecured discharge hose may “whip” possibly causing personal injury, and/or property damage.

- Securely attach the hose kit (not included) to the check valve.



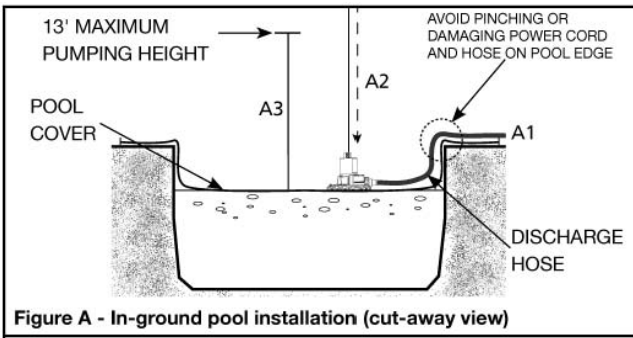
## 4. Setting the pump on the pool cover

- With pump unplugged set the pump on the pool cover, where water will collect. Do not set the pump directly on mud, sand surfaces or in leaves.

**NOTE:** For best results make sure the pump strainer is making full contact with a clean area of the pool cover. This will allow the strainer to properly filter debris and help prevent clogging of the pump. If necessary clear an area of the pool cover before placing the pump.

**NOTE:** Do not place the pump on a weak, damaged, or leaking pool cover. Placing the pump on a damaged pool cover could cause the cover to give way, or could allow the pump to remove treated swimming water from the pool in addition to rainwater.

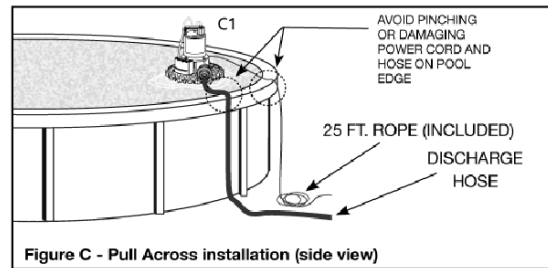
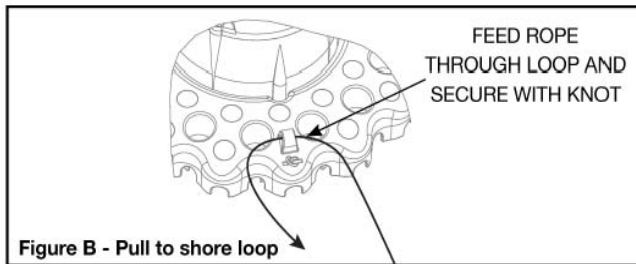
## Drop-in pump application



- A1. Place hose end away from pool, where water will be displaced.
- A2. Attached provided 25ft. rope to handle of pump, and lower pump onto pool cover where water will collect.
- A3. Do not exceed the 13ft. maximum pumping height for this pump or switch may not function properly. Plug in pump to allow for automatic operation.
- For removal unplug pump and retrieve using rope.

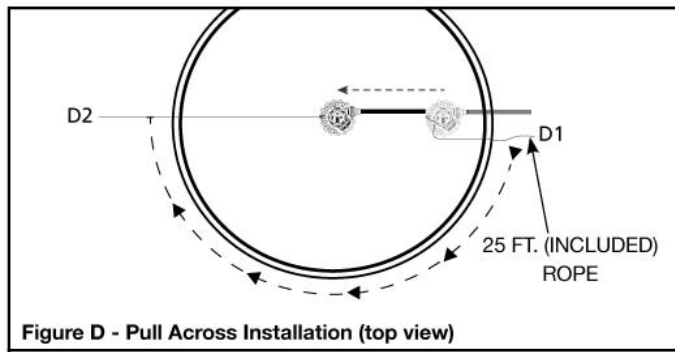
## Pull across pump installation

To aid in pump placement on pool cover, secure provided 25 ft. rope to the pull to shore loop( Figure B).



C1. Connect provided 25ft. rope to pull to shore loop (Figure B).

C2. Place pump on pool cover near edge of pool (Figure C). If flotation device is used, place pump at the lowest point on the pool cover where water will collect.

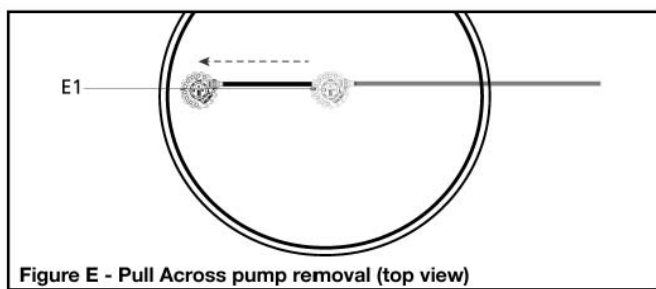


D1. Holding the provided 25 ft. rope, walk around pool until you are even with the pump on the opposite side.

D2. Pull the 25 ft. rope towards you until the pump is in the center of the pool cover where water will collect. Secure rope for easy removal (Figure E) when weather permits.

**Note:** Always use debris strainer when placing pump on a pool cover. The strainer helps protect the pool cover from damage, filters debris, and increases pump stability.

## Pull across- pump removal



E1. Disconnect power to pump. Using the included 25ft. rope, safely pull pump to edge of pool, disconnect discharge hose and remove.

# OPERATION

**NOTE:** For best pump performance, unwind the hose before starting the pump. This will help remove any kinks or binds in the hose and allow the unit to pump with less restriction.

1. The water level must be at least 2" for the pump to cycle, prime, and operate. Water levels less than 2" will not allow the impeller to contact water therefore no water will be pumped.
2. Plug the pump into a properly grounded 115 volt GFCI protected outlet. The pump will start automatically when the water reaches a depth of 2". A priming delay of 2 seconds is programmed into the control to allow time for air to escape from the pumping chamber.

**CAUTION:** Use caution when positioning the pump not to damage the power cord by dragging across the edge of the pool. Also take into consideration the placement of the discharge hose and power cord after installation. Make sure no sharp edge can damage the power cord or discharge hose causing unsafe conditions.

3. The pump will stop automatically once water has been removed to a depth of approximately 3/4". The pump will NOT restart until the water depth rises to 2" or greater.
4. The pump will NOT allow itself to run dry. Once the pump detects that water is no longer being removed, it will shut down automatically. The pump must remain upright at all times in order for the water detection to function. Do NOT allow the pump to operate on its side or inverted. The shaft seal depends on water for lubrication, allowing the pump to remain in any other orientation than upright could cause shaft seal failure or pump failure.

**NOTE:** Do NOT alter the pump to override the automatic water detector. The shaft seal depends on water for lubrication. Overriding this pump feature CAN cause the pump to run dry and MAY damage the shaft seal and cause pump failure.

# CARE AND CLEANING

**WARNING:** Pump starts automatically. Always disconnect electric supply before attempting to install, service, relocate, or perform any maintenance.

**CAUTION:** Always use the handle to lift the pump. Never use the power cord to lift the pump. To avoid skin burns, unplug the pump and allow time for it to cool after periods of extended use.

## Do

- When the power is disconnected, inspect the pump inlets and remove all debris, then plug the pump back into the grounded (GFCI) outlet.

## Do Not

- Disassemble the motor housing. This motor has NO repairable internal parts, and disassembly may cause leakage or dangerous electrical wiring issues.
- Lift up the pump by the power cord.

Minimal service is required for this pump. The motor housing of the pump is completely sealed and requires no service. If pump should fail to operate, perform the following troubleshooting guidelines:

1. Verify pumping height does NOT exceed 15'. If pumping height is greater than 15', this pump's automatic feature will not operate correctly.
2. Verify water depth is 2" or greater.
3. To verify pump is operating correctly.
  - a. Disconnect pump from power source.
  - b. Connect check valve and discharge hose to pump.
  - c. Immerse pump in a bucket or tub of water at least 2" in depth.
  - d. Place the other end of the discharge hose outside the bucket, so the water will pump out.
  - e. Plug power cord into a grounded 115 volt GFCI power outlet. The pump should start after 2 seconds of detecting water. Once the pump removes the water to a depth of 3/4", the pump will stop automatically.

4. To verify discharge hose is free from a blockage.
  - a. Connect hose to another water source such as a faucet. If water flows through hose, return to step 3a. If water is restricted, verify discharge hose is unwound and remove all kinks, bends, or obstructions in hose.
5. If pump runs continuously, unplug the unit. Once unplugged, remove the strainer and check for debris stuck inside the sensor body. Remove any trapped leaves, debris or dirt.
6. When temperatures drop below freezing remove pump from service and store indoors to protect pump from damage due to ice. The pump has a unique protection circuit to protect the motor from a locked impeller condition possibly caused by debris buildup or from a “frozen” impeller situation caused by ice formation. When the pump is activated and a locked impeller condition is detected the unit will automatically shut down to protect the motor from overheating. Once the pump is able to operate correctly the pump will resume normal operation.

**DANGER: Do not use pump if any part of the switch housing or probe is cracked, broken or missing.**

## PUMPING HEIGHT

When water is pumped to an elevated position, any volume that has not reached the discharge outlet can flow back through the pump when the pump shuts off. This back-flow can cause the water level in small areas to rise enough to re-start the pump. The check valve included is required in this situation. For proper operation, make certain the check valve is oriented as instructed on check valve body.

# TROUBLESHOOTING

**DANGER: Electrocutation Hazard! Pump starts automatically. Disconnect the power before attempting any repairs. Failure to follow WILL result in serious injury or death.**

Problem	Possible Cause	Corrective Action
Pump will not start or run	<ol style="list-style-type: none"> <li>1. Tripped home electrical breaker</li> <li>2. GFCI tripped</li> <li>3. Low line voltage</li> <li>4. Defective motor</li> <li>5. Dirty switch</li> <li>6. Impeller obstructed</li> <li>7. Inlet screen or strainer clogged</li> <li>8. Priming hole plugged</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset breaker</li> <li>2. Check for damaged wiring or moisture</li> <li>3. Contact electrician</li> <li>4. Replace pump</li> <li>5. Rinse out switch with clean water</li> <li>6. Remove strainer, base, and impeller plate check for debris; clean</li> <li>7. Clean inlet screen and debris strainer)</li> <li>8. Clean hole, inside volute housing, with a pin or paper clip</li> </ol>
Pump starts and stops too often	<ol style="list-style-type: none"> <li>1. Backflow of water from piping</li> <li>2. Dirty switch</li> <li>3. Priming hole plugged</li> <li>4. Pump is sitting uneven on pool or spar cover</li> </ol>	<ol style="list-style-type: none"> <li>1. Install or replace check valve</li> <li>2. Rinse out switch with clean water</li> <li>3. Clean hole, inside volute housing, with a pin or paper clip</li> <li>4. Reposition pump so pump sits level on cover</li> </ol>
Pump will not shut off or runs continuously	<ol style="list-style-type: none"> <li>1. Debris in switch</li> <li>2. Discharge height exceeds capability</li> </ol>	<ol style="list-style-type: none"> <li>1. Rinse out switch with clean water</li> <li>2. Reduce discharge height</li> </ol>
Pump operates but delivers little or no water	<ol style="list-style-type: none"> <li>1. Impeller obstructed</li> <li>2. Priming hole plugged</li> <li>3. Obstructed hose</li> <li>4. Discharge height exceeds capability</li> <li>5. Strainer clogged</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove strainer, base, and impeller plate, check for debris; clean</li> <li>2. Clean hole, inside volute housing, with a pin or paper clip</li> <li>3. Check for kinks, reposition hose or check for debris</li> <li>4. Reduce discharge height</li> <li>5. Unplug pump. Remove strainer and rinse with clean water to remove debris.</li> </ol>



# WARRANTY

## K2 Pumps Limited Warranty

### WHAT THIS WARRANTY COVERS

This Limited Warranty is effective September 1, 2020 and replaces all undated warranties dated prior to September 1, 2020.

K2 Pumps (K2) warrants to the original consumer purchaser (You) that its products are free from original defects in material and workmanship for at least one year (warranty varies depending on model; see box or K2 website for specific warranty information) from the date of purchase (the Warranty Period). Repair Parts and Accessories are warranted for 90 days from the date of purchase. During the Warranty Period, K2 will repair or replace, at no cost to you, products that have been examined by K2 and found to be defective in materials or workmanship.

***Do not return product to the retail store.***

***For technical support and parts, call K2 Customer Service at 844-242-2475.***

### WHAT THIS WARRANTY DOES NOT COVER

This Warranty does not cover use of the product in a non-residential application, improper installation and/or maintenance of the product, damage due to misuse, acts of God, nature, vandalism or other acts beyond control of K2, owner's acts or omissions, use outside the country in which the product was initially purchased and resale of the product by the original owner. This warranty does not cover pick up, delivery, transportation or house calls. However, if you mail your product to a K2 Sales and Service Center for warranty service, cost of shipping will be paid one way. This warranty does not apply to products purchased outside of the United States, including its territories and possessions, outside of U.S. Military Exchange and outside of Canada. This warranty does not cover products purchased from a party that is not an authorized retailer, dealer or distributor of K2 products.

### OTHER IMPORTANT TERMS

This warranty is not transferable and may not be assigned. This Warranty shall be governed and construed under laws of the state of Michigan. The Warranty Period will not be extended by any replacement or repair performed under this Warranty. THIS WARRANTY IS THE EXCLUSIVE WARRANTY AND REMEDY PROVIDED BY K2. ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OR MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, ARE DISCLAIMED. IN NO EVENT WILL K2 BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURE TO OWNER OR ANY PARTY CLAIMING THROUGH OWNER WHETHER BASED IN CONTRACT, NEGLIGENCE, TORT, OR STRICT PRODUCTS LIABILITY OR ARISING FROM ANY CAUSE WHATSOEVER. Some states do not allow for the exclusion of consequential damages, so the above exclusion may not apply to you. This warranty gives you specific rights. You may also have other rights that vary from state to state.

**GP Enterprises Co., Ltd. 1436 Brook Drive, Downers Grove, IL 60515**

**Phone: 844-242-2475 / Web: [www.K2Pumps.com](http://www.K2Pumps.com)**