

beachcomber
HOT TUBS

Owner's Guide

CONGRATULATIONS ON THE PURCHASE OF YOUR BEACHCOMBER HOT TUB!

Your hot tub is an investment in your health and happiness. Your Beachcomber Hot Tub will bring you relaxation, great family moments, romance, therapy and so much more. This Owner's Guide is intended to give you instructions on the basic operation of your hot tub. SAVE THESE INSTRUCTIONS for easy reference; you can also find this Owner's Guide online, at:

www.beachcomberhottubs.com

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This Owner's Guide is for hot tubs manufactured from January 1st, 2007.

Important details of your new Beachcomber Hot Tub

Record information about your hot tub in the space below, so that you can have it on hand if you need to contact your local dealership:

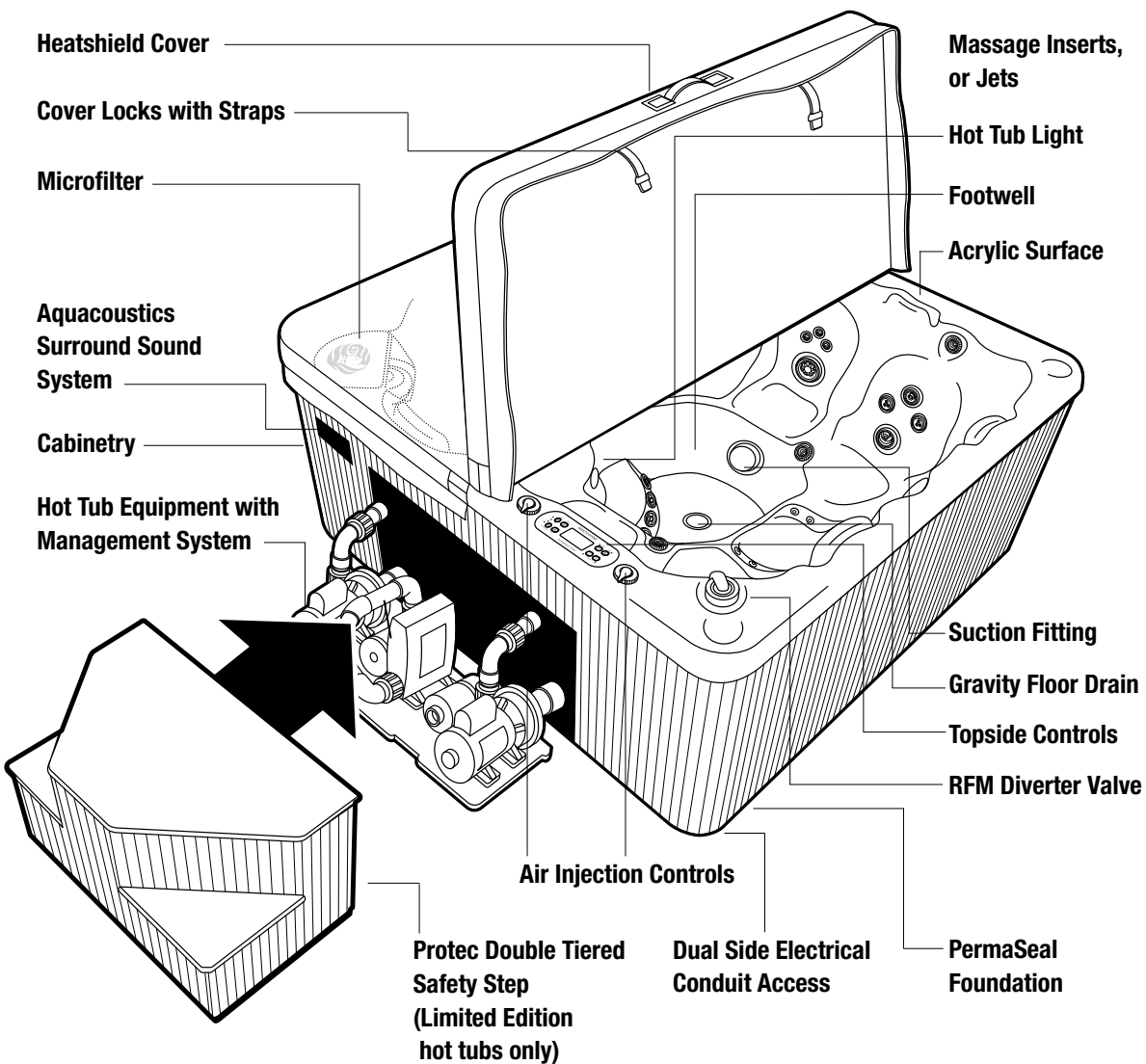
MODEL NUMBER: _____ DATE OF PURCHASE: _____

HOT TUB SERIAL NUMBER: _____ DEALERSHIP NAME: _____

GUARANTEE NUMBER: _____ DEALERSHIP PHONE: _____

The Basic Components of Your Beachcomber Hot Tub

Please use the diagram below to familiarize yourself with the basic components of your Beachcomber Hot Tub. Read this entire document, so that you and your family know how to safely enjoy your Beachcomber Hot Tub.





Important Safety Instructions

WARNING

IMPORTANT! READ AND FOLLOW ALL INSTRUCTIONS AND KEEP FOR EASY REFERENCE.

A green colored terminal, or wire connector marked *Ground* is provided within the control box. To reduce the risk of electric shock, connect this terminal or connector to the grounding terminal of the electric service or supply panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment. In addition bonding lugs are provided and marked *Bonding Lugs*. To reduce the risk of electric shock, connect the bonding lugs in accordance with the local electric code.

At least two lugs marked *Bonding Lugs* are provided on the external surface of the supply terminal box. To reduce the risk of electrical shock connect the local common binding grid in the area of the hot tub to these terminals with an insulated or bare copper conductor not smaller than No.6 AWG. *Note: this is factory installed.*

All field-installed metal components such as rails, ladders, drains or other similar hardware within 10 ft (3m) of the hot tub shall be bonded to the equipment grounding bus with copper conductors not smaller than #6AWG.

CAUTION: WIRING CONNECTED IN THIS BOX MUST BE RATED AT 600V.

There are no user serviceable parts within the management system. The high voltage can cause injury or death. The hot tub must be hooked up to a Ground Fault Circuit

Interrupter (*G.F.C.I.*) by a licensed electrician. Use the test button on your *G.F.C.I.* monthly to ensure it is working properly.

Always make sure there is an adequate sanitizer level in your hot tub before entering. Failure to do so may cause skin irritations or illness. Use a test kit or test strips to check prior to entry.

CAUTION: WATER TEMPERATURE IN EXCESS OF 100°F/38°C MAY BE INJURIOUS TO YOUR HEALTH. AVOID PROLONGED EXPOSURE TO HOT WATER. WATER TEMPERATURE MAY NEED TO BE DECREASED FOR CHILDREN OR THE ELDERLY. THE MAXIMUM RECOMMENDED TEMPERATURE OF YOUR HOT TUB WATER IS 104°F/40°C.

To reduce the risk of drowning from hair and body entrapment, install suction fitting(s) with a marked flow rate that is not less than the flow rate marked on the remote packaged unit. *Note: these are factory installed.* Do not operate the hot tub with any of the suction fitting covers off. These covers prevent hair or objects from being sucked into the plumbing. *See figure 1.*



CAUTION: THE EQUIPMENT AND CONTROLS SHALL BE LOCATED NOT LESS THAN 3.5 ft OR 1m HORIZONTALLY FROM THE HOT TUB.

Hyperthermia occurs when the internal temperature of the body reaches a level of several degrees above normal body temperature of 98.6°F (37°C). The symptoms of hyperthermia include drowsiness, lethargy and an increase of internal temperature of the body.

The Effects:

- unawareness of impending hazard;
- failure to perceive heat;
- failure to recognize the need to exit the hot tub;
- physical inability to exit the hot tub;
- fetal damage in pregnant women; and
- Unconsciousness and danger of drowning.

WARNING THE USE OF ALCOHOL OR DRUGS CAN GREATLY INCREASE THE RISK OF FATAL HYPERTHERMIA IN HOT TUBS.

Recommended time in water at 100°F/38°C is 15 minutes. Lower temperatures will permit longer bathing times. Always check the temperature of the water before entry with a thermometer.

WARNING PERSONS WITH THE FOLLOWING CONDITIONS SHOULD CONSULT THEIR PHYSICIAN BEFORE USING A HOT TUB: DIABETES, LOW OR HIGH BLOOD PRESSURE, PERSONS WITH INFECTIOUS DISEASES, OBESITY, HEART DISEASE, CIRCULATORY PROBLEMS, PREGNANT WOMEN OR THOSE TAKING MEDICATION PRESCRIBED BY THEIR PHYSICIAN. DO NOT ALLOW ELECTRICAL DEVICES SUCH AS PORTABLE STEREO'S, TV'S, HAIR DRYERS WITHIN 5 FEET/1.5 METERS OF THE HOT TUB. FAILURE TO DO SO COULD CAUSE ELECTROCUTION RESULTING IN INJURY OR DEATH SHOULD THE DEVICE FALL IN THE WATER.

WARNING DO NOT ALLOW CHILDREN TO USE A HOT TUB WITHOUT ADULT SUPERVISION. PREVENT UNAUTHORIZED CHILD ACCESS TO AVOID THE RISK OF DROWNING.

WARNING THE HEATSHIELD IS STRONG ENOUGH TO WITHSTAND UP TO 2 FEET OF SNOW. IT IS NOT DESIGNED TO SUPPORT THE WEIGHT OF CHILDREN, PETS OR ADULTS. THIS WILL BREAK THE FOAM INNERS AND LEAD TO PREMATURE FAILURE OF THE HEATSHIELD.

Beachcomber's Safety Features

Molded Interior Steps

Beachcomber Hot Tubs are made with anti-slip checker plate flooring, designed to make entry and exit safer. Always use extreme caution during entry and exit, as hot tub surfaces are slippery when wet.

Body Molded Handgrips Use handgrips to prevent slipping, and to promote ease of movement while entering, soaking and exiting the hot tub.

See figure 2.

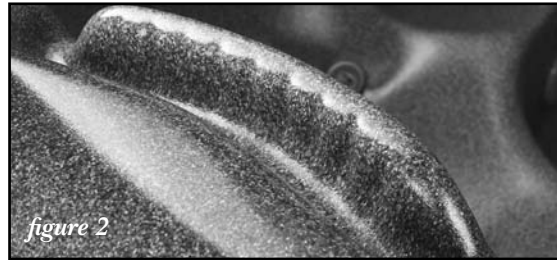


figure 2

Heatshield Cover Locks

To prevent unwanted entry by children or unauthorized users, use the cover lock assemblies that come as a standard feature with each hot tub. Screw the female half on to the hot tub cabinet with the stainless screws provided. *See figure 3.*



figure 3



Starting up a Beachcomber Hot Tub

Once the Protec equipment is hooked up using the separate instructions provided with the Protec Equipment box, and the electrical connection is made by a qualified electrician, do the following:

1. Check all union fittings on the Protec or Portable equipment to ensure that they are tight. Hand-tightened is sufficient. If leaking is noted at these fittings you may need to tighten further or the gasket may be missing or not seated properly. Unscrew the union and check.
2. Open all knife valves that are pointing up. See *figure 4*. Leave all valves that are facing down in the closed position. Fill the hot tub with water from a garden hose. You can hang the hose over the edge of the hot tub or hook it up to the drain/fill valve located down by the pumps and fill from the bottom. It is recommended you run your water through your garden hose to waste for a few seconds before filling the hot tub.



figure 4

3. Fill the hot tub to half way up the skimmer opening. Note: If your hot tub is HushPump™ equipped your level can be lowered to one third up the skimmer opening. This will allow for more displacement if the hot tub is subjected to use by more than the recommended amount of people for that model. See *Figure 5*.



WARNING OVER FILLING WILL NOT ALLOW ROOM FOR DISPLACEMENT FROM PEOPLE ENTERING THE HOT TUB. UNDER FILLING COULD CAUSE AN AIRLOCK IN THE SYSTEM AND COULD LEAD TO PUMP AND HEATER DAMAGE NOT COVERED BY YOUR GUARANTEE.

WARNING ENSURE YOUR HOT TUB IS SITUATED ON A LEVEL, HARD SURFACE CAPABLE OF SUPPORTING BOTH THE WEIGHT OF THE HOT TUB, AND THE WATER IN IT. SEE PAGE 31 FOR DETAILS..

4. Open the air bleed thumb screws to release any air trapped in the external plumbing. (See Figure 4) There is one on the 300 and 500 series hot tubs, two on a 500 series with HushPump™ and a standard 700 series and three on a 700 series with HushPump™. See the equipment configuration diagrams on the next page to locate the air bleed thumb screws. Once all air is bled from the system, open any knife valves that are facing down.
5. With the air bled from the system, you can now turn on the power at the GFCI. Once the control panel is on, use the instructions on the following pages to complete your start up. Refer to the instructions for the control panel that matches your system.

Basic Hot Tub Configurations

Beachcomber Manufactures hot tubs in two configurations, one of which you now own. The Limited Edition, or Protec Hot Tub, features the equipment outside of the hot tub cavity under a safety step. See Figure 6.

The Original Portable features the equipment tucked inside the hot tub cabinetry. A plank style step is available for this style of construction. See your dealership for details. See Figure 7.

Beachcomber Limited Edition Includes the Double Tiered Safety Step.



figure 6

Beachcomber Original Portable A plank style step is available as an optional accessory.



figure 7

MICROFILTER REMOVAL AND MAINTENANCE

The Microfilter in the hot tub should be cleaned approximately every two weeks or more if bather load is high. Failure to clean the Microfilter can result in cloudy water, odor and potential equipment damage due to decreased flow. To remove the Microfilter, put the hot tub on stand-by (see digital operation instructions for your model). Stand-by prevents debris from the Microfilter or objects in the water from being sucked into the pump. *Note: The hot tub will stay in stand-by mode until the sensors detect 50°F / 10°C or the temperature sensors sense a temperature more than 20°F / 6°C below set point.*



figure 8

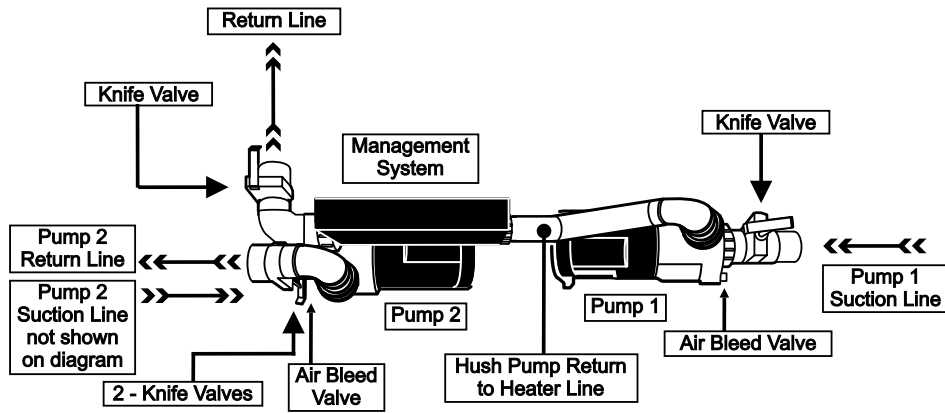
To remove, twist the trim ring to unlock it and remove with the floating weir assembly, then lift out the basket and then pull out the Microfilter. See figure 8 Remove any hair or debris from the basket. Soak the Microfilter in a cleaner such as *Filter Pure* overnight and then remove and rinse thoroughly with a hose spray nozzle to remove cleaner residue. It is recommended that you alternate Microfilter cleaning each month with *Filter Cure*. It is also advisable to have two Microfilters, to alternate while the other is soaking in the cleaner.



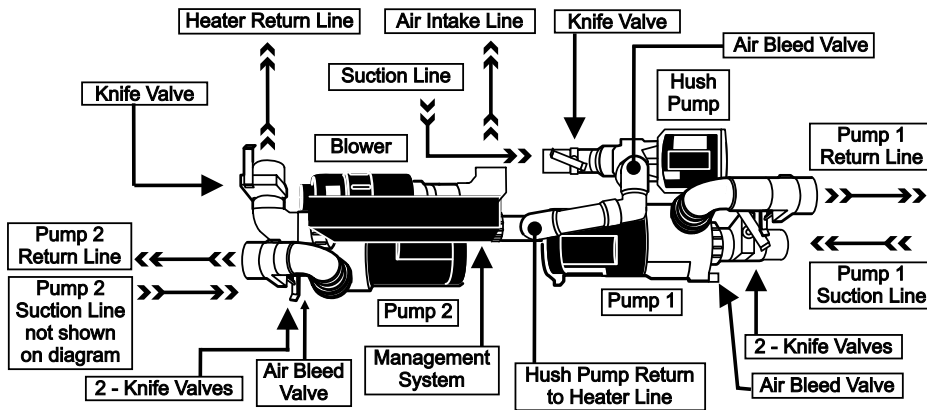
Equipment Configuration Diagrams

Please use these diagrams for component location on all Beachcomber models.

Original Portable Hot Tub, 2 Speed Pump Version

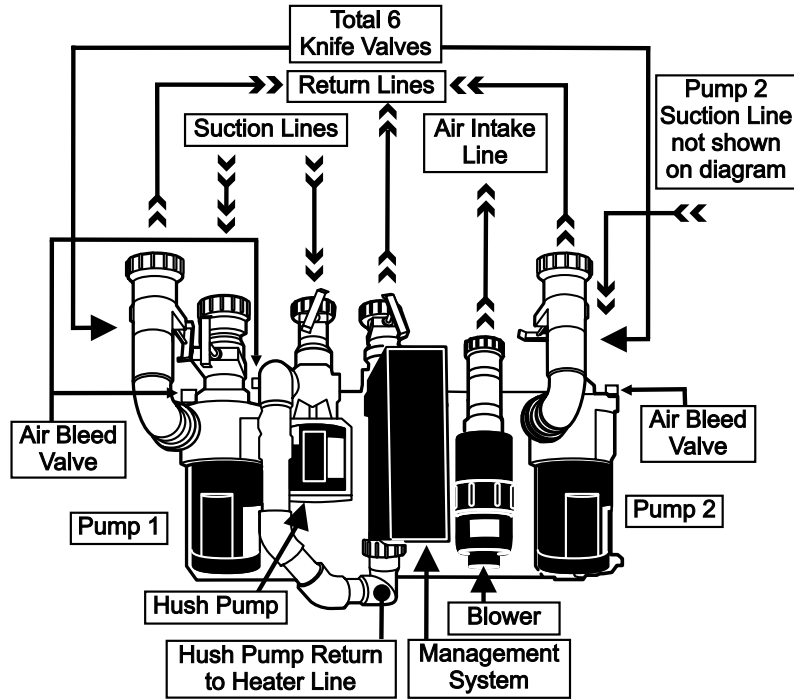


Original Portable Hot Tub, Hush Pump & Turbo Version

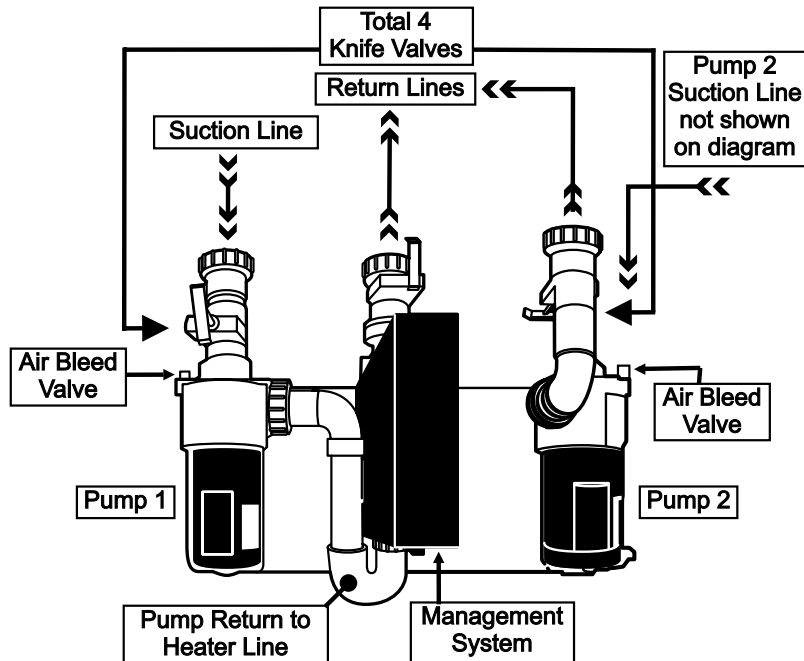


Please Note: Your hot tub may or may not be equipped with features shown in this Owner's Guide. Beachcomber makes continual changes, upgrades and improvements; if you need more specific information on your hot tub, please call your local Beachcomber Dealership, or use the contact information in this guide.

Protec Hot Tub, Hush Pump & Turbo Version



Protec Hot Tub, 2 Speed Pump Version



Please Note: Your hot tub may or may not be equipped with features shown in this Owner's Guide. Beachcomber makes continual changes, upgrades and improvements; if you need more specific information on your hot tub, please call your local Beachcomber Dealership, or use the contact information in this guide.



ET-7 CONTROL PANEL INSTRUCTIONS

START UP

When your hot tub is first activated, it will go into priming mode (after displaying some configuration information). The priming mode will last up to 4 minutes; then circulation will start, then heat icon will come on for 6 seconds, and then flicker for 90 seconds. Then heater will come on to heat water to set temperature. It is recommended that priming mode be allowed to finish, preventing any pumps from operating dry. If you are positive all pumps are primed you can exit priming mode early by pressing or .

TEMPERATURE ADJUSTMENT

Temp range is: (80°F - 104°F/26.0°C – 40.0°C) The factory pre-set temperature is set at 100°F/37.5°C. The last measured temperature is constantly displayed on the LCD. See edit menu in Owner's Guide to select F° or C°. *Note: On non HushPump™ hot tubs the current water temperature will only be displayed if the 2 speed filter pump has been running for two minutes.*

WARM / COOL

Press the or button twice to display the set temperature. Each time either button is pressed again, the set temperature will increase or decrease depending on which button is pressed. After three seconds, the LCD will automatically display the last measured water temperature.

HEATING MODES

This button is used to switch between Standard, Economy, and Sleep modes. Press to enter mode programming, press to cycle through to desired mode (LCD flashes until confirmed), then press to confirm selection.

Standard Mode maintains the set temperature at all times. Note that the last measured hot tub temperature displayed is current only when the pump has been running for at least 2 minutes. The **STANDARD** icon will display until the mode is changed.

Economy Mode heats the hot tub to the set temperature only during filter cycles. The **ECONOMY** icon will display until mode is changed. Pressing while in Economy mode puts the hot tub in Standard-In-Economy mode, which operates the same as Standard

Mode, then reverts to Economy Mode automatically after 1 hour.

Use this mode to activate the heater if using the hot tub when not in filter cycle. During this time, a press of the button will revert to Economy Mode immediately

Sleep Mode heats the hot tub within 20°F (11°C) of the set temperature only during filter cycles. The **SLEEP** icon will display until mode is changed. Use this mode when going on holidays.

MESSAGE 1

Press button once to turn pump 1 on to low speed, press again for the pump's high speed, and once more to turn off the pump. Low speed turns off automatically after 2 hours and high speed turns off automatically after 15 minutes. Massage pump 1 comes on for a 1 minute purge at the start of each filter cycle.

MESSAGE 2

Press button once to turn pump 2 on to low speed, press again for the pump's high speed, and once more to turn off the pump. Low speed and high speed turn off automatically after 15 minutes. Massage pump 2 comes on for a 1 minute purge at the start of each filter cycle.

TURBO (optional)

Press the button to turn Turbo on and off. Turbo will automatically turn off after 15 minutes. Turbo comes on for a 10 second purge at the start of each filter cycle.

LIGHT

Press the button to turn the hot tub light on, press again to turn off. Light will automatically turn off after 3 hours.

STANDBY MODE

Pressing or followed by will turn off all hot tub functions temporarily. **SBY** will appear on your display. This is helpful when changing a Microfilter cartridge. Press any button to exit standby mode. Note: If hot tub is in a heat cycle when standby is selected the 2 speed pump or HushPump™ will run for approximately 15 seconds.

TIME OF DAY AND FILTER CYCLES SETTING

On all systems, the 2 speed filter pump or HushPump™ and ozone generator will run during filtration. There are two filter cycles per day. The start/end times of each cycle are programmable. Programming filter times on HushPump™ equipped hot tubs are used to tell the system how many hours a day to turn the heater on when in Economy mode.

To Program:

1. Press then .
2. Use the and buttons to adjust the time of day in hours, press the again to adjust the time in minutes. Use the and buttons to adjust the minutes. Press to enter new time.
3. You will see **PROGRAM, FILTER 1 (F1), START TIME** appears on the display. Press or to choose the filter start time hour. Enter the hour by pressing .
4. Press or to choose the filter start time minutes. Each press will change the start time by 5 minutes. Enter the minutes by pressing .
5. Press to see the **PROGRAM, FILTER 1 (F1), END TIME**. Adjust the time as done above.
6. Press to see the **PROGRAM, FILTER 2 (F2), START TIME**. Proceed as above.
7. Press to see **PROGRAM, FILTER 2 (F2), END TIME**. Adjust the time as done above.
8. The time that now appears allows you to turn your hot tub light on automatically. Adjust time as done above.
9. Program the time you want your light to turn off.
10. Press will enter the new filter cycle times into the system and display the current water temperature.

PANEL INVERSION

Press the or button, followed by the or button to change the numbers in the display to read upside down. Press the same sequence to set back.

LOCKING THE PANEL

Press , 1 then within 3 seconds. When locked, the **PL** indicator light will light up. All buttons are frozen except the button. To unlock the panel, press , 1 then .

LOCKING THE SET TEMPERATURE

Press or then , 1 and within 3 seconds to activate the lock. The **TL** indicator light will light up when temperature is locked. To unlock the set temperature, press or then , 1 and .

PERIODIC REMINDER MESSAGES

(press the button to reset a displayed reminder message)

- rPH:** Test and adjust pH chemical levels as per Beachcomber instructions. Reminder is every 7 days.
- rCL:** Remove, clean, and reinstall Microfilter as per Beachcomber instructions. Reminder is every 30 days.
- rt9:** Test & reset GFCI as per Beachcomber instructions. Reminder is every 30 days.
- rdr:** Drain and refill hot tub as per Beachcomber instructions. Reminder is every 90 days.
- rCO:** Clean and condition Heatshield as per Beachcomber instructions. Reminder is every 180 days.
- rCH:** Install new Microfilter. Reminder is every 365 days.

To suppress reminders, refer to the edit menu on page 16.

DIAGNOSTIC DISPLAY MESSAGES

OHH or **OHS:** Overheat-DO NOT ENTER HOT TUB

ICE: Potential Freeze

SNA: Hot tub is shut down

SNB: Hot tub is shut down

SNS: Sensor out of balance

HFL: Could indicate flow problem

LF: Persistent low flow problems

DR: Inadequate water detected

DRY: Inadequate water detected

PR: Hot tub in priming mode

--: Temperature unknown

---: Temperature not current or in Economy or Sleep mode.

PLEASE REFER TO TROUBLE SHOOTING GUIDE STARTING ON PAGE 23 FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

WARNING SHOCK HAZARD! NO USER SERVICEABLE PARTS.

DO NOT ATTEMPT SERVICE OF THIS CONTROL. CONTACT YOUR DEALERSHIP OR SERVICE PROVIDER FOR ASSISTANCE. FOLLOW ALL OWNER'S GUIDE POWER CONNECTION INSTRUCTIONS. INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND ALL GROUNDING CONNECTIONS MUST BE PROPERLY INSTALLED.


WARNING TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.

WARNING ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH A THERMOMETER.






ET-5 CONTROL PANEL INSTRUCTIONS





STARTUP

When your hot tub is first activated, it will go into priming mode (after displaying some configuration information). The priming mode will last up to 4 minutes; then circulation will start, then heat light will come on for 6 seconds, and then flicker for 90 seconds. Then heater will come on to heat water to set temperature. It is recommended that priming mode be allowed to finish, preventing any pumps from operating dry. If you are positive all pumps are primed you can exit priming mode early by pressing .

TEMPERATURE ADJUSTMENT




Temp range is: (80°F - 104°F/26.0°C – 40.0°C) The factory pre-set temperature is set at 100°F/37.5°C. The last measured temperature is constantly displayed on the LCD. See edit menu in Owner's Guide to select F° or C°. *Note: On non HushPump™ hot tubs the current water temperature will only be displayed if the 2 speed filter pump has been running for two minutes.* Press the  button once to display the temperature previously set. To change the set temperature, press the  button a second time before the LCD stops flashing. Each press of the  will continue to cause the set temperature to increase or decrease depending on what direction was last chosen. Each press to follow will change the set temperature in the same direction. If the opposite direction is desired, release the pad and let the display revert to the actual water temperature. Press the pad to display the set temperature, and again to make the temperature change in the desired direction. Actual water temperature will reappear on the display after changing the temperature setting.

HEATING MODES

A button combination is used to switch between Standard, Economy, and Sleep modes. Press  followed by  to enter mode programming, press  to cycle through to the desired mode (LCD flashes until confirmed), then press  to confirm selection.


Standard Mode maintains the set temperature at all times.

STD will appear on the display momentarily when you switch into Standard Mode.


Economy Mode heats the hot tub to the set temperature only during filter cycles. **ECN** will appear solid when the temperature is not current and will alternate with the temperature when the temperature is current. On a HushPump™ equipped hot tub the heater will come on if required for up to 2 hours twice a day (total of 4 hrs). Pressing  while in economy mode puts the hot tub in Standard-In-Economy mode, **SE**, which operates the same as standard mode, then reverts to Economy mode automatically after 1 hour. Use this mode to activate the heater if using tub when not in filter cycle. During this time, pressing  followed by  will revert the mode to Economy immediately.

Sleep Mode heats the hot tub within 20°F (11°C) of the set temperature only during filter cycles. **SLP** will appear on the display until mode is changed. Use this mode when going on holidays.


MASSAGE

Press the  button once to activate the pump's low speed, again for the pump's high speed, and once more to turn off the pump. The pump's low speed turns off automatically after 2 hours. The pump's high speed will turn off automatically after 15 minutes. Massage pump comes on for a 1 minute purge at the start of each filter cycle.




TURBO (OPTIONAL)

Press the  button to turn Turbo on and off. Turbo will automatically turn off after 15 minutes. Turbo comes on for a 10 second purge at the start of each filter cycle.

LIGHT

Press the  button to turn the hot tub light on, press again to turn off. Light will automatically turn off after 3 hours.







STANDBY MODE

Pressing  followed by  or  will turn off all hot tub functions temporarily. **SBY** will appear on your display. This is helpful when changing a Microfilter cartridge. Pressing any button exits Standby mode. *Note: If the hot tub is in a heat cycle when standby is selected the 2 speed filter pump or HushPump™ will run for approximately 15 seconds.*

FILTER CYCLES


The first filter cycle (day) begins 6 minutes after the hot tub is powered up. The second filter cycle (night) begins 12 hours later. If the hot tub is not HushPump™ equipped, filter duration is programmable for 1-12 hours (F1-F12). The default filter time is 2 hour cycles twice a day.

To program:

1. Press  button then .
2. Press  to select the filter duration.
3. Press  to select the number of filter cycles.
4. Display will show **DN** (both day and night cycles); or **D** (day cycle only); or **N** (night cycles only). Press  to adjust.
5. Press  to exit programming mode.
6. HushPump™ equipped hot tubs will automatically filter 2-12 hour cycles per day. No programming is available on HushPump™ equipped hot tubs due to the energy efficiency of the HushPump™.

Changing filter cycles on HushPump™ equipped tubs will only affect the times the heater comes on if using the Economy Heating mode. It does not change the amount the HushPump™ runs.

PERIODIC REMINDER MESSAGES

(press the  button to reset a displayed reminder message)

- rPH:** Test and adjust pH chemical levels as per Beachcomber instructions. Reminder is every 7 days.
- rCL:** Remove, clean, and reinstall Microfilter Cartridge as per Beachcomber instructions. Reminder is every 30 days.
- rt9:** Test & reset GFCI as per Beachcomber instructions. Reminder is every 30 days.
- rdr:** Drain and refill hot tub as per Beachcomber instructions. Reminder is every 90 days.
- rCO:** Clean and condition Heatshield as per Beachcomber instructions. Reminder is every 180 days.
- rCH:** Install new Microfilter cartridge. Reminder is every 365 days.

To suppress reminders, refer to the edit menu on page 16 of this Owner's Guide.

DIAGNOSTIC DISPLAY MESSAGES

OHH or **OHS:** Overheat-DO NOT ENTER HOT TUB

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HFL: Could indicate flow problem

LF: Persistent low flow problems

DR: Inadequate water detected

DRY: Inadequate water detected

PR: Hot tub in priming mode

- - : Temperature unknown

STD: Hot tub is in Standard mode

ECN: Hot tub is in Economy mode

SE: Hot tub is in Standard-Economy mode

PLEASE REFER TO TROUBLE SHOOTING GUIDE ON PAGE 23 FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

WARNING

SHOCK HAZARD! NO USER SERVICEABLE PARTS.

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WARNING

TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.


WARNING

ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH A THERMOMETER.






ET-3 CONTROL PANEL INSTRUCTIONS

STARTUP

When your hot tub is first activated, it will go into priming mode (after displaying some configuration information). The priming mode will last up to 4 minutes; then circulation will start, then heat light will come on for 6 seconds, and then flicker for 90 seconds. Then heater will come on to heat water to set temperature. It is recommended that priming mode be allowed to finish, preventing any pumps from operating dry. If you are positive all pumps are primed you can exit the priming mode early by pressing .



TEMPERATURE ADJUSTMENT

Temp range is: (80°F - 104°F/26.0°C – 40.0°C) The factory pre-set temperature is set at 100°F/37.5°C. The last measured temperature is constantly displayed on the LCD. See edit menu in Owner's Guide to select F° or C°. *Note: On non HushPump™ hot tubs the current water temperature will only be displayed if the 2 speed filter pump has been running for two minutes.*




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HEATING MODES

A button combination is used to switch between Standard, Economy, and Sleep modes. Press  followed by  to enter mode


programming, press  to cycle through to the desired mode (LCD flashes until confirmed), then press  to confirm selection.

Standard Mode maintains the set temperature at all times. **STD** will appear on the display momentarily when you switch into Standard Mode.


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Sleep Mode heats the hot tub within 20°F (11°C) of the set temperature only during filter cycles. **SLP** will appear on the display until mode is changed. Use this mode when going on holidays.




MASSAGE

Press the  button once to activate the pump's low speed, again for the pump's high speed, and once more to turn off the pump. The pump's low speed turns off automatically after 2 hours. The pump's high speed will turn off automatically after 15 minutes. Massage pump comes on for a 1 minute purge at the start of each filter cycle.

LIGHT

Press the  button to turn the hot tub light on, press again to turn off. Light will automatically turn off after 3 hours.







STANDBY MODE

Pressing  followed by  or  will turn off all hot tub functions temporarily. **SBY** will appear on your display. This is helpful when changing a filter element. Pressing any button exits Standby mode. *Note: If the hot tub is in a heat cycle when standby is selected the 2 speed filter pump or HushPump™ will run for approximately 15 seconds.*

FILTER CYCLES


The first filter cycle ("day") begins 6 minutes after the hot tub is powered up. The second filter cycle ("night") begins 12 hours later. If the hot tub is not HushPump™ equipped filter duration is programmable for 1-12 hours (F1-F12). The default filter time is 2 hour cycles twice a day.

To Program:

1. Press  button then .
2. Press  to select the filter duration.
3. Press  to select the number of filter cycles.
4. Display will show **DN** (both day and night cycles); or **D** (day cycle only); or **N** (night cycles only). Press  to adjust
5. Press  to exit programming mode.
6. HushPump™ equipped hot tubs will automatically filter 2-12 hour cycles per day. No programming is available on Hush equipped hot tubs due to the energy efficiency of the HushPump™.

Changing filter cycles on HushPump™ equipped tubs will only affect the times the heater comes on if using the Economy Heating mode. It does not change the amount the HushPump™ runs.

PERIODIC REMINDER MESSAGES

(press the  button to reset a displayed reminder message)

- rPH:** Test and adjust pH chemical levels as per Beachcomber instructions. Reminder is every 7 days.
- rCL:** Remove, clean, and reinstall Microfilter Cartridge as per Beachcomber instructions. Reminder is every 30 days.
- rt9:** Test & reset GFCI as per Beachcomber instructions. Reminder is every 30 days.
- rdr:** Drain and refill hot tub as per Beachcomber instructions. Reminder is every 90 days.
- rCO:** Clean and condition Heatshield as per Beachcomber instructions. Reminder is every 180 days.
- rCH:** Install new Microfilter cartridge. Reminder is every 365 days.

To suppress reminders, refer to the edit menu on page 16 of this Owner's Guide.

DIAGNOSTIC DISPLAY MESSAGES

OHH or **OHS:** Overheat-DO NOT ENTER HOT TUB

ICE: Potential Freeze

SNA: Hot tub is shut down

SNB: Hot tub is shut down

SNS: Sensor out of balance

HFL: Could indicate flow problem

LF: Persistent low flow problems

DR: Inadequate water detected

DRY: Inadequate water detected

PR: Hot tub in priming mode

- - : Temperature unknown

STD: Hot tub is in Standard mode

ECN: Hot tub is in Economy mode

SE: Hot tub is in Standard-Economy mode

PLEASE REFER TO TROUBLE SHOOTING GUIDE ON PAGE 23 FOR A COMPLETE EXPLANATION OF DIAGNOSTIC MESSAGES.

WARNING

ALWAYS TEST WATER TEMPERATURE PRIOR TO ENTRY USING THE TOPSIDE CONTROL PAD. ENSURE COMFORT BY ALSO CHECKING WATER WITH A THERMOMETER.

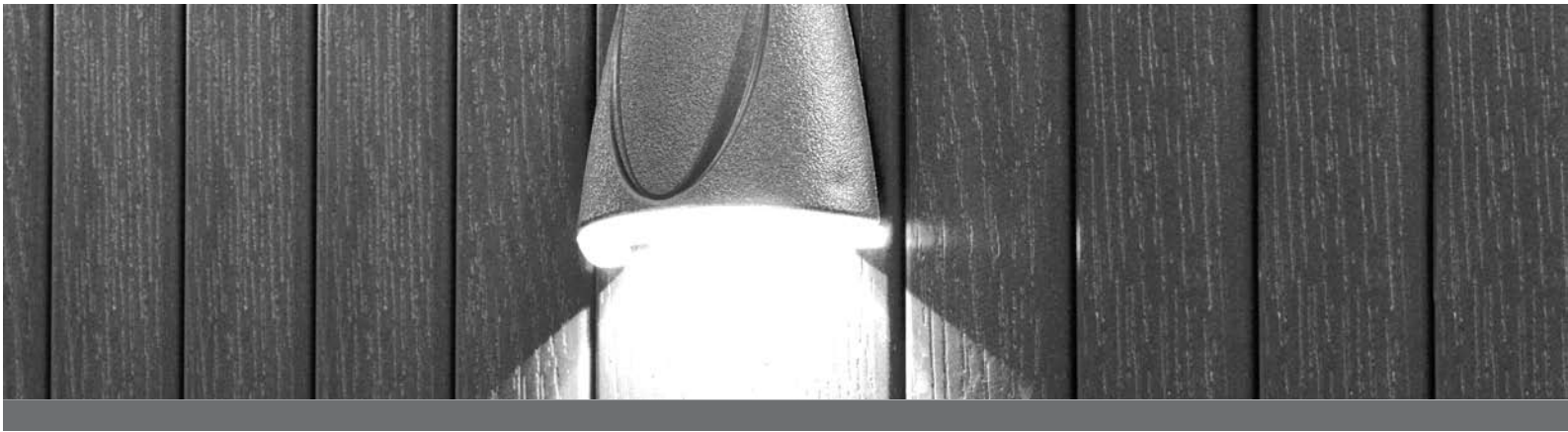
WARNING

SHOCK HAZARD! NO USER SERVICEABLE PARTS.

DO NOT ATTEMPT SERVICE OF THIS CONTROL. CONTACT YOUR DEALERSHIP OR SERVICE PROVIDER FOR ASSISTANCE. FOLLOW ALL OWNER'S GUIDE POWER CONNECTION INSTRUCTIONS. INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN AND ALL GROUNDING CONNECTIONS MUST BE PROPERLY INSTALLED. TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.

WARNING

TAMPERING WITH OR MODIFYING THIS EQUIPMENT MAY VOID YOUR GUARANTEE.



Edit Menu

There are three selections available in the Edit Menu.

Suppress Reminders: Your system will periodically remind you to perform certain maintenance tasks on your hot tub. If you do not want these reminders to display, you can suppress them. See the Control Panel section for a complete list of the reminders and what they mean.

Temperature display: You have the option of changing the default temperature display from Fahrenheit to Centigrade.

24 hour Time Display: If your hot tub is a 700 series you can select whether your clock is in 24 hours (Military) format or 12 hour (am/pm).

TO ENTER THE EDIT MENU

160, 300 & 500 Series

Press , ,  and then .

700 Series











Press , , , and .

Press ,  or  for the ET-7) to scroll through the following available sub-menus.











- **SRN OR SRY** (Suppress Reminders)
- **TCY OR TCN** (Temperature Display)
- **24Y OR 24N** (24 Hour Time Display)

Once a selection is made you will see one of the following on your display:







SRN OR SRY


Press  (1 for the ET-7) and the **N** or **Y** will flash. Press  ( or  for the ET-7) to choose **Y** to suppress reminders or **N** to not suppress reminders. Press  (1 for the ET-7) to accept your selection. Press  ( or  for the ET-7) to go to the next setting selection.

TCY OR TCN

Press  (1 for the ET-7) and the **N** or **Y** will flash. Press  ( or  for the ET-7) to choose **Y** for Celsius or **N** for Fahrenheit. Press  or (1 for the ET-7) to accept your selection. Press  ( or  for the ET-7) to go to the next setting selection.

24Y OR 24N

Press 1 and the **N** or **Y** will flash. Press  or  to select either **Y** for Military or **N** for am/pm. Press 1 to accept your selection. Press  or  to go to the next setting selection.

To exit Edit Menu press  twice.

BEACHCOMBER'S RECOMMENDED PARAMETERS FOR BALANCED HOT TUB WATER

PH LEVEL:	7.2 - 7.8
SANITIZER LEVEL (CHLORINE OR BROMINE):	3 - 5 PPM
CALCIUM HARDNESS:	150 - 200 PPM
TOTAL ALKALINITY:	100 - 120 PPM
TOTAL DISSOLVED SOLIDS:	NO MORE THAN 1500 PPM

Your dealer may recommend slightly different levels depending on your local source water. Please see your dealer for more information by taking a water sample in to be analyzed.

Water Care and Chemistry

This is a very important component to protect your hot tub and its equipment. Failure to maintain proper water balance could damage your hot tub and equipment and affect your guarantee. Your dealer can provide you with free water analysis, treatment and home testing products. Also see the booklet, *Beachcomber's Guide to Hot Tub Water Care* for additional information.

SANITIZER LEVEL

Always maintain an adequate sanitizer level. Failure to do so will result in cloudy water, odor and skin or respiratory problems. The ideal range is 3 - 5 ppm. Check daily with test strips or a test kit available from your Beachcomber Dealership.

WARNING ALWAYS LEAVE THE HEATSHIELD OPEN FOR ONE HOUR WHEN SHOCK TREATING THE WATER. THE HIGH LEVELS OF SANITIZER CAN DAMAGE THE UNDERSIDE OF YOUR HEATSHIELD. THIS IS NOT COVERED BY YOUR GUARANTEE.

WARNING DO NOT ALLOW CHILDREN TO USE A HOT TUB WITHOUT ADULT SUPERVISION. PREVENT UNAUTHORIZED CHILD ACCESS TO AVOID THE RISK OF DROWNING.

Always follow the label instructions on water care chemicals:

- Keep out of reach of children;
- Do not mix products together;
- Add one product at a time;
- Add chemical to water, not water to chemicals;
- Store chemicals in a cool, dry place,
- Do not allow liquids to freeze.

PH LEVEL: IDEAL 7.2 - 7.8

This determines the acidity or alkalinity of your water, 7.0 being neutral. Water that is too acidic or too alkaline can damage your hot tub; Test your pH every week or more often if possible. Use *pH Plus* or *pH Minus* to adjust.

TOTAL ALKALINITY: IDEAL 100 - 120 ppm

Balance total alkalinity to stabilize your pH level, prevent scaling and ensure your sanitizer works at peak efficiency. Use *Resist* to increase the level or *pH Minus* to lower. Adjust at initial fill and when refilling or topping up.

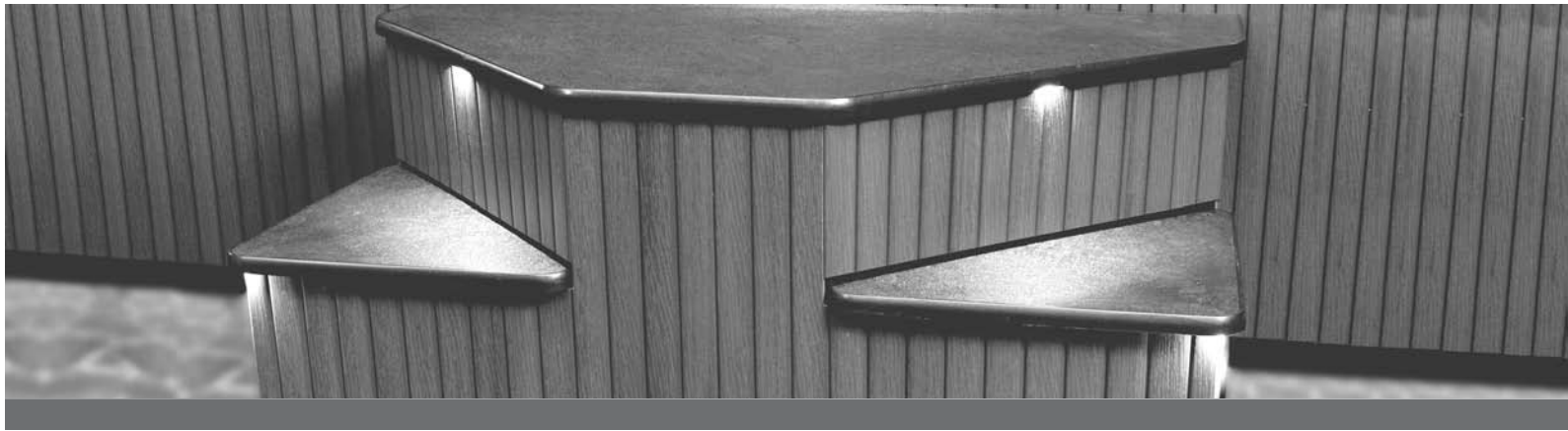
CALCIUM HARDNESS: IDEAL 150 - 200 ppm

Too high a level can cause cloudy water or scaling on the hot tub surface and heating element. Too low a level can lead to excess foaming in the water. Use *Protect* to increase the level, use fresh water dilution to lower. Adjust at initial fill and when refilling.

OTHER IMPORTANT CONDITIONERS

1. Metal and mineral sequestering product must be added to keep any metals or minerals in the water in solution. Use *Eliminate #1* at initial fill.
2. Scale inhibitor prevents calcium buildup forming on surfaces in the hot tub. Use *Eliminate Plus #2* at initial fill and weekly.
3. Clarifier agglomerates tiny particles in the water making them easier to be picked up by the Microfilter. It also provides lubrication to seals. Use *Pure Blue* at initial fill and weekly.
4. Enzymes, a natural compound, eliminates scum and organic contaminants. Use *Purezyme #3* at initial fill and weekly.

Beachcomber offers a full line of recommended water care products to get the most from your Beachcomber Hot Tub. Since 1978, we have been providing Beachcomber owners with custom formulated products to meet the needs of your hot tub. Now, Beachcomber offers "Judy Scentsations" to add the healing touch of aromatherapy to your hot tub experience. See your Beachcomber dealership for more details.



NOTE:
POINTS 1
THROUGH
4 APPLY TO
EVERLITE 4.
THE EVERLITE 6
INCLUDES ALL
SIX POINTS.

EverLite™ 6 Operating Instructions

1. **Beachcomber Mode A** - Light will sequence from Red, to Green, to Blue continuously. Press the light button once to start the **'Beachcomber Mode A'**. Light will stay on each solid color for three seconds. The color will blend with the next color for four seconds before the next color becomes a solid. To turn off, press button once. *
2. **Freeze Mode** - As it cycles through the **'Beachcomber Mode A'**, the light can be frozen on any solid or blended color. Choose a color, and then touch the button twice (off, then on) within four seconds to switch to **'Freeze Mode'**. To turn off, press button once.
3. **Pulse Mode** - This is a random cycling mode, which imitates the soothing rhythm of a heartbeat. When in the **'Freeze Mode'**, touch the button twice (off, then on) within four seconds to switch to **'Pulse Mode'**. To turn off, press button once.
4. **White Mode** - This mode recreates natural white light. When in the **'Pulse Mode'**, touch the button twice (off, then on) within four seconds to switch to **'White Mode'**. To turn off, press button once.
5. **Beachcomber Mode B** - All lights above waterline are turned on, while all underwater lights are off. When in the **'White Mode'**, touch the button twice (off, then on) within four seconds to switch to **'Beachcomber Mode B'**. To turn off, press button once.

ZONED MODE

6. **Beachcomber Mode C** - All lights below waterline are turned on, while all lights above water are off. When in the **'Beachcomber Mode B'**, touch the button twice (off, then on) within four seconds to switch to **'Beachcomber Mode C'**. To turn off, press button once.

*Note: If the light is left off for more than ten seconds, it will revert back to 'Beachcomber Mode A' when switched back on.

Hot Tub Care and Maintenance

CLEANING OF THE ACRYLIC SURFACE

The acrylic surface is very easy to maintain and care for. Use *Tub Clean* to remove water level scum lines with warm water and a damp cloth; wipe down, avoiding contact with the water as *Tub Clean* can cause foaming.

HEATSHIELD AND STEP TOPS

As with any vinyl product that is exposed to the weather, the better the care, the longer it will last. Use a mild dish soap solution to remove dirt on the Heatshield and then treat the vinyl by applying *Cover All* as per the label. Avoid application in the hot sun.

HOT TUB CABINETRY AND STEPS

The cabinet and step of your hot tub is made from a synthetic plastic called *Enviro skirt™*. If dirty, simply wipe down with a mild soap solution and rinse well. If your hot tub cabinet is natural cedar and you want to keep it looking new, use Beachcomber's "Nu Wood Stain" Clear once a year. If the cedar is weathered some, use Nu Wood Natural or Twilight to bring back the color. Prior sanding with 100 grit sandpaper may be necessary if weathering is advanced.

WARNING

NEVER USE A CLEANER THAT CONTAINS AMMONIA. THIS COULD DAMAGE YOUR ACRYLIC SURFACE. AVOID LEAVING THE HOT TUB EMPTY AND THE ACRYLIC EXPOSED TO HOT SUN. ALWAYS PUT THE HEATSHIELD BACK ON THE HOT TUB WHEN IT IS NOT IN USE.

WARNING NEVER USE AN ABRASIVE CLEANER FOR CLEANING THE ENVIROSKIRT™ CABINET AS THIS WILL DAMAGE THE FINISH.

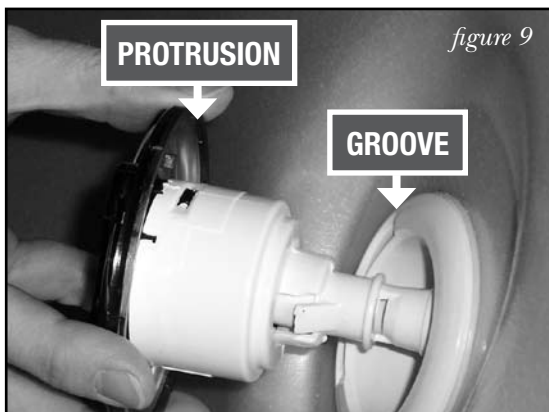
PLASTIC COMPONENTS

The jets should be removed periodically and rinsed out to remove debris from the spinning assemblies. If calcium build-up is present, soak the parts in Filter Cure to loosen the calcium and then scrub with a brush and rinse off. If a lot of hair and debris is present on suction covers located in the foot well, this can reduce water flow to the pumps. Manually remove when the hot tub is empty or full.

Operation of Hot Tub Interior Features

MASSAGE INSERTS OR JETS

The jets in a Beachcomber Hot Tub are known as Energy-Jets™ in three sizes; small, medium and large. They are interchangeable within the same sizes. See *Figure 9* Simply turn them counterclockwise until they click and pop out. To re-install, line up the small protrusion on the back of the face plate with the slot on the white WaterPort and then turn clockwise and push in until they click in. The jets can also be individually turned off/on. Simply turn clockwise to turn off the water flow and counterclockwise to turn on water flow.



To turn on the neck jet on the model 350 or 500 and 700 series hot tubs turn counterclockwise to turn on and clockwise to turn off. If this jet does not turn off then carefully pry the face plate off with a flat head screw driver, and screw the internal portion back in by hand. Then pop the face plate back on and turn it clockwise to tighten in the internal portion.

AIR CONTROL VALVES

There are two air control valves located on either side of the touch pad. See *Figure 10*. In the six o'clock position they are off, meaning no air can be drawn to the jets. To allow air to be drawn in, turn the lever to the 2 o'clock position. On 300, and 500 series hot tubs the left air control services the seat jets on the left of the hot tub and jets in the foot well. The right air control services seat jets on the right side of the hot tub. These air controls improve the massage experience in your hot tub by adding more turbulence to the water flow.

On the 350 model and 500 series hot tubs with the Reflex Foot Massage (RFM) option, the right air control services the RFM jets when the water flow is diverted to them and the left air control services all the seat jets. On the 700 series, the left air control allows air flow to jets running off Massage Pump 1. The right air control allows air flow to jets running off Massage Pump 2. The right air control would also allow air flow to the RFM jets if the diverter valve is diverting water flow from Massage Pump 2 to the RFM jets. On all models more air is drawn in when the jet pump is on high speed than when the pump is on low speed.



RFM DIVERTER VALVE

The purpose of this valve is to divert water flow between either the RFM foot jets or the seat jets. See *figure 11*. On 700 series hot tubs it diverts water flow from massage 2 pump between the RFM foot jets or the seat jets on the left side of the hot tub. Always turn the pump to low speed or off before attempting to turn the RFM Diverter Valve. Failure to do this could cause the handle to break due to the high velocity of water moving through the valve. Note: when the hot tub is not being used,



the diverter valve handle must be left in the center position. This ensures that water in both zones is always in circulation during periods of non use.



figure 11

AQUACOUSTIC SURROUND SOUND SYSTEM™ (ACSS)

If your hot tub is equipped with the ACSS feature simply lift up the front cover, insert your CD or select a radio station, then select a volume level between 28-34. If you purchased the optional remote see the remote control reference card for operation instructions. The remote is waterproof but not meant to be left in the water for storage.

If you have the optional True Bass™ ACSS System the CD player fader control should be left in the zero position. For more in depth instruction on the CD player see your CD Player owners manual.

HOT TUB LIGHTING

All Beachcomber tubs come standard with either a 12 volt incandescent light or an EverLite™ LED light. To replace either unit drain your tub and locate your lens removal tool to unscrew the light lens. Carefully pull out the light and replace with a new one. Screw the lens back in until tight, but do not over tighten.

WATERFALL

If your tub is equipped with a waterfall feature there is a top side control valve to increase or decrease the amount of water flow. The Waterfall feature receives its flow from the HushPump™ or 2 speed circulation pump.

TURBO

The purpose of the Turbo Option is to increase the amount of air that comes out of the jets. The benefit is a dramatic increase in the feel of the jet pressure and more turbulence in the water. If the Turbo is activated and the air controls are closed, the air from the Turbo will come out of the 4 salt shaker relief jets found in the foot well of the hot tub.

OZONE GENERATOR

Your hot tub may be factory equipped with an ozonator unit, or factory pre-plumbed to accept the installation of an ozonator. Ozone gas is produced to oxidize organic contaminants in the water.

The ozonator is equipped with a small viewing window. When ozone gas is produced, the window shows a purple glow, best seen at night. This diminishes over time. When no purple glow is seen during filtration cycles (not heating cycles), the chip will require replacement. The chip is rated at 9000 hours.

WARNING	NO USER SERVICEABLE PARTS. THE USE OF AN OZONATOR IS NOT A REPLACEMENT FOR A WATER SANITIZING PROGRAM. FAILURE TO PROPERLY SANITIZE HOT TUB WATER CAN CAUSE IRRITATION AND/OR DISEASE.
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HUSHPUMP™

The HushPump™ is a very quiet, low amperage, high flow circulation and filtration pump that looks after the filter and heating functions of your hot tub. It comes set from the factory to operate 24 hours a day.

Draining Your Beachcomber Hot Tub

Change three to four times a year or more if bather load is high. To calculate the change frequency, use the following formula.

$$\frac{\# \text{ DAYS} = 1/3 (\text{VOLUME IN US GALLONS})}{\text{MAX \# OF DAILY BATHERS}}$$

Before draining, check the sanitizer level. It should not be above 1.0 to ensure no harm is done to the surrounding environment. If sanitizer level is high, use Beachcomber's *Neutr-All* as directed on the label.

1. Turn the power off at the G.F.C.I breaker or Power disconnect switch
2. Locate the black drain/fill valve found in behind the door on a Portable model or under the step on the Protec model. See *Figure 12*. Remove the safety cap from the fitting threaded into the valve.



figure 12

3. Attach the female end of your garden hose and place the other end at a level lower than the drain/fill valve to ensure complete draining. Turn the outer part of the drain/fill valve counter clockwise to open and start the draining.
4. Draining time will vary from model to model.

5. Once the hot tub is drained, disconnect the garden hose and close the valve if you are not going to fill the hot tub through the valve. If you want to fill through this valve, unscrew the threaded adapter and thread in the male end of your garden hose, then attach the female end to your tap and refill.

Vacation Instructions

If leaving your hot tub full and running while on vacation for 3-5 days, do the following:

1. Check and adjust pH level if necessary.
2. Shock-treat water to raise sanitizer level. Leave the hot tub Heatshield half open for 1 hour.
3. Lower water temperature to minimum setting (optional).
4. Lock your Heatshield on the hot tub to maintain a safe environment for pets or children. If in a high wind area, install Hurricane Straps available from your local Beachcomber dealership.

Upon returning do the following:

1. Check pH and sanitizer level and adjust if necessary.

If leaving for 5-14 days and no one can come by to maintain the hot tub do the following:

1. Lower the set temperature to 80°F/26.5°C. Sanitizers may last longer in cooler water.
2. Check and adjust pH and Alkalinity level if necessary.
3. Use either a Beachcomber floating tablet dispenser or a Holiday Tender tablet dispenser to automatically dispense either *Bromine Disc* or *Mini Disc* in your hot tub water to maintain water disinfection. Use the low setting on these devices as the demand



for disinfectant will be low during this time.

4. Lock the Heatshield and attach a Hurricane Strap in high wind areas.

Upon returning do the following:

1. Check pH and sanitizer level and adjust if necessary.
2. Return temperature setting to your desired level.

Winter Operation Information

All Beachcomber Hot Tubs have built in freeze protection for their equipment. If your hot tub is not HushPump™ equipped, the freeze protection will activate the pump(s) high speed for approximately 2 minutes if a temperature of 50°F/10°C or below is detected at the heater housing. If your hot tub is HushPump™ equipped, the only time freeze protection will activate is if the hot tub is left in standby mode long enough to allow water at the heater to reach 50°F/10°C or if your hot tub is filled with water that is 50°F/10°C or lower. There is also a small water line that runs from pump to pump that assists in the freeze protection by increasing circulation.

WINTER PRECAUTIONS

If your equipment is not working during freezing temperatures you should first try to contact your local Beachcomber dealership. Some stores have an emergency number for winter. If you cannot contact your dealership, call Beachcomber North American Customer Care at 1-800-663-6557 from 8:00 - 4:30 PST.

To prevent damage caused by the equipment freezing, place a small space heater or trouble light down by the equipment. Position the heater or light so that it does not melt or come in contact with plastic parts, to avoid equipment damage. You can also block off the step or door vent to keep in the heat but it must be removed once the freezing weather is no longer present.

In the event of a prolonged power outage, first shut off the power at the main panel. Close the knife valves (*see figure 4*) to keep the hot water in the hot tub, and remove the drain plugs or pull out one of the small braided hoses on the front of the pumps to drain all the water from the external plumbing lines and the pumps.

Shutdown Procedures

Beachcomber encourages the use of your hot tub year round, but if you prefer not to use your hot tub for periods longer than 14 days, you need to do a proper shut down.

Do the following:

1. Drain the hot tub as outlined in this Guide.
2. Unscrew all union nuts on the front of the pump(s) to allow any water in the external lines to drain out. Retain the gaskets found at these locations, along with the equipment.
3. Locate and remove the small black slotted drain plugs found on the front of the pump(s) below the union nuts from step 2. or remove the small braided hose from the barbed fitting on the front of the HushPump™.

Removing these allows the last bit of water in the bottom half of the pump to drain out.

4. Remove the Microfilter cartridge and store in a dry place.
5. Lock Heatshield and attach Hurricane strapping if in high wind areas.
6. Provide Extra Support for the Heatshield in heavy snow by placing a 4x8 sheet of 3/4" plywood on top of the Heatshield.

Do's and Don'ts

DO'S

1. Read this Owner's Guide thoroughly and follow the safety guidelines provided.
2. If you have questions not covered in this guide, call your local Beachcomber dealership. Or, call 1.800.663.6557 from 8:00 - 4:30 PST.
3. Follow water care instructions and guidelines. Failure to do so can result in damage or problems to the hot tub or the equipment.
4. Always leave your Heatshield open half way when shocking your water.
5. Always supervise children in and around a hot tub. Do not allow children to use the hot tub unsupervised.
6. Test your GFCI circuit protector at least once a month to ensure it is working correctly.

7. Rinse your Microfilter at least once a week if the hot tub is used daily.

8. Always check the water temperature before entry.

DON'TS

1. Don't enter your hot tub if the sanitizer level is not adequate. This can cause respiratory and skin problems.
2. Don't walk on, sit on or put heavy weight on the Heatshield cover. This can cause the foam inserts to break.
3. Don't leave the hot tub exposed to the sun if empty. Always cover the hot tub with your Heatshield.
4. Don't allow use of the hot tub by children without proper supervision.
5. Don't attempt to repair or service equipment. Consult your Beachcomber dealership.
6. Don't attempt to drain and refill your hot tub during freezing temperatures.
7. Don't use glassware in or around your hot tub.
8. Don't enter a hot tub if the temperature is higher than 104° F/40° C.
9. Don't operate the hot tub with an inadequate water level.

Diagnostic Display Messages & Trouble Shooting Guide

MESSAGE	MEANING	ACTION REQUIRED
	No message on display. Power has been shut off to hot tub. GFCI breaker is on but the control panel is blank. System fuse(s) are blown.	The control panel will be disabled until power returns. System resets time of day on each power-up. Hot tub settings are preserved. Call your dealer for service.
OHH	"Overheat"- The hot tub has shut down. One of the sensors has detected 118°F or 47.8°C at the heater.	DO NOT ENTER THE WATER. Remove the Heatshield cover and allow water to cool. Once the heater has cooled, reset by pushing any button. Check to see if the knife valve on return side of the heater is closed, if closed ensure that all knife valves are in the up or open position. If hot tub does not reset, shut off power to the hot tub and call your Beachcomber dealership.
OHS	"Overheat"- The hot tub has shut down. One of the sensors has detected that the hot tub water is 110°F or 43.3°C.	DO NOT ENTER THE WATER. Remove the hot tub Heatshield and allow water to cool. At 107°F or 41.7°C. the hot tub should automatically reset. Follow action required for "OHH". If hot tub does not reset, shut off power to the hot tub and call your dealership.
ICE	"Ice"- Potential freeze condition detected.	No action required. The Pumps and blower will automatically activate regardless of hot tub status.

Diagnostic Display Messages & Trouble Shooting Guide, cont'd.

SNA	Hot tub is shut down. The sensor that is plugged into the sensor "A" jack is not working.	If the problem persists, contact your dealership. (May appear temporarily in an overheat situation and disappear when heater cools.)
SNB	Hot tub is shut down. The sensor that is plugged into the sensor "B" jack is not working.	If the problem persists, contact your dealer for service.
SNS	Sensors are out of balance. If this is alternating with the temperature, it may just be a temporary condition. If the display shows only this message (periodically blinking), The hot tub is shut down.	If problem persists, contact your dealership for service. Follow action required for "SnA".
HFL	A substantial difference between the temperature sensors was detected. This could indicate a flow problem.	Check water level in hot tub. Refill if necessary. If the water level is okay, make sure the pumps have been primed. If problem persists try these solutions: <i>Microfilter is dirty:</i> Put tub on Standby, remove Microfilter and clean or replace. <i>Air lock in system:</i> Locate air bleed thumb screws and open partially to release air in piping. <i>Debris in HushPump™:</i> Call your dealer for service or shut down system, close all knife valves and remove face plate from HushPump™ to remove debris. <i>Circulation pump failed or frozen:</i> If freezing suspected, place trouble light or space heater around equipment to thaw out pump and external piping and call your dealer for service.
LF	Persistent low flow problems. (Display on the fifth occurrence of the "HFL" message within 24 hours.) Heater is shut down, but the other hot tub functions continue to operate normally.	Follow action required for the "HFL" message. Heating capacity of the hot tub will not reset automatically; you may press any button to reset.
DR	Inadequate water detected in heater.	Check water level in hot tub. Refill if necessary. If the water level is okay, make sure the pumps have been primed. Press any button to reset.
PR	When your hot tub is first actuated, it will go into priming mode.	The Priming Mode will last up to 4 minutes and then the hot tub will begin to heat and maintain water temperature in Standard Mode.
--F / --C	Temperature unknown.	After the pump has been running for 2 minutes, the temperature will be displayed.
SBY	Standby Mode has been activated by pressing a button combination on the user panel.	Press any button to leave Standby Mode and return to normal operation.
STD/ STANDARD	The hot tub is operating in Standard Mode.	No action required. Refer to Heating modes page to change this mode.
ECN/ ECONOMY	The hot tub is operating in Economy mode.	No action required. Refer to Heating modes page to change this mode.
SE/ STANDARD- ECONOMY	The hot tub is operating in Standard-Economy mode.	No action required. Refer to Heating modes page to change this mode.
SLP/ SLEEP	Sleep mode has been activated by pressing a button combination on the user panel.	No action required. Refer to Heating modes page to change this mode.

Hot Tub Operation Troubleshooting Guide

PROBLEM SYMPTOM	MOST LIKELY CAUSE	SOLUTION
G.F.C.I. breaker will not stay on or trips intermittently.	If hot tub is new; the load neutral wire has been inserted on the neutral buss in the panel. Load neutral wire should be inserted into the G.F.C.I. load neutral connection.	Call your Electrician to change location of the load neutral wire.
	Heater element is defective and leaking current to ground.	Call your dealer for service to replace the heater element.
	G.F.C.I. is worn out or defective. Class A, G.F.C.I. breakers should not trip below 5 milliamps of current leakage.	Call your electrician to replace your G.F.C.I.
Jet pump is surging on high speed.	Water level is too low on hot tubs that use a jet pump for filtering.	Raise water level in hot tub to at least ½ way up the skimmer opening.
	Plug in center of Microfilter basket is not in place on non HushPump™ equipped hot tub.	Install plug in basket, insert from top of basket.
	RFM jet nozzles are pointed toward small suction fitting in foot well.	Redirect nozzles away from the small suction fitting. Turn off all air control for RFM jets.
Neck jet does not shut off.	Internal portion of two piece neck jet has been unscrewed by turning too far to the left.	Carefully pry the faceplate off with a flat head screw driver and then thread internal back in. Then pop face plate back on and tighten internal by turning face plate clockwise.
ACSS Remote control is not operating the jets and light functions from in the hot tub but will operate from out of the hot tub.	CD player console door is open.	Close CD player console door.
	Emitter on door window has come off.	Re-glue emitter to door glass with super glue. Line up between receiver eye on CD player face and hot tub function receiver eye below. See CD player Guide for receiver eye location.
ACSS remote control is not operating CD player functions from in the hot tub but will operate from out of the hot tub.	CD player console door is open.	Close CD player console door.
	Emitter on door window has come off.	Re-glue emitter to door glass with super glue. Line up between receiver eye on CD player face and hot tub function receiver eye below. See CD player Guide for receiver eye location.
Remote control does not work hot tub or CD Player functions pointing at CD player.	Batteries need replacing. Remote control is defective.	Replace batteries or see your Beachcomber dealership.



THE BEACHCOMBER GUARANTEE

Since 1978, Beachcomber Hot Tubs has been building the finest quality hot tubs worldwide. We have taken a leadership position with our Beachcomber Guarantee that every hot tub we build is guaranteed to be free of defects. Beachcomber Hot Tubs is a family owned and operated business with hundreds of thousands of happy customers. All of our customers enjoy a worry-free, Beachcomber Certified Guarantee of Ownership, with no fine print. Your Beachcomber dealership will register your Guarantee for you when you make your hot tub purchase.

LIFETIME SHELL STRUCTURAL GUARANTEE

Beachcomber guarantees to the original owner that the structural laminated fiberglass composition of your hot tub will never leak. If a failure occurs, we will supply the materials and technical labor for the repair.

5 YEAR ACRYLIC SURFACE GUARANTEE

Beachcomber guarantees that the hot tub's acrylic finish will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

100% COMPONENT GUARANTEE

Beachcomber guarantees the following factory installed components: management system, massage pumps, HushPump™, motors, heater element assembly, control panels, EverLite, Enviroskirt Cabinetry,

ozone generator, Aquacoustics Surround Sound music system, internal and external plumbing and light lenses, will be free from defects in materials and workmanship for two years. If a failure occurs we will supply the materials and technical labor for the repair. An ozone generator uses consumable corona discharge chips that are not covered under the Guarantee.

100% EXCHANGE GUARANTEE

Beachcomber guarantees that the factory supplied hot tub Heatshield cover, jetting massage inserts, steps, filter baskets, Microfilter lid and remote controls will be free from defects in materials and workmanship for two years. If a failure occurs, you can exchange the failed component at your local Beachcomber store.

100% OWNER TRANSFER OPTION

The remaining portion of the Beachcomber Guarantee is transferable to a new owner for a small fee, once in the life of the Guarantee. It is the new owner's responsibility to contact a Beachcomber representative to arrange for a customer-paid installation inspection of the hot tub to activate the Guarantee transfer. The transfer fee, hot tub serial number and inspection sheet must be received by the Beachcomber Guarantee office within 60 days of ownership transfer to be valid.

SIMPLICITY GIVES YOU PIECE OF MIND

We started Beachcomber in the late 70's, in a small farming community just a few miles from the USA border. It was a late, rainy evening that a small team worked hard to create the first Beachcomber Hot Tub, from that day forward we had a desire to create the finest quality products, with good, simple design in form, fit and function. That's how Beachcomber began and we still hold true to the same solid values as a family owned company today, staying focused on building a hand made quality product with a strong Guarantee.

EASY GUIDELINES TO ENSURE GUARANTEE PERFORMANCE

To receive service from a qualified Beachcomber service representative, your Beachcomber Hot Tub must be registered and you may be asked to provide an original bill of sale. Your Beachcomber Guarantee starts from the original date of delivery. You may be assessed a reasonable travel cost for service at your home. It is the hot tub owner's full responsibility to provide unencumbered access to the equipment for service, removal, and/or re-installation of the hot tub for required repairs.

If Beachcomber determines that repair of the hot tub is not feasible, we reserve the right to provide a replacement hot tub equal in value to the original purchased price. In this case the owner is responsible for expenses including removal, shipping and re-installation of the existing or replacement hot tub. Upon replacement of a hot tub, the Guarantee will cover the remaining portion of the existing Guarantee from the original installation date.

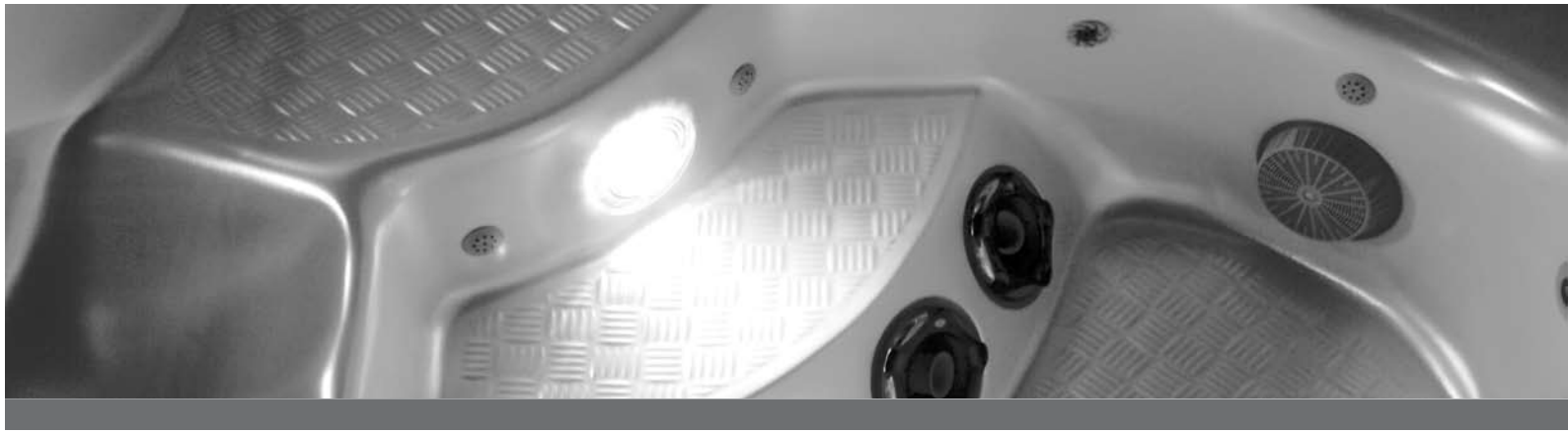
The Guarantee does not cover fading from natural aging and/or damage from excessive chemical use on all hot tub finishes, fixtures and the Heatshield Cover. Beachcomber Hot Tubs installed for commercial applications are excluded from all Guarantee coverage.

The Beachcomber Guarantee can not anticipate, nor does it cover damage or failure that has occurred as a result of product abuse, accidents, power disturbances, vandalism, acts of God or nature and other causes which are out of any manufacturer's control.

All Beachcomber Hot Tubs must be used, installed and maintained as directed by the supplied Owner's Guide to receive Guarantee coverage. This Beachcomber Guarantee is valid for hot tubs sold after January 2nd, 2006, only in the country of purchase. Service after the sale is the responsibility of the dealership from whom you purchased the Beachcomber Hot Tub. All Guarantees are registered online by your Beachcomber Dealership. Ask them for confirmation of your Guarantee Registration.



Celebrating the first Beachcomber Hot Tub in 1978.



THE BEACHCOMBER PREMIUM GUARANTEE

**Available in North America only.
Available at time of sale; see your
Beachcomber dealership for details.**

Since 1978, Beachcomber Hot Tubs has been building the finest quality hot tubs worldwide. We have taken a leadership position with our Beachcomber Guarantee that every hot tub we build is guaranteed to be free of defects. Beachcomber Hot Tubs is a family owned and operated business with hundreds of thousands of happy customers. All of our customers enjoy a worry-free, Beachcomber Certified Guarantee of Ownership, with no fine print. Your Beachcomber dealership will register your Guarantee online for you when you make your purchase.

LIFETIME SHELL STRUCTURAL GUARANTEE

Beachcomber guarantees to the original owner that the structural laminated fiberglass composition of your hot tub will never leak. If a failure occurs, we will supply the materials and technical labor for the repair.

5 YEAR ACRYLIC SURFACE GUARANTEE

Beachcomber guarantees that the hot tub's acrylic finish will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

100% COMPONENT GUARANTEE

Beachcomber guarantees the following factory installed components: management system, massage pumps, HushPump™, motors and control panels will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

5 YEAR SMART SENSE HEATER GUARANTEE

Beachcomber guarantees that the Smart Sense heater element assembly will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

5 YEAR NO LEAK PLUMBING GUARANTEE

Beachcomber guarantees against leaks caused by defects in materials and workmanship for five years. This Guarantee covers leaks from internal and external plumbing and light lenses. If a failure occurs, we will supply the materials and technical labor for the repair.

5 YEAR ENVIROSKIRT GUARANTEE

Beachcomber guarantees that the Enviroskirt Cabinetry will be free from defects in materials and workmanship for five years. If a failure occurs, we will supply the materials and technical labor for the repair.

SIMPLICITY GIVES YOU PIECE OF MIND

We started Beachcomber in the late 70's, in a small farming community just a few miles from the USA border. It was a late, rainy evening that a small team worked hard to create the first Beachcomber Hot Tub, from that day forward we had a desire to create the finest quality products, with good, simple design in form, fit and function. That's how Beachcomber began and we still hold true to the same solid values as a family owned company today, staying focused on building a hand made quality product with a strong Guarantee.

EASY GUIDELINES TO ENSURE GUARANTEE PERFORMANCE

To receive service from an qualified Beachcomber service representative, your hot tub must be registered and you may be asked to provide an original bill of sale. Your Beachcomber Premium Guarantee starts from the original date of delivery. You may be assessed a reasonable travel cost for service at your home. It is the hot tub owner's full responsibility to provide unencumbered access to the equipment for service, removal, and/or re-installation of the hot tub for required repairs.

If Beachcomber determines that repair of the tub is not feasible it reserves the right to provide a replacement tub equal in value to the original purchased price. In this case the owner is responsible for expenses including removal, shipping and re-installation of the existing or replacement hot tub. Upon replacement of a hot tub, the Guarantee will cover the remaining portion of the existing Guarantee from the original installation date.

The Guarantee does not cover fading from natural aging and/or damage from excessive chemical use on all hot tub finishes and fixtures. Beachcomber Hot Tubs installed for commercial applications are excluded from

all Guarantee coverage. The Beachcomber Premium Guarantee can not anticipate, nor does it cover, damage or failure that has occurred as a result of product abuse, accidents, power disturbances, vandalism, acts of God or nature and other causes which are out of any manufacturer's control.

All Beachcomber Hot Tubs must be used, installed and maintained as directed by the supplied Owner's Guide to receive guarantee coverage. This Beachcomber Premium Guarantee is valid only in the country of purchase. Premium Guarantee must be purchased and registered within 30 days of the original purchase. Service after the sale is the responsibility of the dealership from whom you purchased your Beachcomber Hot Tub. All Guarantees are registered online by your Beachcomber Dealership. Ask your store for the confirmation of your Guarantee Registration.



Keith and Judy Scott, founder of Beachcomber Hot Tubs

IMPORTANT INFORMATION FOR THE AQUACOUSTIC SURROUND SOUND SYSTEM



CAUTION – RISK OF ELECTRIC SHOCK. DO NOT LEAVE COMPARTMENT DOOR OPEN.

CAUTION – RISK OF ELECTRIC SHOCK. REPLACE COMPONENTS ONLY WITH IDENTICAL COMPONENTS AND DO NOT OPERATE THE AUDIO CONTROLS WHILE INSIDE THE HOT TUB.

WARNING PREVENT ELECTROCUTION. DO NOT CONNECT ANY AUXILIARY COMPONENTS SUCH AS CABLE, ADDITIONAL SPEAKERS, HEADPHONES OR ADDITIONAL AUDIO/VIDEO COMPONENTS TO THE SYSTEM.

Do not service this product yourself as opening or removing covers may expose you to dangerous voltage or other risk of injury. Refer all servicing to qualified personnel.

Turn power

Turn off power to the hot tub and seek assistance from qualified personnel if any of these conditions exist:

- power supply connections or cord is damaged;
- water entering the audio unit compartment;
- water entering any part of the hot tub equipment or management system;
- protective shield showing any sign of deterioration;
- or signs of damage or deterioration to your hot tub.

This unit should be subjected to periodic routine maintenance (for example, once every 3 months) to make sure that the unit is operating properly.

SAVE THESE INSTRUCTIONS

TAKE PART IN AN ONLINE SURVEY

Your Beachcomber Hot Tub purchase is very important to us. We would like to know about your buying experience and your level of satisfaction with us, our dealership and your new hot tub. Please take a few minutes to log on to our website to take a short questionnaire. Your feedback helps us improve our service to you and gives us valuable insight into your purchase experience. Log on to:

www.beachcomberhottubs.com

Click on "customer care" and follow the prompts & fill out this important information.

Thank you for your time!



Hot Tub Care Details Chart

MODEL	WATER CAPACITY	DRY WEIGHT	FILLED WEIGHT
750	398 US gallons / 1507 litres	800 lbs / 363 kg	4123 lbs / 1870 kg
740	398 US gallons / 1507 litres	800 lbs / 363 kg	4123 lbs / 1870 kg
738	398 US gallons / 1507 litres	750 lbs / 341 kg	4073 lbs / 1848 kg
720X	350 US gallons / 1325 litres	675 lbs / 307 kg	3596 lbs / 1632 kg
720	350 US gallons / 1325 litres	675 lbs / 307 kg	3596 lbs / 1632 kg
580	400 US gallons / 1515 litres	725 lbs / 329 kg	4065 lbs / 1844 kg
578	360 US gallons / 1363 litres	650 lbs / 295 kg	3655 lbs / 1658 kg
550X	360 US gallons / 1363 litres	650 lbs / 295 kg	3655 lbs / 1658 kg
538	264 US gallons / 1000 litres	600 lbs / 273 kg	2805 lbs / 1273 kg
530	264 US gallons / 1000 litres	600 lbs / 273 kg	2805 lbs / 1273 kg
520	185 US gallons / 701 litres	425 lbs / 193 kg	1971 lbs / 894 kg
378	398 US gallons / 1507 litres	800 lbs / 363 kg	4123 lbs / 1870 kg
350	360 US gallons / 1363 litres	650 lbs / 295 kg	3655 lbs / 1658 kg
320X	240 US gallons / 908 litres	475 lbs / 215 kg	2422 lbs / 1098 kg
320	220 US gallons / 833 litres	425 lbs / 193 kg	2262 lbs / 1026 kg
160	360 US gallons / 1363 litres	650 lbs / 295 kg	3655 lbs / 1658 kg

Beachcomber Hot Tub Care and Maintenance Record

DATE	CLEAN MICROFILTER	SOAK MICROFILTER	DRAIN AND REFILL HOT TUB	CLEAN COVER	WATER SAMPLE TO DEALERSHIP
1-					
2-					
3-					
4-					
5-					
6-					
7-					
8-					
9-					
10-					
11-					
12-					

Please photocopy this page if needed.

“ From my family to yours, thank you
for your trust and confidence in
Beachcomber Hot Tubs. ”

Keith Scott, Founder of Beachcomber Hot Tubs



My Commitment to Your Family

A Beachcomber Hot Tub is an investment in you and your family. Since 1978, our extended family of dealerships around the world have been helping people just like you to make a solid, informed decision about buying a hot tub. We have always believed in giving the information and education needed to make that important decision. We know that the sale really begins after you have your Beachcomber in your home.

Our desire for you is to have the best experience possible with your new Beachcomber Hot Tub, that's why our dealerships are equipped to help you with any additional needs you may have. From our family to yours, thank you for putting your trust in us and our products. We are pleased that you have chosen Beachcomber, and hope you recommend us to your friends and relatives.

Yours truly,

Keith Scott

Keith Scott, Founder of Beachcomber Hot Tubs



beachcomber
HOT TUBS