



PUMP POOL ABOVE GROUND 1.5HP SINGLE SPEED

ITEM # 75125



OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL. KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL, OR THE MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO SERIAL NUMBER

FOR QUESTIONS, PLEASE CALL CUSTOMER SERVICE: 909.628.0880

SAFETY INFORMATION

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in injury and/or property damage. Save all warnings and instructions for future reference. Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in injury and/or property damage. Save all warnings and instructions for future reference.

SAVE THIS INSTRUCTION MANUAL

ATTENTION INSTALLER – THIS MANUAL CONTAINS IMPORTANT INFORMATION ABOUT THE INSTALLATION, OPERATION, AND SAFE USE OF THIS PUMP THAT MUST BE FURNISHED TO THE END USER OF THIS PRODUCT. FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS COULD RESULT IN SERIOUS INJURY.

WARNING – This product should be installed and serviced only by a qualified professional.

WARNING – To reduce risk of injury, do not permit children to use or climb on this product. Closely supervise children at all times. Pumps must be positioned to prevent children from using them as a means of access to the pool.

CAUTION – Though this product is designed for outdoor use, it is strongly advised to protect the electrical components from the weather. Select a well-drained area, one that will not flood when it rains. It requires free circulation of air for cooling. Do not install in a damp or on ventilated location. If installed within an outer enclosure or beneath the skirt of a hot tub or spa, adequate ventilation and free circulation of air must be provided to prevent overheating of the motor.

WARNING – Pool and spa components have a finite life. All components should be inspected frequently and replaced at least every ten years, or if found to be damaged, broken, cracked, missing, or not securely attached.

WARNING – Risk of Electric Shock.

Hazardous voltage. Can shock, burn, or cause death. To reduce the risk of electric shock, do NOT use an

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extension cord to connect unit to electric supply. Provide a properly located outlet. It is required that licensed electricians do all electrical wiring. All electrical wiring **MUST** be in conformance with applicable local and national codes and regulations. Before working on pump or motor, disconnect motor wiring.

WARNING – To reduce the risk of electric shock, replace damaged cord immediately. **DO NOT** bury cord. Locate cord to prevent abuse from lawn mowers, hedge trimmers and other equipment.

WARNING – Connect only to a grounding type receptacle protected by a Ground Fault Circuit Interrupter (GFCI). Contact a licensed electrician if you cannot verify that the receptacle is protected by GFCI.

WARNING – Failure to bond pump to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, see installation instructions and consult a professional electrician on how to bond pump. Also, contact a licensed electrician for information on local electrical codes for bonding requirements.

Use a solid copper conductor, size 8 or larger. Run a continuous wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) solid copper bonding wire to the pressure wire connector provided on the motor housing and to all metal parts of swimming pool, spa, or hot tub, and to all electrical equipment, metal piping (except gas piping), and conduit within 5 ft. (1.5m) of inside walls of swimming pool, spa, or hot tub.

IMPORTANT - Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and other general wiring procedures.

NOTE - The National Electrical Code (NEC) permits use of a cord with a maximum 3 ft. (1 m) length. If your pump is equipped with a cord complying with the NEC, the preceding four (4) hazards apply.

WARNING – Suction Entrapment Hazard.

Suction in suction outlets and/or suction outlet covers, which are damaged, broken, cracked, missing, or unsecured cause severe injury and/or death due to the following entrapment hazards:

Hair Entrapment- Hair can become entangled in suction outlet cover.

Limb Entrapment- A limb inserted into an opening of a suction outlet sump or suction outlet cover that is damaged, broken, cracked, missing, or not securely attached can result in a mechanical bind or swelling of the limb.

Body Suction Entrapment- A pressure applied to a large portion of the body or limbs can result in an entrapment.

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Evisceration/ Disembowelment- A negative pressure applied directly to the intestines through an unprotected suction outlet sump or suction outlet cover which is damaged, broken, cracked, missing, or unsecured can result in evisceration/disembowelment.

Mechanical Entrapment- There is potential for jewelry, swimsuits, hair decorations, fingers, toes, or knuckles to be caught

in an opening of a suction outlet cover resulting in mechanical entrapment.

WARNING – To Reduce the risk of Entrapment Hazards:

- When outlets are small enough to be blocked by a person, a minimum of two functioning suction outlets per pump must be installed. Suction outlets in the same plane (i.e. floor or wall), must be installed a minimum of three feet (3') [0.91 meter] apart, as measured from near point to near point.
- Dual suction fittings shall be placed in such locations and distances to avoid “dual blockage” by a user.
- Dual suction fittings shall not be located on seating areas or on the backrest for such seating areas.
- The maximum system flow rate shall not exceed the values shown in the “Pipe Sizing Chart” found at the bottom of page 4 of this manual.
- Never use pool or spa if any suction outlet component is damaged, broken, cracked, missing, or not securely attached
- Replace damaged, broken, cracked, missing, or not securely attached suction outlet components immediately.
- In addition to two or more suction outlets per pump installed in accordance with ASME, APSP standards and CPSC guidelines, follow all national, state, and local codes applicable.
- Installation of a vacuum release or vent system, which relieves entrapping suction, is recommended.

WARNING – Hazardous Pressure.

Pool and spa water circulation systems operate under hazardous pressure during start-up, normal operation, and after pump shut-off. Stand clear of circulation system equipment during pump start-up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged. All suction and discharge valves **MUST** be **OPEN** when starting the circulation system.

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Failure to do so could result in severe personal injury and/or property damage.

WARNING – Separation Hazard.

Failure to follow safety and operation instructions could result in violent separation of pump components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter air relief valve body is in locked position in filter upper body. All suction and discharge valves **MUST** be **OPEN** when starting the circulation system.

Failure to do so could result in severe personal injury and/or property damage.

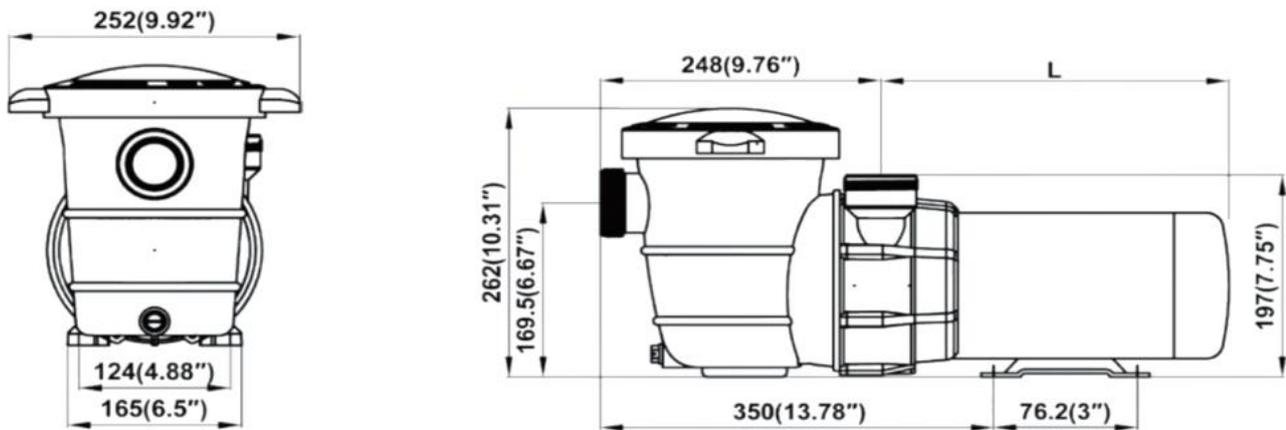
WARNING – Never operate or test the circulation system at more than 40 PSI.

WARNING – Fire and burn hazard.

Motors operate at high temperatures and if they are not properly isolated from any flammable structures or foreign debris they can cause fires, which may cause severe personal injury or death. It is also necessary to allow the motor to cool for at least 20 minutes prior to maintenance to minimize the risk for burns.

WARNING – Failure to install according to defined instructions may result in severe personal injury or death.

Dimensions



Pump Location

Locate pump as close to pool as practical and run suction lines as direct as possible to reduce friction loss. Suction lines should have continuous slope upward from lowest point in line. Joints must be tight (but not over-tightened). Suction line diameter must equal or be larger than the discharge line diameter. Locate pump below pool water line will gain a best performance.

Pump Mounting

Install pump on a firm, level base or pad to meet all local and national codes. Fasten pump to base or pad with screws or bolts to further reduce vibration and stress on pipe or hose joints. The base **MUST** be solid, level, rigid, and vibration free.

Pump mount must:

Allow pump inlet height to be as close to water level as possible.

- Allow use of short, direct suction pipe (to reduce friction losses).
- Allow for gate valves in suction and discharge piping.
- Be protected from excess moisture and flooding.
- Allow adequate access for servicing pump and piping.

Pipe Sizing Chart

NOTE - It is recommended that a minimum length of piping, equivalent to 10 pipe diameters, be used between the pump suction inlet and any plumbing fittings.

WARNING – Hazardous Pressure.

Pumps, filters, and other equipment/ components of a swimming pool filtration system operate under pressure. Incorrectly installed and/or improperly tested filtration equipment and/or components may fail resulting in injury and/or property damage.

Plumbing

Use **Teflon tape** to seal threaded connections on molded plastic components. All plastic fittings must be new or thoroughly cleaned before use. **NOTE - Do NOT use Plumber's Pipe Dope as it may cause cracking of the plastic components.** When applying **Teflon tape** to plastic threads, wrap the entire threaded portion of the male fitting with one to two layers of tape. Wind the tape clockwise as you face the open end of the fitting, beginning at the end of the fitting. The pump suction and outlet ports have molded-in thread stops. **Do NOT attempt to force hose connector fitting past this stop.** It is only necessary to tighten fittings enough to prevent leakage. Tighten fitting by hand and then use a tool to engage fitting an additional 1 ½ turns. Use care when using Teflon tape as friction is reduced considerably; **do NOT over-tighten fitting or you may cause damage.** If leaks occur, remove connector, clean off old Teflon tape, re-wrap with one to two additional layers of Teflon tape, and re-install connector.

MAXIMUM RECOMMENDED SYSTEM FLOW RATE BY PIPE SIZE

Pipe Size	Flow rate	Pipe Size	Flow rate	Pipe Size	Flow rate
[mm]	GPM [Liter/Min]	[mm]	GPM [Liter/Min]	[mm]	GPM [Liter/Min]
1"	20	1 ½"	45	2 ½"	110
[32]	[75]	[50]	[170]	[75]	[415]
¾"	30	2"	80	3"	160
[40]	[110]	[63]	[300]	[90]	[600]

INSTALLATION

Fittings restrict flow. For better efficiency, use the fewest possible fittings (but at least two suction outlets). Avoid fittings that could cause an air trap. Pool and spa fittings **MUST** conform to the International Association of Plumbing and Mechanical Officials (IAPMO) standards. Use a non-entrapping suction fitting in pool (multiple drains) or double suction (skimmer and main drain).

Electrical

WARNING – Ground and bond motor before connecting to electrical power supply. Failure to ground and bond pump motor can cause serious or fatal electrical shock hazard.

WARNING – Do NOT ground to a gas supply line.

WARNING – To avoid dangerous or fatal electrical shock, turn OFF power to motor before working on electrical connections.

WARNING – Ground Fault Circuit Interrupter (GFCI) tripping indicates electrical problem. If GFCI trips and won't reset, consult electrician to inspect and repair electrical system.

WARNING – Fire Hazard.

Match supply voltage to motor nameplate voltage.

Ensure that the electrical supply available agrees with the motor's voltage, phase, and cycle, and that the wire size is adequate for the H.P. (KW) rating and distance from the power source. **NOTE - All electrical wiring MUST be performed by a licensed electrician, and MUST conform to local codes and NEC regulations.** Use copper conductors only.

60Hz, 1 PH				
HP	KW	Voltage	Amps	Wire Size
1/2	0.38	115	7.3	14 AWG
3/4	0.50	115	9.2	14 AWG
1	0.75	115	12	14 AWG
1-1/2	1.15	115	15	14 AWG

Voltage

Voltage at motor **MUST NOT** be more than 10% above or below motor name plate rated voltage, or motor may overheat, causing overload tripping and reduced component life. If voltage is less than 90% or more than 110% of rated voltage when motor is running at full load, consult Power Company.

Grounding And Bonding

Install, ground, bond, and wire motor in accordance with local or national electrical code requirements.

Permanently ground motor. Use green ground terminal provided under motor canopy or access place; use size and type wire required by code. Connect motor ground terminal to electrical service ground. Bond motor to pool structure. Bonding will connect all metal parts within and around the pool with a continuous wire.

Bonding reduces the risk of a current passing between bonded metal objects, which could potentially cause electrical shock if grounded or shorted. **Reference NEC codes for all wiring standards including, but not limited to, grounding, bonding and general wiring procedures.**

Use a solid copper conductor, size 8 or larger. Run wire from external bonding lug to reinforcing rod or mesh. Connect a No. 8 AWG (8.4 mm²) solid copper bonding wire to the pressure wire connector provided on the motor housing and to all metal parts of swimming pool, spa, or hot tub, and to all electrical equipment, metal piping (except gas piping), and conduit within 5 ft. (1.5 m) of inside walls of swimming pool, spa, or hot tub.

Wiring

If other lights or appliances are also on the same circuit, be sure to add their amp loads before figuring wire and circuit breaker sizes. (NOTE: If unsure how to do this or if this is confusing, consult a licensed electrician). Use the load circuit breaker as the Master On-Off switch. NOTE: If you do not use conduit when wiring motor, be sure to seal wire opening on end of motor to prevent dirt, bugs, etc., from entering.

Start-Up & Operation

Selecting Pump's Discharge Position (4 Steps)

This pump can be easily positioned for horizontal or vertical water discharge.

Step 1: Remove ALL plumbing attached to pump.

Step 2: Remove strainer housing.



INSTALLATION

- Disengage and lift off strainer cover.
- Remove strainer basket.
- Lift up on strainer 'C' clip (JR03703004 in parts listing on Page13) and remove.
- Slide strainer housing forward and remove.

□

Step 3: Press positioning button located on pump housing and rotate discharge port to desired position.

NOTE: Discharge port will only rotate ¼ turn.

Step 4: Assemble the pump by following the above directions in the reverse manner.

Prior to Start-Up

Fill strainer housing with water to suction pipe level. **NEVER OPERATE THE PUMP WITHOUT WATER.**

Water acts as a coolant and lubricant for the mechanical shaft seal.

Notice: If it is necessary to perform a pressure test, prior to initial use to ensure pump is functioning properly, then the following criteria should be maintained for this test:

1. Have a professional perform this test.
2. Ensure all pump and system components are sealed properly to prevent leaks.
3. Remove any trapped air in the system by fully opening filter manual air relief valve until a steady stream of water is discharged.
4. Allow no more than 40 psi (276 kPa) at a water temperature no higher than 100° F (38° C).
5. Run pressure test for no longer than 24 hours. Immediately inspect all parts to verify they are intact and functioning properly.

WARNING – If pump is being pressure tested (40 PSI MAXIMUM), be sure pressure has been released before removing strainer cover.

CAUTION – NEVER run pump dry. Running pump dry may damage seals, causing leakage, flooding, and voids warranty. Fill strainer housing with water before starting motor.

ATTENTION – DO NOT add chemicals to pool/spa system directly in front of pump suction.

INSTALLATION

ATTENTION – Before removing strainer cover:

1. **STOP PUMP** before proceeding.
2. **CLOSE VALVES** in suction and outlet pipes.
3. **RELEASE ALL PRESSURE** from pump and piping system.

Priming Pump

CAUTION – All suction and discharge valves **MUST** be **OPEN**, as well as filter air relief valve (if available) on filter, when starting the circulating pump system. Failure to do so could result in severe personal injury.

Release all pressure from filter, pump, and piping system. If water source is higher than the pump, pump will prime itself when suction and outlet valves are opened. If water source is lower than the pump, unscrew and remove strainer cover; fill strainer housing with water. Turn clockwise to tighten strainer cover.

NOTE - Tighten strainer cover by hand only (no wrenches).

Turn on power and wait for pump to prime, which may take up to five (5) minutes. Priming time will depend on vertical length of suction lift and horizontal length of suction pipe. If pump does **NOT** prime within five minutes, stop motor and determine cause. Be sure all suction and discharge valves are open when pump is running. **See Troubleshooting Guide.**

ATTENTION – Wait five (5) seconds before re-starting pump. Failure to do so may cause reverse rotation of motor and consequent serious pump damage. Close filter manual air relief valve after pump is primed.

MAINTENANCE

- Clean strainer basket regularly. Do NOT strike basket to clean. Inspect strainer cover gasket regularly and replace as necessary. Pumps have self-lubricating motor bearings and shaft seals. No lubrication needed.

Keep motor clean. Insure air vents are free from obstruction to avoid damage. Do NOT use water to hose off motor.

Occasionally, shaft seals must be replaced, due to wear or damage. Replace with genuine seal assembly kit. See “Shaft Seal Change Instructions” in this manual.

Storage

WARNING – Separation Hazard.

Do not purge the system with compressed air. Purging the system with compressed air can cause components to explode, with risk of severe injury or death to anyone nearby. Use only a low pressure (below 5 PSI), high volume blower when air purging the pump, filter, or piping.

ATTENTION – Allowing the pump to freeze will void the warranty.

ATTENTION – Use ONLY propylene glycol as antifreeze in your pool/spa system. Propylene glycol is

nontoxic and will not damage plastic system components; other anti-freezes are highly toxic and may damage plastic components in the system.

Drain all water from pump and piping when expecting freezing temperatures or when storing pump for a long time (see instructions below).

Keep motor dry and covered during storage. To avoid condensation/corrosion problems, do NOT cover or wrap pump with plastic film or bags.

Winterization

Shaft Seal Change Instructions

IMPORTANT SAFETY INSTRUCTIONS

PLEASE READ AND FOLLOW ALL INSTRUCTIONS

When servicing electrical equipment, basic safety precautions should always be observed including the following. Failure to follow instructions may result in injury.

ATTENTION

- A. Disconnect all electrical power service to pump before beginning shaft seal replacement.
- B. Only qualified personnel should attempt rotary seal replacement. Contact your local authorized Dealer or service center if you have any questions.
- C. Exercise extreme care in handling both the rotating and the stationary sections of the two-part replacement seal. Foreign matter or improper handling will easily scratch the graphite and ceramic sealing surfaces.

Follow instructions

1. Remove the strainer by disengaging and removing the strainer cover. Remove the basket. Lift up on strainer 'C' clip and remove. Finally, slide strainer housing forward and remove.
2. Unscrew eight (8) screws and remove pump cover, exposing the impeller.
3. Remove the canopy or the shaft cover plate from the end of motor opposite the impeller.
4. Hold the motor shaft securely by either inserting a screwdriver in slot at end of shaft or by using an open-end wrench to engage the flat surfaces provided near end of motor shaft. Rotate the impeller in a counterclockwise direction and remove it from the motor shaft.
5. Note how the steel spring section of the old seal is positioned on impeller hub and remove it by pulling from the impeller.
6. Loosen four (4) motor through bolts from the back of motor and remove pump housing/shroud from the front of the motor.
7. Remove the ceramic stationary portion of the old seal by pressing the white ceramic seat out of the pump housing recess. If assembly is tight, tap lightly from the "motor" side.
8. Clean and lubricate the impeller stem and the pump housing recess with a dilute solution of non-granulated liquid type soap. Do not use petroleum or silicone lubricants as these can contribute to seal leakage.

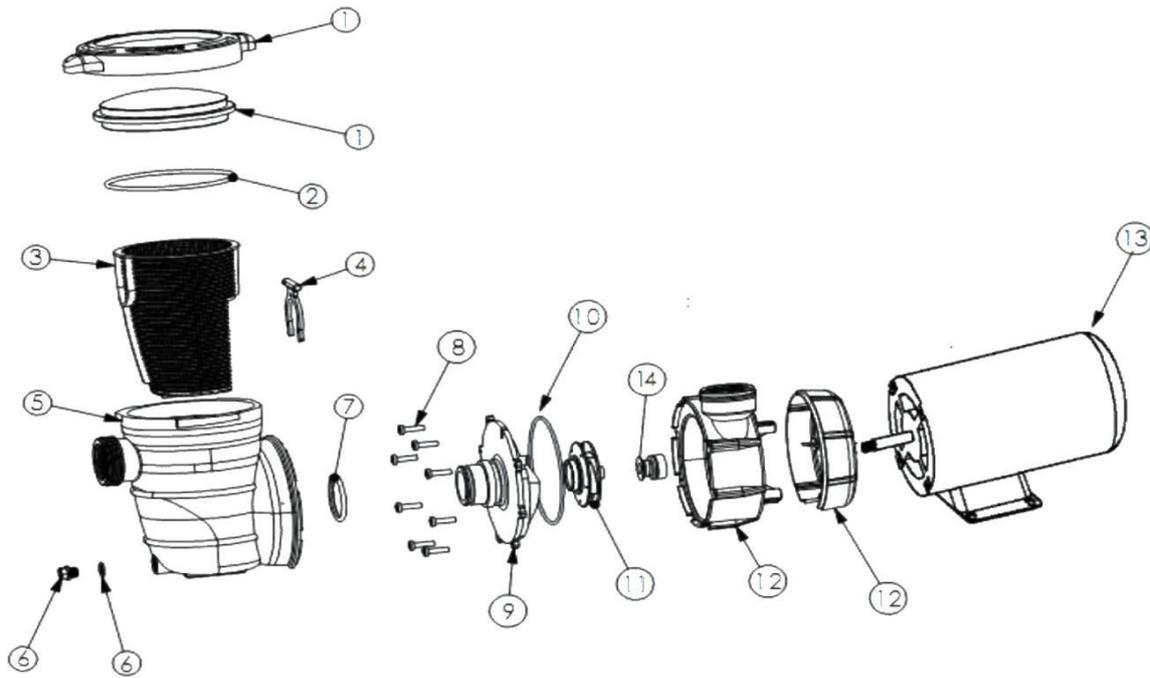
Seal Replacement

- 9.** Press the new rotating portion of the seal assembly onto the impeller stem with the polished black graphite surface facing away from the impeller.
- 10.** Carefully press the stationary ceramic portion of the seal into the recess of the pump housing/shroud, with the polished flat surface facing out.
- 11.** Carefully insert the motor shaft through the pump housing/shroud and align with white ceramic stationary seal assembly in place and secure the motor to pump housing/shroud with four (4) motor through bolts removed in step #7. Be sure motor base and pump discharge port are positioned properly. Alternately tighten the motor through bolts until the pump housing is secure. Make certain motor shaft turns freely before proceeding.
- 12.** Screw the impeller (clockwise) with the rotating portion of seal in place onto the motor shaft. Hand-tighten the impeller in place.
- 13.** Clean (replace if necessary) the O-ring and replace on pump cover. Assemble the pump cover to the pump housing/ shroud with the eight (8) screws removed in step #3. Tighten screws alternately and evenly.
- 14.** Re-assemble strainer by sliding strainer housing onto pump cover. Install strainer 'C' clip by pushing clip down onto grooved pump cover coupling. Insert basket and fasten strainer cover.

TROUBLESHOOTING

ISSUE	POSSIBLE SOLUTION
MOTOR WILL NOT START	Improper or loose wiring connections; open switches or relays; tripped circuit breakers, GFCI's, or blown fuses.
	Manually check rotation of motor shaft for free movement and lack of obstruction.
	If you have a timer, be certain it is working properly. Bypass it if necessary.
MOTOR SHUTS OFF	Undersized wiring; loose connections; etc.
	Low voltage at motor or power drop (frequently caused by undersized wiring or extension cord use).
	Mechanical binding and electrical overload.
MOTOR HUMS BUT DOES NOT START	Centrifugal switch stuck in OPEN position.
	Binding of motor shaft.
PUMP WON'T PRIME	Make sure pump/strainer housing is filled with water and the cover O-ring is clean, also be sure it is properly seated in the cover O-ring groove. Make sure strainer cover is locked firmly in position and lubricated with "Jack's 327".
	Make sure all suction and discharge valves are fully open and not blocked, that pool water level is at proper level, and that skimmer weir is not hung up or stuck on skimmer wall.
	Block off to determine if pump will develop a vacuum. You should have 5"-6" of vacuum at the strainer cover. You may be able to check by removing the skimmer basket and holding your hand over the bottom port with skimmer full and pump running. If no suction is felt, check for line blockage.
	A. If pump develops a vacuum, check for blocked suction line or dirty strainer basket, and air leak in the suction piping may be the cause.
	b. If pump does not develop a vacuum and pump has sufficient "priming water": <ul style="list-style-type: none"> i. Re-check strainer housing cover and all threaded connections for suction leaks. Check if all hose clamps are tight. ii. Check voltage to ensure that the motor is rotating at full RPM's. iii. Open housing cover and check clogging or obstruction in suction. Check impeller for debris. iv. Remove and replace shaft seal only if it is leaking.
LOW FLOW	Clogged or restricted strainer or suction line; undersized pool piping.
	Plugged or restricted discharge line or filter, valve partially closed (high gauge reading). How to correct: Sand filters - backwash as per manufacturer's instructions; D.E. filters - backwash as per manufacturer's instructions; Cartridge filters - clean or replace cartridge.
NOISY PUMP	Vibration due to improper mounting, etc. Put a rubber pad under metal mounting feet.
	Foreign matter in pump housing. Loose stones/debris hitting impeller could be cause, remove any of the above.
	Motor bearings noisy from normal wear, rust, overheating, or concentration of chemicals causing seal damage which will allow chlorinated water to seep into bearings wiping out the grease causing bearing to whine. All seal leaks should be replaced at once.

PARTS INFORMATION



J03703 / J05503 / J07503 / J11503

No.	Description	Item#
1	Lid & Clamp Ring	JR05501001
2	O-Ring	JR05501002
3	Basket	JR05501003
4	Clip-bayonet	JR03703004
5	Strainer Casing	JR03703005
6	Drain Plug	JR03703006
7	Diffuser O-Ring	JR03703007
8	Screw	JR03703008
9	Diffuser	JR03703009
10	Pump Housing O-Ring	JR03703010
11	Impeller for J03703	JR03703011
	Impeller for J05503	JR05503011
	Impeller for J07503	JR07503011
	Impeller for J11503	JR11503011
12	Pump Housing	JR03703012
13	Motor for J03703	JM03703
	Motor for J05503	JM05503
	Motor for J07503	JM07503
	Motor for J11503	JM11503
14	Shaft Seal	JR05501014

DISCLAIMER

PLEASE READ THE FOLLOWING CAREFULLY

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Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

Questions, issues or missing parts?

Before returning to your retailer, our customer service team is here to help.



Call Us: 909.628.0880

Email Us: customer@xtremepowerusa.com

Hours of Operation: 9am - 3pm PST Monday - Friday

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