

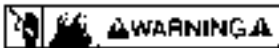
EN INTRODUCTION

This instruction sheet provides you with the information required to safely own and operate your product. Retain these instructions for future reference.

The product you have purchased is of the highest quality workmanship and material, and has been engineered to give you long and reliable service. These products are carefully tested, inspected, and packaged to ensure safe delivery and operation. Please examine your item(s) carefully to ensure that no damage occurred during shipment. If damage has occurred, please contact the place of purchase. They will assist you in replacement or repair, if required.

READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE, OR SERVICE YOUR PRODUCT. KNOW THE PRODUCT'S APPLICATION, LIMITATIONS, AND POTENTIAL HAZARDS. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

SAFETY GUIDELINES



Disconnect the pump from the power source before servicing or removing any component.

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in explosive atmospheres. Pump should only be used with liquids compatible with pump component materials.

Do not handle pump with wet hands or when standing on a wet or damp surface or in water.

This pump is supplied with a grounding conductor and/or grounding type attachment plug. To reduce the risk of electric shock, be certain that it is connected to a properly grounded, grounding-type receptacle.

In any installation where property damage and/or personal injury might result from an inoperative or leaking pump due to power outages, discharge line blockage, or any other reason, a backup system(s) and/or alarm should be used.

Support pump and piping when assembling and when installed. Failure to do so can cause piping to break, pump to fall, motor bearing failures, etc.

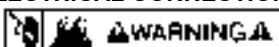
If pump is oil-filled, the motor housing is filled with a dielectric lubricant at the factory for optimum motor heat transfer and lifetime lubrication of the bearings. Use of any other lubricant could cause damage and void the warranty. This lubricant is non-toxic; however, if it escapes the motor housing, remove it from the surface quickly by placing newspapers or other absorbent material on the water surface to soak it up so aquatic life is undisturbed.

This pump has been tested using water only. The suitability of this pump for use with liquids other than water is the responsibility of the end-user.

This pump is not intended for permanent mounting to a building structure by bolting or similar means.

The National Electric Code (in the USA) and similar codes in other countries require a Ground Fault Circuit Interrupter (GFCI) to be installed in the branch circuit supplying fountain equipment rated above 15 volts. We recommend each pump be used with a GFCI.

ELECTRICAL CONNECTIONS



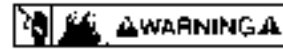
1. Check the pump label for proper voltage required. Do not connect to voltage other than that shown.
2. If pump is supplied with a 3-prong electrical plug, the third prong is to ground the pump to prevent possible electrical shock hazard. **DO NOT REMOVE** the third prong from the plug. A separate

branch circuit is recommended. Do not use an extension cord. Do not cut the plug from the cord; this will void the warranty.

3. If the cord is equipped with stripped lead wires, such as on 230v models, be sure that the lead wires are connected to the power source correctly. The green/yellow wire is the ground, and the blue (or white) and the brown (or black) are live.
4. All wiring should be performed by a qualified electrician.
5. **DO NOT** use sheet metal screws to secure the equipment grounding conductor.

CONSULT INSTRUCTION SHEET ILLUSTRATIONS FOR PROPER ASSEMBLY AND DISASSEMBLY OF YOUR PUMP.

OPERATION



WARNING: THE PUMP MOTOR IS EQUIPPED WITH AN AUTOMATIC RESETTING THERMAL PROTECTOR AND CAN RESTART UNEXPECTEDLY. PROTECTOR TRIPPING IS AN INDICATION OF MOTOR OVERLOADING AS A RESULT OF OPERATING THE PUMP AT LOW HEADS (LOW DISCHARGE RESTRICTION), EXCESSIVELY HIGH OR LOW VOLTAGE, INADEQUATE WIRING, INCORRECT MOTOR CONNECTIONS, OR A DEFECTIVE MOTOR OR PUMP.

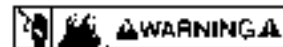
The motor is a continuous-duty type, sealed in oil with an automatic thermal overload protector device.

1. This pump is designed to operate completely submerged. It can be placed in any position, but preferably the volute should be located to the side. This will allow the motor to be completely covered with the dielectric oil.
2. If the surface is dirt or sand, place pump on a flat surface such as a piece of wood or metal to prevent it from being clogged.
3. The weight of the pump must be supported adequately. **DO NOT** support the pump by the intake or discharge connections alone.
4. Do not restrict the pump's intake. This can cause damage to the seal and can starve the pump. To reduce the flow rate, place a valve on the pump's discharge or, if flexible vinyl tubing is used, a clamp on the tubing.

The pump can run against a restricted discharge such as a fountain without damage to the pump.

5. The pump is cooled by the fluid that it moves. Do not let the pump operate dry. This can damage the seal and cause motor failure.
6. If the pump is going to be idle for an extended period, follow the cleaning instructions in the MAINTENANCE section. Do not let the pump freeze in the wintertime. This can cause cracking or distortion that will damage the pump.
7. If a fused-type plug is used on 230V pumps, a 5.0 amp fuse is recommended.

MAINTENANCE



WARNING: DISCONNECT THE PUMP FROM THE POWER SOURCE BEFORE SERVICING OR REMOVING ANY COMPONENT!

CAUTION: The pump's motor housing is completely sealed and requires no service. Disassembly of the motor housing or alteration of the power cord voids all warranty.

1. If the pump becomes clogged, remove the screen and clean out the area.
2. If necessary remove the screws holding the volute to the motor housing and clean the volute.
3. Reassemble the parts in reverse order, remembering to install the gasket between the volute and the motor housing.
4. Inspect the power cord to ensure that it is in good condition and has no nicks or cuts. **NOTE:** The power cord cannot be replaced. In case of damage the entire pump must be replaced.



| Part #556702 - Screen Assembly | |
|----------------------------------|-------------|
| Item No. | Description |
| 1A | Screw (2) |
| 1B | Screen |
| Part #556703 - Volute Assembly | |
| Item No. | Description |
| 2A | Screw (4) |
| 2B | Volute |
| 2C | Ring Gasket |
| Part #556701 - Impeller Assembly | |
| Item No. | Description |
| 2C | Ring Gasket |
| 3A | Impeller |
| 3B | E-Clip |

Table 1

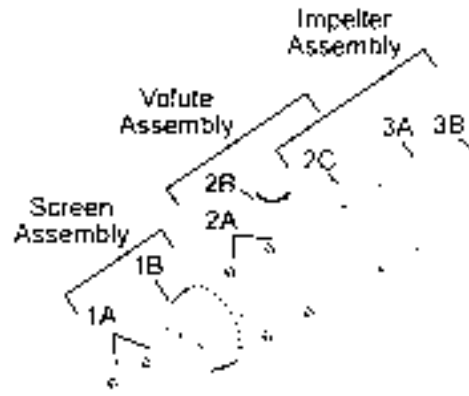


Figure 1

| TROUBLESHOOTING | | |
|--------------------------------|---|--|
| PROBLEM | PROBABLE CAUSES | CORRECTIVE ACTION |
| Pump fails to run. | No electricity or low voltage. | Be sure correct voltage is available. |
| | Impeller clogged. | Clean impeller. |
| | Motor has open circuit. | Replace pump. |
| Pump runs but no fluid flows. | Discharge height too great. | Lower the height. |
| | Inlet screen clogged. | Clean or replace. |
| | Discharge valve closed. | Open the valve. |
| | Air trapped in pump. | Purge to eliminate air. |
| | No water in reservoir. | Refill. |
| | Pump inlet located above liquid level. | Pump inlet must be below liquid level (flooded). |
| Flow rate is low. | Low voltage. | Be sure correct voltage is available. |
| | Impeller clogged. | Clean impeller. |
| | Inlet or discharge plumbing restricted. | Clean plumbing. |
| | Discharge plumbing undersized. | Replace with larger plumbing. |
| | Discharge height too great. | Lower the height. |
| Pump starts and stops pumping. | Impeller or inlet screen clogged. | Clean impeller and screen. |
| | Defect in motor. | Replace pump. |
| | Incorrect voltage or frequency. | Be sure correct voltage and frequency is supplied to pump. |

LIMITED WARRANTY

THIS WARRANTY SETS FORTH THE COMPANY'S SOLE OBLIGATION AND PURCHASER'S EXCLUSIVE REMEDY FOR DEFECTIVE PRODUCT.

Franklin Electric Company, Inc. and its subsidiaries (hereafter "the Company") warrants that the products accompanied by this warranty are free from defects in materials or workmanship of the Company that exist at the time of sale by the Company and which occur or exist within the applicable warranty period. Any distributor, sub-distributor, recipient, end-user and/or consumer agrees that by accepting the receipt of the products, the distributor, sub-distributor, recipient, end user and/or consumer expressly agrees to be bound by the terms of the warranty set forth herein.

I. Applicable Warranty Period

The products accompanied by this warranty shall be covered by this Limited Warranty for a period of 12 months from the date of original purchase by the consumer. In the absence of suitable proof of purchase date, the warranty period of this product will begin to run on the product's date of manufacture.

II. Instructions Applicable to this Limited Warranty

1. Consumers wishing to submit a warranty claim must return the products accompanied by this warranty to the point of purchase for warranty consideration.
2. Upon discovery of a defect, any personal injury, property damage or any other type of resulting damage, if applicable, shall be reasonably mitigated to the extent possible.
3. At its discretion, the Company may inspect products either at its facilities, or in the field, and after determination of a warranty claim, will, at its option, repair or replace defective parts. Repaired or replaced parts will be returned freight prepaid by the Company.
4. This warranty policy does not cover any labor or shipping charges. The Company shall not be liable for any costs or charges attributable to any product testing, maintenance, installation, repair or removal, or for any tools, supplies, or equipment needed to install, repair, or remove any product.

III. Limitations Applicable to this Limited Warranty

THIS WARRANTY DOES NOT APPLY TO ANY OF THE FOLLOWING:

1. Brushes, impeller or cam on models with brush-type motors and/or flex-vane impellers.
2. Any product that is not installed, applied, maintained and used in accordance with the Company's published instructions, applicable codes, applicable ordinances and/or with generally accepted industry standards.
3. Any product that has been subject to misuse, misapplication, neglect, alteration, accident, abuse, tampering, acts of God (including lightning), acts of terrorism, acts of war, fire, improper storage or installation, improper use, improper maintenance or repair, damage or casualty, or to an excess of the recommended maximums as set forth in the product instructions.
4. Any product that is operated with any accessory, equipment, component, or part not specifically approved by the Company.
5. Use of replacement parts not sold by the Company, the unauthorized addition of non-Company products to other Company products, and the unauthorized alteration of Company products.
6. Products damaged by normal wear and tear, normal maintenance services and the parts used in connection with such service, or any other conditions beyond the control of the Company.
7. Any product that has been used for purposes other than those for which it was designed and manufactured.
8. Any use of the product where installation instructions and/or instructions for use were not followed.

9. Products connected to voltage other than indicated on nameplate.
10. Products where the pump was exposed to any of the following: sand, gravel, cement, grease, plaster, mud, tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.) or other abrasive or corrosive substances.
11. Products in which the pump has been used to pump or circulate anything other than fresh water at room temperature.
12. Products in which the pump was allowed to operate dry (fluid supply cut off).
13. Products in which the sealed motor housing has been opened or the product has been otherwise dismantled by customer.
14. Products in which the cord has been cut to a length of less than three feet.

The Company reserves the right at any time, and from time to time, to make changes in the design and/or improvements upon its product without thereby imposing any obligation upon itself to make corresponding changes or improvements in or upon its products already manufactured and/or previously sold. The Company further reserves the right to substitute parts or components of substantially equal quality in any warranty service required by operation of this Limited Warranty.

This written Limited Warranty is the entire warranty authorized and offered by the Company. There are no warranties or representations beyond those expressed in this document.

THIS WARRANTY AND REMEDY IS IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY SPECIFICALLY DISCLAIMED AND EXPRESSLY EXCLUDED. CORRECTION OF NON-CONFORMITIES, IN THE MANNER AND FOR THE PERIOD OF TIME AS SET FORTH ABOVE, SHALL CONSTITUTE FULFILLMENT OF ALL LIABILITY OF THE COMPANY TO THE PURCHASER WHETHER BASED ON CONTRACT, NEGLIGENCE, OR OTHERWISE.

THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES SUCH AS, BUT NOT LIMITED TO:

DAMAGE TO OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF USE OF EQUIPMENT, FACILITIES OR SERVICE, LOSS OF PROFIT OR SALES, COST OF PURCHASES OR REPLACEMENT GOODS, CLAIMS OF CUSTOMERS OF THE PURCHASER, FAILURE TO WARN AND/OR INSTRUCT, LOSS OF OTHER PRODUCTS, OR COSTS OF ENVIRONMENTAL REMEDIATION, OR DIMINUTION IN PROPERTY VALUE. THE REMEDIES OF THE PURCHASER SET FORTH HEREIN ARE EXCLUSIVE, AND THE LIABILITY OF THE COMPANY SHALL NOT, EXCEPT AS EXPRESSLY PROVIDED HEREIN, EXCEED THE PRICE OF THE PRODUCTS UPON WHICH SUCH LIABILITY IS BASED. DAMAGES AS SET FORTH IN THIS PARAGRAPH SHALL BE REASONABLY MITIGATED TO THE EXTENT POSSIBLE. THIS PARAGRAPH SHALL ALSO APPLY TO ALL DAMAGES RESULTING FROM CONDITIONS SET FORTH IN SECTION III ABOVE AND (1) DEFECTS IN PRODUCT PROTOTYPES OR REPLACEMENT PART PROTOTYPES THAT HAVE NOT BEEN PUT INTO PRODUCTION, CIRCULATED AND SOLD BY THE COMPANY, AND/OR (2) DEFECTS THAT WERE NOT FOUND AT THE TIME OF SALE DUE TO SCIENTIFIC AND TECHNOLOGICAL REASONS.

This Limited Warranty gives you specific legal rights. You may have other rights, which vary according to the applicable laws and regulations. Where any term of this warranty is prohibited by such laws, it shall be null and void, but the remainder of this warranty shall remain in full force and effect.

DISCLAIMER: Any oral statements about the product made by the seller, the Company, the representatives or any other parties, do not constitute warranties, shall not be relied upon by the user, and are not part of the contract for sale. Seller's and the Company's only obligation, and buyer's only remedy, shall be the replacement and/or repair by the Company of the product as described above. Before using, the user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith.

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