

Installing Your New

HotTubWorks

FlexFit Equipment Pack



www.hottubworks.com

Your new spa pack is shipped in two boxes that contain:

- (1) 26" X 15" Base
- (1) Pump
- (1) Spa Control
- (4) #10 Screws and washers (+2 if you ordered a blower)
- (4) # 8 Screws
- (5) Wire nuts
- (1) Pump Union 2"S, UN-P20
- (1) Pump Union, 45 degree Ell 2" Spg, UNP20ELL45
- (1) Heater Tailpiece 2"S, HU-2MBT2S
- (1) Pump Union 2"S or 1-1/2"MBT per your selection.
- (1) Heater Tailpiece 2"s or 1 1/2"S per your selection.

Please inspect the package contents carefully.

WARNING!

Before proceeding further, DISCONNECT YOUR SPA'S POWER AT THE SOURCE! Read this manual thoroughly before proceeding. Another resource is the pack and control installation video available on our website:
www.hottubworks.com.

DO NOT attempt to install this equipment if you are unsure of your ability to do so. If you have any doubt, call a qualified electrician or spa tech. Damage to controls and packs caused by installation errors are not covered by warranty.



1) DISCONNECT YOUR POWER AT THE SOURCE. Next, clear out your old equipment: drain the spa and disconnect all union fittings. Then, remove the old control, pump, and blower (if you have a blower).

2) Your pack comes shipped in two boxes. This photo shows the contents of your new equipment pack: pump, control, topside keypad, plumbing parts, an equipment base, fasteners, and optional blower.



3) Looking at the equipment bay under your spa, decide if you want to use the polypro equipment base or place everything on the existing deck provided by the spa maker. In some spas, it can be easier to connect and fasten each item without our base if access is limited.

4) If your spa does not have shutoff valves on the inlet and outlet pipes, think about adding these if you have room. The next time you work on the spa, it won't need to be drained; just close the 2 valves.



5) Fasten the pump to your deck or the provided base with self tap screws and washers included.

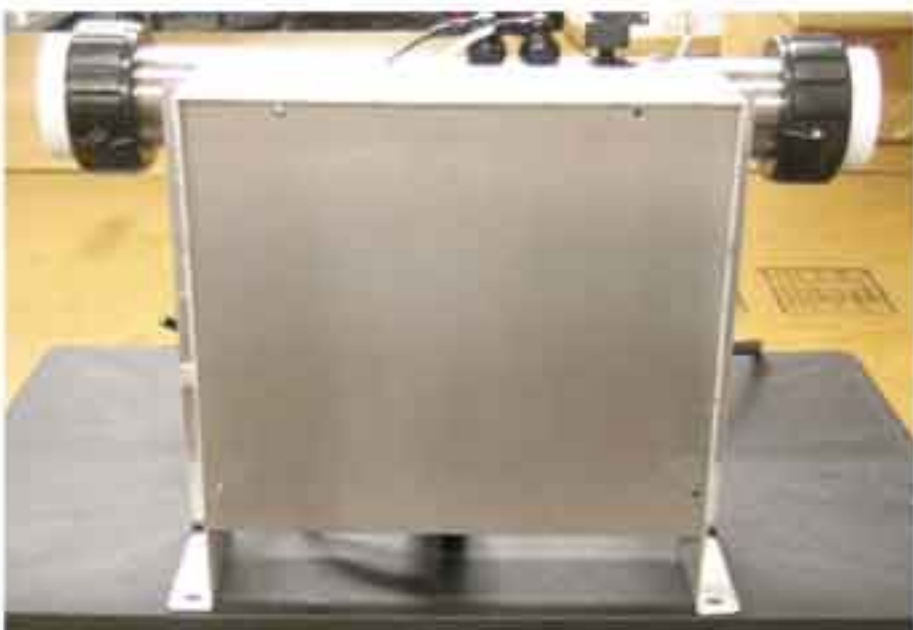
6) Fit together PVC elbows and unions as shown without glue so you can be sure everything lines up for your spa's configuration.





7) This is the typical configuration for a pump and control with a LEFT pump inlet, the suction faces to the left side, and the control with heater is on the pressure side (outlet side) of the pump. The Flexfit heater can be located anywhere.

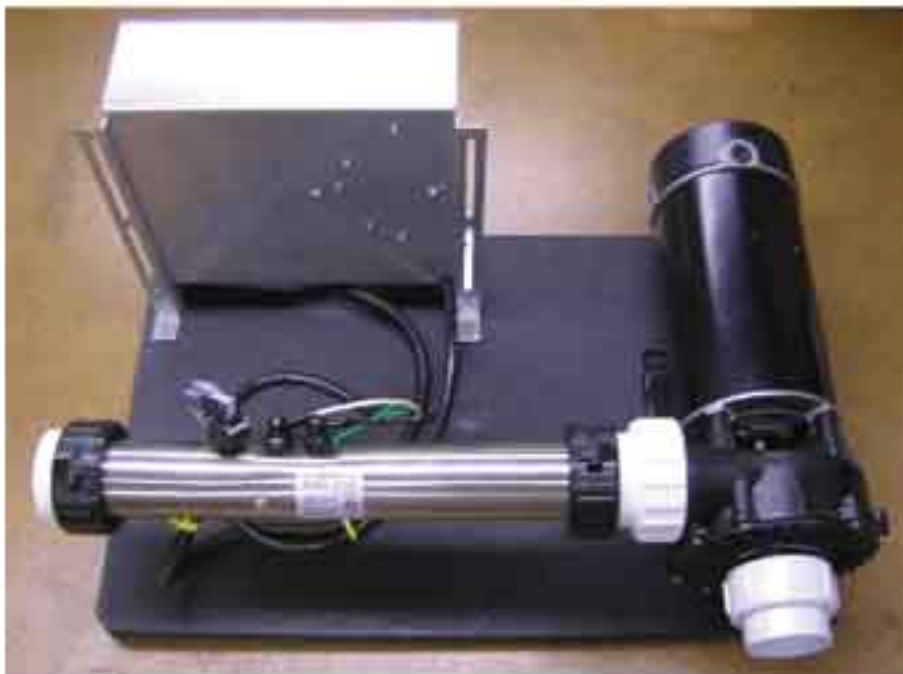
8) This is the typical configuration for a pump and control with a RIGHT pump inlet, the suction faces to the right side. As shipped, the control and heater must be used on the pressure side of the pump (an optional vacuum switch allows use on suction side).



9) The Flexfit spa control allows mounting of the heater and plumbing high, low, or anywhere in between. Remote mounting the heater onto your pump is quick, easy and perfect for many spas with a non-typical plumbing arrangement.

(Shown: heater mounted high on control box)

(Shown: heater mounted low on control box)



(Shown: heater mounted directly off pump)



10) If you have a blower, it can be fastened using the 2 plastic retainers included.



11) After you are sure everything is positioned correctly, apply PVC glue to both parts you are joining and slide them together being sure they line up as you want them before the glue sets.

IMPORTANT: DO NOT glue the threaded union fittings on the heater (hand tighten only). See below for BLOWER connection.

12) If you have a blower included, it should be connected to the PVC plumbing by driving a self-tapping screw through the PVC and plastic blower housing. **DO NOT** use PVC glue as the fumes are combustable and the motor can ignite the fumes.



13) Fasten the control to your deck or the provided base with the self tap screws included.

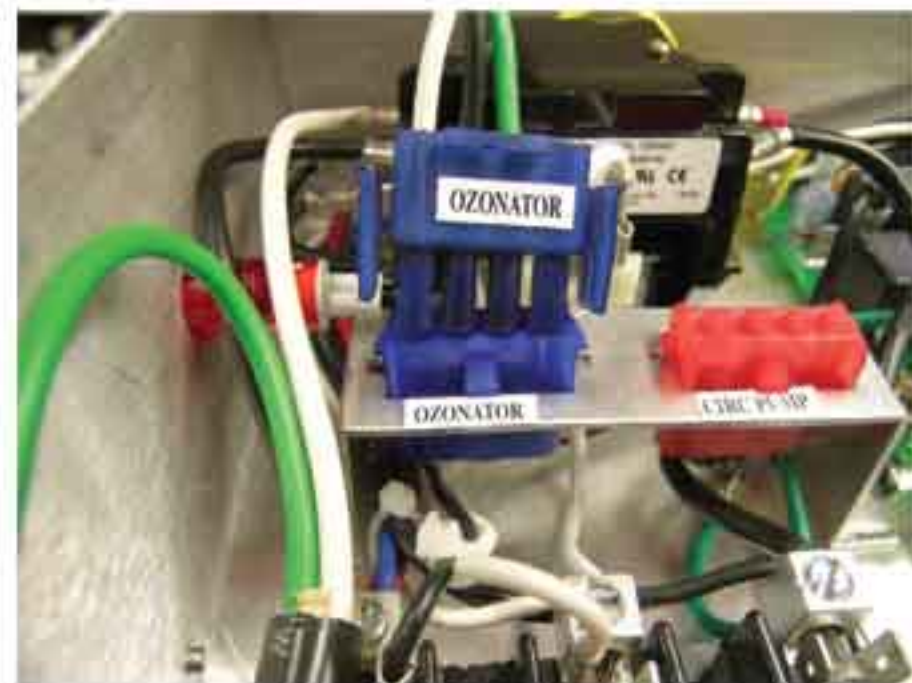
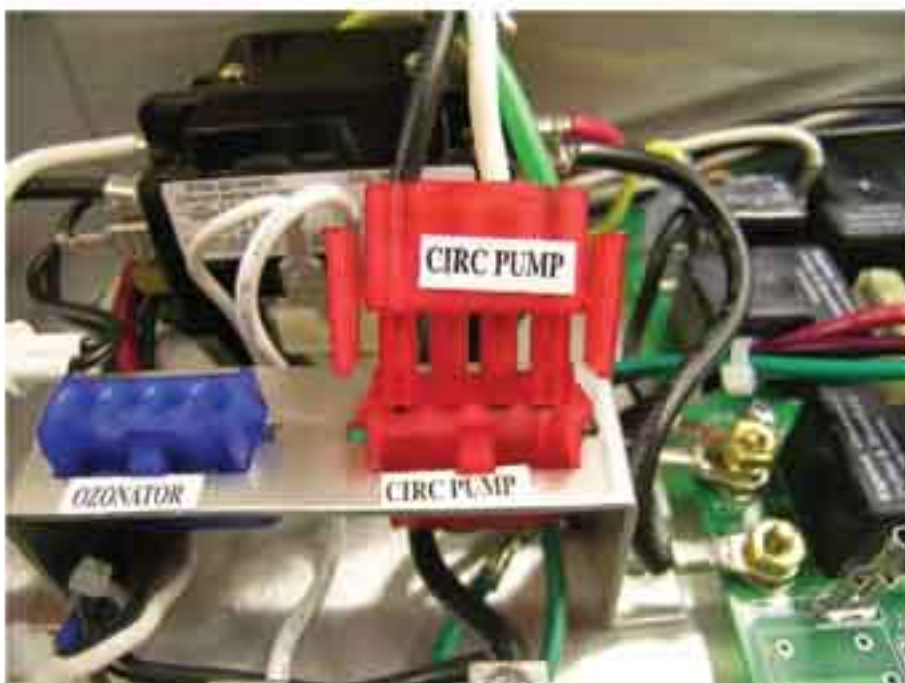
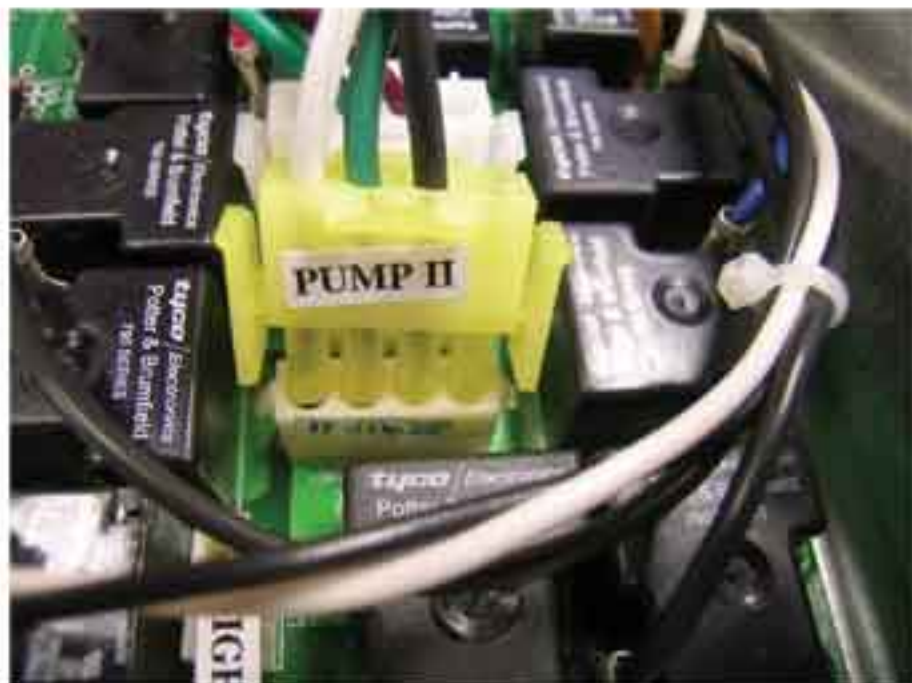
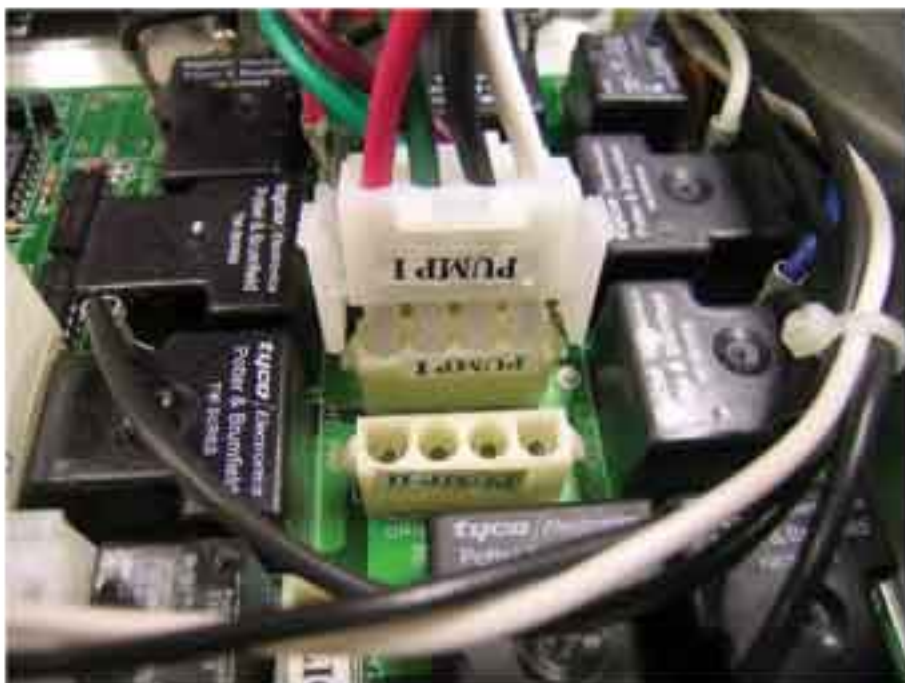
14) Self tap screws can be driven in with a screwdriver but it is faster to use an electric driver if you have one.



15) Find your spa light if you have one. It is usually in the equipment bay mounted down low. Attach to the Amp plug provided with your new spa control (note: it is a good time to install a new long-life LED spa light).

16) Now attach the power cords provided into the correct outlets on the spa control. Pumps I & II, blower and light plug directly onto main board. Ozone, Circ pump (if you have them) plug into separate receptacles.

(see images on next page)





17) Now, take each cord and slide it into the retaining slot at the lower side of the control.

Add all the cords assuring that when the cover is in place, the cords are retained.



18) After you have fastened the equipment, you can make your final plumbing connections to the water inlet of the pump and the water discharge coming out of the heater to your spa. Fill the tub and check for leaks. If there are any leaks, correct them before moving on.

19) If you used the polypropylene base included, you can fasten it to your spa frame or deck using some self tap or deck screws.



20) **Important step:** Do not make the electrical connections until **AFTER** you fully understand where each wire goes. **Be sure the power is OFF!** Get an electrician if you are unsure. Connections are labeled in the control.

21) Your new spa control has a "topside" keypad. Find a location on the spa to install it, either a 2-1/2" x 5-1/2" area for small model or 3-1/4" x 7-1/4" for the large model. Place the new keypad where your old one was, or use a saw to cut an opening if needed.





22) This photo shows an opening made on an older spa that had air buttons and is being retrofitted with a new digital "topside" keypad. If you chose an airswitched control, attach the air tubing to the new control.

Final view of installed digital keypad.



23) After the wiring is done, turn on the power to the spa. Do not start anything until you have completed one simple check: With the power on, if you have digital display, it will read the present temperature. Press the 'Temp' key and hold 2 seconds, then release.

24) The temperature should be set to the lowest setting. Press the down arrow to 40F and press 'Set'. On air switched controls, rotate the temperature counterclockwise for lowest setting. Now activate the pump and purge air from the system before increasing the heat.



Purging the system:

- Close the air control valves to the jets
- Turn the main pump on high speed
 - Let the air purge into the water
 - Turn the pump off
- Repeat this process until you don't see any air bubbles



Last but not Least ...

- Read your Owners Manual and become familiar with the features important to you.
 - Never allow the heater to run if air is in the plumbing system:
 - Every time you drain and refill your spa, set the temperature to minimum and run the pump a few minutes to purge all the air out of the system before activating the heater (see "Purging the System" on the previous page).
- Anytime several people exit the spa, the water level can drop until the skimmer is pulling in air. That air goes directly through the pump into the heater and if the heater is on, it can be damaged . Always refill your spa water if it drops below the level of the skimmer

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The logo for Hot Tub Works, featuring a blue semi-circle above a white square, all contained within a thin black rectangular border.