

Classic Series Owner's Manual



Owner's Information

Dealer

Company:
Address:
Phone:
E-Mail:
Installer
Company:
Address:
Phone:
Warranty Turned In / Date:
Model:
Serial Number:
Equipment Pack:
Color:
Date of Delivery:

We appreciate your business and our sincere desire is that you receive years of pleasure and therapy from your Dynasty Spa. Please call your local Dynasty Spa Dealer if you have any questions or problems. If they are unavailable, please feel free to call the Dynasty Spas Customer Service Group at: 800-951-6224.

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Dear Dynasty Spa Owner:

Congratulations on your purchase of a new Dynasty Spa. You now possess the ultimate passport to tranquility - a miniature vacation at home, ready and waiting for you in your own backyard!

We want you to enjoy your Dynasty Spa. Many hours of research have gone into the design of your spa, to ensure the ultimate in hydrotherapy and relaxation. Only the highest quality components have been used, to ensure years of trouble-free operation. Your comfort and enjoyment has been designed into your Dynasty Spa from the start.

Please take the time to read through this Owner's Manual. In it, you will find guidelines on caring for your spa, a complete explanation of the controls, safety instructions, a trouble-shooting section, and lots more.

Once again, we welcome you to the family of Dynasty Spa owners. Your thoughts and ideas are important and we encourage you to share them with us. Please write to us at the address below, or send us an e-mail with your comments.

Thank you for your business and your confidence in our company. We look forward to serving you!

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Sincerely,

Mike Deans

President, Dynasty Spas

Dynasty Spas 101 Dynasty Way Athens, Tennessee 37303 www.dynastyspas.com

Important Safety Instructions



When installing and using this electrical equipment, basic safety precautions should be followed, including the following:

- 1) READ AND FOLLOW ALL INSTRUCTIONS.
- 2) WARNING: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times. Keep Spa cover locked when not in use.
- 3) A wire connector is provided on 220 V units to connect a minimum No. 8 AWG (8.4 mm2) solid copper conductor between this unit and any metal equipment, metal water pipe, or conduit within 5ft. (1.5 m) of the unit.
- 4) DANGER: Risk of injury. The suction fittings in this spa are sized to match the specific water flow created by the pump, be sure that the flow rates are compatible. Never operate the spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less that the flow rate marked on the original suction fitting.
- 5) DANGER: Risk of electrical shock. Install at least 5 feet (1.5m) from all metal surfaces. as an alternative a spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum No. 8 AWG (8.4mm2) solid copper conductor to the wire connector on the terminal box that is provided for this purpose.
- 6) DANGER: Risk of electrical shock. Do not permit any electrical appliance, such as light, telephone, radio or television within 5ft. (1.5m) of spa.
- 7) WARNING: To reduce the risk of injury:
- The water temperature in a spa should never exceed 104°F. A water temperature of 104°F is considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.
- Since excessive water temperatures have a high potential for causing fetal injury during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperature to 100°F.
- Before entering a spa, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices varies.
- The use of alcohol, drugs, or medications before or during spa use may lead to unconsciousness with the possibility of drowning.

Important Safety Instructions (cont.)

- Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician before using a spa.
- Persons using medication should consult a physician before using a spa since some medication may affect heart rate, blood pressure, and circulation.
- 8) The causes, symptoms and affects of hyperthermia may be described as follows:

Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal temperature of 98.6 degrees F.

The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness and fainting. The effects of hyperthermia include:



- Failure to feel heat
- Failure to recognize the need to exit the spa
- Unawareness of impending hazards
- Fetal injury in pregnant women
- Physical inability to exit the spa or hot tub
- \bullet Unconsciousness resulting in the potential of drowning.
- 9) Never touch or come in contact with any electrical accessory when in your spa or when your body is wet.
- 10) Prior to performing any service to the Spa Pack, turn off ALL power to the system at the main power source breaker.
- 11) Never turn equipment pack on unless spa is filled with water 2" above the skimmer.

CAUTION: Each persons body and circulatory system has different tolerances and responds differently to warm/hot water immersion. Most people in good health find a water temperature of about 102°F to be satisfying and limit time in water at this temperature to 20-30 minutes. Use of alcoholic beverages and certain medications may affect the way your body's system reacts to warm water/hot immersion. **CONSULT YOUR PHYSICIAN FOR RECOMMENDATIONS.**





Basic Introductory Information

Congratulations on the purchase of your new spa. Our goal is to provide you with a warm and relaxing spa which incorporates a soothing water massage. In order to maximize the pleasure of your spa, you will need to understand how it works.

The following operating and maintenance instructions are very important and must be followed carefully. With proper care and maintenance your spa will provide you with years of satisfaction with minimum effort.

- The pump and heater should be operated a minimum of four hours per day for cleaning and heating.
- The length of time required to heat your spa to the desired water temperature will vary, depending on the air temperature, season, and wind velocity. We highly recommend using a vinyl hard cover to minimize heat loss and to protect your spa when not in use. Covers are available from your local Dynasty Spa dealer.
- The replaceable filter cartridge is trouble free and easy to clean. A routine cleaning is the best practice. Make sure the pump is off, then remove the cartridge. Wash it off using a water hose with a pressure nozzle and then reassemble. This should be done on a monthly basis.
- Keep the spa water level 2" above the skimmer. Never allow the
 water level to drop below the bottom of the skimmer opening. If
 the water level is too low, the skimmer will allow air into the
 water lines of the pump, causing it to lose its prime (water flow). Running the pump without water flow will damage the
 pump seal assembly and could possibly result in further
 equipment damage.
- If your spa has a redwood skirt or if you purchased a redwood gazebo, we recommend applying a wood sealer of your choice (always follow application instructions) to protect the finish. Repeat as directions suggest.
- You should clean your spa at least every 3-4 months. Drain the spa water and use a liquid cleanser such as 409 or Fantastic. DO NOT use hard brushes or abrasive cleaners. Fill with regular tap water and chemically treat the water for a clean and healthy spa.
- **CAUTION:** Cover must be kept on spa at all times when spa is drained or winterized. Direct exposure to sunlight can damage plastic parts and interior surface, jets, or any interior components. Damage caused by exposure to the sun will not be covered under warranty.
- **WARNING:** Do not use soft water. It may harm your acrylic.

Set-up And Delivery Guidelines

Getting Ready For Delivery & Set-up Of Your New Spa

Surface And Pad Requirements

- Your new portable spa must be placed on a uniformly firm, flat, and level surface. A concrete pad 4 inches thick is best.
- If your spa is located near sprinklers, adjust or cap them so as not to hit the siding of the spa.

Balconies And Deck Requirements

- Decking must be constructed to support 85 pounds per square foot.
- Balconies must be constructed to meet current state and local codes.
- Gates must be self-closing and self-latching.

Access & Clearance

- Your spa requires up to 40" of clearance through gates between house and side fences, and up to 8.5' overhead clearance depending on the size of the unit.
- The clearance required to turn a corner can be equal to the length of the spa.
- All debris blocking access to the job site must be removed prior to delivery. Any trimming of trees or bushes, removal of debris, leveling of ground or other general maintenance must be done prior to delivery and is the responsibility of the customer.

Electrical Requirements

Your 220 Volt spa pack will require a 50 amp dedicated GFCI circuit breaker.

Wiring Requirements

- (under 50 ft) 4 Wire #8 Gauge copper wire, 2-Hots, 1-Neutral, 1-Isolated Ground
- (over 50 ft.) 4 Wire #6 Gauge copper wire, 2-Hots, 1-Neutral, 1-Isolated Ground



Set-up And Delivery Guidelines (cont.)

Getting Ready For Delivery & Set-up Of Your New Spa

Wiring Requirements (Cont.)

- Extension cords are not to be used in conjunction with operation of the spa. Low voltage damage could result, which is not covered by warranty.
- If you have any doubts, have your electrical system checked by a qualified electrician.

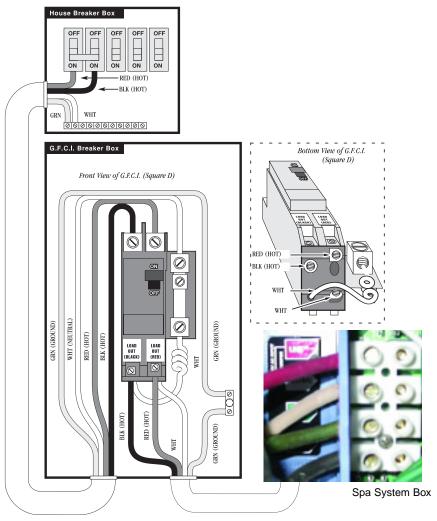
It is the customer's responsibility to acquire necessary permits and to arrange for installation and hook up of the electrical power.



Wiring Diagram

Factory Recommended G.F.C.I. Load Center Wiring

Note: The white neutral wire from the back of the GFCI MUST be connected to an incoming line neutral. The internal mechanism of the GFCI requires this neutral connection. The GFCI will not work without it.



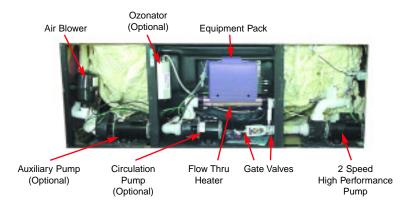
General Pre-Operation Instructions

Priming Pump For Electric Packs

The Power pack system is located under the wood skirt. The equipment can be serviced by simply removing the door.

It is important to make sure that all of the air is out of the pump(s) before operating. To do this follow procedures below:

- Turn off power at the breaker
- Make sure the gate valves are open
- Fill the spa with water going thru the filter
- Turn the power on at the breaker
- Start the pump on Hi-Speed and water will start circulating within one to two minutes. (The pump is self-priming). If water does not circulate, turn off the power and make sure all gate valves are open if so equipped.
- Restart the pump. Within one to two minutes, it should be primed



Set thermostat, located on top side control panel, to desired temperature and continue heating until desired temperature has been reached. Depending on equipment, this will normally take 8 to 10 hours.



WARNING: Do not run spa with gate valves closed or run pump with no water circulating in spa for long periods. This could damage the spa equipment.



SSPA / One or Two-Pump System

I Pump System:



Press **Pump I (or Pumps)** to turn Pump I on at low speed. Press a second time to turn Pump I to high speed. Press a third time to turn Pump I off. A built-in timer turns the pump off after 20 minutes of high speed operation, or two hours of low speed operation, unless it has been manually deactivated.



The "Pump I" indicator lights up when Pump I is on at high speed. It flashes when Pump I is on at low

2 Pump System (without Blower):



Press Pump I to turn Pump I on low speed. Press a second time to turn Pump I to high speed. Press a third time to turn Pump I off. Press **Pump 2** to turn Pump 2 on high speed. Press a second time to turn Pump 2 off. A built-in timer turns the pump(s) off after 20 minutes of high speed operation, or two hours of low speed operation, unless it has been manually deactivated.



The "Pump 2" indicator lights up when Pump 2 is on.

2 Pump System (with Blower):



Press Pumps to turn Pump I on low speed. Press a second time to turn Pump I and Pump 2 on high speed. Press a third time to turn both pumps off. A built-in timer turns the pump(s) off after 20 minutes of high speed operation, or two hours of low speed operation, unless it has been manually deactivated.



The "Pump 2" indicator lights up when Pump 2 is on.

Press Blower to turn Blower on. Press a second time to turn Blower off.



the blower is on. The "Blower" icon lights up when

Setting water temperature:



Use **Up** or **Down** arrow keys to regulate water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

The "Set Point" indicator displays the desired temperature, NOT the current water temperature!

Water temperature can be adjusted by I° increments from 59 to 104°F (15 to 40°C).

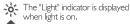


SSPA / One or Two-Pump System

Turning the light on:



Press **Light** to turn light on. Press a second time to turn light off. A built-in timer automatically turns light off after 2 hours, unless it has been manually deactivated.



Fiber Optics Option: If spa has optional fiber optics, press Light to turn fiber optics (motor and light) on. Press a second time to turn fiber optic motor off but leave light on. Press a third time to turn both motor and light off. A built-in timer turns fiber optics off after 2 hours, unless it has been manually deactivated. The "Light" icon is displayed when fiber optic light is on. It flashes when fiber optic motor and light are on at the same time.

Automatic water heater start:

When water temperature is 1 $^{\circ}$ F (0.5 $^{\circ}$ C) lower than the Set Point, the heater will automatically turn on until water temperature reaches Set Point plus 1 $^{\circ}$ F (0.5 $^{\circ}$ C).

The "Heater" indicator lights up when the heater is on. It flashes when there is a request for more heat but the heater has not yet started.

N.B.: If your system is configured in Low Current Mode, the heater will not start if a pump is on at high speed.

Economy mode:



Press **Econo** key to switch from Normal mode to Economy mode. In Economy mode, system maintains temperature at the desired Set Point during filter cycles only. Set Point is 20°F (11°C) below the Normal mode Set Point for the rest of the time. In Economy mode, the display will toggle between the current water temperature and the "Econ" message.

Temperature display unit:

Press and hold **Light** key for 5 seconds to display water temperature in either Fahrenheit (°F) or Celsius (°C). If a power-up occurs, system returns to default setting (°F).

PROGRAMMING FILTER CYCLE DURATION

The system automatically performs two filter cycles per day, at 12-hour intervals. During a filter cycle:

- Pump 2 and blower run for one minute, then
- · Pump I runs at low speed for the programmed number of hours

The "Filter Cycle" indicator lights up when the filter cycle is on.

To set filter cycle duration:



Press and hold Filter key until the display shows "xx", representing the currently set filter cycle duration in hours.

Use **Up** or **Down** arrow keys to change setting. 0 = no filtration

12 = continuous filtration

When the desired setting is displayed, press Filter key again to confirm. A filter cycle starts immediately.

4 An irregularly flashing "Filter Cycle" indicator means that the system has stopped filtering after 3 hours because water temperature exceeds Set Point by more than $2^{\circ}F(1^{\circ}C)$. If the temperature cools down to $1^{\circ}F(0.5^{\circ}C)$ above Set Point before the scheduled end of the cycle, filtering will resume for the remainder of the programmed cycle duration.

N.B.: After a power failure, the filter cycle duration will return to its default value (2 hours). In this case, the first filter cycle will start one minute after power has been restored.

TROUBLESHOOTING

· · · · · · · · · · · · · · · · · · ·	Pumps have started up for one minute on several occasions and "Filter Cycle" indicator is flashing.	Not a bug but a feature! Our Smart Winter Mode protects your spa from the cold by automatically turning pumps on for one minute several times a day to prevent water from freezing in pipes.
98	3 flashing dots are displayed.	A problem has been detected. Do not enter the water! Check and open water valves. Clean filter if necessary. Check water level. Add water if needed. Shut power off and power your spa up again to reset the system. Call your dealer or service supplier if problem persists.
112	Water temperature is flashing.	Water temperature in the spa has reached II2°F (44°C). Do not enter the water! Allow water to cool down. The system will reset automatically when water temperature reaches I09°F (43°C). Call your dealer or service supplier if problem persists.
	The display is flashing,	A power failure has occurred. Press any key to reset the system, then reprogram all desired parameters.



= MSPA / 2 or 3 Pump System =

Starting Pump I:

Press Pump I once to turn Pump I on at low speed. Press a second time to turn Pump I to high speed. Press a third time to turn Pump I off. A built-in timer turns the pump off after 20 minutes of high speed operation, or two hours of low speed operation, unless it has been manually deactivated.



The "Pump I" icon lights up when Pump I is on at high speed. It flashes when Pump I is on at low speed.

Starting Pump 2 (if installed):

Press Pump 2 once to turn Pump 2 on at low speed. Press a second time to turn Pump 2 to high speed. Press a third time to turn Pump 2 off. A built-in timer turns pump off after 20 minutes, unless it has been manually deactivated.



The "Pump 2" icon lights up when Pump 2 is on.

Starting Blower (if installed):

Press Blower once to turn Blower on at high speed. Press a second time to turn Blower to low speed. Press a third time to turn Blower off. A built-in timer turns pump off after 20 minutes, unless it has been manually



The "Blower" icon lights up when the blower is on.

Automatic water heater start:

When water temperature is I°F (0.5°C) lower than the Set Point, the heater will automatically turn on until water temperature reaches Set Point plus I °F (0.5°C).

The "Heater" icon lights up when the heater is on. It flashes when there is a request for more heat but the heater has not yet started.

Temperature display unit:

Press and hold Light key for 5 seconds to display water temperature in either Fahrenheit (°F) or Celsius (°C).

Turning the light on:

Press Light once to turn light on at high intensity. Press a second time to turn light to low intensity. Press a third time to turn light off. A built-in timer turns light off after 2 hours, unless it has been manually deactivated.



The "Light" icon is displayed when light is on at high intensity. It flashes when light is on at low intensity.

Fiber Optics Option: If spa has optional fiber optics, press **Light** to turns fiber optics (motor & light) on, Press a second time to turn fiber optic motor off but leave light on. Press a third time to turn both motor and light off. A built-in timer turns fiber optics off after 2 hours, unless it has been manually deactivated. The "Light" icon is displayed when fiber optic light is on. It flashes when fiber optic motor and light are on at the same time,

Setting water temperature:

Use Up or Down arrow key to regulate water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.



The "Set Point" symbol indicates the desired temperature, NOT the current water temperature!

Water temperature can be adjusted by 1° increments from 59 to $104^{\circ}F$ (15 to $40^{\circ}C$).

Time & temperature display:

The display toggles every 5 seconds alternately showing the hourly time and the current water temperature.



iii An irregularly flashing "litter Cycle" icon means that the system has stopped filtering after 3 hours because warer emperature exceeds Set Point by more than 2°F (1°C). If remperature cost down to 1°F (0.5°C) above Set Point before the scheduled end of the cycle, filtering will resume for the remainder of the programmed duration.

Troubleshooting



Pumps have started up for one minute on several occasions and "Filter Cycle" icon is flashing.

Not a bug but a feature!

Our Smart Winter Mode protects your system from the cold by automatically turning the pumps on for one minute several times a day to prevent water from freezing in pipes.

The display is flashing.

A power failure has occurred. Press any key to reset the system, then reprogram all desired parameters.



Water temperature is displayed.

Water temperature in the spa has reached 112°F (44°C).

Do not enter the water! Allow water to cool down. The system will reset automatically when water reaches 109°F (43°C).

Call your dealer or service supplier if problem persists.



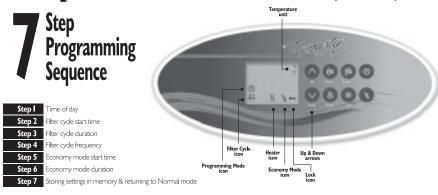
3 flashing dots are displayed.

A problem has been detected.

Do not enter the water! Check and open water valves. Clean filters if necessary. Check water level. Add water if needed.

Shut power off and power your spa up again to reset the system.

Call your dealer or service supplier if problem persists.



Step I- Time of day

II:43 om

Setting the time:



- I Enter Programming mode by holding **Prog.** key pressed down for 2 seconds.
- 2- The display will show the current setting.
 3- Use **Up** and **Down** arrows to change

Steps 2 & 3- Filter cycle start time & duration

setting.

The system automatically performs two filter cycles per day, at 12-hour intervals. During the filter cycle, Pumps I & 2 and the blower will run for one minute, then Pump 3 will run for one minute. Pump I will then run at low speed for a programmed number of hours. The "Filter Cycle" icon lights up when a filter cycle is on.

To program a filter cyde, you must enter: 1) the time you want the cyde to start and 2) the duration of the cyde. If no filtering is required, the duration should be set to "0". For continuous filtering, the filter cyde duration should be set to "12:00".

Setting filter cycle start time:



I - Press **Prog.** key a second time.

2- The display will show **FSxx**, with "xx" representing the starting hour.



 Use **Up** and **Down** arrows to change setting.

Setting filter cycle duration:

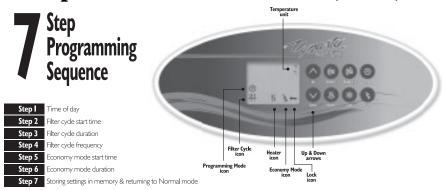


I - Press Prog. key a third time.

Fd04 2- The display will show Fdxx, with "xx" representing the duration in hours.



3- Use **Up** and **Down** arrows to change setting.



Step 4- Filter cycle frequency

Setting filter cycle frequency:

\odot		I- Press Prog. key a fourth time.
	FF06	2- The display will show FFxx , with "xx"
		representing the frequency per day.
$\langle \rangle \langle \rangle$	FFIO	3- Use Up and Down arrows to change setting.
		seturig.

Steps 5 & 6- Economy mode start time & duration*

Setting Economy mode start time:



- I Press **Prog.** key a fifth time.
- 2- The display will show **ESxx**, with "xx" representing the starting hour.



Use **Up** and **Down** arrows to change setting.

Setting Economy mode duration:



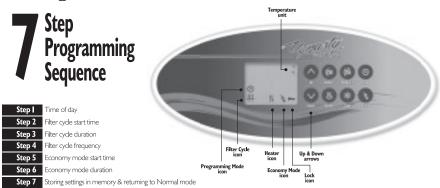
- I Press Prog. key a sixth time.
- 2- The display will show **Edxx**, with "xx" representing the duration in hours.



3- Use **Up** and **Down** arrows to change setting.

Step 7- Storing settings in memory

Press **Prog**. key a seventh time to store settings in the system's non-volatile memory and to return to Normal mode.



Digital control pad lockout

This function allows you to prevent unauthorized parameter setting of the unit. This feature is especially helpful when young children have access to the keypad.

There are two modes you can choose from: Full lock or Partial lock. Full lock means that all keypad functions are locked. Partial lock means that the basic functions of the spa will remain accessible (pumps, blower and light), but it will be impossible to change the temperature Set Point, to override the Economy mode or to enter the Programming mode.

When control pad is locked, the "Lock" icon will be displayed.

Locking your digital control pad:



I - Press and hold **Pump I** key for 5 seconds.

LocP

2- The display will show **LocP**, with "P" representing *Partial* lock.

message will then be displayed.

3- Release the key and the keypad will be in Partial lock mode. Keep key pressed down for 5 more seconds if you want to be in Full lock mode. The "LocF"

When control pad is locked, all automatic functions of the system run as usual. If a key is pressed down, a "LocP" or "LocP" message will be displayed for I second. To unlock the keypad, simply press and hold **Pump** I key again for 5 seconds.

Economy mode

Press **Econo** key to switch from Normal mode to Economy mode. To save energy, the Economy mode Set Point is 20° F (11° C) below the Normal mode Set Point.

The "Economy Mode" icon lights up when Economy mode is on.

There are 3 available Economy operating modes: noEc: No Economy mode

Ec I: Economy mode on during a programmed

number of hours (see Steps 5 & δ^*) Ec 2: Economy mode always on

Selecting the desired Economy mode:



- I Press and hold **Econo** key for more than 2 seconds.
- noEc 2- The display will show the current mode (noEc, Ec I or Ec 2).
 - 3- Keep key pressed down until the desired mode is displayed.

After 5 seconds, the new setting will be programmed.

Inverted display

Press and hold **Pump 2** for 5 seconds to invert the display. Note that the "F or "C icon is not displayed in reverse mode. Follow the same procedure to return to default mode. If a power-up occurs, the display always returns to default mode.

Summary of control panel parameters

F5xx Filter cycle start time **Fdxx** Filter cycle duration

FFxx Filter cycle frequency
ESxx Economy mode start time

Edxx Economy mode duration
Tu X Temperature unit

LocX Control pad lockout



Air Controls & Diverter Valve Controls

Mini Diverter Valve

This valve will allow the water flow control of neck and shoulder jets located in the trilogy / ultrassage seats. A simple turn will increase to the maximum output allowed. Another turn in the opposite direction will decrease / turn off the neck and shoulder jets. Each individual jet is also independently adjustable.



Air Controls

Each spa is equipped with air controls (venturies). The purpose of these controls is to regulate the mixture of air and water that flows through the jets. If the optional blower is installed, air is also pushed through the air controls (venturies) for maximum output. If your spa has a master massage jet located in the foot well, the spa will be equipped with an air control specifically for the master massage jet. The third control operates the same as the other two.

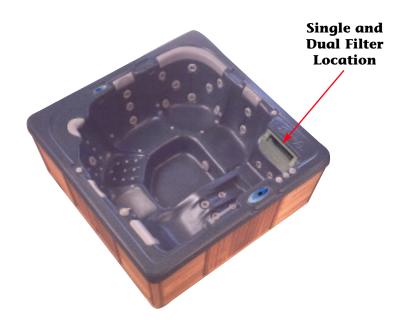


Diverter Valve

This valve controls the output of the pump to either side of the spa, or it may operate all jets if left in the middle position. The purpose of this valve is to increase or decrease the output of one side or another for maximum or minimum water flow in case of one or two person usage. This valve is also used to turn the master massage jet on and off.



Filter Location





Filter Maintenance

Filtration starts as soon as flow is steady through the filter. The filter cartridge removes the dirt from the spa water, as the accumulated dirt causes flow resistance. A dirty cartridge will decrease flow and may prevent the spa from heating properly. Therefore, regular filter cleaning is important.

Cleaning and Replacing Filter Cartridge

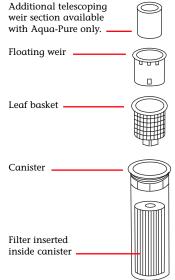
Your Dynasty Spa filter has been designed for quick and easy maintenance. Depending on model, your Dynasty Spa will have one of the two following styles of filtration systems.

Open Style

- Turn off power at the breaker.
- Remove basket from filter canister, remove filter cartridge and clean with a garden hose equipped with a high pressure nozzle, or soak in filter cartridge cleaner if necessary or at every other regularly scheduled cleaning. Rinse filter thoroughly before installing.
- Place clean cartridge in filter canister
- Replace basket weir in filter canister.

Enclosed Style

- Turn off power at the breaker.
- Open filter door and expose filter cartridge(s) by pulling door toward center of spa until door opens all of the way out.
- Unscrew filter cartridge(s) and remove.
- Clean with a garden hose equipped with a high pressure nozzle, or soak in filter cartridge cleaner if necessary, or at every other regularly scheduled cleaning. Rinse filter thoroughly before installing.
- Screw clean cartridge back into filter enclosure and return filter door to original position





Keeping Your Spa Water Clean & Fresh

Cleaning Your Spa Water

You need to keep your spa clean and ready to use. When you enter your spa, you bring in as much contamination as 50 people would in a normal size swimming pool! Because your spa is such a small, enclosed environment, it needs to be a sanitary place. We accomplish this with a simple three step process:

- 1) Balance
- 2) Filtration
- 3) Sanitation

The water that comes from your tap at home is fine for showers or bathing, because it is drained immediately after use. In a spa, your water is used for up to three months. Hot water is a breeding ground for bacteria, so sanitizing becomes necessary, as well as maintaining a specific mineral balance. Having that mineral balance in place ensures that the water, which is naturally corrosive to metal, will not cause damage to the spa equipment. We recommend monthly water testing.



WARNING: Maintain water chemistry in accordance with manufacturer's instructions.

WARNING: Please be careful with chemicals - damage to the surface of the spa can occur due to the improper use of chemicals such as trichlor or chlorine, chemical tablets, acids or spa cleaners.

Do not let undissolved chemicals lie on the surface of the spa. This could invalidate your warranty. Improper water chemistry balance can damage the spa and invalidate your warranty.

Filling Spa With Water

When filling the spa, use 2 ounces of SODIUM BROMIDE to create a bromide reserve. When using BROMINATING TABLETS, 2 ounces will treat up to 500 gallons of water. For chlorine system, use CHLORINATING GRANULES (1/2 oz. per 500 gallons).

Keeping Your Spa Water Clean & Fresh

Once the spa has been filled to the correct level and pumps are primed and running add:

- 1) STAIN & SCALE REMOVER- This prevents staining, rust and corrosion, caused by metals in the source water. One bottle will treat up to 500 gallons for up to 3 months.
- 2) PROTECT PLUS This prevents a calcium build up. Use 2 oz. on a weekly basis.
- 3) CALCIUM BOOSTER (If Needed) Calcium booster treats the water if low calcium hardness is a problem in your area. It will help prevent equipment corrosion and foaming by raising the spa's water hardness level to an acceptable range of 120 ppm.
- 4) pH STABILIZER It will properly adjust and hold the pH for up to 3 months

Water Testing

Your Dynasty dealer is equipped to perform a thorough analysis of your spa water. Take a one liter sample to the store and they will advise you on the products necessary to properly balance and care for your spa. Unbalanced spa water can quickly damage your equipment. Your Dynasty dealer will advise you on how to protect your investment.

Balance

Spa water must have the correct chemical balance. Unbalanced water can irritate eyes, corrode the equipment, leave mineral deposits, and decrease the effectiveness of the sanitizer.

Balanced water means establishing proper balance among Total Alkalinity, pH, Calcium Hardness and Total dissolved solids.

Keeping Your Spa Water Clean & Fresh (An Overview)

Monthly - For Equipment Protection

CALCIUM BOOSTER (If Needed) - Calcium booster treats the water if low calcium hardness is a problem in your area. It will help prevent equipment corrosion and foaming by raising the spa's water hardness level to an acceptable range of 120 ppm.

Filter Cleaning

To keep your filter free of grease, grime, and oil. Clean the filter with SPA CARTRIDGE FILTER CLEAN. One 16 oz. bottle treats a 55 square foot filter. See Filter Maintenance section for location and diagram.

As Needed

Surface Cleaning

Between refills and as needed, clean the surface using SPA MULTI-PURPOSE CLEANER. For tough scale & stains, use STAIN & SCALE REMOVER.

Surface Protection

To protect and seal the spa surface, use SPA FAST GLOSS every time you drain and clean the spa.

Water Balance

Adjust the pH quickly and easily with pH STABILIZER. It will properly adjust and hold the pH for up to 3 months. Note: Not recommended for calcium hardness levels above 200 ppm. Use SPA UP to raise pH and SPA DOWN to lower pH.

Sanitizing

Use 2 ounces of SODIUM BROMIDE to create a bromide reserve. When using BROMINATING TABLETS, 2 ounces will treat up to 500 gallons of water. For chlorine system, use CHLORINATING GRANULES (1/2 oz. per 500 gallons).

Keeping Your Spa Water Clean & Fresh

Mineral Protection

STAIN & SCALE REMOVER - This prevents staining, rust and corrosion, caused by metals in the source water. One bottle will treat up to 500 gallons for up to 3 months.

Foam Control

To control foaming, use SPA FOAM DOWN. For added convenience, use just 3 drops of SPA FOAM DOWN CONCENTRATE.

Aromatic Control

To make your spa even more relaxing and enjoyable, add ESSCENTS fragrance to it as often as you desire. With 8 exotic scents to choose from, you'll be sure to discover one that sets the perfect mood for you.

Skin Conditioning

To prevent dry skin, pour SKIN SOFTENER directly into the spa. It smoothes and moisturizes.

Algae Control

For spas with green or yellow algae, use SPA ALGAECIDE to kill and prevent further algae growth.



Do not leave your water treatment products outside. If they are subjected to extreme heat or cold, their effectiveness can be impaired making them unusable. Always keep these and other chemicals OUT OF THE REACH OF CHILDREN.

Draining Your Spa

Because your spa holds a relatively small amount of water, contaminants such as body oil, perspiration, dirt, hair, etc., may become quite concentrated. For this reason, the water should be drained and replaced every three months depending on use.

- Turn off power at the breaker.
- Hook up a garden hose to the hose bib located on the exterior corner of the cabinet. With hose still attached to bib, turn counter-clockwise one half turn and then pull out for water to drain completely.
- When water begins to drain out of the hose, be sure to drain the water to a convenient place.

After draining is completed, turn the hose bib off and remove the hose. Wipe down the inside of your spa making sure your surface is dry and free from standing water. We recommend that after draining or cleaning your spa that you put the cover back on. Avoid extended direct sunlight exposure on the acrylic surface. Extended exposure can cause surface fading or cracking, which could void your warranty.





Note: Be sure that hose is on a downward grade to properly drain spa.

Winterizing Your Spa



In areas of the country where the temperatures drops below 32° F, it is important to follow these directions:

When winterizing the spa, we recommend putting RV Antifreeze in the spa and running it before draining the spa.

- 1) If the spa is not going to be used, drain completely. Be sure all water is removed. Break or loosen unions at each end of pump to ensure water from pump area is removed.
- 2) Do not turn unit off with water in the spa. Frozen water may rupture plumbing, and will not be covered under warranty.
- 3) Remove and clean filter cartridge. Store cartridge in a secure place to prevent freezing.

If the spa is going to be used, maintain normal operating procedures and ensure cover is when possible.

Freeze ups or damage caused by freezing are not covered under warranty



Maintaining Your Spa Cover

Proper Maintenance For Your Dynasty Spa Cover

- Use a soft broom to remove accumulation after every snowfall or ice storm.
- 2) Splash cool tap water on the hardware to free them if they become frozen shut. WD- 40^{TM} will keep the lock free, but apply carefully because it can damage the cabinet finish.
- 3) We recommend a good treatment with Vinyl Conditioner before the first snow or ice. If possible, treat during the winter too.
- 4) Monitor your water chemistry. Even it the spa is not used regularly, improper water chemistry can cause a mildew buildup on the cover. Clean, PH controlled water will prolong the life of the cover.
- 5) If mildew is found, remove foam cores from the vinyl encasement. Mix water, a teaspoon of mild dish washing soap and a cup of bleach. With a soft bristle brush, scrub the inside and outside of the vinyl encasement thoroughly. Then take a washcloth and wipe down each foam core, rinse thoroughly. Place the encasement in the sun and foam cores in the shade to dry. Once everything is thoroughly dry, spray the cores and encasement with a mildew inhibitor (like Pine Sol). Allow to dry completely, then reassemble. The key here of course is to maintain proper water chemistry to avoid mildew.
- 6) We suggest rotating the cover every six months to maintain even wear. Unzip the cover, remove the foam cores, turn over and reassemble.

Ask Your Dealer About Using A Cover Caddy

PROTECT YOUR COVER!

Trouble Shooting Guide

No heat or heat too	low
Probable Cause #1	Dirty Filter.
Action	Clean Filter / Pull Filter and try running
	without filter.
Probable Cause #2	
Action	Reset breaker at house. Breaker can appear to be on and one pole can be off. Turn breaker OFF then ON twice.
Probable Cause #3	Pump not primed.
Action	Refer to the section of this manual on pump priming.
Probable Cause #4	
Action	Have a Licensed Electrician check the line
	voltage.
Spa Lights won't con	
Probable Cause #1	
	Replace bulb (non-warranty).
Probable Cause #2	
Action	Check to see if there is anything covering the
	connection on the housing that holds the light bulb.
D	
Pump will not prime Probable Cause #1	
	Make sure water level in spa is correct. Bleed
Action	top air bleed on face of pump till water flows out.
Probable Cause #2	Closed gate valves or blocked lines.
Action	Open all gate valves. Check suction for blockage.
Probable Cause #3	Pump surges, jets lose and gain power, loose union or drain plug.
	Check union on front or nose of pump to ensure tightness. Check drain plugs to ensure tightness.
Probable Cause #4	
	Bleed off air at air relief valve on pump.
Jets won't come on	
Probable Cause #1	
	Refer to the section of this manual on pump priming.
Probable Cause #2	
Action	Check to see if gate valves are in the correct position. Check to see that pump is plugged in.

Trouble Shooting Guide (cont.)

LOW	water	flow
LUW	water	HOW

Probable Cause #1	.Dirty Filter.	
Action	.Remove filter cartridge and clean.	

Probable Cause #2Closed gate valves or blocked lines.

ActionOpen all gate valves.

Probable Cause #3Low voltage or incorrect voltage.

ActionHave a Licensed Electrician check the line voltage.

Spa is leaking

Probable Cause #1Loose connection.

ActionHand tighten all disconnects and fittings. Check

joints and unions.

Motor does not run

Probable Cause #1No power to motor.

ActionCheck power switches and circuit breakers.

Check motor plug where plugged into control

panel.

Probable Cause #2Pump jammed from foreign matter in impeller.

ActionCall dealer for recommended action.

Probable Cause #3Motor overheats during hot days while filtering.

ActionReprogram your controls to cycle during the coolest parts of the day and on shorter cycles.

(see programming instructions).

Motor runs hot

Probable Cause #1Pump ran dry.

ActionCall dealer for recommended action.

Probable Cause #2Restricted suction lines.

ActionMake sure all valves are open/clear suction of

debris.



Note: These motors will feel hot to the touch. This is normal. The Overheat Sensor will turn the motor off if there is an overload or high temperature problem.

Glossary of Terms

Air Blower	The air blower supplies air to the jets creating a hydro massage action.
Air Loop	.A back up system for the check valve, prevents water from entering air blower.
Air Control or Venturi	.Mounted on the lip of the spa or at the equipment shroud, to induce air to the jets.
Cabinet	.The redwood or Dynalast foam that surrounds the spa, also called a skirt.
Check Valve	.Prevents back flow of water through system.
Control Panel	.Mounted on the lip of the spa. The digital panel that controls the spas functions.
Control Box	Basically the brain of the spa. Power is distributed to all functions of the spa, pumps, ozonator, heater, fiber optics, etc.
Drain	.The fitting set into the footwell that drains water from the spa.
Filter	.The filter cleans the spa and removes particles and debris and protects the equipment from foreign substances.
Footwell	.The bottom of a spa where you place your feet. Dynasty is known for it's larger footwells and comfortable seating.
G.F.C.I. Breaker	.The electronic switch installed in the power box of your house to give power to the spa. This is a non-user serviceable part.
Gate Valves	.T-handled valves located at the inlets and outlets of the equipment. The gate valve blocks or opens the water line by the equipment.
Heater	.The thermostatically controlled heater raises the temperature of the water to the desired degree. This is located under the control box in the equipment area.

Glossary of Terms (cont.)

Hose Bib	Used in the draining of the spa, fits a standard garden hose.
Jets	The fittings on your spa that direct the flow of water for massaging action.
Ozone	A water purification supplement method using Ozone gas. Ozone gas, made by an Ozone Generator unit, can reduce your sanitizer needs by up to 25%.
рН	Stands for "Potential for Hydrogen" This is the term used to describe the acid (low pH) or alkaline (high pH) condition of the water. The ideal pH for spa water is 7.5.
Skimmer	The skimmer removes surface debris, allowing debris to be caught in the filter. The water level in the spa should be kept at 2" above the skimmer for optimum operation.

Notes

Notes

Model	# Jets	Dimensions	Gal.	Persons	Dry Weight	Filled Weight
Baron	9, 21	60"x82"x30"	225	3	525	2625
Camelot	37	82"x82"x36"	320	6	320	3175
Gallant	25, 29	78"x92"x33"	325	6	325	3250
Lancelot	30	82"x82"x36"	320	6	320	3175
Luxor	25	78"x82"x30"	275	6	275	2795
Monarch	44	92"x92"x36"	425	6	425	4100
Princess	25	82"x82"x36"	320	6	320	3175
Renaissance	40	92"x92"x36"	425	6	425	4105
Windsor	41	82"x82"x36"	350	6	350	3410















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