

Watermaid installation

The instructions given here is a condensed version of the detailed instructions given in the owners manual. It is recommended that you refer to the owner's manual if you have any questions about the installation.

Watermaid Canada recommends that a licensed electrician and plumber be used to install this equipment to ensure safety and trouble free performance.

ADDING SALT

*NOTE: while dissolving salt, the Watermaid unit **MUST** be selected off to prevent damage to the cell*

(WHAT) TYPE OF SALT

In Canada we suggest a clean form of WATER SOFTENER SALT or fine grind pool salt found at pool shops and hardware stores. In coastal provinces sea salt may be a cheap and easy way to add salt to your pool.

(WHERE) TO ADD THE SALT

Salt is simple poured into the pool to get the start up level required. If your pool has a jet on the step, it is best to dump the salt onto the step and allow the water flow to dissolve the salt quickly. If you do not plan to swim right away, the salt can be dumped into the shallow end of the pool and brushed around to speed the rate at which it dissolves. If you want to swim right away, put the salt in the deep end of the pool. **In a vinyl lined pool there is a risk of tearing the liner if a large piece of salt is stepped on.** In the deep end, the salt will take longer to dissolve (as much as 2 days for water softener salt)

(HOW) MUCH SALT TO ADD

Watermaid recommends a salt level of 6000 parts per million (PPM)

To Initially start a pool with the correct amount of salt,
Add Salt to the pool at the rate of:

6 grams / 0.006 Kilograms of salt for every 1 Litre of water
or

0.22 ounces / 0.05 Pounds of salt for every 1 US Gallon of water.

A salt calculator is found on line at the web site below to assist you with the calculation of salt required. The link below will take you directly to the calculator

<http://www.isweb.com.au/salt/>

PLEASE NOTE: If it is an existing pool that has been running on chlorine or bromine, test the salt in the pool before adding any more. It is common to have a salt level of 2000 – 3000 ppm already. These compounds are salt based and accumulate in the pool.

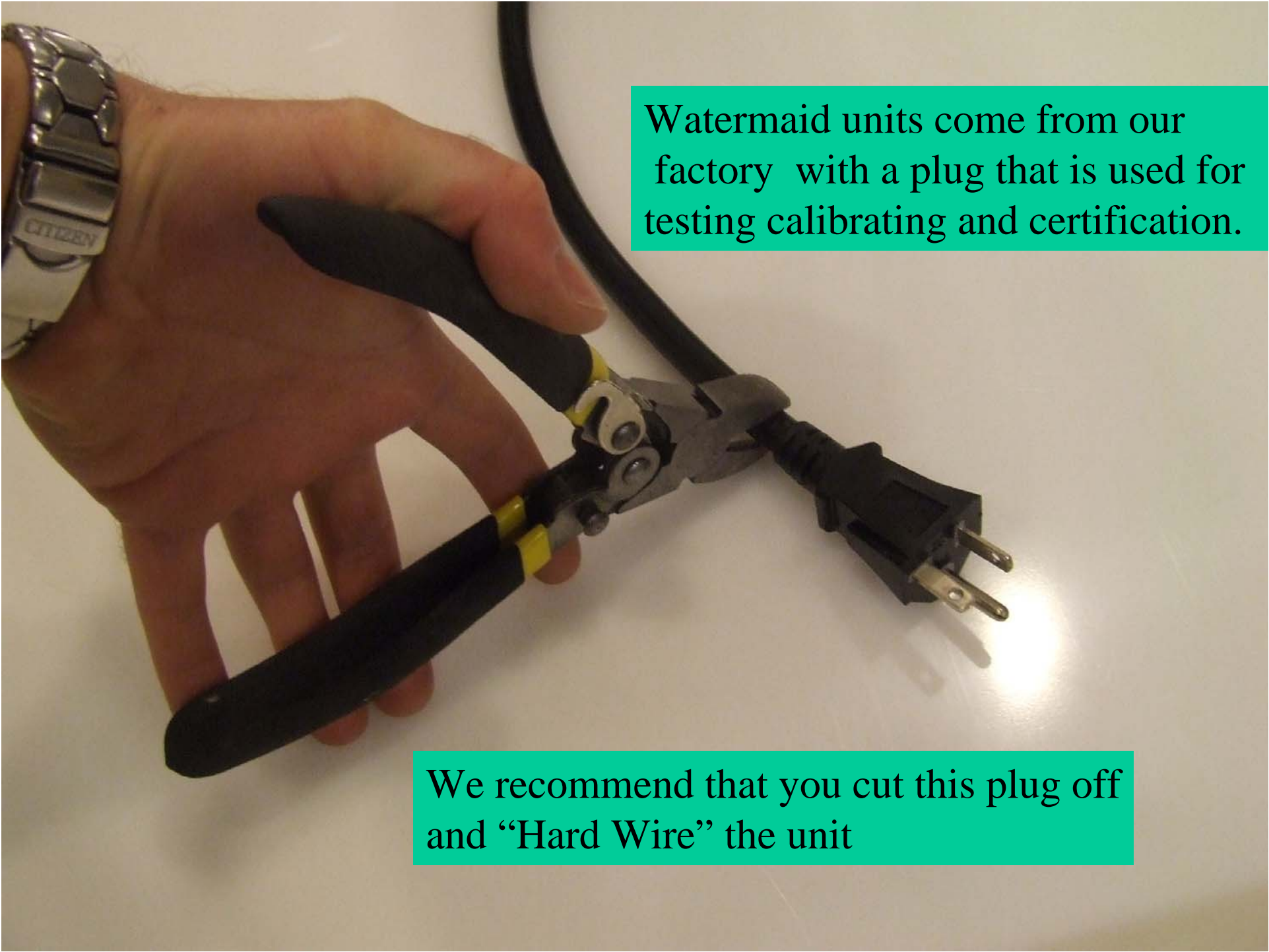
INSTALLING THE UNIT

ELECTRICAL CONNECTION

The Watermaid power pack **MUST** be wired so that when the pool pump comes on the Watermaid unit is powered. If the unit is not wired with the pump, damage to the cell and or power pack will result and the warranty will be void.

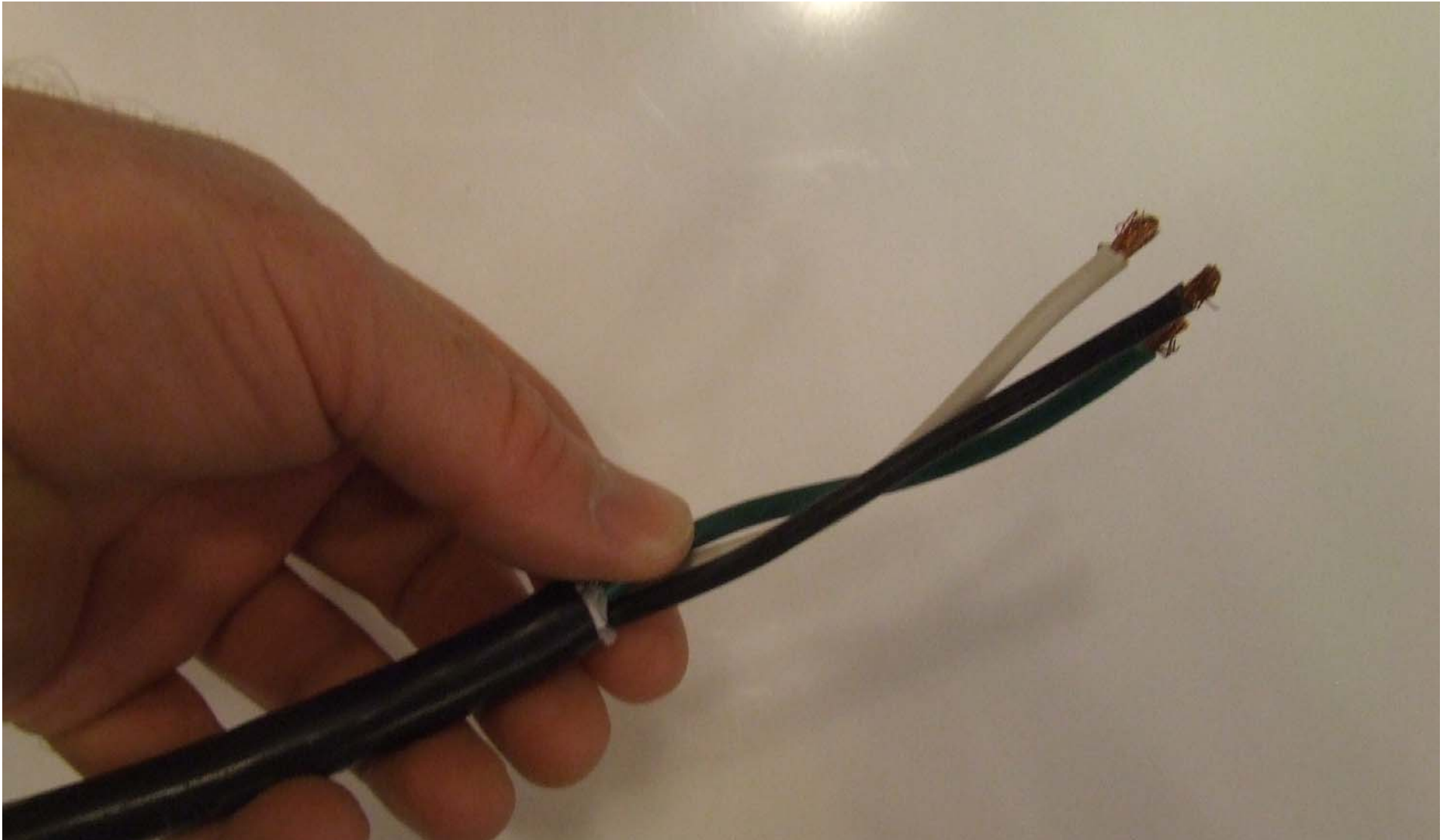
Watermaid has units for 120 volts and 240 volts. Please ensure that you check the pump supply voltage and match your unit to the available power.

To ease installation, the Watermaid unit is supplied with a “Liquid Tight” connector for use with flexible PVC conduit.

A close-up photograph showing a person's hand, wearing a silver Citizen watch, using black-handled wire cutters to cut a black power cord. The cutters are positioned at the junction of the cord and a black two-prong electrical plug. The background is a plain, light-colored surface.

Watermaid units come from our factory with a plug that is used for testing calibrating and certification.

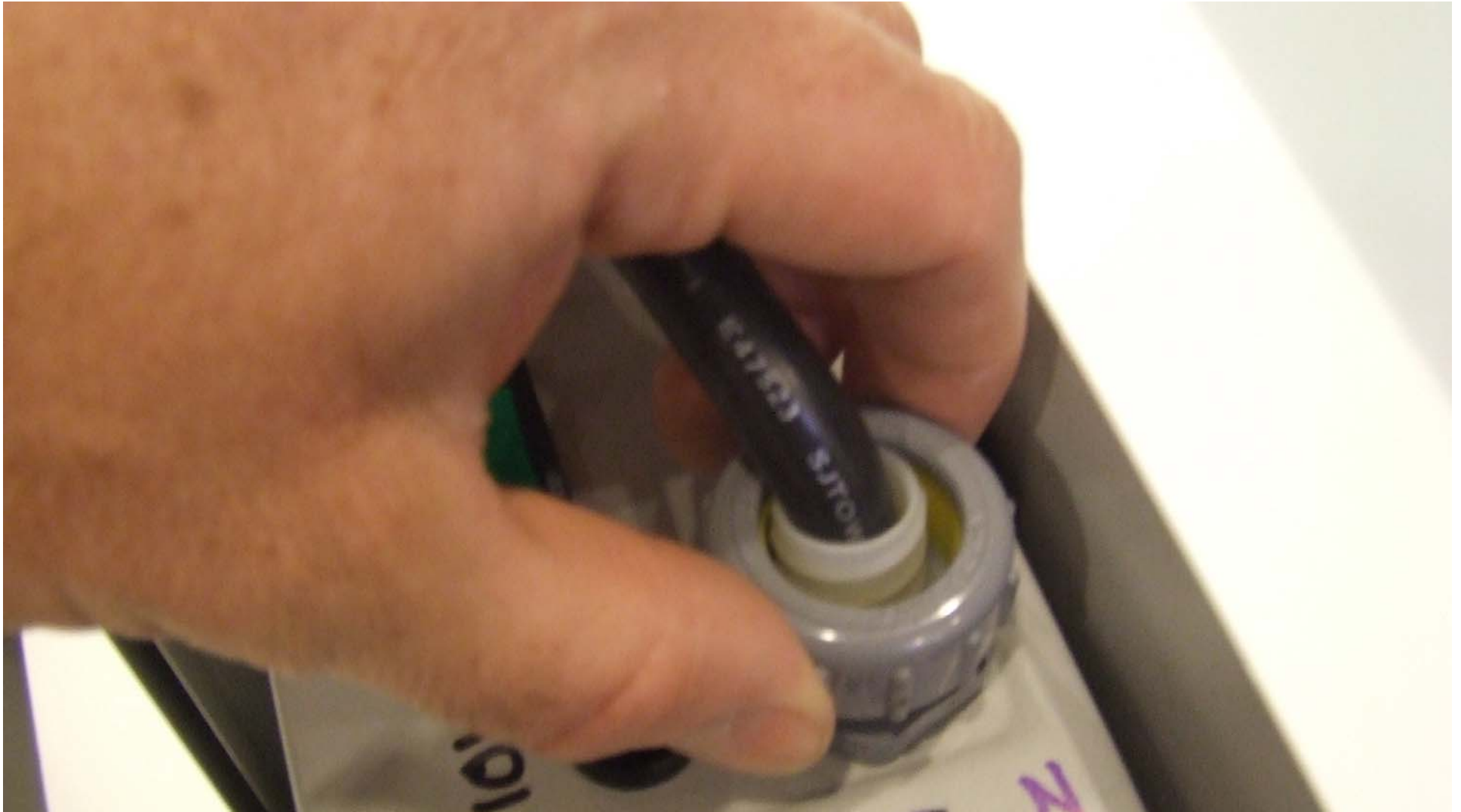
We recommend that you cut this plug off and “Hard Wire” the unit



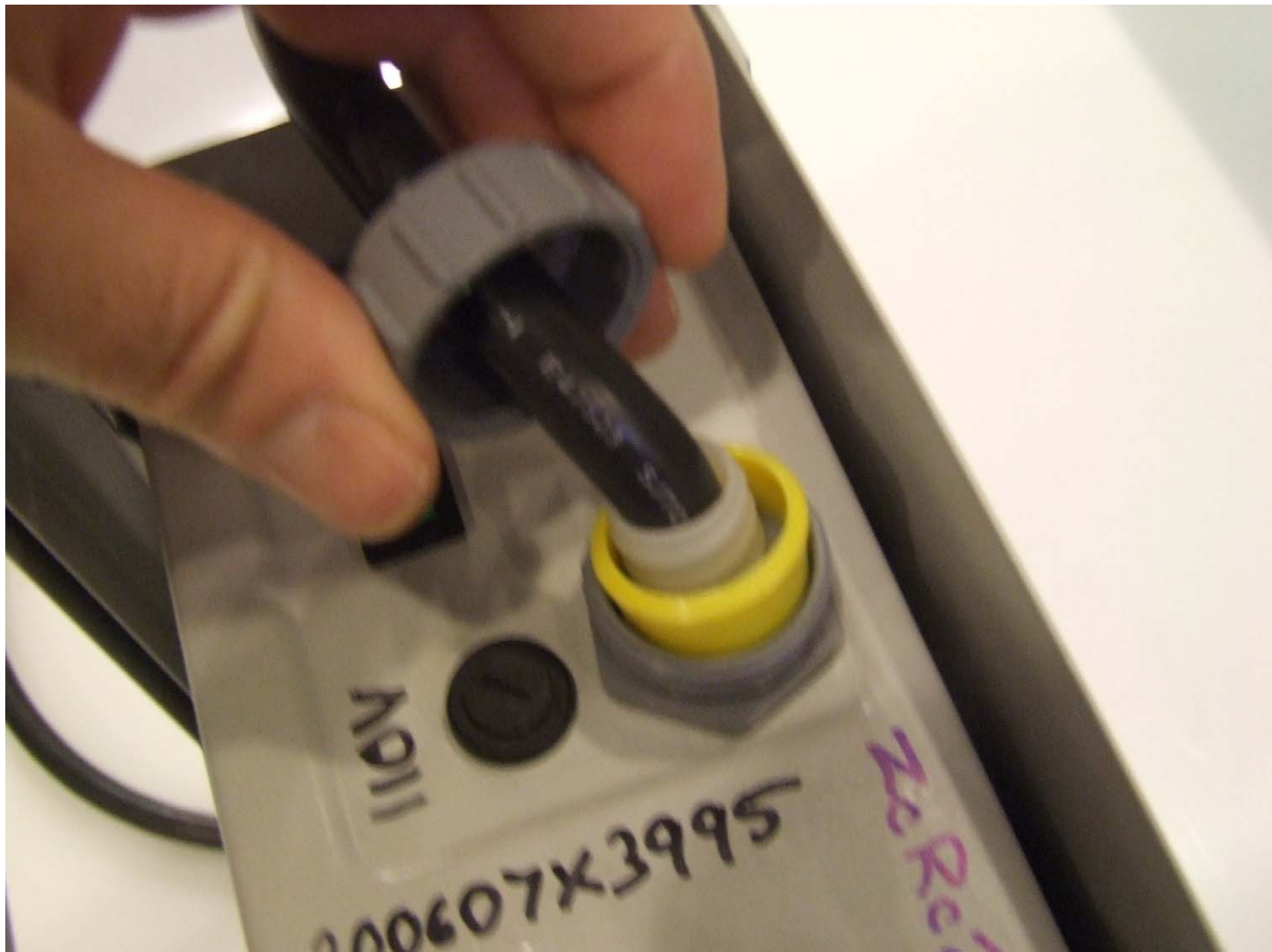
The factory supplied plug is cut off, the insulation is stripped back and the insulation on the conductors is also stripped back

Your unit comes with a Liquid Tight connector for installation with flexible PVC conduit





To install the power cable using flexible PVC conduit, remove the threaded compression nut from the Liquid Tight coupler





Remove the compression ring

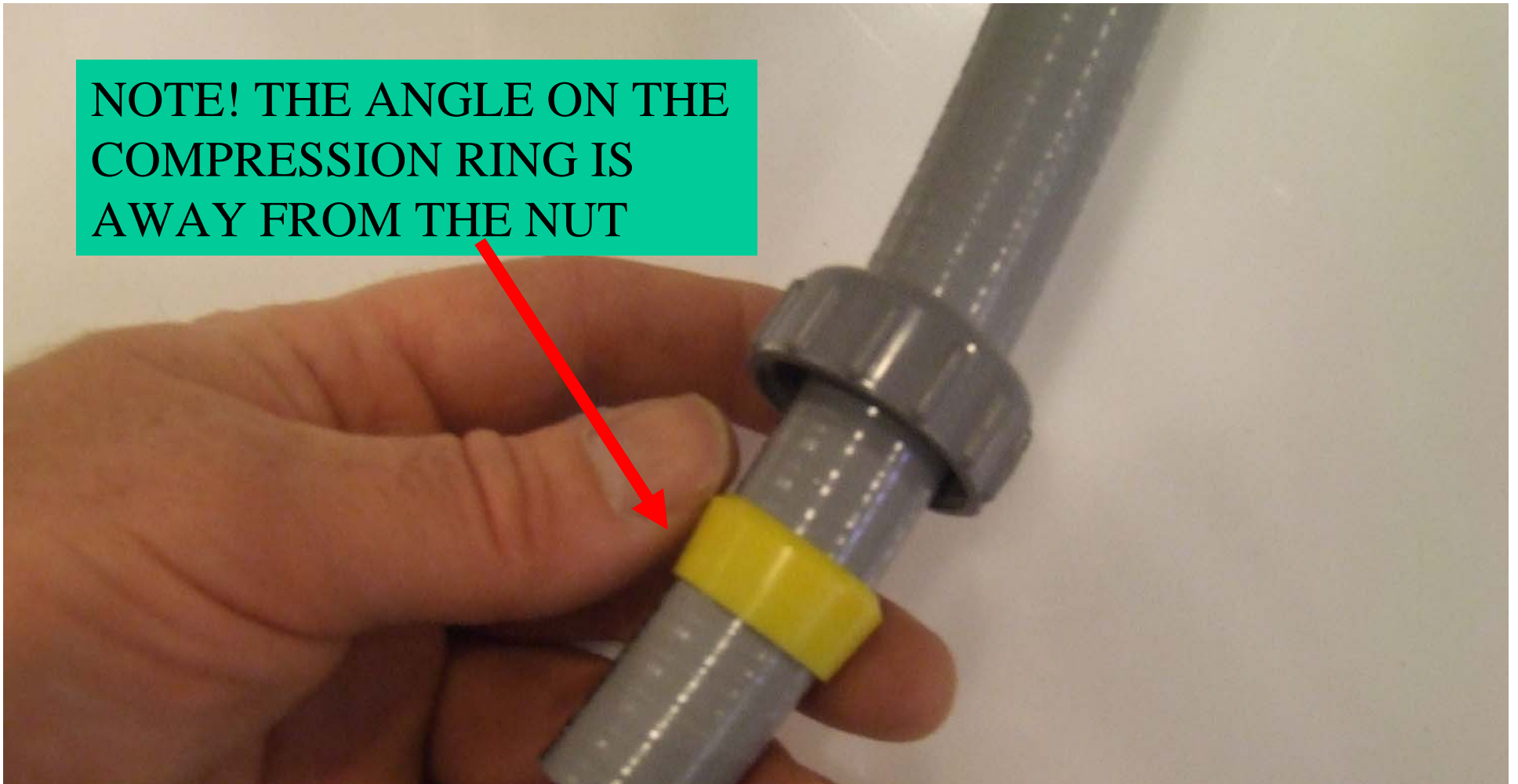
Remove the threaded insert. Note the hex socket in the base to hold the threaded insert and ease installation if needed



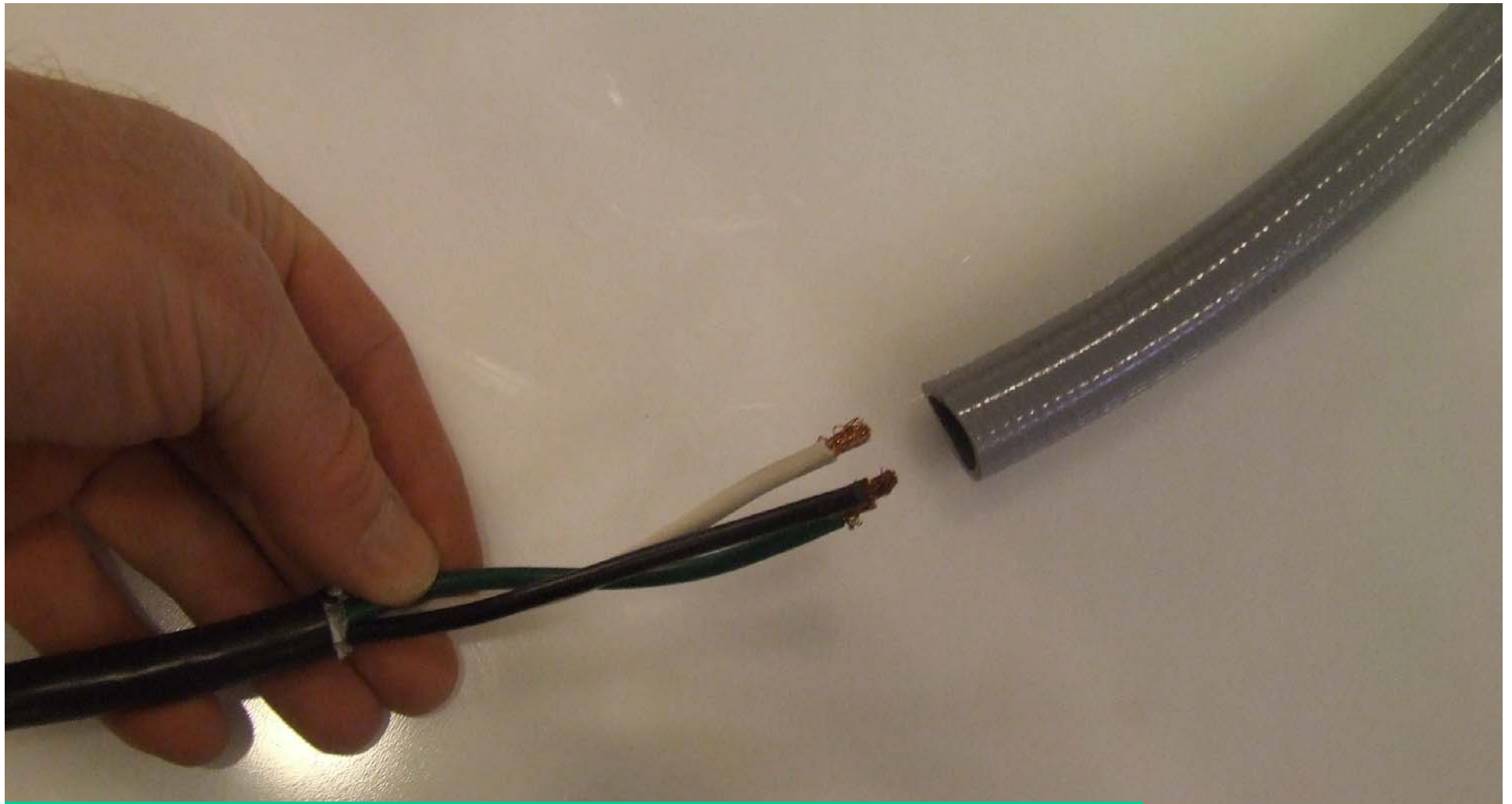
The flexible PVC conduit is cut square to accept the threaded insert



NOTE! THE ANGLE ON THE
COMPRESSION RING IS
AWAY FROM THE NUT



The threaded compression nut and the
compression ring are slipped over
the conduit



The supply wires are then fed into the flexible conduit





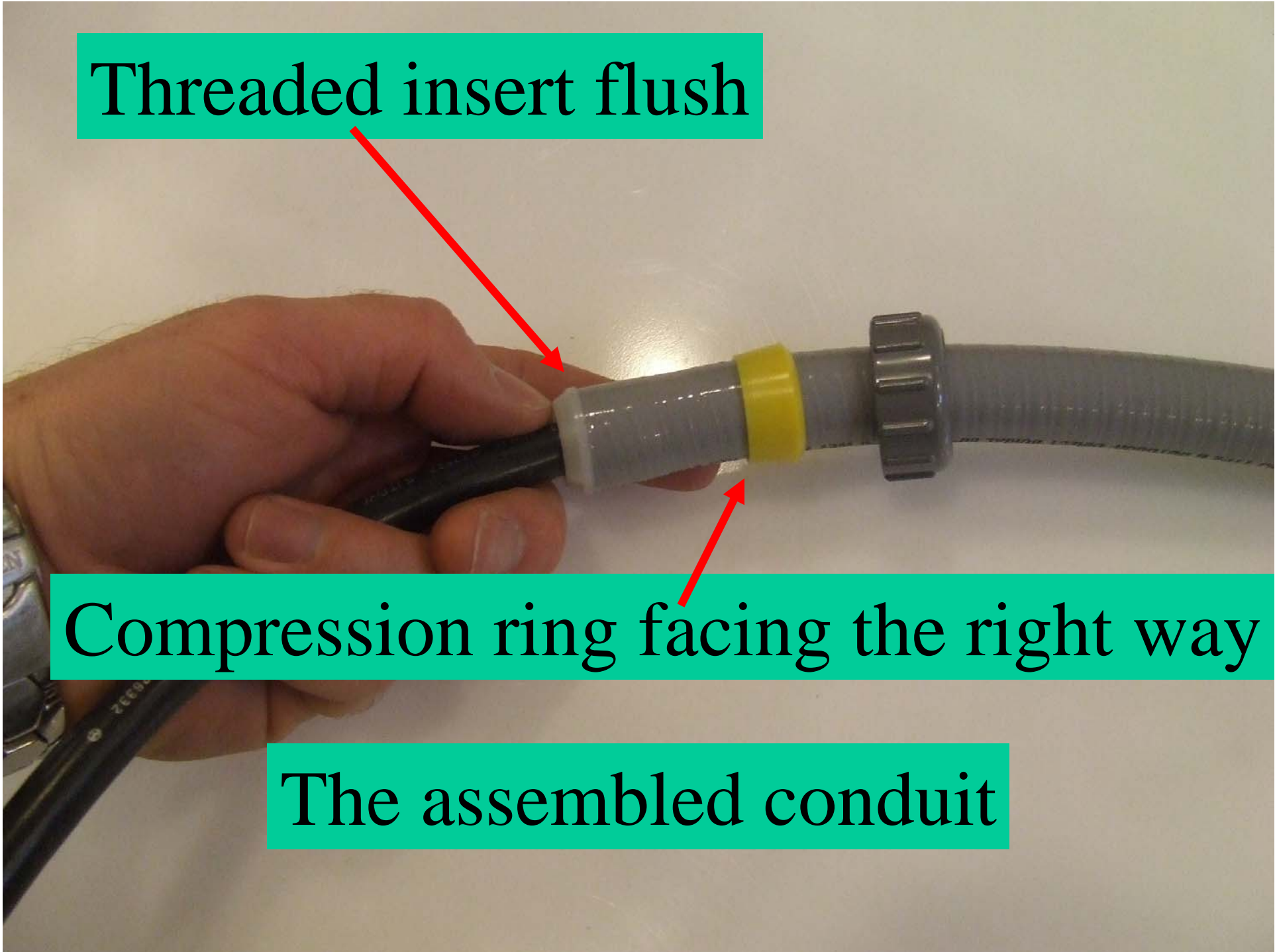
The threaded insert is threaded into the flexible conduit



Threaded insert flush

Compression ring facing the right way

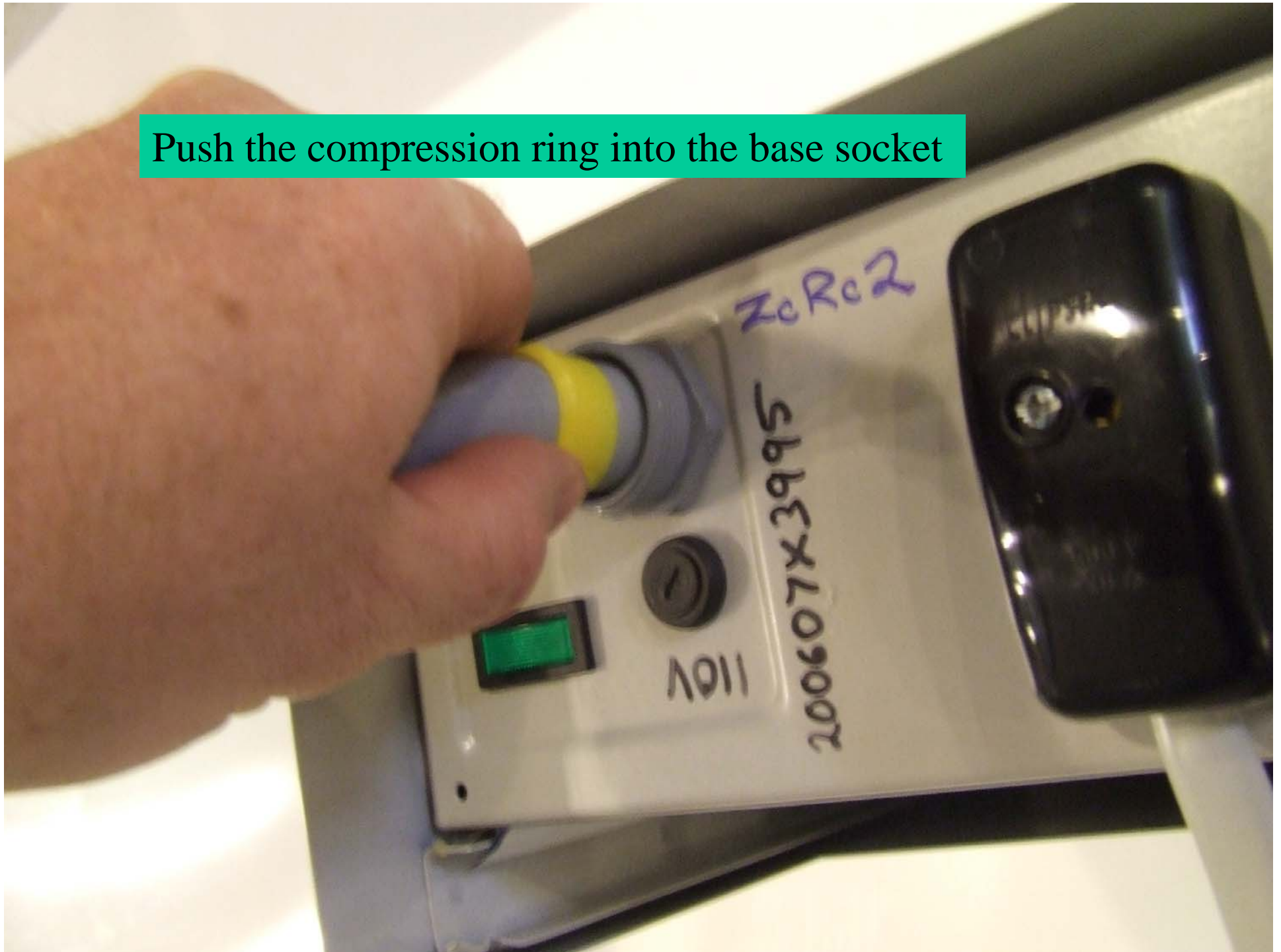
The assembled conduit



Insert the assembly into the base socket



Push the compression ring into the base socket



Slide the compression nut up to the base socket



Tighten the compression nut finger tight only





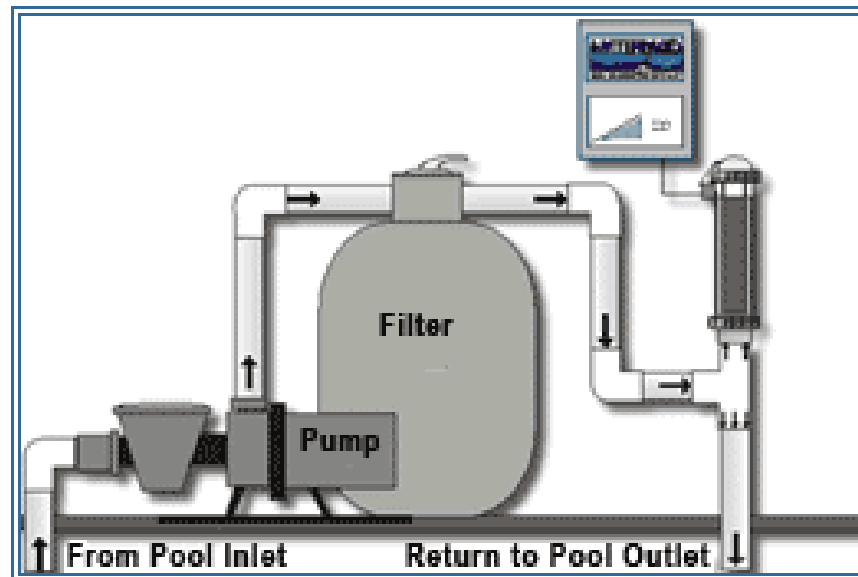
Installation complete

200607X3995

N.P.2

Mounting the power pack

The power pack is simply hung on a stainless steel bracket, which is secured to the wall or similar vertical surface.

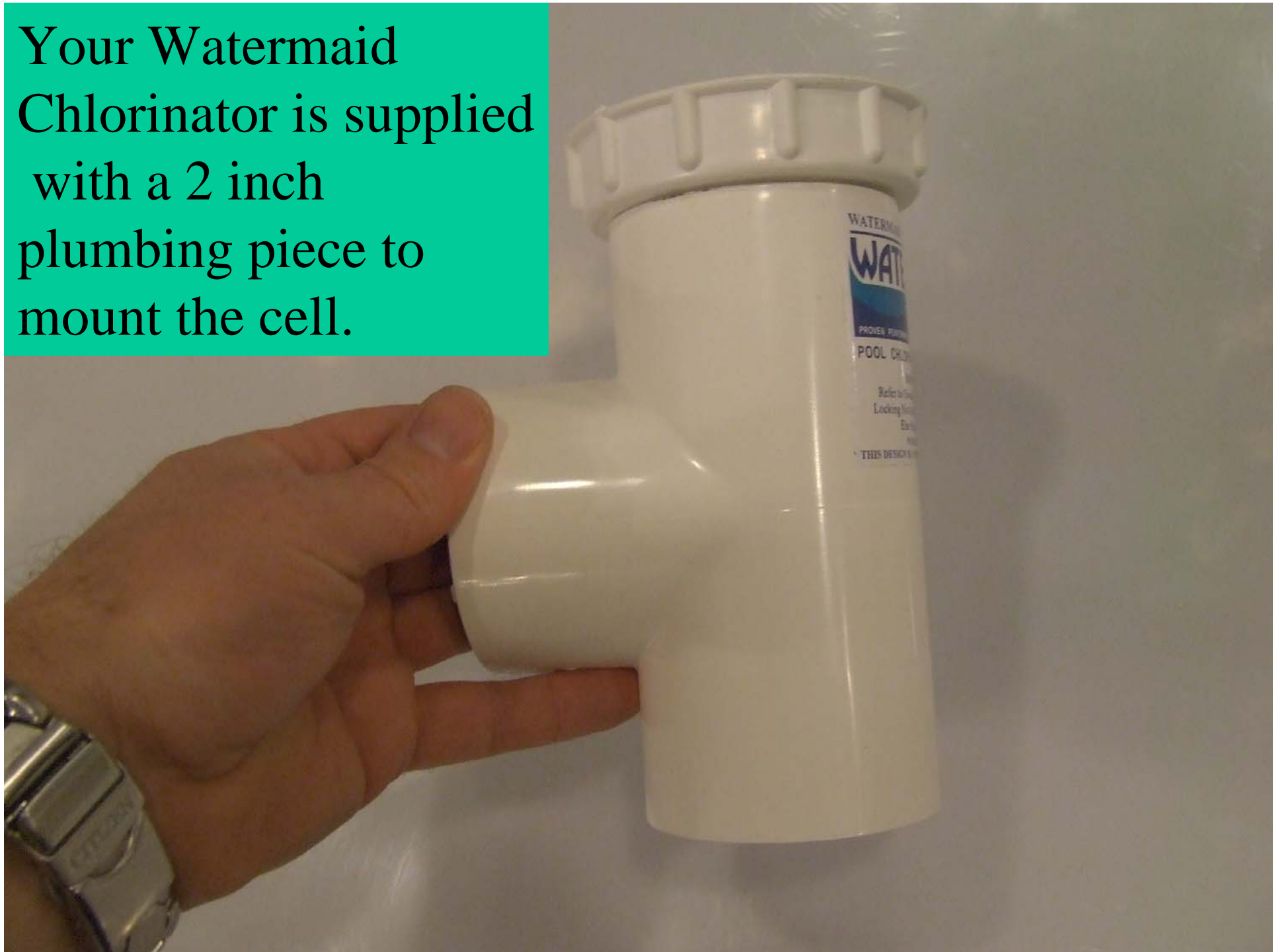


MOUNTING THE VENTURI ASSEMBLY

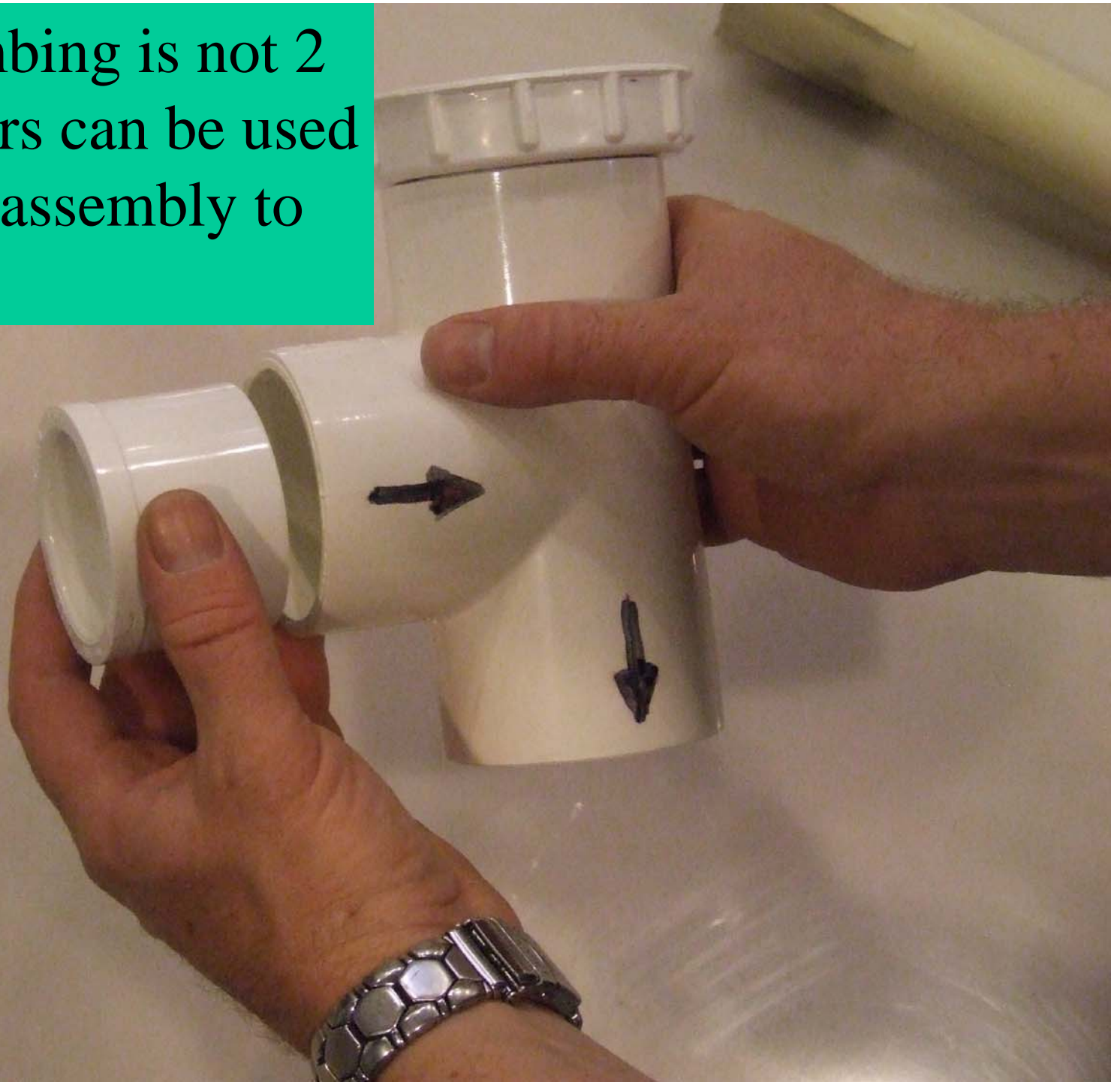
The venturi is mounted in the pipe work after all other equipment and before any diversions to waterfalls or other equipment. Ideally the venturi is located 5 feet from and below the outlet of the heater. This however is rarely achievable. The cell may be installed closer to the heater but the operational caution below **MUST** be observed or damage to the cell will result.

CAUTION: The heater must be selected off for 5 minutes with the pool pump operating before selecting the pump off. If the pump is selected off while the heater is operating, there is a risk of a burp of hot water and steam traveling down the plumbing, entering the cell and damaging it. This damage is **NOT** covered by warranty.

Your Watermaid Chlorinator is supplied with a 2 inch plumbing piece to mount the cell.



If your plumbing is not 2 inch, reducers can be used to adapt the assembly to 1.5 inch



To glue up the assembly, first remove the center venturi tube

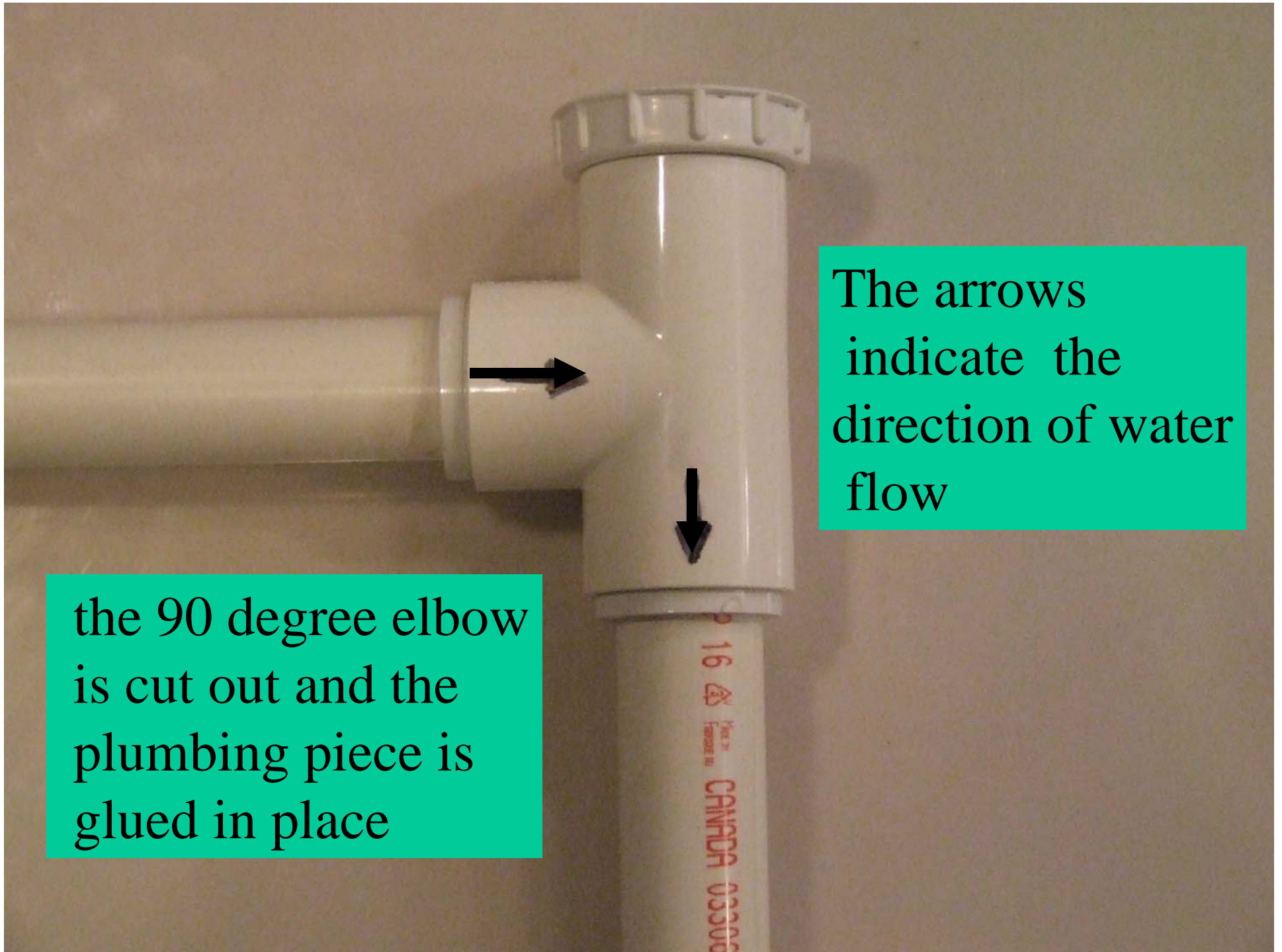


Glue in the reducers
if required



When the installation is complete, the plumbing piece will typically replace a 90 degree elbow **AFTER** all of the equipment on the pool pad. This is usually the heater

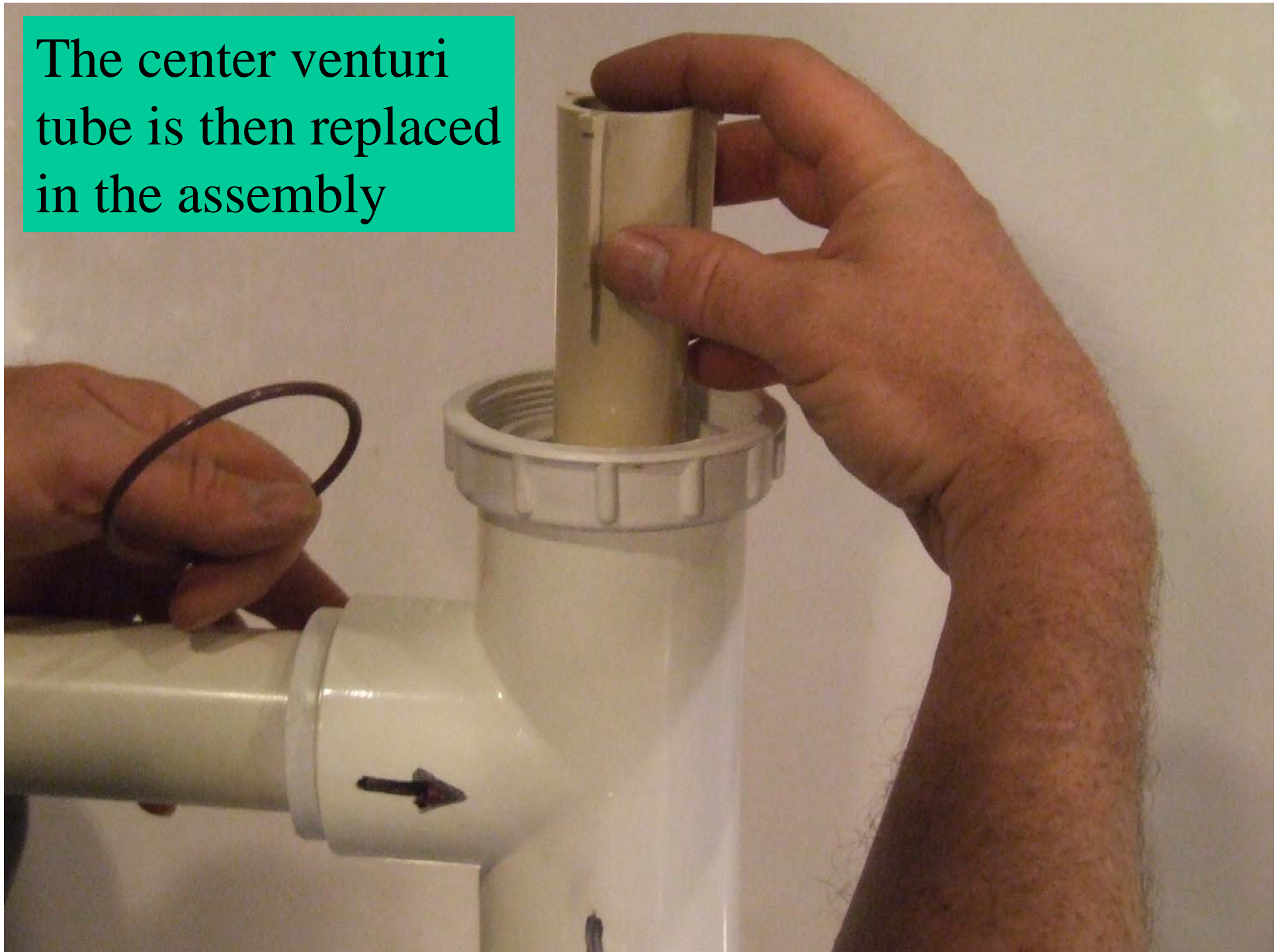




The arrows indicate the direction of water flow

the 90 degree elbow is cut out and the plumbing piece is glued in place

The center venturi tube is then replaced in the assembly



The O-ring is then installed





Finally the cell is installed on the venturi assembly. Lubricating the O-ring and threads of the barrel nut with petroleum jelly will make installation easier

WHAT ELSE DO I NEED TO DO?

Watermaid recommends that you add 15 to 20 kg of magnesium sulphate (Epsom salts) to your pool. This will make the deposits in the cell mushy and allow them to slough off easier during the self-clean cycle of the unit. Watermaid sells pre-packaged magnesium sulphate. Please contact your local area representative or contact our head office at 1-877-987-6243



Watermaid also recommends the use of Natural Chemistry Salt Water Pool Products. These products which were specifically chosen to be as environmentally friendly as possible will remove organics air born and introduced pollutants as well as phosphates from your pool. These easy to use products will ensure an algae free pool for the entire pool season.



AND FINALLY

To start the system for the first time, ensure that the proper salt level is in the pool and dissolved. Select 100% output on the unit and leave it at this setting until the free chlorine levels in your pool start to climb over 1 ppm. At this point, you can start reducing the unit output to prevent over chlorination of your pool. Test and maintain proper pool chemistry on a regular basis and enjoy you Watermaid pool.