



Important Safety Instructions

**PLEASE READ CAREFULLY PRIOR TO
Troubleshooting and Servicing Electrical Equipment**

Definitions:
WARNING (May cause serious injuries or death)
CAUTION (May cause property damage)

**For information on NuWhirl Instructions, see:
www.nuwhirl.com/docs/product-instructions.html**

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

WARNING: Keep dry. Replace control if exposed to water, moisture or contamination.

WARNING: Use and follow these instructions along with all instructions that have been provided with your whirlpool bathtub in order to fully enjoy the bathtub safely.

WARNING: Electronic control system components should be installed as per local and national Electrical Codes, in a location not to be subjected to splashing or flooding. Exposure to water or splashing will void all product certifications and warranties.

There are no user serviceable parts inside. Opening, modifying, or tampering with control system components will void all product certifications and warranties.

WARNING: Risk of electric shock. Connect only to a ground type receptacle or power supply junction box protected by a Ground-Fault Circuit Interrupter (GFCI). Contact a qualified electrician if you cannot verify that the power supply is protected by a GFCI. The GFCI should be tested on a routine basis. Consult the GFCI manufacturer's instructions for correct testing and operation.

For electrical connections, see applicable wiring diagram. See www.nuwhirl.com/docs/product-instructions.html

Do not use an extension cord to connect the product to the electric supply; provide a properly located receptacle or junction box.

WARNING: Failure to install in strict accordance with each and every instruction above may compromise the system, which may cause injury to persons and/or property.

The tub may be supplied from more than one power source. Before working on any electrical device, make sure all power to the control system is off.

Use this unit only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer. Any improper installation or misuse of the equipment may result in injury to the user and will void the warranty.

Do not run unit dry. Always be certain that the pump casing is filled with water before starting the unit. If pump fails to prime within 30 seconds, turn it off. Check if there is an airlock, clogged plumbing, or closed valve.

Save these instructions.

Retain this manual for future reference

**For your records and future reference
please fill in data below:**

Manufacturer: _____

Model: _____

Serial: _____

Date of Installation: _____



Installation

PUMP INSTALLATION

1. The pump must be installed on the outside of the tub below the normal water level.
2. The pump should be secured firmly in place with bolts or screws to avoid noise and vibration.
3. The suction line should be installed with a continual rise to the pump (1/4" per foot) to avoid air pockets, and assure good drainage of the pump. All piping must be air tight.
4. The outlet flange of the pump should be below the highest jet opening in the whirlpool system. This will assure good priming of the pump, and prevent the pump from running dry at start-up, which may cause damage to the pump seal.
5. The weight of the piping should be supported independently, not carried by the pump.
6. Tighten the pump fittings at the suction and discharge **hand tight only**. The pump fitting utilizes an o-ring seal that is all that is required for a leak free joint. Do not use a pipe wrench or strap wrench of any kind! Over tightening of the nut may cause failure of the joint. The use of teflon tape or pipe compound on the fitting threads is prohibited, as these materials may react adversely with the materials used in the pump and fittings and cause failure of the joint.
7. It is recommended that flexible piping be used near the suction and discharge of the pump to reduce transmitting vibrations to the whirlpool system, and allow for ease of removing the pump for service.
8. The pump contains a mechanical rotary seal that may become damaged or worn over time. It is recommended to provide a drip pan and inspection access so that any leakage can be seen and repaired. System leaks must be repaired immediately to prevent harm to personnel and to prevent damage to system or structural components.
9. The pump motor is equipped with an automatic thermal overload protector. Provide adequate ventilation to the pump at installation to avoid nuisance tripping.
10. The pump should be protected from debris, water, weather, dust, and direct sunlight.

PUMP WIRING

1. Make sure power is off from the source before installation.
2. The pump must be wired for the proper voltage by a licensed electrician in accordance with all applicable electrical codes.
3. The voltage, ampere draw, and frequency are listed on the pump nameplate.

WARNING: Do not exceed nameplate voltage.

4. Install an outlet receptacle or junction box (depending on the power cord configuration supplied on the pump) within range of the power cord.
5. The conductors to supply power to the outlet receptacle or junction box must be large enough to carry the necessary amperes for the required length without excessive voltage drop.
6. The power to the pump should be on a dedicated branch circuit that is protected by a Ground-Fault Circuit Interrupter (GFCI). The GFCI should be readily accessible for routine operational testing.
7. All internal wiring has been completed at the factory. No additional wiring is required in the terminal box compartment.
8. Current collectors, and all other metal in contact with the tub water shall be bonded together with individual solid copper bonding conductors not smaller than #8 AWG. A bonding lug for this purpose is provided on the pump.

Operating Instructions

WARNING: As with all bathtubs, do not allow children to use this product unless they are closely supervised by an adult at all times.

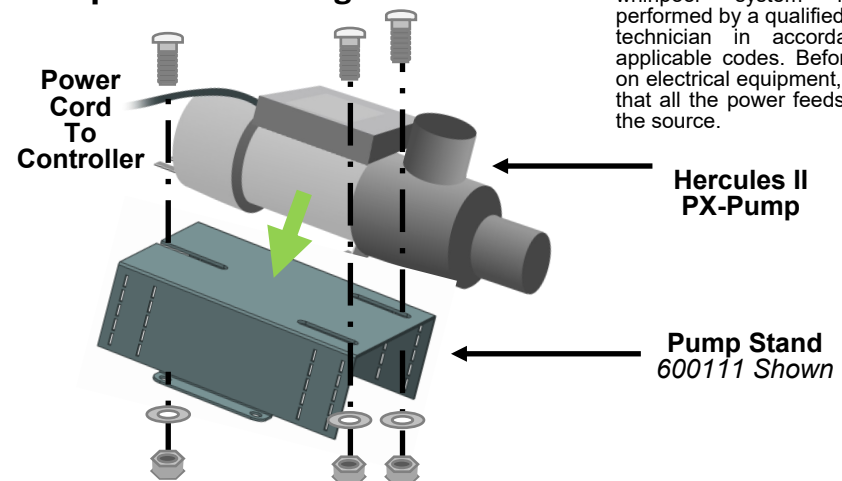
- The pump supplied with this tub is not self-priming. In order to avoid damage to the seal in the pump, always fill the bathtub to at least 1" above the highest jet in the system before starting the pump. This will not only ensure that the pump will not run in a dry condition, but will also avoid water from the jets spraying out of the bathtub and causing a slipping hazard on the floor.
- After the tub has been filled, activate the pump by pressing the appropriate keypad or air button supplied on the tub. Allow a few moments for the pump to start delivering water from the jets.
- To stop the pump, press the button supplied on the tub again. If the pump includes a timer feature, operation will cease after the preset time. To extend the bathing session, press the button again to restart the timer.

The pump does not require periodic maintenance, or lubrication. It is recommended that the pump and circulating piping be checked periodically for leakage. It is also recommended that the Ground-Fault Circuit Interrupter (GFCI) protecting the pump electrical circuit be tested per the GFCI manufacturers instructions.

This pump is protected by an automatic thermal overload protection device. The motor will automatically shut off due to low voltage, overload, blockage, or other abnormal conditions, before heat damage can occur to the pump. The pump will then restart when a safe operating temperature is reached. Should this occur, the cause of overheating must be determined and resolved for further proper operation.

The pump has been designed and tested to give trouble-free operation over the lifetime of the bathtub. If the system does not operate as described, stop the pump and contact the bathtub manufacturer or supplier.

Pump Installation Diagram



Any service performed on the whirlpool system must be performed by a qualified service technician in accordance with applicable codes. Before working on electrical equipment, be certain that all the power feeds are off at the source.