

# E5 PUMP POWER CORD REPLACEMENT (if needed) AND INSTALLATION INSTRUCTIONS

**Note:** In order to connect this new pump to your control box, some installations may require that you remove the included power cord and then "wire in" your old circulation pump's power cord. This may be required if your old pump plugged into a socket on your control box or if you have nowhere to connect the ring style ground connector that's found on this new production style power cord.

## INCLUDED:

- E5 circulation pump with new production style power cord
- Piece of 3/4" vinyl tubing\* (only needed on pre-1989 Hot Spring spas)
- Mounting screw

## TOOLS NEEDED:

- Wire cutters (if replacing the power cord)
- Small Phillips screw driver
- Small slotted screw driver (if replacing the power cord)
- Vice grips or locking pinch off pliers (if spa is not drained)

## BEFORE YOU GET STARTED:

- Turn off the power to your spa
- Drain your spa or clamp off water lines if spa is not drained
- Remove your old circulation pump

## STEP 1: PREPARATION TO REPLACE POWER CORD

(if you can use the included power cord then skip to step 4)

A. Unfasten the screw from the rear cap. You will need to carefully remove the cap from the pump, as there is an o-ring in place.

(NOTE: The screw may be covered by a sticker located in the center of the rear cap )

B. Remove two inches (2") of sheathe from the circulation pump's power cord.

C. Remove a half inch (1/2") of the wire insulation from each of the three wires, black, white and green.

(Note: If you're replacing a Silentflo 5002 read step 3).

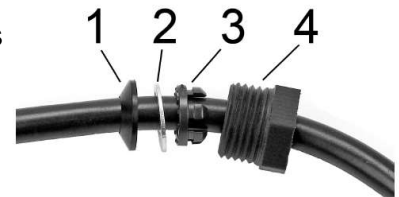
Make sure to twist the end of each of the wires so they can be easily inserted into their terminals in step 3.



## STEP 2: POWER CORD INSTALLATION

**Note:** For this step, you will need all of the cable assembly components (\*\*cable seal nut fitting, rubber cable seal, washer, cord grip) and the circulation pump's power cord.

A. Insert your old circulation pump's power cord through the cable seal nut (4), the cord grip (3), the washer (2), then insert it through the rubber cable seal (1).



1. Rubber cable seal
2. Washer
3. Cord Grip
4. Cable seal nut fitting

B. The complete cable assembly can now be inserted into the side of the circulation pump by pushing the wire ends through the hole. Run the cable assembly down the cord until it reaches the base of the circulation pump's hole, then tighten down the cable seal nut on to the pump. Hand tightening will be fine.

### STEP 3: TERMINAL BLOCK WIRING

A. Place the circulation pump down, facing you, and the terminal block is at the bottom. The terminals for each of the wires are as follows: left is labeled with a Ground symbol (green wire), top is labeled **L** (black wire), and middle is labeled **N** (white wire).

**Note:** If you're replacing a Silentflo 5002 your power cord will have a fourth wire (red). Your control box will send power through this red wire so it is important to place a small wire nut on the end of it. The red wire was used to engage the second speed on the Silentflo 5002 and not needed on this pump.

B. To insert the wires into their corresponding terminals, you will slide back the black tab above each terminal with your thumb, one at a time (here we used a small slotted screw driver) and insert the single wire into the hole, once it is in place you can release the black tab. **WARNING:** The tabs do NOT lift up. The tabs need to be pushed back not lift up.

C. Reinstall the back cover and screw in place.

**Note:** Make sure not to pinch the o-ring.

D. Reinstall any bonding ground wire (if your old circ pump was connected to a bare copper bonding wire) to the silver brass bonding terminal on the side of the circulation pump.

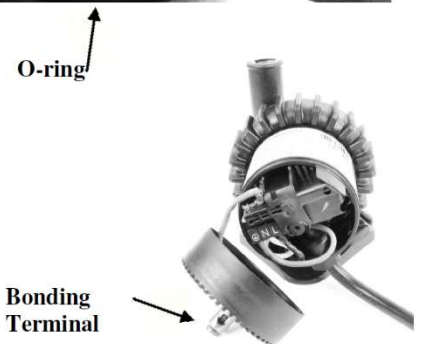
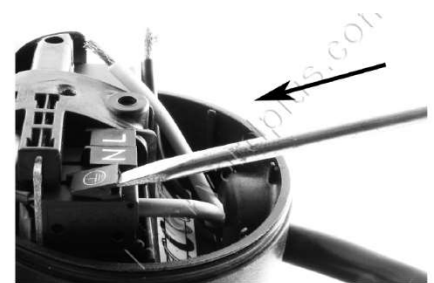
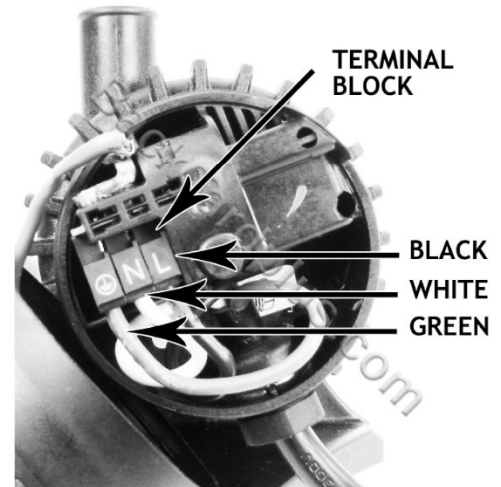
### STEP 4: COMPLETING INSTALLATION

A. Reinstall water lines and secure with clamps. (You may lay this pump on its side in order to connect up to your existing tubing to avoid re-plumbing. This magnetic drive pump can operate at any angle.)

B. Connect power cord to control box

C. You may secure this pump to the equipment compartment floor using the included short screw.

D. Fill your spa completely before applying power.



**Do not run the pump dry.**

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