

ECOSUB SERIES - OWNER'S MANUAL

Dear Customer,

We congratulate you on the purchase of this quality pump from LEADER PUMPS. For its proper and trouble-free operation it's however important to carefully read through these operating instructions and to fully observe the given advices.

WARNING

- Conformity with local and State electric codes is mandatory. The National Electric Code requires that a ground fault circuit interrupter (GFCI) be used in the branch circuit supplying sump, utility, effluent and all fountain pumps, pool pumps and other pond equipment. Consult a licensed electrician or your power company if in doubt.
- This pump is supplied with a grounding conductor and a grounding type attachment plug.
- To reduce risk of electric shock, connect only to a properly grounded electrical circuit equipped with a ground fault interrupter device.
- Do not remove the grounding pin from the plug.
- This pump motor is designed for 115 Volt - 60 Hz operation. Be sure the supply voltage is the same. Motor is single voltage only.
- This pump is not designed, nor intended, for the pumping of chemicals or corrosive liquids. This will shorten the life of the unit, expose user to possible personal harm, and void the warranty.
- Never pump gasoline or other flammable liquids or operate in the areas where flammable or explosive fumes are present as fire or explosion could occur.
- Do not run the pump dry otherwise damage will result and void the warranty.
- Pump features and performances can be read on one side of its packaging.

CAUTION

- Always disconnect from electrical outlet before handling the pump.
- The pump can run continuously as long as water is pumped. If the unit runs more than 2 to 3 minutes without pumping water, damage to the shaft seal may occur. Warranty will be denied.
- Do not lift the pump by the power cord.
- Do not pump heated liquids. Max. temperature 35° C (100 ° F)
- Pump best operates in fresh water and completely submerged for proper cooling. The pump can run in shallow water for short periods as long as the inlet screen is totally submerged.
- At initial installation avoid that the pump lifts air.
- A clogged or dirty intake screen will greatly reduce performance. If the pump is used on a dirty surface, raise it slightly to reduce the amount of debris contacting the intake.
- If less flow is desired, restrict the discharge flow. Never restrict the pump's intake.

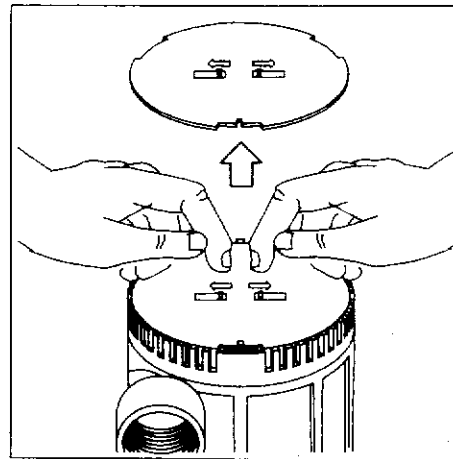
TROUBLESHOOTING

Problem	Causes	Solutions
The pumps does not run.	<ol style="list-style-type: none"> 1. Power cord unplugged 2. Impeller jammed 3. Floatswitch cannot lift or does not work (only in the automatic version) 	<ol style="list-style-type: none"> 1. Plug cord securely into the socket and check if there is voltage on the line. 2. Disconnect the power cord, remove the base plate and check if impeller is free to turn. 3. Check floatswitch by lifting it by hand.
The pump runs but does not deliver water.	<ol style="list-style-type: none"> 1. Water level under the min. suction level. 2. Remove air bubble in the pump, produced during the initial installation or if pump ran dry. 3. Suction screen clogged. 4. Discharge line clogged or obstructed. 5. Floatswitch is restricted. 	<ol style="list-style-type: none"> 1. Stop the pump. 2. Get the air out by submerging the pump while in a tilted position and shake it with the discharge tube open. 3. Disconnect the power cord, clean the screen by a strong water jet. 4. Take off the discharge line and clean it. 5. Check to see floatswitch can rise and fall without restriction.
The pump stops running automatically.	<p>The thermal overload protection system stopped the pump due to the following possibilities :</p> <ul style="list-style-type: none"> • A foreign object has jammed the hydraulic installation. • The pump was used in hot water. • The pump ran dry. 	<p>Disconnect the power cord, correct the reason for overheating and wait until the pump is cooled. Then plug in the cord and resume operation.</p>

MAINTENANCE

To clean the intake, remove the base plate by pulling the two tabs away from each other and lifting as shown. When replacing the base plate push the two tabs towards each other until they snap in place. Further disassembling of the pump is not required and will void the warranty.

Remember this pump has built-in overload protection and will shut itself off to prevent overheating. **This is not pump failure or a manufacturing defect. Allows motor to cool before trying to pump again.**



1 - YEAR LIMITED WARRANTY

All LEADER pumps are warranted to the user against defective material and workmanship under normal use for a period of 12 months from the date of purchase by the original purchaser. Replacement liability in all events is limited to the replacing or repairing at LEADER'S sole discretion of any part or parts which are defective in material or workmanship. **Proof of purchase is required on all claims in the form of invoice copy, sales ticket, etc.**

APPLICATION: Warranty covers only properly installed and maintained units. Warranty is limited to application at normal temperature (up to 35°C or 100°F) pumping fresh water.

SITUATIONS NOT COVERED: this limited warranty does not cover product failures resulting from the following :

- handling flammable liquids, solvents, strong chemicals or severe abrasive solutions ;
- handling liquids hotter than product rating
- normal wear
- commercial or industrial use
- running pumps dry

All warranties are voided if alterations are made to the electric cord or plug or if pump is wholly or partially disassembled beyond instructions in troubleshooting section.

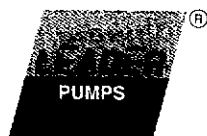
ADMINISTRATION: Warranty claims must be made by returning the defective LEADER pump freight prepaid, along with proof of purchase, to : **LEADER PUMPS INC. - Customer Service Dept. - 3226 Benchmark Drive, Ladson, SOUTH CAROLINA 29456 - U.S.A.** - All items returned will be inspected to determine cause of failure before warranty is approved.

Before returning unit to store and to insure that your defective pump will be covered by warranty - call us at (803) - 797-5002. All items returned will be inspected to determine cause of failure before warranty is approved.

INSTALLATION and/or REMOVAL CHARGES: warranty does not cover any costs associated with the installation or removal of products subject to warranty claims. If products were damaged in transit, please file a claim with the carrier.

DISCLAIMER: Any oral statements about the product made by the seller, the manufacturer, the representatives or any other parties, do not constitute warranties, should not be relied upon the user and are not part of the contract for sale. Seller's and manufacturer's only obligation, and buyer's and user's only remedy, shall be for the manufacturer to either replace and/or repair at the manufacturer's sole discretion the LEADER product as described above. Neither seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss), arising from any cause whatsoever, no matter based upon warranty, contract, negligence or other misuse, and the buyer and user agree that no other remedy shall be available to them. Before using, the buyer and user shall determine the suitability of the product for the intended use, and assumes all risks and liability whatsoever in connection therewith.

The warranty and remedy described in this limited warranty is an **EXCLUSIVE** warranty and remedy and **IN LIEU** of any other warranty or remedy, expressed or implied, which other warranties and remedies are hereby expressly **EXCLUDED**, including but not limited to any implied warranty of **MERCHANTABILITY** or **FITNESS** for a **PARTICULAR PURPOSE**. This warranty gives buyer and user specific legal rights, and buyer and user may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply you.



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