

# ES8000 QUICK START INSTRUCTIONS

These instructions have been designed for the experienced pool and/or spa technician. The instructions are meant to be a guide to show how easy it is to assemble your new ES8000 Series Outdoor Equipment System.



### Supplied Equipment List:

- 1= Plastic base
- 2= Mounting hardware kit
- 3= Upper control box
- 4= Base cabinet
- 5= Pump
- 6= Header plumbing kit
- 7= Blower (optional)
- 8= 8000 Installation & Operations manual
- 9= Copper bonding wire

### Tools Required:

- |                  |                           |
|------------------|---------------------------|
| PVC glue         | Pipe saw                  |
| Level            | Phillips screw device     |
| Drill motor      | 3/8" nut driver for drill |
| Slot screwdriver |                           |

### Header Kit Includes:

- (1) 2"X2" SXS 90° ELBOW - 42-0085
- (1) 2"X2" SXSP 45° STREET - 42-0073
- (10.5") 2" PVC PIPE - 40-0002
- (1) UNIONS - 42-0038-X
- (2) GASKETS - 60-0015
- (2) TAILPIECES - 42-0006A



## \*Read all instructions prior to performing work

It is important to identify the plumbing systems of the spa.

**Suction Line** - Water coming from the spa (to be heated) via suction fittings and/or filter connected to front of pump(s).

**Return Line** - Heated water being returned to the spa via the jets, typically connected to the heater or pressure filter.

**Air Blower** - Provides extra water action via an integrated air channel or injections (not on all spas) connected to blower.

**Additional Pumps:** Sometimes referred to as Jet Pump(s) or Auxiliary Pump(s) providing additional jet therapy on command.

### Step #1 Unpack and inventory

Remove from carton the 8000 control system, base cabinet, pump and all hardware from the supplied equipment list (Ref pictured items) All materials and tools listed are required to complete this work instruction.

NOTE: The hardware kit contains enough screws and bolts to assemble all configurations shown in this booklet. Depending on your system, there may be extra hardware left over after assembly.

### Step #2 Selecting the equipment site

Review the complete 8000 system Installation and Operations Manual for requirements and considerations that will assist in selecting the optimum equipment location. Understanding the complete system details in advance will speed installation and prevent costly mistakes.

### Step #3 Determine the Plastic base and equipment position

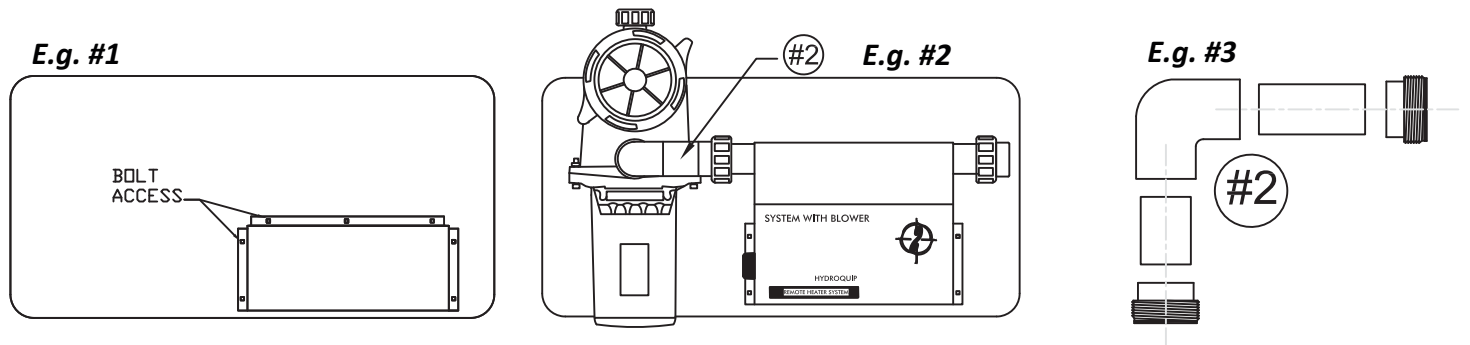
From the diagram pages, locate your pump and 8000 System equipment combination. Select from the Profile or Vertical cabinet, and Self-Priming or Flooded Suction pump. \*Diagrams display the Standard Control with Self-Priming pump on page 2 and 3.

Choose a plastic base orientation and component layout that best fits your plumbing plan and will provide unobstructed access to the 8000 Control System when complete.

#### Step #4 Placing the plastic base and equipment

Groom the intended area and place the plastic base on a flat/ level surface capable of supporting the weight of all equipment. The base must rest above grade so water is never allowed to accumulate around the equipment. Confirm the plastic base is level and arrange the base cabinet in the desired position with the access door facing the front edge (Ref. e.g. #1).

Square the base cabinet position and use the drill with 3/8" driver to secure the base cabinet to the plastic base with the 6ea. 3/4" long TEK bolts provided. TEK bolts are self-drilling and will tap and form threads into the plastic base. **CAUTION! Do not over tighten the TEK bolts or they will strip through the plastic and make the threaded hole unusable.**



#### Step #5 Assembly of upper control box to base cabinet

For slotted base connection, place the star lock washers into the Philips screws and fasten them part way into the upper control box in the pre-drilled holes shown in figure #1. Slide the control box onto the base cabinet while aligning the screws with the slotted pathways. Tighten all 4 screws once they are seated at the bottom of the base cabinet slots. Base cabinets without slots must be fit together with screw holes aligned.

Note: on Standard Control Systems a third "anchor" screw must be added to each side of the control box, once the slotted screws have been seated (ref Fig. #1).

#### Step #6 Plumbing "Header" assembly for systems provided with electric heaters (E.g. #3)

Find the Header code number on your selected diagram and assemble it to the corresponding Header configuration diagram by cutting the PVC pipe to length and "dry fitting" the pieces together. Once assembled, connect the Header between the pump and heater (E.g. #2 shows Header #2 configuration from system chart).

After confirming a good fit, finish the Header assembly process by permanently connecting the pieces together with PVC glue in the same exact configuration.

#### Step #7 Mounting the pump to the base

Install the glued Header between the pump and heater with gaskets and make sure the pump is resting flat on the plastic base.

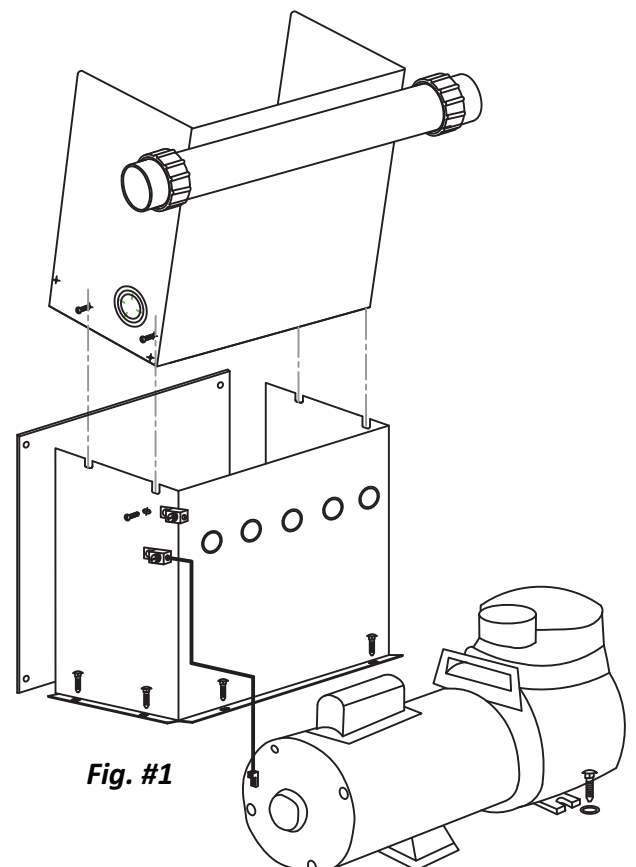
Locate the mounting slots on the pump and fasten the pump down with 1-1/4" TEK screws with 1/4" washers added.

#### Step #8 Connecting the bonding wire

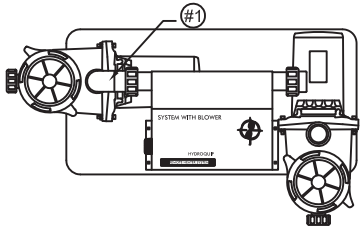
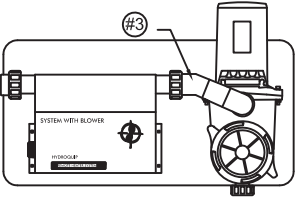
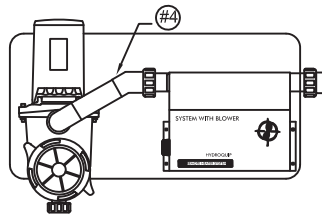
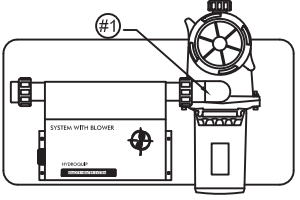
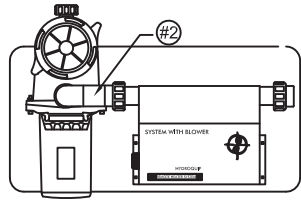
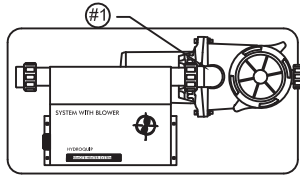
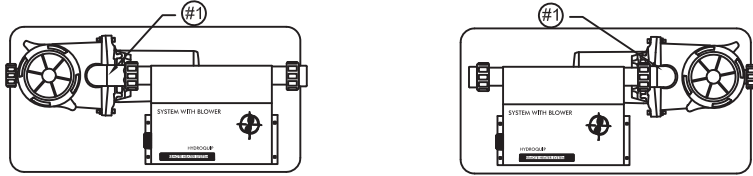
Connect one end of the #8 bare copper bonding wire to the external "bonding lug" on the pump motor. (Different location depending on pump model) Connect the other end to the provided bonding lug located on the upper control box (ref fig #1).

#### Electrical conduit access

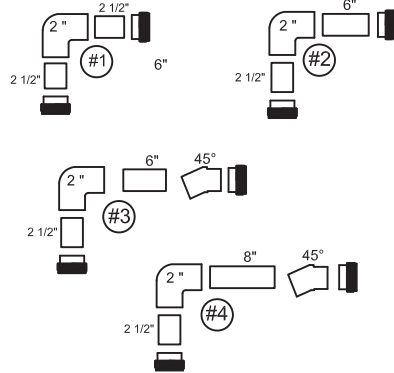
Electrical conduit for the pump and other components are to be connected to the base cabinet utilizing the provided knockouts. Main electrical service conduit is connected to either side of the top control box as shown in figure #1.



### 8000 STANDARD SYSTEM WITH SELF PRIMING PUMP



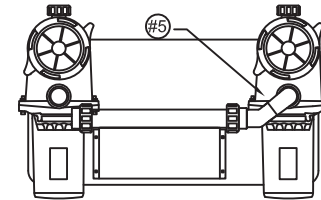
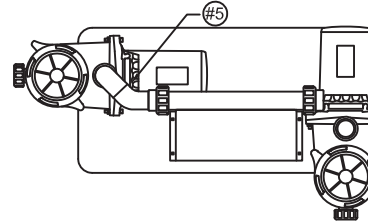
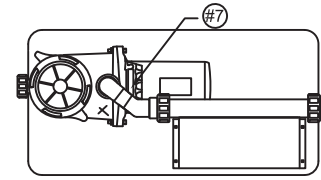
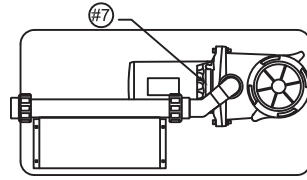
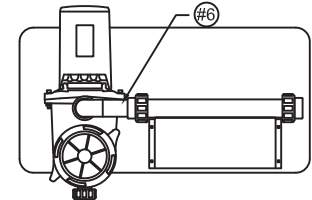
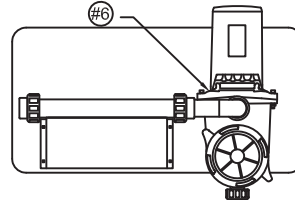
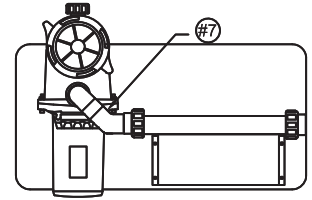
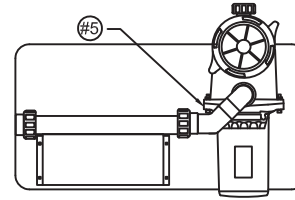
#### HEADER CONFIGURATIONS



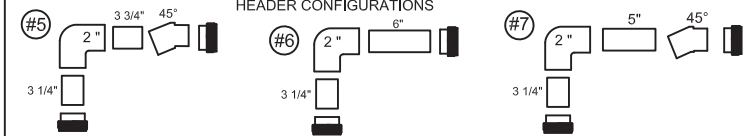
#### PROVIDED HEADER KIT

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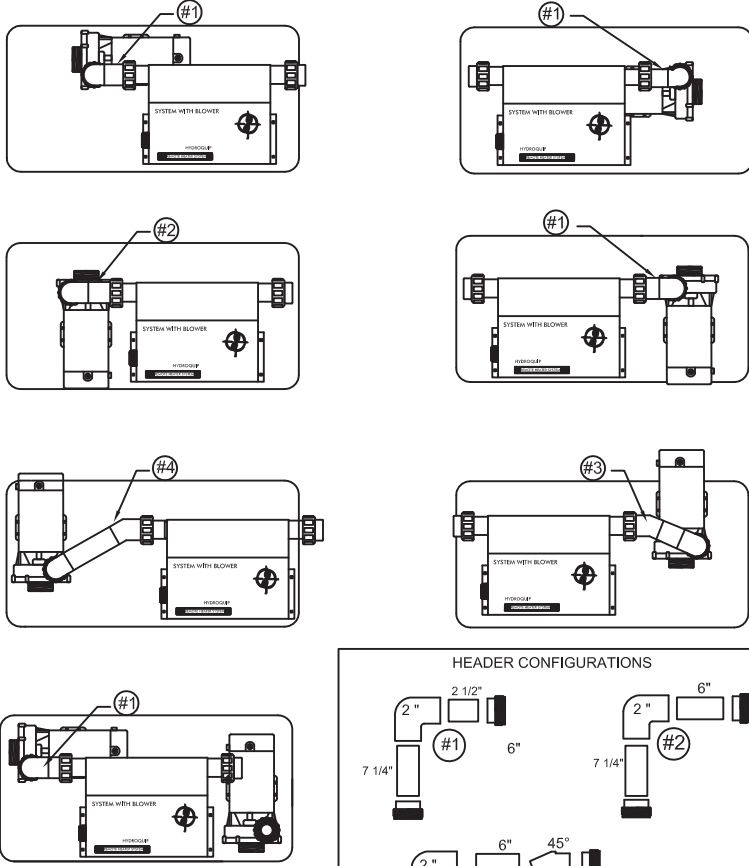
### 8000 VERTICAL SYSTEM WITH SELF PRIMING PUMP



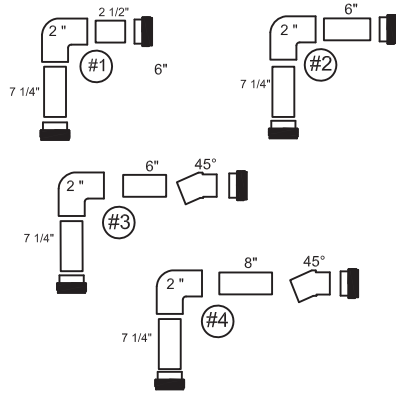
#### HEADER CONFIGURATIONS



8000 STANDARD SYSTEM WITH FLOODED SUCTION PUMP



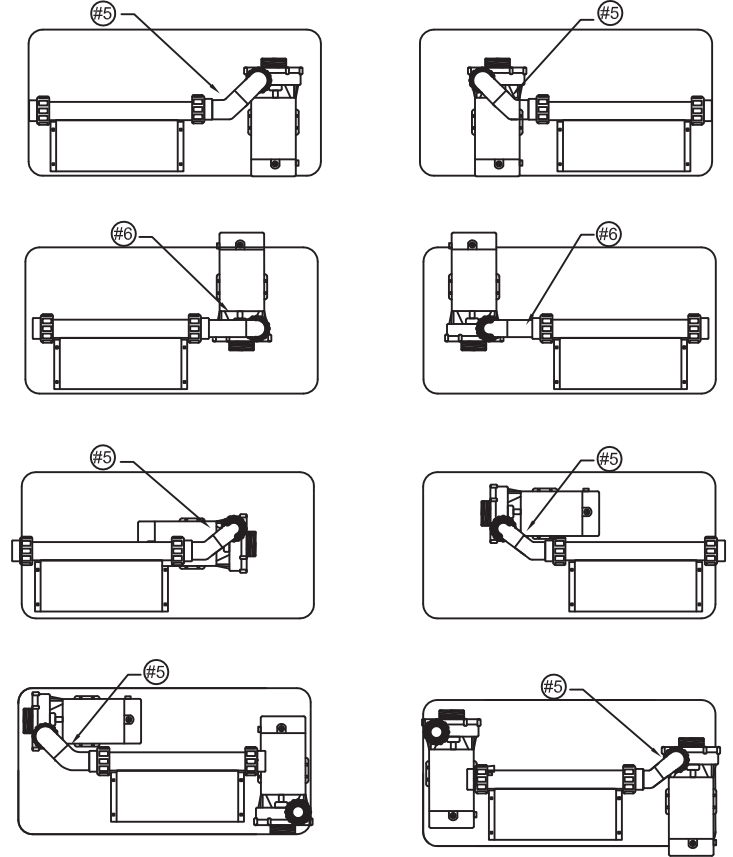
HEADER CONFIGURATIONS



PROVIDED HEADER KIT

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8000 VERTICAL SYSTEM WITH FLOODED SUCTION PUMP



HEADER CONFIGURATIONS

