

4200/6200/9200 SERIES

OWNERS OPERATION GUIDE

104°



HYDROQUIP™

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IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

- ! **DANGER** To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
- ! **WARNING - RISK OF CHILD DROWNING.** Extreme caution must be exercised to prevent unauthorized access by children. To avoid accidents, ensure that children cannot use a spa or hot tub unless they are supervised at all times.
- ! **DANGER** To reduce the risk of injury to persons, do not remove suction fittings.
- ▶ Spa location must accommodate sufficient drainage of water around the base of the structure, as well as the power source compartment.
- ▶ Prolonged immersion in water that is warmer than normal body temperature can result in a dangerous condition known as HYPERTHERMIA. The causes, symptoms, and effects of hyperthermia may be described as follows: Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6BF. The symptoms of hyperthermia include dizziness, fainting, drowsiness, lethargy, and an increase in the internal temperature of the body. The effects of hyperthermia include (1) unawareness of impending hazard, (2) failure to perceive heat, (3) failure to recognize the need to exit spa, (4) physical inability to exit spa, (5) fetal damage in pregnant women, (6) unconsciousness resulting in danger of drowning. **WARNING** The use of alcohol, drugs or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.
- ! **DANGER - RISK OF ELECTRICAL SHOCK.** Install at least 5 feet (1.5m) from all metal surfaces. (A spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a solid copper conductor attached to the wire connector on the terminal box that is provided for this purpose. Refer to NEC and local codes in effect at the time of installation.)
- ▶ A pressure wire connector is provided on the control box to permit connection of a solid copper bonding conductor between this point and any equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5m) of the unit as needed to comply with local requirements.
- ▶ Bond accessible metal to the dedicated connector on the equipment grounding bus, bond the equipment ground bus to the local common bonding grid as part of the installation in the form of (1) a reinforced concrete slab for support, (2) a ground plate provided beneath the hot tub or spa, or (3) a permanent ground connection that is acceptable to the local inspection authority.
- ! **DANGER RISK OF ELECTRICAL SHOCK.** Do not permit any electrical appliance, such as a light, telephone, radio, or television, within 5 feet (1.5m) of a spa or hot tub.
- ▶ **To reduce the risk of injury:**
- ▶ The water in a spa or hot tub should never exceed 104BF (40BC). Water temperatures between 100BF (38BC) and 104BF (40BC) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10-15 minutes) and for young children.
- ▶ Excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa or hot tub water temperatures to 100BF(38BC).

Before entering the spa or hot tub, the user should measure the water temperature with an accurate thermometer.

The use of alcohol, drugs, or medication before or during spa or hot tub use may lead to unconsciousness with the possibility of drowning.

Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa or hot tub.

Persons using medication should consult a physician before using a spa or hot tub since some medication may affect heart rate, blood pressure, and circulation.

For Units with a GFCI (Ground Fault Circuit Interrupter)

This appliance is provided with a ground-fault-circuit-interrupter located on the control box. Before each use and with the unit operating, push the test button. The unit should stop operating and the reset button should appear. Push the reset button. The unit should now operate normally. If the interrupter does not perform in this manner, a ground current is flowing indicating the possibility of electrical shock. Disconnect the power, or unplug from receptacle, until the fault has been identified and corrected.

For Cord and Plug Connected Units

Connected to a grounded, grounding type receptacle only. NEVER connect the spa to an extension cord.

Do not bury the cord.

WARNING To reduce the risk of electrical shock, replace damaged cord immediately.

For Permanently Installed Units

A terminal marked "G" or "ground" is provided in the wiring box located inside the equipment compartment. To reduce the risk of electric shock, connect the terminal or connector to the grounding terminal of your electrical service or supply panel with a continuous green insulated copper wire in accordance with National Electric Code Table 250-95 and any other local codes in effect at the time of the installation.

For Permanently Installed Units not Provided with an Internal Disconnecting Method

The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-30 of the National Electric Code, ANSI/NFPA 70 1987. The disconnecting means must be readily accessible to the tub occupant but installed at least 5 feet (1.5m) from the tub water.

For Units with Gas Heaters

WARNING - Do not install indoors. This unit uses a gas heater that requires proper ventilation and is intended for outdoor use only.

For UL Listed Equipment Assemblies

Install at least 5 feet (1.5m) from tub water using nonmetallic plumbing. Install blower no less than 1 foot (305mm) above the maximum water level to prevent water from contacting electrical equipment. Install in accordance with the installation instructions. To reduce the risk of drowning from hair and body entrapment, install a suction fitting(s) with a marked flow rate in gallons-per-minute that equals or exceeds the flow rate marked on the equipment assembly.

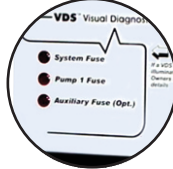
INTRODUCTION

Congratulations on your new purchase. This Equipment or Control System is constructed of the finest materials and assembled under the strictest quality control standards. With proper care and maintenance your system will provide you with many years of reliable performance.

The following pages contain information concerning the operation and care of your system.

VISUAL DIAGNOSTICS

LIGHT CONNECTION



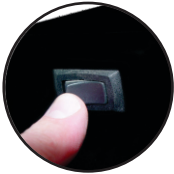
HEATER ACTIVE



SMART CORDS



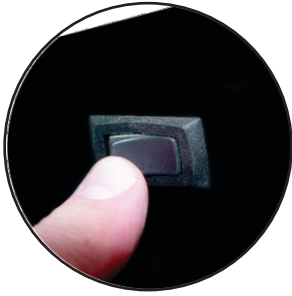
POWER SWITCH



Note: Your system may differ from the photos above although the basic operation and configuration will be the same.

FEATURES & FUNCTION

Your system comes equipped with features you should be aware of.



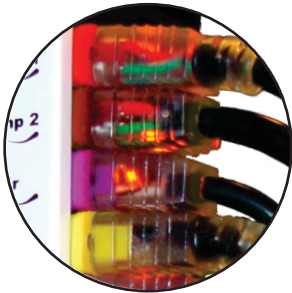
POWER SWITCH

Your system may have come equipped with a power switch. This switch will turn power to the internal circuitry & attached components on and off.



HEATER ON INDICATOR

All systems are equipped with a "Heater On" indicator to let the user know when the heater is actively heating the spa water.

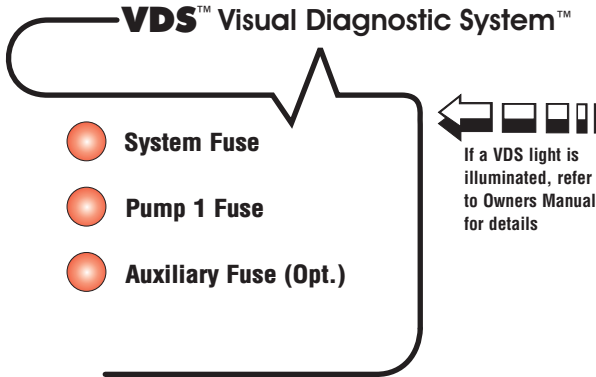


SMART CORDS

Your system may have come equipped with exclusive "Smart Cords". These cords have internal illumination to let you know that power is being supplied to the components connected to them. This is a helpful troubleshooting feature should a problem with a component arise.

VISUAL DIAGNOSTIC SYSTEM

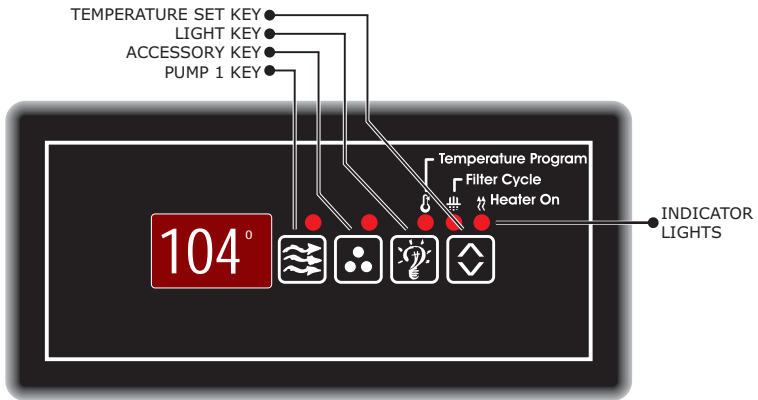
If your system is equipped with the Visual Diagnostic System (VDS), the control will do the troubleshooting for you! VDS consists of control mounted indicators and (if equipped) exclusive “Smart Cords”. You will know at a glance if components are being supplied with proper voltage or if an internal fuse has blown.



VDS INDICATOR ILLUMINATED

<p>SYSTEM FUSE - This fuse protects the printed circuit board.</p>	<p>Input voltage connected incorrectly. Call your local dealer or qualified technician.</p>
<p>PUMP 1 FUSE - Protects the primary pump.</p>	<p>Restricted flow of water, faulty pump or severe weather/electrical storm. Call your local dealer or qualified technician.</p>
<p>AUX. FUSE - Protects the secondary pump or blower.</p>	<p>Restricted flow of water, faulty pump or blower or severe weather/electrical storm. Call your local dealer or qualified technician.</p>

SPASIDE CONTROL OPERATION



PUMP 1 KEY: (If the heater setting has been set above the actual water temperature, low speed will activate on its own as the water is heated). Press this key once to activate the low speed of the pump, press the key a second time to activate high speed and pressing it a third time will turn the pump off. The red indicator above the pump key will illuminate while the pump is on in high speed and flash in low speed. After 20-minutes the pump will shut off automatically unless done so manually. If a filter cycle is active, the “filter cycle” indicator will be illuminated and you will not be able to turn the pump off (the pump indicator WILL NOT be on during filtration).



ACCESSORY KEY: Press this key to turn Accessory on and off. After 20-minutes the accessory will shut off automatically unless done so manually. The red indicator above the Accessory key will illuminate while the accessory is on.



LIGHT KEY: Press this key to turn the Light on and off. The light will automatically shut off after 2 hours.



TEMPERATURE SET KEY: Press and hold the Temperature Set key to increase the temperature. Release, press and hold again to lower the temperature. The temperature can be adjusted in 1°F increments from 59°F to 104°F (5°C to 40°C). The new setting will remain on the display and the Temperature Program indicator will illuminate for 5-seconds to confirm the setting. The heater will activate when the temperature drops to 1°F below the set temperature. Heater will continue to be active until the temperature reaches 1°F above the set temperature. (The Heater On indicator will illuminate while the heater is on and flash when there is a call for heat and the heater has not yet been activated.)

PROGRAMMING FILTRATION

PROGRAMMING FILTER CYCLE: Filtration cycles may be programmed to run one, twice or three times per day to keep the water clean & sanitary. Press and hold the PUMP KEY until the current setting is displayed (1, 2 or 3). Use the TEMPERATURE SET KEY to increase or decrease the setting. It is recommended to schedule the filtration cycles so they do not interfere with sleeping hours.

PROGRAMMING FILTER CYCLE DURATION: The duration of each cycle can be set to 60 (1 hour), 120 (2 hours), 180 (3 hours) or 480 (8 hours). Press and hold the LIGHT KEY until the current setting is displayed. Use the TEMPERATURE SET KEY to increase or decrease the setting. Filtration cycles will take effect at the time these settings are changed. If filtration setup is accomplished at 12:00pm and the cycles are set to two (2) per day, the cycles will activate at 12:00pm & 12:00am.

Note: If a key is not pressed within 5 seconds during programming, the system will revert back to the monitoring mode. If the Pump and/or light were turned on during the programming process, turn them off.

***Note: When filter cycle starts the blower (or pump 2, if equipped) will activate for 1-minute then turn off. Pump 1 will continue to run for the remainder of the filter cycle.**

*** If the spa is being used during the filter cycle, the cycle will be suspended for a period of 40-minutes or until the spa is no longer in use.**

ERROR INDICATION

To assist the user in identifying problems with the spa, the system will display an error message. These messages will be helpful when communicating with your local dealer or qualified technician if a problem should arise.

flC

PRESSURE or FLOW SWITCH ACTIVATED - This error will be displayed only when the pump is not activated. Cycle the pump through Low & High speeds then off. If the error does not clear this is an indication that the pressure or flow switch is activated with no water flow.

Contact your local spa dealer

flO

PRESSURE or FLOW SWITCH NOT ACTIVATED - This error will be displayed while the pump is running. Cycle the pump through Low & High speeds. If the error does not clear this is an indication that the pressure or flow switch has not activated although there is water flow.

Contact your local spa dealer

ERROR INDICATION - cont.

Prr

TEMPERATURE SENSOR MALFUNCTION - This error will occur when a problem with the temperature sensor exists.

Contact your local spa dealer

OVERHEAT or HIGH-LIMIT PROTECTION - There are three(3) stages of over-temperature:

OH

1 - The spa water has exceeded 112°F at the temperature sensor. The heater, pump and accessory will be deactivated until the water cools to 109°F. *Be sure to check the actual water temperature with an accurate thermometer.*

HI

2 - The spa water has exceeded 119°F at the high-limit sensor. The heater will deactivate while the pump and accessory will still operate. *The blower (if equipped) can be activated to help cool the water. **WATER MUST BE BELOW 119°F AND POWER MUST BE RESET TO CLEAR THE “HL” ERROR***

A dirty spa filter can also cause a restricted flow of water, be sure the filter is cleaned regularly and ensure all water shutoff valves are open.

If the system has been operating normally until now, the pump may be overheating the spa. Refer to “Programing Filtration” on page 8 and reduce the duration and/or number of cycles per day.

3 - If you've eliminated items 1 & 2 as problems, the high-limit sensor may have malfunctioned.

Contact your local spa dealer

free

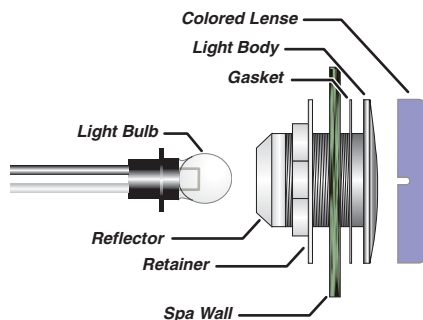
FREEZE PROTECTION

1 - SMART WINTER MODE, this mode will activate any time the temperature falls below 59°F. This mode will be active for a period of 24-hours. In this mode, if a pump has not been activated in the last 2 hours, the system will automatically turn it on for 1-minute to prevent freezing. The “Filter Cycle” indicator will illuminate while this mode is active.

SPA LIGHT (optional)

Your control may contain a high intensity, low voltage light to enhance nighttime use.

This illustration shows how and where to find the bulb for replacement. It also shows the mounted spa light with a replacement (colored) lens. Colored lenses will further the enhancement of the light. Simply snap on or off to change the mood of your spa.



OPERATIONAL CONSIDERATIONS

The following describes situations you may encounter and situations to be aware of.

WARM WEATHER CONDITIONS

Since your spa will normally be expected to maintain warm to hot water to be ready for your use, a great deal of attention has been directed to the **energy conservation** detail of insulation so as to keep electrical costs down. This **energy conservation efficiency** may be achieved by extensive insulation of the skirt, plumbing and spa shell, and in some climates full foam insulation may have been provided.

This **energy conservation** feature may cause an inconvenience during warmer times of the year. During warm periods of the year, the temperature within the equipment compartment can elevate to a point that the pump will automatically turn off for a short period of time (15-30 minutes) to allow the pump to cool down before automatically restarting. This cool down feature will not harm your spa but serves only to protect the pump from damage and as an indicator that it is too hot. To minimize this occurrence, refrain from using your Hydrotherapy Jets for prolonged periods of time during warm seasons.

The jet pump chosen for your spa has been specifically sized for *maximum performance* and your Hydrotherapy enjoyment.

FILTRATION SYSTEM

Please refer to your Spa Manufacturer's owner's manual regarding the operation, maintenance and cleaning of your filtration system.

Dirty or clogged filters can cause flow restrictions and you may experience difficulty in reaching and/or maintaining desired heat levels.

WINTERIZING

When freezing weather and/or power losses are expected, contact your local spa dealer for freeze protection or winterizing recommendations for both the spa and the equipment system. Freeze related damage is not covered by the warranty.

CHEMICAL WATER TREATMENT

Your dealer is familiar with local water conditions and which chemicals are compatible with the water and are designed specifically for your spa. This is the best person to advise you on proper water quality management.

The one thing you can do to insure years of trouble free equipment operation is to maintain proper water chemistry.

Two basic goals of the chemical water treatment are sanitizing and balancing the water.

Sanitizing simply means keeping the water free from living microorganisms including algae, bacteria and viruses. The current most popular chemicals for sanitizing include chlorine, bromine and ozone.

Balancing water means establishing a balance among pH, total alkalinity and total hardness. Water that is unbalanced can corrode the spa and it's support equipment or leave deposits of minerals. Properly balanced water is essential to allow the sanitizing chemical to work effectively. There are numerous chemical additives to help you in controlling pH, total hardness and total alkalinity. **NEVER** use softened water when filling your spa. Softened water is extremely corrosive to the metal parts of the spa equipment and may lead to an unforeseen failure.

Sometimes, despite your most diligent efforts, your water may become too far out of balance to be managed chemically. At this point it is probably better to drain and clean the spa and start over with fresh water.

Equipment failure caused by improper water chemistry will not be covered under warranty.

TROUBLESHOOTING

The following describes situations and possible solutions to common problems you may encounter as a spa owner.

NOTHING OPERATES

- Main Breaker is OFF** - Set to On.
- Sub-Panel Breaker Off** - Set to On.
- Power switch in Off position** - Set to On.
- Component(s) not plugged in** - Plug in components.
- Power cord not plugged in** - Plug in power cord.
- Over-Temperature Protection On** - Refer to page 9

NO, LOW OR SURGING WATER FLOW

- Air Lock in Plumbing System** - "Bleed" the system.
- Restricted Flow** - Insure that the water shut-off valves are open and that suction fittings are not blocked by debris.
- Dirty Filter** - Clean or replace filter.
- Low Water Level** - Increase water level to recommended level.

NO LOW SPEED PUMP OPERATION

- Low Level Programming Incorrect** - **Contact your local dealer.**
- Over-Temperature Protection On** - Refer to page 9
- Pump Not Plugged-In** - Plug in the Pump.

NO JETS OR BLOWER OPERATION

- Blower or Pump Not Plugged-In** - Plug in the Blower or Pump.
- Over-Temperature Protection On** - Refer to page 9

NO THERAPY JET OPERATION

- Water Shut-Off Valves are Closed** - Open Shut-Off valves.
- Dirty Filter** - Clean or replace filter.
- Jets Not Properly Adjusted** - Adjust Jets
- Diverter Valve Not Properly Adjusted** - Adjust diverter valve
- Thermal Overload Tripping** - Check for restricted flow of water.
- Over-Temperature Protection On** - Refer to page 9

WATER LEAKS

Spa Overfilled - Adjust water level.

Too Many People in the Spa - Adjust water level.

Drain-Valve Left Open - Close drain valve.

Couplings or Unions Loose - Tighten or contact your local dealer.

Pump Seal Leaking - Contact your local dealer.

Plumbing Connections Leaking - Contact your local dealer.

Water Leaking from Spaside Control - Contact your local dealer.

Water in Air Blower Plumbing - Contact your local dealer.

NO HEAT

Temperature Not Set Correctly - Adjust Set Point.

Over-Temperature Protection On - Refer to page 9

Current Limiting On - 120V Systems will not heat if High-Speed or Blower is on. Contact your local dealer.

No Power - Reset breaker at service panel.

Low Water Flow - Clean or Replace filter.

HIGH HEAT

Temperature Sensor Not in Dry-Well - Place sensor in dry-well.

Temperature Set Too High - Adjust Set Point.

High Ambient Temperature - Remove spa cover.

GFCI TRIPS OCCASIONALLY

Lightning or Electrical Storm, Power Surge, Extremely Humid Conditions, or Radio Frequency Interference - Reset GFCI.

NOTE: GFCI must be properly grounded and bonded.

GFCI TRIPS IMMEDIATELY

Defective Component - Contact a qualified service technician or the factory for assistance.

NO LIGHT OPERATION

Light Bulb Defective - Replace bulb or contact your local dealer.

Reflector has Fallen Off - Replace reflector or contact your local dealer.

Light Not Plugged-In - Plug in the Light.

SYSTEM DATA LABEL

The system data label is located on the control box. This label is very important and contains information you will need to establish your electrical service. The voltage and amperage ratings are shown on the bottom of the label. Product, Model, Serial and Code numbers are also shown on the label.

Note: This information will be necessary if you should ever have to request warranty or any other type of service.



HYDROQUIP™
THE **SMART CHOICE™**
Corona, CA 92880 | www.hydroquip.com

REFER TO NEC FOR
BREAKER SIZING

ORDER
CODE: CSXXXX
MODEL: XXXXXXX-XXXXXXXX
CODE: XXXX-XXXX-XXX
VOLTS: 120 240
AMPS: SEE RATINGS LABEL
PRODUCT: HQXXXX

WARRANTY INFORMATION

To all original purchasers, **HYDRO**QUIP warrants its products to be free from defects in material and workmanship for a period of one year from the date of purchase.

HYDROQUIP will repair or replace the part, which in our opinion, is defective.

This warranty excludes damage as a result of: normal wear, freezing, low voltage, chemical abuse, accident, negligence, alteration, improper installation, use or care.

To obtain warranty service, return defective products within the warranty period to **HYDRO**QUIP.

Purchaser is responsible for removal or reinstallation labor, freight charges, or any other such costs incurred in obtaining warranty service.

HYDROQUIP assumes no responsibility for incidental or consequential damages. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

**THE SPA DEALER MAY PROVIDE A DIFFERENT WARRANTY,
CONTACT YOUR SPA DEALER FOR DETAILS**



HYDROQUIP™

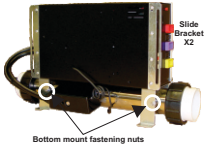
THE **SMART CHOICE**™

SLIDE SERIES

QUICK START GUIDE

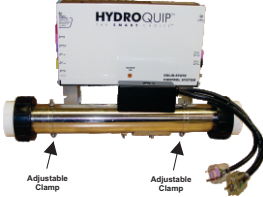
SOLID-STATE SERIES CONTROLS

The Hydro-Quip "SLIDE" series controls offers the ultimate in installation flexibility. From a standard "bottom" installation to anywhere along the whole length of the box, from top to bottom all the installation variations are covered. So why carry multiple control systems on your truck because you don't know what you will run into in the field, carry only one, the Hydro-Quip "SLIDE" series control gives the service professional the advantage of always having a system that will fit, regardless of the configuration.



Bottom mount fastening nuts

Remove the control system from the carton and verify contents for completeness. If the application is a bottom mount install then you are ready to go and may skip directly to the equipment installation booklet included with the system.



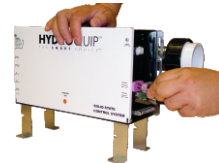
Adjustable Clamp

Adjustable Clamp

If you need to utilize the slide brackets simply remove the (2) 3/8" nuts securing the heater to the foot brackets and remove from under the box.



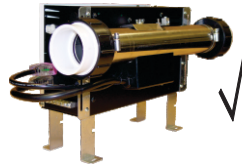
Connect the power and control cords from the heater to the matching receptacles on the control box.



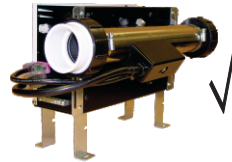
IMPORTANT HEATER INSTALLATION CONSIDERATIONS



The mounting studs are attached to adjustable clamps on the heater. Loosen the clamps to adjust the stud locations to align with the slide brackets on one end. Do not tighten nuts yet.



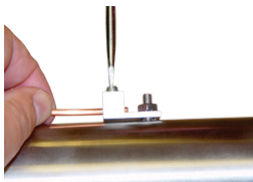
Align the other studded clamp and attach to the other slide bracket. Now determine the proper alignment for the heater and tighten the nuts and clamps



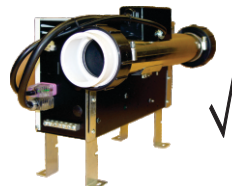
On a solid-state control system the heater may be installed in any of the following orientations.



Insert the sensor probe(s) under the sensor cover attached to the heater and tighten the wing-nut to secure.



Ground/Bond the heater directly to the control box using the included #8 solid copper bonding wire.



ATTENTION INSTALLER

This unit has the capability of operating a Circulation Pump. Special considerations must be taken for the system to operate dependably. Please read and follow the instructions below prior to installing system:

Water Flow and Wattage Considerations

Stock Configuration (High-Flow CP ready) = 5.5kw heater

With this heater installed a minimum of 23gpm is required (Circ-Master, Iron Might, etc.)

****Optional Configuration (Low-Flow CP Ready)** = 4.0kw or less

With this configuration a minimum of 10gpm is required (Laing, Grundfos, Tiny-Might, etc.)

****Requires optional HQ Heater PT# 22-85B-S00-1FP3 (4.0kw VH Assy)**

2 Speed Pump to 1 Speed Pump Considerations

When using a circulation pump the operation of the main 2-speed pump circuit changes in a way that must be considered when using a single speed pump 1. Please consider the following depending on system being installed:

USPA (6500/7500) Series = Enter the low level programming (see install instructions) and program the system for circulation pump mode and the pump to one speed. The low speed (Red) wire will be used for the single speed.

SSPA (4200/4300/6200/6300 except 4220/6220) Series = Move JP3 jumper to enable circulation pump mode(see install instructions).

Three (3) pump operation options for SSPA based systems:

- #1) Pump connected to Low Speed wire: Single speed pump will operate manually and whenever there is a filtration cycle. Button Operation = ON - OFF - OFF
- #2) Pump connected to High Speed wire: Single speed pump will operate manually and at the beginning of each filter cycle for 1 minute to purge. Button Operation = OFF - ON - OFF
- #3) Pump connected to High and Low Speed wires: Single speed pump will operate manually and whenever there is a filtration or purge cycle. Button Operation = ON - ON - OFF

MP (9700) Series = Enter the low level programming (see install instructions) and program the system to circulation pump mode and the pump to one speed. The high speed (Black) wire will be used for the single speed.

2 Speed Pump Considerations

When using a circulation pump the operation of the main 2-speed pump circuit operates normally with exception being that it is no longer used to heat the water. Please consider the following depending on system being installed:

USPA (6500/7500) Series = Enter the low level programming (see install instructions) and program the system to circulation pump mode and the pump to two speed. Low Speed = Red Wire; High Speed = Black Wire.

SSPA (4200/4300/6200/6300 except 4220/6220) Series = Move JP3 to circulation pump mode(see install instructions).

Install the pump normally. Low Speed = Red Wire; High Speed = Black Wire.

MP (9700) Series = Enter the low level programming (see install instructions) and program the system to circulation pump mode and the pump to two speed. Low Speed = Red Wire; High Speed = Black Wire.

ATTENTION INSTALLER



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