TOTAL CHARGE

Total Charge
24601 Patterson Road
Robertsdale, AL 36567

TOTAL CHARGE

USER MANUAL

TC5000

Hydro Stimulation Unit

Warranty

The Manufacturer of the TotalCharge Model TC5000 Hydro-stimulation Unit warrants to the original purchaser that the product will be free from defect in workmanship or materials for the below mentioned period for normal use as described in the User Manual included with the product at purchase.

The warranty begins upon purchase of the Model TC5000 Hydro-stimulation Unit. To obtain warranty service, "proof of purchase" must be provided. A copy of a sales receipt or invoice, which clearly shows the date of purchase and place of purchase, is required.
The warranty period for TotalCharge Model TC5000 Hydro-stimulation Unit is 7 year.
The manufacturer reserves the right to repair, and/or replace, and/or substitute any defective product with an equal or more current model (without charge for parts and labor.)

THE WARRANTY DOES NOT COVER THE FOLLOWING

1. Product used for a purpose other than that described by the user manual.
2. Product that has been modified or repaired by anyone other than an authorized repairer.
3. Product that has been subjected to accident, misuse or abuse.
4. All accessory and consumable items including: positive ring & strip sets, the copper ring, fuses and DC cable.

The product warranty does not cover any shipping charges, nor does the warranty cover any damages that may occur during shipping. The manufacturer assumes no risk for loss or damage to shipment.

HOW TO RECEIVE WARRANTY SERVICE

Before returning product for warranty service, authorization must be obtained. For authorization information, contact your place of purchase.

Contents

General

The Henning Innovations Hydro-Stimulation Unit is designed and manufactured in the USA, The Model TC5000 represents years of design experience in creating the safest and most reliable unit. The TC5000 is well suited to the professional user with its advanced construction, reliability, and ease of operation. Features include a built in timer, variable output control and easy to read instrumentation. The Model TC5000 has the highest level of safety features, which include:

1. Double fuse protection
2. Thermal circuit trip switch
3. Quick release DC connection
4. GFCI Safety technology
5. The TC5000 is designed and built to comply with UL & CE mark requirements.
6. The GFCI Safety Feature: (A GFCI is a mandatory electrical safety device required for all portable spas as specified in the National Electrical Code Article 680.)
7. The GFCI for all TC5000 units meets or exceeds the UL trip thresholds.

Testing and Code Compliance

UL Standard 943 Class A GFCI
UL Recognized component (File #48380)
CSA Certified (LR-57811)

Technical Information:

Model TC5000 Power Supply
Input: 110 to 120 Vac 50/60Hz, 130W
Output: Isolated, rectified and filtered 24V DC © 5.4Amps
Dimensions: 8½ (215mm)W x 8 (202mm)D x 5 (132mm)H
Weight: 6½ Lbs (2.9 kg)

Indicator light on the GFCI not coming on.

Possible Cause: GFCI is not switched on. Power source outlet has no power. GFCI not functioning.

Action: Press the reset button on the GFCI. Try another power outlet. If light still fails to come on contact the manufacturer for replacement.

Indicator light on the GFCI is on but indicator light on the power supply is not coming on.

Possible Cause: GFCI power cord not plugged into power supply firmly. The timer is not turned on past 10. Power control is not switched on. Fuses are blown.

Action: Check to see if the GFCI power cord is plugged into the power supply firmly. Turn the timer on past 10. Turn the on/off power control knob clockwise to switch on the power supply. Replace fuses with those of identical rating. If indicator light still fails to come on contact the manufacturer.

Blows fuses continuously.

Possible Cause: The replaceable strip in the module may be fitted incorrectly.

Action: Check to see that the strip is connected to the correct rings, e.g. Ring 2 position 2, ring 6 position 6. Check strip to make sure it is not in contact with any other rings.

Power supply light is on but no activity from the module. (Power meter display not moving.)

Possible Cause: Module is not connected correctly. Loose module connection. Dirty or corroded DC cable. Insufficient water conductivity. Cable needs replacing.

Action: Check to see that the module is connected correctly. Check to see that the module connections are not loose. Clean DC cable module connectors (refer to Maintenance tips.) Increase water conductivity (refer to set up.)

Read all safety warnings and precautions in full before operating the TC5000 Hydrostimulation Unit. Be sure to follow all safety and operating instructions.

ALWAYS

1. Keep the TC5000 power supply well away from water. (The Hydro-stimulation Unit comes with a 10-foot DC cable to ensure a safe operating distance.)
2. Place the TC5000 power supply on a level, stable, dry surface.
3. Dry hands thoroughly before operating the TC5000 power supply.
4. Use the TC5000 Hydro-stimulation Unit in a well-ventilated area.
5. Unplug the power cord from the wall when unit is not in use.

DO NOT

1. Operate the TC5000 Hydro-stimulation Unit without the GFCI power cord supplied.
2. Allow children to operate the TC5000 Hydro-stimulation Unit.
3. Handle the TC5000 Hydro-stimulation Unit with wet hands.
4. Disassemble the TC5000 power supply.
5. Place the TC5000 power supply in water.
6. Attempt to repair or service the TC5000 power supply unit yourself.
7. Replace fuses with ratings other than specified.
8. Use the TC5000 Hydro-stimulation Unit for any purpose other than described in this manual.
9. Operate the TC5000 power supply on a surface such as thick carpet where airflow under the unit would be restricted.
10. Operate the system during electrical storms.

DO NOT use extension cords. Also, should the TC5000 Hydro-stimulation Unit ever become damaged in any way, disconnect and contact an authorized repairer.

Before using the Model TC5000 Hydro-stimulation Unit for the first time, familiarize yourself with the components and controls. This will ensure that when you set up the system you will be able to follow the instructions confidently and correctly. Also, use this time to check that the system has arrived without any damage during shipping. Should you find any component damaged, contact your place of purchase immediately. Also it is important to become familiar with the restrictions placed on use of the system before continuing.

Restrictions for Use of the System

1. Any individual that is pregnant or may be pregnant should not use the system.
2. Any individual that has transplanted organs should not use the system.
3. The system may only be used for a maximum period of 35 minutes per use.
4. The system may only be used every other day.
5. The water used by the system may only be used once (fresh water should be used for every session.)
6. Only one individual may use the system during any session.
7. DO NOT use any additives in the water other than those recommended in this manual.

What Kind of Water Should be Used with the System?

The system may be used with most types of water. Ordinary tap water is the most commonly used type of water. Distilled or reverse osmosis water is not recommended.

Tips for Maintaining the DC Cable

When the Quick Connect DC cable is used only above the water as recommended, no maintenance is required. Some users prefer a higher volume of water when operating the system, thereby causing the DC cable connections to be submerged during operation. If the DC cable connections are used under water, then some maintenance is required. Just as the module requires cleaning after use, so do the DC cable connectors. To clean the DC cable connectors, submerge only the red and black connectors on the end of the DC cable in the CLR cleaning solution used for the module. Not cleaning these connections when used under the above mentioned conditions would result in poor or non-operation of the system. The DC cable is also subject to wear when used under water and will eventually need to be replaced.

Tips for Maintaining the Module

The Module is an important part of the system, so keeping it clean and well maintained will result in efficient long-term operation. Inspecting the module regularly for signs of build-ups or deposits forming on the components is essential. If any build-ups or deposits are observed, the spa module is not being cleaned sufficiently. These deposits can come from the water source being used and will need to be removed or the module will eventually cease to function. To remove these deposits, longer soaking in the CLR solution is required.

The module should also be inspected for any pitting forming in any of the permanent rings. The permanent rings are numbers 1, 3, 5 and 7. (The term pitting was identified earlier in this manual.) Pitting in these rings only occurs when a poor connection between them is formed or if they are dirty when the unit is being used.

During inspections, the module's two rods with the top connecting rod (identified on page 6) should also be checked. These rods may also be subject to pitting. If pitting is observed on these rods, it means that the module is being over-cleaned (i.e. left soaking in the CLR solution too long.)

Using the System for the First Time After a Long Period of Storage

When the system is stored for a long period without use, the module and the DC cable connectors may be subject to oxidation. If this occurs on important contact points, it may cause either the module or DC cable to function poorly or not at all. To avoid this situation, the module and DC cable connections (red and black) should be soaked

in the CLR cleaning solution to clean these contact points before the unit is used. It is also recommended that a new ring and strip set be installed to ensure proper operation.

Step 7 continued

Fitting the New Strip

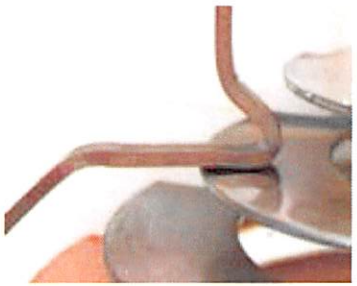
Push the strip inwards toward the spa module and connect it to the number 2 and number 6 rings. The connection to the number 6 ring is on the under side with the connection to the number 2 ring on the top side. Follow the rest of the steps to check that the strip has been fitted correctly.

Step 8

Check the Top Strip Connection

Check the connection to the number 2 ring making sure that the connection is on top of the ring as illustrated.

IMPORTANT: Note that the strip is not touching the top disc in the number 1 position.



Step 9

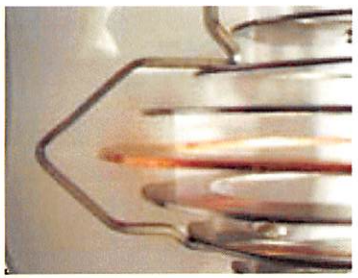
Check the Bottom Strip Connection

Check the connection to the number 6 ring by making sure it is connected to the underside of the ring as shown in the illustration.

Step 10

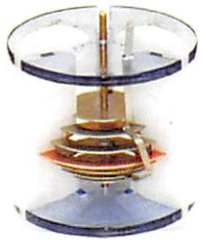
Re-check Strip Connection

Re-check the fitting of the strip one more time to ensure that the strip is only touching rings number 2 & 6. If the strip is touching any other rings except 2 & 6, the system will shut down by blowing the safety fuses.



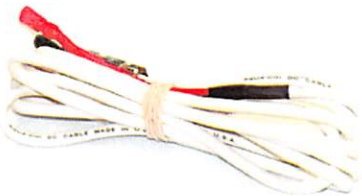
Become Familiar with Each of the Individual Components of the System.

Model TC5000 Power Supply



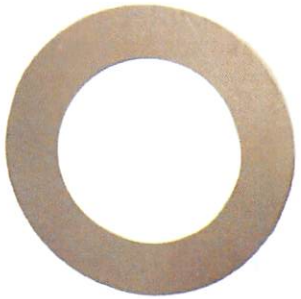
Module

GFCI Safety Power Cord



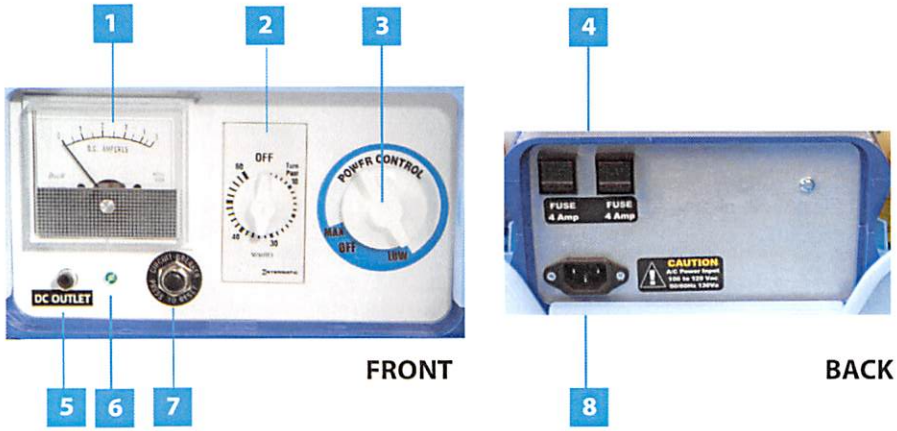
Quick Connect DC Cable

Replacement Strip



Replacement Ring

Model TC5000 Power Supply Explanation



1. Power Meter
The power meter measures and displays the amount of power (amperes) flowing to the Module.

2. Timer
The timer is used to set the number of minutes for a session.

3. Power Control
The power control is used to turn the power supply on/off and lower the output power to the Module.

4. Fuses
Located at the rear, the power supply has two replacable fuses.

5. DC Outlet
The DC Outlet is where the Quick Connect DC supply cable plugs in.

6. Power Light
When the power is connected properly, the Power Light will be illuminated when turned on.

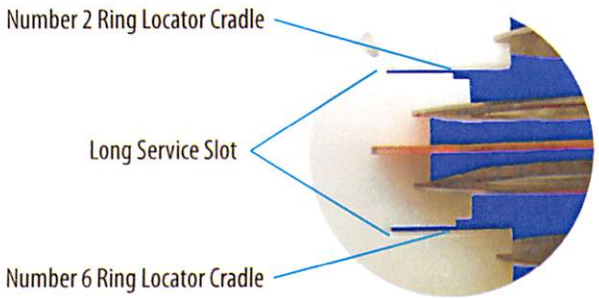
7. Thermal Circuit Breaker
The thermal circuit breaker shuts off the output if the power supply becomes overheated.

8. AC Inlet
The GFCI safety cord plugs into the AC inlet.

Step 5

Fitting the New Number 2 Ring
Push the new number 2 ring through the long service slot all the way into the module. Once the ring is pushed in all the way it will then drop into the locator cradle. Refer to slot and cradle illustration.

Slot and Cradle Illustration



Step 6

Fitting the New Number 6 Ring
Push the new number 6 ring through the long service slot all the way into the module. Once the ring is pushed in all the way, it can then be pushed up into the locator cradle. Refer to slot and cradle illustration.

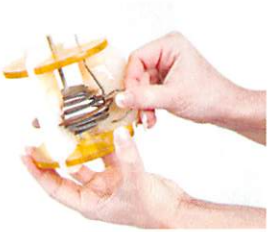
Step 7

Fitting the New Strip
Hold the strip as illustrated, then push the strip up through the strip locator hole on the top housing plate of the module.

Replacing the Rings and Strips

Step 1
Unclip the Old Strip

Before removing the old strip from the module, unclip the strip from the bottom of the number 6 ring. Pull the strip outwards away from the module.



Step 2
Removing the Old Strip

Once the strip is unclipped and pulled outwards, simply remove by pulling the strip downwards or towards the bottom of the module until the strip comes free from the top plate.

Step 3
Removing the Old Number 2 Ring

Remove the number 2 ring from the spa module by lifting the ring upwards out of the locating cradle, then slide it out through the long service slot provided in the support leg.

Step 4
Removing the Old Number 6 Ring

Remove the number 6 ring from the spa module by pushing the ring downwards out of the locating cradle, then slide it out through the long service slot provided in the support leg.

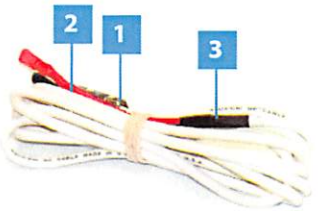
Model TC5000 GFCI Safety Cord

The GFCI* power cord is a safety feature and should always be used with the Model TC5000 Hydro-stimulation Unit. Ground Fault Circuit Interrupters (GFCI) – A UL Laboratories safety requirement.

1. Test Button
2. Reset Button
3. Power Indicator Light
4. Connector to Power Supply

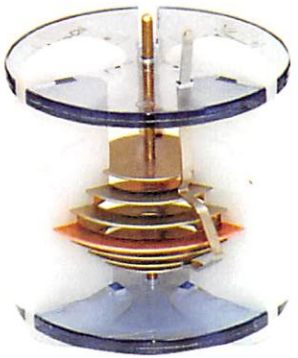
Model TC5000 Quick Connect DC Cable

1. DC Outlet Connector
2. Negative Module Connector (black)
3. Positive Module Connector (red)



Model TC5000 Spa Module Explanation

1. Replaceable Strip (Positive Connection)
2. Connecting Rod (Negative Connection)
3. Replaceable Ring
4. Module Legs
a. Slot Leg
b. Plain Leg
c. Track Leg
5, Bottom Housing Plate
6. Top Housing Plate
7. Negative Strip
8. Permanent Ring
9. Copper Ring



The TotalCharge Model TC5000 Hydro-stimulation Unit is a state of the art, bio-energy charger. The system is designed to operate with water because water is the basis of all biological functions. Water is also the medium through which all tasks in the body are performed. The body is made up of millions of smaller components, called cells, which are responsible for all the different biological processes that occur.

Even though there are many different types of cells in the body, they all have a number of things in common. They all need water for hydration AND energy to perform their designated tasks. With the depletion of either water OR energy, the cells are deprived and poor health can result.

The system works through the medium of water by making available extra energy that the living cell can utilize. There are many water sources around the world that are reported as having invigorating effects on the body when bathed in. These waters are naturally charged and give up some of their charge to the body on contact. This is the fundamental process utilized by the TotalCharge; the transference of energy through water.

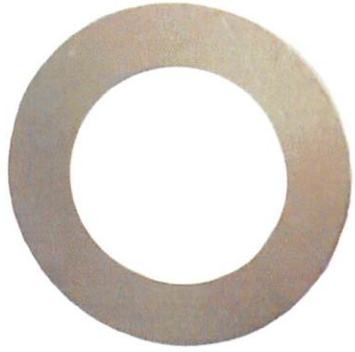
Possible Sensations - When using the system you may notice a number of sensations that can vary for different individuals.

1. Various tingling sensations in parts of the body.
2. A shortness of breath during or towards the end of the session.
3. A slight discomfort in an unhealthy region of the body.
4. Tiredness.

These sensations generally only last a few minutes after the completion of the session.

If at any time during the session the need is felt to remove the feet from the footbath, the user should do so. You should wait 48 hours before attempting the footbath again.

The Model TC5000 Hydro-stimulation Unit does not diagnose, treat or cure any disease or condition; nor does it pull, push or force foreign toxins or materials from the body.



Stage 1

New Ring

The system is ready to use.

Stage 2

Pitting

After some system use, the 2 replaceable rings will start to show some wear. Small holes or pits forming in the surface of the ring identify this wear.

Stage 3

Jagged

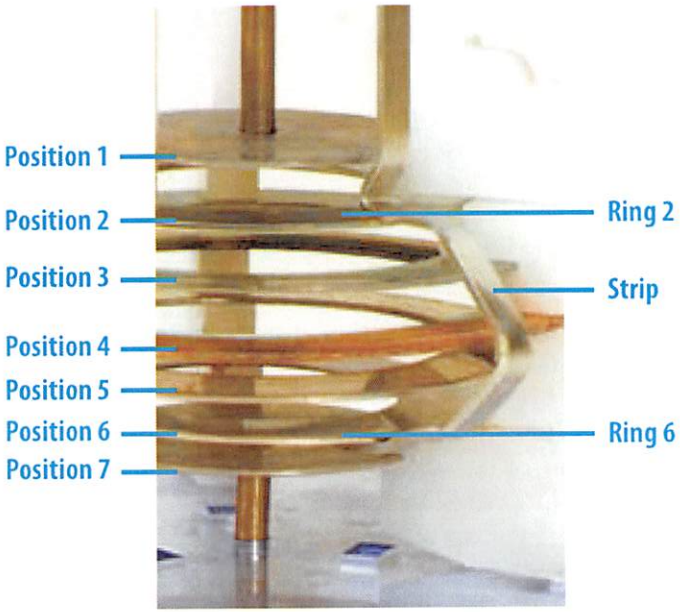
This stage occurs after pitting and is called jagged. The rings will begin to loose their circular shape and start to become very rough around both the inside and outside edges.

Stage 4

Replace

The Replaceable Rings and Strip

The module is fitted with 2 rings and a connecting strip that require periodic replacement due to wear. The connecting strip attaches to ring 2 and ring 6 as illustrated. Ring 2 is located in the second position from the top and ring 6 is located in the sixth position from the top. The amount of wear on the rings and the strip is subject to local water conditions.



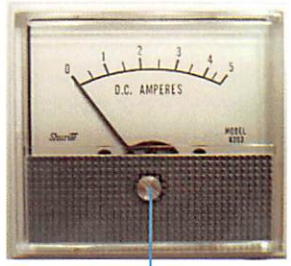
Setting up Your System for the First Time

STEP 1

Place the Model TC5000 power supply onto a stable, dry, level surface away from any water source. Before going to the next step, check to see if the needle on the power meter, located on the front of the power supply, is set to zero. The following illustration shows where the needle should be set.

If the needle is not pointing to zero, you will need to adjust it by turning the adjust knob.

CORRECT

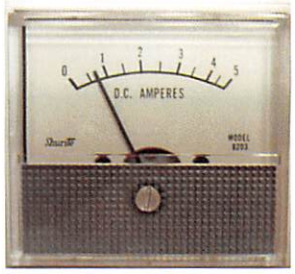


Adjust Knob

INCORRECT

If your needle looks like the above illustration, you will need to adjust the setting. Turn the adjustment knob slowly to the right until the needle is pointing to zero.

INCORRECT

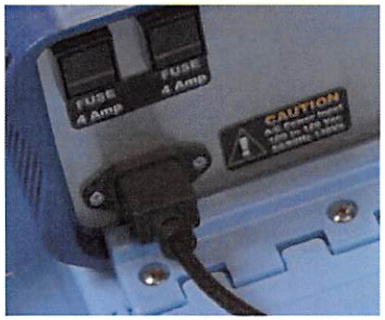


It your needle looks like the above illustration, it will need to be adjusted. Turn the adjustment knob slowly to the left until the needle is pointing to zero.

STEP 2

Connecting the GFCI Safety Power Cord.

Plug the GFCI safety power cord into the AC inlet located at the rear of the power supply. Make sure the plug is pushed in all the way and is firmly in place.



STEP 3

Connecting the DC Cable to the Module. Connect the DC cable to the module using the two connectors on the end of the DC cable. One connector is red and the other is black. The red connector pushes onto the flat strip towards the outer edge of the module. The black connector pushes onto the round rod in the center at the top of the module. Make sure both connectors are pushed on firmly. Once connected, it should look like the illustration to the right.

STEP 4

Connecting the DC Cable to the TC5000 Power Supply

Plug the DC cable into the outlet socket marked DC OUTLET on the front of the TC5000 power supply. Once connected, it should look like the illustration to the right.

STEP 5

Testing the GFCI Power Plug

1. Plug GFCI into a grounded receptacle.
2. If light is not on, press reset button - light should come on.
3. Press test button - light must go OFF.
4. When test is completed press reset button again to use the equipment.

DO NOT USE THIS EQUIPMENT IF THE ABOVE TEST FAILS! If the GFCI passes the test, you may continue with the set-up.

Cleaning the Module

Keeping the module clean and free from materials released by the water is important for optimum trouble-free operation. Cleaning of the module should be performed after each use.

The recommended cleaning procedure is to fully immerse the module into a cleaning solution. A most effective cleaning solution is CLR (Calcium, Lime & Rust remover.)

(You should first obtain a plastic container large enough to accommodate the module and cleaning solution.)

STEP 1

Rinse the module thoroughly under running water to remove any loose material.

STEP 2

Place the module into chosen container. Pour CLR into container until completely covered. Soak the module for 20 minutes. After 20 minutes remove the module, rinse and inspect to see if all material and staining has been removed. If staining is still observable (particularly on the white legs on the module) place back into container for another 20 minutes. Repeat the process until clean. Once module is completely clean, rinse thoroughly with running water to remove cleaning solution.

Cleaning Procedure Precautions

DO NOT leave the module permanently in the cleaning solution. Damage to some metal components will occur. Such damage is not covered by warranty.

DO NOT use a toothbrush or any kind of cleaning tool on the module.

During the Session a Number of Rules Apply for the Proper Use of the System

DO NOT remove and replace the feet during a session.

DO NOT add more water.

DO NOT remove any water.

DO NOT turn the system off and back on again.

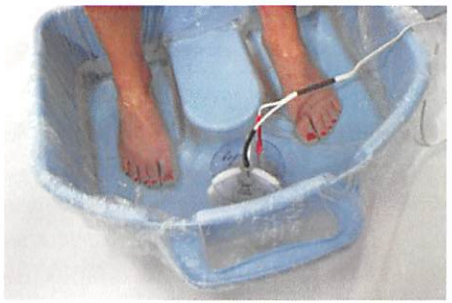
DO NOT remove the module from the water and place it back again.

DO NOT alter the output of the system during the session. DO NOT exceed the maximum recommended session time.

STEP 4

Placing the Feet into the Water

Sit down in a comfortable position before placing the feet into the water. At the end of the session, the unit will turn itself off.



STEP 5

End of Session

Once the set time has elapsed, the system will turn off. The green indicator light will go out indicating the session has ended.

Once the session has ended, remove the feet from the footbath and dry them thoroughly. Set the power control knob back to the OFF position. Dispose of the water used during the session in a responsible manner.

STEP 6

Preparing the Footbath

Place the module into the footbath. Fill with warm water to 1/4 inch below the top of the module. DO NOT ADD ANY SALT TO THE WATER AT THIS TIME! Place the footbath where it is going to be used. Make sure the footbath is placed on a flat, stable surface at least 7 feet from the power supply (for safe operation.) If the correct amount of water is in the footbath, the water should not rise above the top of the spa module (even when feet are placed into the water.) The red and black connectors will remain dry during operation. The unit is now connected for operation.

STEP 7

Checking the Water for Correct Operation

To check the water for correct system operation, the power to the unit has to be turned on. For correct operation, the power meter should display between 1½ (minimum) and 2½ (recommended) for operating the system.

STEP 8

Turning on the System

The power supply has two controls, the timer and the power control, and both have to be on for the system to work. The GFCI safety plug was tested in a prior step. Check that the light on the GFCI is illuminated so the power supply can be switched on. If GFCI light is not illuminated, return to step 5.

Turn the timer past 10 to approximately 15 minutes. If you do not turn the timer past 10, the system will not come on.

Turn the power control to MAX (to the right.) When both the timer and the power control are turned on, the green indicator light will be illuminated.

Now that the system is on, check the power meter. To use the system properly, the needle needs to display between 1½ (minimum) and 2½ (recommended.) If the display is correct, then setup is complete. Turn the unit off and continue to the user section. If the power meter is displaying above or below the recommended setting 2½, then continue following the steps in this section.

STEP 9

Adjusting the Output of the System

Adjusting the output of the system is only required when the power meter displays above or below the recommended setting. The initial output of the system is determined by the conductivity of the water being used. When water conductivity is low, the output will be low, when water conductivity is high the output will be high.

The system must be on to adjust the output.

What to do if the Display is Higher than 2½

If the output on the display is more than 2½, the output will need to be lowered (to prevent damage to the unit). When the output is high, lowering is achieved using the power control. Turn the power control knob slowly clockwise (to the right.) The display will indicate a lower output the further the power control knob is turned.

What to do if the Display is Lower than 1½

If the output on the display is lower than 1½, water conductivity is too low and needs to be increased. Increasing water conductivity increases the power output. To increase water conductivity, salt will need to be added to the water. Set the power control to the on/max position and add a very small amount of the salt to the water. The water will need to be gently stirred. Once stirred, check to see if the display is within the recommended range.

Once the display reaches 2½, the system is ready to use. If the display is still below 1½, the output is still too low and the addition of the salt will need to be repeated until recommended output is achieved. Should you add too much salt, the water will become too conductive. If this occurs, dispose of the water and start over with fresh water.

Operating above 2½ DOES NOT produce greater benefits to the user. Ring wear will be increased unnecessarily.

Now set-up is completed - the system is ready to use. If during any session with the TC5000 Hydro-stimulation Unit the user feels the need to remove the feet and quit the session they should do so.

STEP 1

Choosing a Session Time for Adults

The recommended session time for adults is 20 minutes but may be used up to 35 minutes. The session time requirement for each individual may be different. Most individuals only require a 20-minute session while others may prefer the full 35 minutes.

Choosing a Session Time for Children

Session times for children are as follows:

6 and under	NOT RECOMMENDED
7 – 12 years	15 – 20 minutes
13 – 17 years	20 – 35 minutes

ALWAYS SUPERVISE CHILDREN DURING THE SESSION

STEP 2

Set the Timer

Set the timer to the chosen session time.

STEP 7

Turn the Power Control On

If during set-up salt was added to increase conductivity, the power control should be set on max and the correct power level should be displayed. If during set-up the power output had to be lowered, then once again turn the power control knob clockwise to attain the correct setting. The system is now operating.

Turn the power control on Max setting if salt was added.

Turn clockwise to lower output.