BASIC OPERATING/MAINTENANCE INSTRUCTIONS

• Make sure power is supplied to the pump (circuit breaker is on, GFCI is set, pump is "plugged in").

• Fill the tub with water-- at a minimum to a level above the highest jet. In the case of some manufacturer's specifications, fill water to the low water level sensor indicator.

• To turn pump on, depress airswitch button OR depress on/off button on keypad OR turn on wall timer. Please refer to tub manufacturer's user manual to determine your specific design of tub or spa unit). If AT model pump, the time will set automatically.

• To turn unit off, depress airswitch button OR depress on/off button on keypad OR turn off wall timer.

• The pump/motor assembly does not require maintenance. However, the tub and pump should be checked semi-annually for leakage of any kind.

• The electric motor uses sealed grease bearings, which do not require additional lubrication. The pump should not be run dry (without water). If this occurs, check the pump for leaks. Under normal conditions the bath/spa water will lubricate and cool the seal assembly while running.

• If the whirlpool tub will be stored during freezing weather, it is suggested that the tub (jets, piping, and pump) be completely free of water to avoid damage from the freezing.

• We DO NOT recommend using sudsing oil or bubble bath during a whirlpool session. The agitation will create an overflow of bubbles.

 Follow tub manufacturer's recommendation for periodic cleaning of the whirlpool tub system. For whirlpool tubs, a low-foaming dishwasher detergent with 4 to 6 ounces of household bleach can be added to a full tub of water. Run the tub for approximately 10 minutes and drain. Fill the tub with clean, cool water, and run for 10 minutes and drain.

TROUBLESHOOTING GUIDE

PUMP DOES NOT RUN

POSSIBLE CAUSES:

- No power to pump
 - check incoming power to pump
 - is circuit breaker on?
 - is GFCI operating properly?
 - is pump plugged in?
- Airswitch disconnected
 - is airswitch hose connected to pump?

- is airswitch hose connected to actuator button on tub deck?

PUMP NOT PUMPING PROPERLY

POSSIBLE CAUSES:

Blockage or leak

- jets should be pointed away from suction inlet

- so air is not forced into pump suction
 - is tub suction inlet blocked or covered?
 - is there any debris in pump housing?
 - is there a leak in the piping or the pump?
- Low voltage
 - is the proper voltage applied to the pump?
 - is there an extension cord being used?



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GENESIS GENERATION BATH PUMPS



- **WARNING:** To reduce the risks of injury, do not allow children to use this product unless they are supervised at all times.
- WARNING: Pump suction inlet should be installed with a certified safety suction inlet and cover that does not exceed the maximum flow rating of the installed pump and system. Failure to provide for a properly rated suction assembly can case bodily injury, disembowelment, and drowning from hair entrapment.

OWNER/OPERATOR INSTRUCTION MANUAL



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IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

- **WARNING:** When installing and using this electrical equipment, basic safety precautions should be followed, including the following:
- 1. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL.
- 2. READ AND FOLLOW INSTRUCTIONS AS SET FORTH IN THE OWNER'S MANUAL FROM THE MANUFACTURER OF THE HYDROMASSAGE BATH TUB.
- 3. WARNING: To reduce risk of injury, DO NOT PERMIT CHILDREN TO OPERATE THIS UNIT WITHOUT THE SUPERVISION OF AN ADULT AT ALL TIMES.
- 4. WARNING: The Genesis Generation Bath Pump is intended for use in a Hydromassage bath tub (whirlpool bath) only, as described in this manual. The Genesis Generation Bath Pump is not for use in any other application. Do not use attachments not recommended by the manufacturer.
- 5. All electrical wiring in the motor installation must be done by a licensed electrician in accordance with applicable electrical codes.
- 6. WARNING: The unit must be connected to a supply circuit that is protected by a Ground Fault Circuit Interrupter (GFCI) as required by the applicable electrical codes. Such a GFCI should be provided by the installer of the unit and should be tested on a regular basis. Consult the GFCI manufacturer's instructions for correct testing and operation.
- 7. WARNING: For permanently connected units, a green colored terminal (or a wire connector marked "G", "GR", "Ground", or "Grounding") is provided within the terminal compartment. To reduce the risk of electric shock, connect this terminal or connector to the grounding terminal of your electric service or supply panel with a conductor equivalent in size to the circuit conductors supplying this equipment.
- 8. DO NOT operate this pump unit without the motor end cover in place.
- 9. WARNING: Motors driving the pumps may operate at high temperatures. To avoid burns, NEVER touch the motor shell during operation of the motor.
- 10. **DO NOT** drop, insert, or place any object into the pump assembly or motor at any time.
- 11. No modifications, additions, or deletions should be made to the pump or motor assembly.
- 12. **DO NOT** use insulation around or near the pump/motor assembly. The motor may overheat causing nuisance tripping of the thermal overload protector.
- 13. DO NOT run pump dry. No warranty on damaged seal due to dry running of pump.
- 14. WARNING: Before starting the pump/motor, make certain that the water level covers all water outlets to avoid excess splashing.

SAVE THESE INSTRUCTIONS FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN PERSONAL INJURY, DEATH, OR PROPERTY DAMAGE

INSTALLATION INSTRUCTIONS

GENERAL INFORMATION

This pump is intended solely for use with hydromassage bath tub (whirlpool bath) applications. The pump unit was designed to circulate water through a whirlpool bath system supplying jets with water. Each pump has been thoroughly tested prior to leaving the factory and should be free of defects.

INSTALLATION INSTRUCTIONS

- WARNING: For ALL installations, an access panel must be provided which is in a suitable location for pump inspection. ENSURE POWER TO MOTOR IS TURNED OFF PRIOR TO WORKING WITH THE MOTOR.
- The pump should be installed on the outside of the tub as close to the tub unit as possible.
- For a whirlpool tub installation, the pump should be mounted in such a fashion that there is a continual rise from the suction fitting to the pump to allow air to be expelled from the piping. While at the same time, the pump should be mounted in such a way that the pump suction is below the normal operating level of the water.
- All tub piping must be water tight for proper pump operation.
- The pump/motor assembly should be securely mounted onto a base to avoid noise and vibration. The weight of the piping should be supported independently and not carried by the pump.
- The pump should be connected to the piping with union connectors as supplied with the pump. The union sleeves and nuts are made of PVC plastic. Sleeves should be attached to the piping with solvent weld cement suitable for use with PVC. Refer to the warnings supplied with solvent weld cements to verify compatibility. The nut will secure the sleeve to the pump. HAND TIGHTEN the union nut only! Excessive torque is unnecessary and may cause damage to the union and pump. DO NOT use a pipe wrench or over-torque the nut! There is a gasket supplied with the sleeve connector. If the connector is tightened properly there is no need for any sealant or lubricant to be used on the gasket. CONTAMINANT SUCH AS PIPE COMPOUNDS OR OVER TIGHTENING OF THE NUT CAN CAUSE THE UNION TO FAIL.
- Pumps are equipped with a self-lubricating mechanical shaft seal. As with any
 mechanical seal, it may eventually leak as a result of wear or if particles of dirt
 become lodged between the seal faces. It is recommended that a drip pan be
 installed so that any leakage can be readily seen and to avoid water damage.
- **CAUTION:** Pump motors are equipped with an automatic thermal overload protector to prevent motor damage from overheating. THESE MOTORS WILL RESTART AUTOMATICALLY AS THE MOTOR COOLS DOWN. DO NOT WORK ON THE MOTOR WITHOUT FIRST SHUTTING OFF THE ELECTRICITY AT THE SOURCE. Nuisance thermal tripping can be avoided if proper ventilation is provided to the pump. Insulation should not be put around or near the pump motor.
- All airswitch actuators and electronic keypads which are used to operate the pump unit must be located above the tub's maximum water level.
- All electronic keypads must be routed clear of grounded metal and high voltage wiring.
- All internal motor wiring is done at the factory. No additional wiring is necessary.

ELECTRICAL WIRING INSTRUCTIONS

The actual pump may be supplied with no cord, a three-wire cord with plug (-C), or a three-wire cord with leads for hard wiring to a junction box (-CC).

- **WARNING:** When using electrical products, basic safety precautions should always be followed, including the following:
- WARNING: RISK OF ELECTRIC SHOCK. Connect only to a circuit protected by a ground fault circuit interrupter.
- **WARNING:** Grounding is required. The unit should be installed by a qualified service representative and grounded. Install to permit access for servicing.
- **WARNING:** All electrical work must be done by a licensed electrician. Before working on the motors, be certain that the electrical power is off at the main

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- junction box. Disconnect the fuse or the circuit breaker and tag the main switch: **"DO NOT ENERGIZE THIS SWITCH. PERSONNEL WORKING ON EQUIPMENT".**
- WARNING: All aspects of the installation must conform to the requirements of the NEC, including article 430 (motor circuits and controllers), and all local codes.
- Pump/motor must be wired to the system with the correct incoming voltage ONLY by a licensed electrician in accordance with applicable electrical codes. Motor voltage, ampere draw, and frequency appear on the motor nameplate. DO NOT EXCEED NAMEPLATE VOLTAGE.
- The wire used to supply power to the motor must be large enough to carry the necessary amperes for the required length without excessive voltage drop. Cord connected units are pre-wired at the factory. No additional wiring is necessary.
- If pump/motor is supplied without a pre-wired cord assembly, a proper strain relief fitting should be used to secure the wire in the motor conduit hole. The motor wire must also be of the correct size, but not smaller than 16 gauge. the pump/ motor must be wired for the proper voltage in accordance with the wiring diagram supplied on the motor. All wiring must be done by a licensed electrician in accordance with local codes. Be certain the motor frame is GROUNDED and that the motor and metal parts of the tub or spa and piping are **BONDED** in accordance with applicable codes. A green-colored screw is provided inside the terminal compartment for a grounding connection. This should be connected to the grounding terminal in the supply panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment, but no smaller than 14 gauge. The wires should be sized such that the yare large enough to carry the proper amperes without causing unnecessary voltage drop. A wiring diagram is supplied on the pump nameplate for assistance in connecting the main power supply lines to the correct motor terminal (stud, flat washer, cup washer, and nut). A solid copper bonding connector, no smaller than 8 AWG (3.27mm) must be connected from the accessible wire connector on the motor to all metal parts of the whirlpool bath structure, and to all electrical equipment, metal conduit, and metal piping, within 5 feet (1.5m) of the inside walls of the whirlpool bath or spa when the motor is installed within 5 feet of the inside walls of the whirlpool bath.