



# Smarttub<sup>TM</sup>

170-2

**OWNER'S MANUAL**

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## IMPORTANT SAFETY INSTRUCTIONS

This manual contains important safety instructions and we strongly encourage you to read and follow them. Please read the information completely and thoroughly.

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

1. **WARNING** – Risk of child drowning. Extreme caution must be exercised to prevent unauthorized access by children. Lock the cover and place the keys in a safe location when the spa is not in use.
2. **DO NOT PERMIT CHILDREN TO USE THIS PRODUCT UNLESS THEY ARE CLOSELY SUPERVISED AT ALL TIMES.**
3. **DANGER - RISK OF ELECTRICAL SHOCK.** Install tub at least 5 feet (1.5 m) from all metal surfaces. Do not permit any electrical appliance(s) such as a light, telephone, radio or television within 5 feet of this spa.
4. A spa may be installed within 5 feet of metal surfaces if each metal surface is permanently connected by a minimum of #8 (AWG 8.4 mm) solid copper conductor attached to the wire connector on the pump motor. A pressure wire connector is provided on the pump motor unit to permit connection of this solid copper-bonding conductor. Connecting wire must be between this point (pump motor) and any metal equipment, metal enclosures or electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit as needed to comply with local requirements.
5. Connect power cord to a grounded, grounding type receptacle only.
6. This appliance is provided with a ground-fault circuit interrupter (GFCI) located at the end of the power cord. Before each use, with the plug connected to the power supply and with the unit operating, push the test button (see page 9). The unit should stop operating and the reset button should pop out slightly. Push the reset button. The unit should now operate normally. If the interrupter fails to operate in this manner, there is a ground current flowing, indicating the possibility of an electrical shock. Disconnect the plug from the receptacle until the fault has been identified and corrected.
7. **To reduce the risk of injury:**
  - A. The water in a spa or hot tub should never exceed 40°C (104°F). Water temperatures between 38°C (100°F) and 40°C (104°F) are considered safe for a healthy adult. Lower water temperatures are recommended for extended use (exceeding 10 - 15 minutes) and for young children.
  - B. Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant

women should limit spa or hot water temperatures to 38°C (100°F).

C. **CAUTION** Before entering a spa or hot tub, the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature-regulating devices may vary as much as +/-3°C (5°F).

D. **WARNING!!** The use of alcohol, drugs or medication before or during spa/hot tub use can greatly increase the risk of fatal hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.60° F. The symptoms of hypothermia include; an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hypothermia include; (1) failure to perceive heat, (2) failure to recognize the need to exit spa or hot tub, (3) unawareness of impending hazard, (4) fetal damage in pregnant women, (5) physical inability to exit spa or hot tub, and (6) unconsciousness resulting in the danger of drowning.

E. 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 or hot tub.

F. Persons using medication should consult a physician before using a hot tub since some medication may affect heart rate, blood pressure, and circulation.

8. Always operate spa with a sufficient water level. Water should be a minimum of 2” above all filters, intakes and jets. Insufficient water can cause pump failure.
9. Maintain proper water pH (7.4 – 7.6). Failure to do so may cause damage to vinyl liner and pump seal.
10. **WARNING** - To reduce the risk of electrical shock, replace any damaged cord immediately.
11. **DO NOT BURY CORD.**
12. Always operate the spa with the cord mounted GFCI in place and functional. Failure to do so could result in a shock hazard. **DO NOT USE EXTENSION CORDS!**
13. **DANGER** - To reduce the risk of injury, do not remove suction (intake) fittings.
14. **SAVE THESE INSTRUCTIONS**

**WARNING LABEL LOCATIONS**

The labels shown below have been affixed on all new Smartub 170-2's. If the label is missing or unreadable please call our customer service department at 1-888-901-SMART to obtain replacement labels.

 <h2 style="margin: 0;">WARNING</h2> <p><b>TO REDUCE THE RISK OF INJURY, DROWNING OR ELECTROCUTION:</b></p> <ul style="list-style-type: none"> <li>• READ USERS MANUAL BEFORE USING THIS SPA</li> <li>• INSPECT REGULARLY AND REPLACE ANY WORN PARTS IMMEDIATELY</li> <li>• SUPERVISE CHILDREN AT ALL TIMES</li> <li>• REATTACH THE SPA COVER AFTER EACH USE</li> <li>• SPA HEAT MAY CAUSE HYPERTHERMIA AND UNCONSCIOUSNESS</li> <li>• IF USING ALCOHOL, DRUGS OR MEDICATION, SPA HEAT MAY CAUSE UNCONSCIOUSNESS</li> <li>• KEEP ALL ELECTRICAL APPLIANCES AT LEAST 5 FEET AWAY FROM SPA</li> </ul>	 <h2 style="margin: 0;">WARNING</h2> <p><b>RISK OF ELECTRICAL SHOCK</b></p>  <ul style="list-style-type: none"> <li>• DISCONNECT POWER CORD BEFORE ACCESSING THIS AREA</li> </ul>
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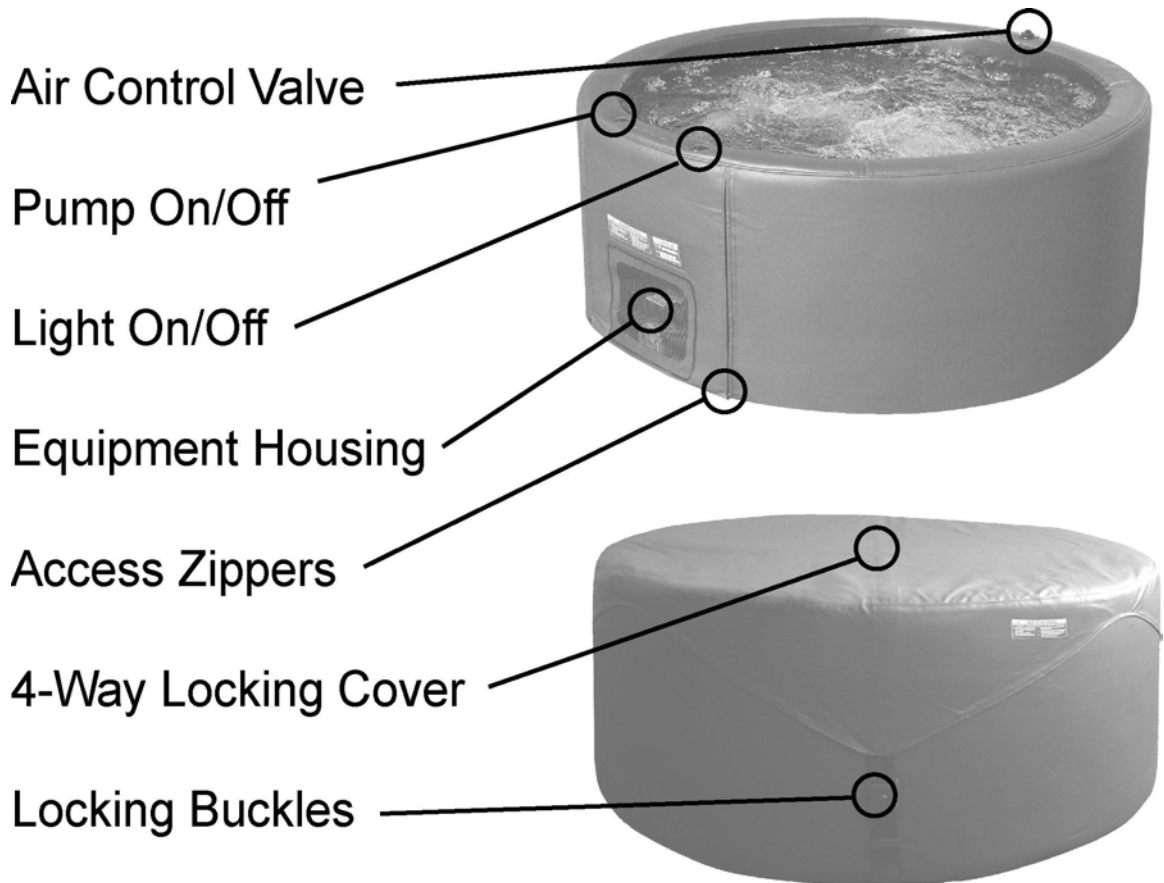
 <h2 style="margin: 0;">WARNING</h2> <p><b>AVOID DROWNING RISK</b></p> <ul style="list-style-type: none"> <li>• NON-SECURED OR IMPROPERLY SECURED COVERS ARE A HAZARD</li> <li>• FAILURE TO FOLLOW INSTRUCTIONS MAY RESULT IN INJURY OR DROWNING</li> <li>• THIS IS NOT A SAFETY COVER</li> <li>• STAY OFF COVER, WILL NOT SUPPORT WEIGHT</li> <li>• KEEP CHILDREN AWAY. CHILDREN OR OBJECTS CAN NOT BE SEEN UNDER COVER</li> <li>• REMOVE STANDING WATER- CHILD CAN DROWN ON TOP OF COVER</li> <li>• REMOVE COVER COMPLETELY BEFORE ENTRY OF BATHERS- ENTRAPMENT POSSIBLE</li> </ul>
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**BEFORE YOU BEGIN**

Thank you for your purchase of the Smartub 170-2. The 170-2 offers the quality and features of more expensive spas at a very economical price. Even more attractive than the price is how Smartub has taken portability to a new level with its fully self contained 170-2. The 170-2 requires absolutely no assembly and weighs less than 90 pounds. Just roll your Smartub into place, fill it and plug it in. You can enjoy the warmth and comfort of hydrotherapy just about anywhere; inside, outside, ... you decide!

**Please read this manual thoroughly and carefully prior to using your Smartub 170-2.** If you have additional questions regarding your Smartub feel free to visit our website at [www.smartub.com](http://www.smartub.com) or contact your local authorized Smartub Dealership. If you still have questions or comments, contact the customer service center at 888-901-SMART. Please have your serial # available when you call, it can be found inside the equipment housing on one of the vertical walls. Please make note of the following major components of your Smartub 170-2 before reading on.



## MOVING YOUR SMARTUB

### Vehicles

Care should be taken whenever transporting your spa. Strap Smartub securely into the vehicle. Use a tarp or cargo net or padding to spread out the tension of the tie-downs and protect the exterior vinyl. Tension must be enough to prevent the spa from floating out of the vehicle but not so much as to cause a permanent crease in the vinyl or tub body.

### Hand moving

Whenever possible, you should move your Smartub by carrying it and not allowing it to come in contact with the ground. If needed, your Smartub has the ability to be rolled into position over a short distance. Never roll your tub over a surface that could damage or scratch the exterior vinyl or buckles such as asphalt, concrete, dirt, etc. Always ensure the cover is on and locked and the entire tub is protected by an additional layer of material to prevent damage.

## CHOOSING A LOCATION

In order to help facilitate the proper placement of your Smartub 170-2 we have listed some of the more important factors you need to consider before filling your new spa. The Smartub 170-2 is only portable when empty, do not try to move it even after only 1 inch of water has been added. Water weighs approximately 8 pounds per gallon and there are approximately 8 gallons per cubic foot. Adding two inches of water to your Smartub will give it a total weight of almost 300 pounds and when your tub is full it will weigh over 1500 pounds. Choosing the right location before you fill your spa will save time and conserve water.

### Indoor Locations

1. Check all your local building codes concerning the use of indoor spas.
2. The Smartub 170-2 will increase the level of humidity in your home. The location you choose should be well ventilated. You may need to install a ventilation fan or use a dehumidifier.
3. The location must be close to an electrical outlet. **Do not use an extension cord.**
4. The Smartub 170-2 should be relatively close to a source of water.
5. Do not use the Smartub 170-2 on carpet or other material that may be damaged by moisture or chemicals. We recommend that you place the Smartub 170-2 on a water- and stain-resistant, non-slip surface with a floor drain for any water that may splash from the Smartub 170-2.
6. Be sure that the location you choose is **STABLE** and **LEVEL**. It must be able to support the weight of the spa when it is filled with water, plus the weight of the occupants. The Smartub 170-2 weighs approximately 1500 pounds when filled with water and occupies around 20 square feet.
7. Do not use the Smartub 170-2 above a finished living area, due to the risk of water damage.
8. Be sure that there is room around the spa to permit servicing of the unit. The diameter of the tub is 60”.

9. Follow all the safety precautions outlined in this manual.

**Outdoor locations:**

1. Check all your local building codes concerning the use of outdoor spas.
2. The location must be close to an electrical outlet. Do not use an extension cord.
3. The Smartub 170-2 should be relatively close to a source of water.
4. Do not use the Smartub 170-2 on decking or other material that may be damaged by moisture or chemicals. We recommend that you place the Smartub 170-2 on a water- and stain-resistant, non-slip surface.
5. Be sure that the location you choose is STABLE and LEVEL. It must be able to support the weight of the spa when it is filled with water, plus the weight of the occupants. The Smartub 170-2 weighs approximately 1500 pounds when filled with water and occupies around 20 square feet.
6. Be sure that there is room around the spa to permit servicing of the unit. The diameter of the tub is 60”.
7. Consider environmental factors, such as rain, wind, shade, sunlight, and so forth.
8. You should be able to monitor the use of the Smartub 170-2 from your home, to prevent unauthorized use by children.
9. Follow all the safety precautions outlined in this manual.



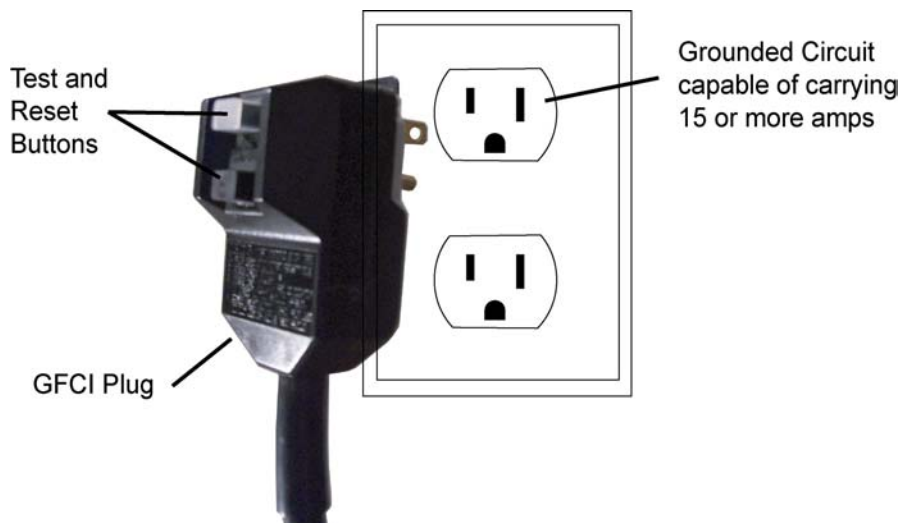
## SETTING UP YOUR SMARTUB 170-2

### FILLING

1. Roll your Smartub 170-2 into place. Always make sure the locking cover is properly installed when moving your Smartub 170-2; this will ensure proper placement of the buckles and straps prior to filling.
2. Rotate and align the Smartub 170-2 so the equipment housing (see page 6) is located in the best position for access, aesthetics, and safety.
3. Unlock and remove the cover. **Do not move your Smartub 170-2 if the cover is not completely buckled and in place.**
4. Begin to fill. Put about 1 inch of water in the tub (warm is best) and STOP FILLING. Using your hands, remove all wrinkles from the bottom of the liner. Work towards the edges, keeping the liner centered. Add more water until the lounge seat bottom is covered by 1 inch of water and remove wrinkles from seat.
5. Continue filling your Smartub 170-2 until the water level is approximately 4 inches from the top rim.

### PLUGGING IN THE SMARTUB 170-2

Once the Smartub 170-2 is filled with enough water the power cord can be plugged in and the spa controller unit will be turned on. Note: The first time the power cord is plugged in, the controller unit will turn on automatically. When connecting the power cord, plug the power cord directly into a grounded circuit capable of carrying 15 or more amps. No other appliance should be on the same circuit. Replace the power cord immediately if it becomes damaged. The power cord is equipped with a Ground Fault Circuit Interrupter (GFCI), located at the end of the power cord. You should always test the GFCI before using your Smartub 170-2. The GFCI will need to be tested and reset in order to operate for the first time. Simply push the Reset (top) button on the end of the cord after it is plugged in.



## OPERATING THE SMARTUB 170-2

### ADJUSTING TEMPERATURE SETTINGS

Adjust your thermostat (found on the control unit inside equipment housing) to the desired position. Rotate thermostat dial clockwise to the 3 o'clock position for maximum temperature, 104° F or turn the knob counter-clockwise to the 6 o'clock position for a temperature range down to 70° F. The pump will come on automatically and determine if heat is needed to achieve the desired temperature. After a couple of minutes the motor will shut off if the tub is at temperature or continue to run until the necessary temperature is achieved. **The Smartub 170-2 will heat at 3-4 degrees per hour ONLY when the cover is secured and the Air Control Valve is closed.**

**IMPORTANT: ALWAYS CHECK THE WATER TEMPERATURE WITH A MEDICAL OR OTHER RELIABLE AND ACCURATE THERMOMETER PRIOR TO USE.**

Power to Pump

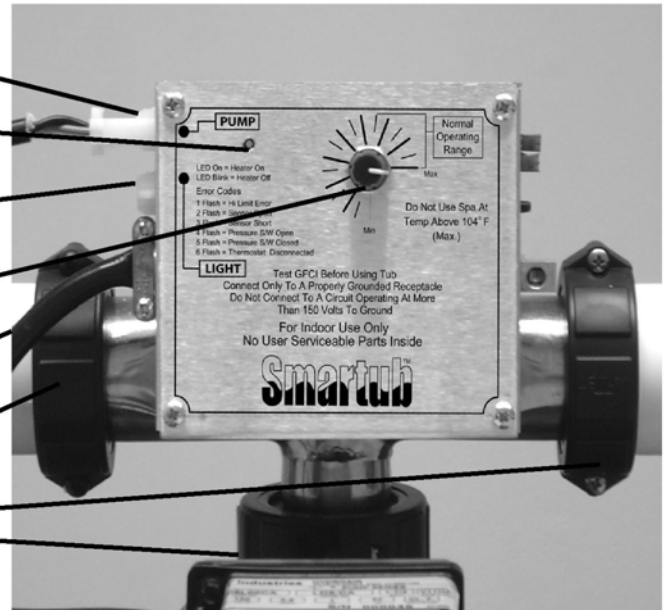
Status Light (LED)

Power to Spa Light

Thermostat Dial

GFCI Power Cord

Union Nuts



## HEATER / CONTROLLER UNIT FUNCTIONS

Your Smartub 170-2 is equipped with a 1000-Watt heater and 1.25 EQPP pump and motor system. The functions of this heater and motor are controlled by an internal computer that maintains and regulates the temperature, runs preprogrammed filtration cycles and circulates for freeze protection when needed.

1. When you first plug in your Smartub 170-2 it will begin the 24-hour cycle. You may want to plug in your Smartub 170-2 at a convenient time for the cycle to begin its daily routine.
2. Every six hours the pump will run for ½ hour to filter the water.
3. If the temperature in the equipment housing drops below 60° F the pump will cycle long enough to bring the temperature up in order to prevent freezing.
4. If the tub is at the desired temperature and you would like to enjoy the hydrotherapeutic jets, just press the “PUMP” button on the topside ring and the spa will run for ten minutes as an override function.
5. If the Smartub 170-2 is lower than the desired temperature you cannot turn the pump off by simply depressing the “PUMP” button. When the temperature in the spa drops below your selected temperature the pump will not shut off until the selected temperature is reached again.
6. **IMPORTANT: Your Smartub 170-2 needs to have the “AIR CONTROL” (see page 5) knob completely closed and the insulated cover installed correctly to heat properly.**

## LOCKING COVER

Your Smartub 170-2 is equipped with a locking cover as an added safety feature. The spa cover can be secured by pulling the four corners with attached buckles down toward the plastic latches on the bottom of the tub body. Secure the latches into the buckles and lock with the provided keys. Always check the buckles after locking to ensure they are properly locked. Keep the spa cover installed and locked when not in use. Keep the keys in a safe place, out of the reach of children.

Some models of Smartub covers have an optional inflation valve on the underside of the cover. If needed you can inflate the cover for additional thermal value or to better shed snow and rain.

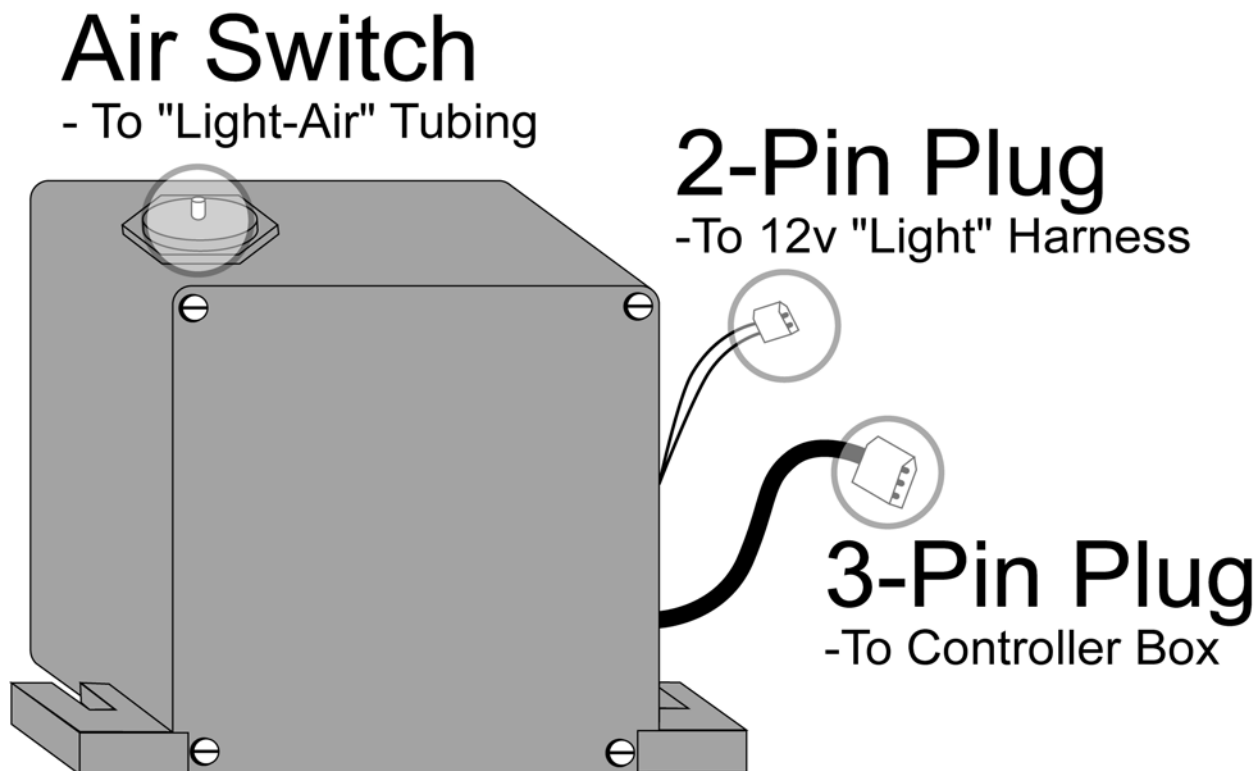
## HYDROTHERAPY JETS

Once your spa has reached the desired temperature it is ready for use. To operate the jets press the “Pump” button (if the pump is not running) and adjust the air control valve on the opposite side of the tub. To increase air flow to the jets simply turn the valve counter-clockwise to the desired intensity. If your spa is at maximum temperature the pump may run a ten-minute cycle then shut off. If this happens just depress the button again for another ten-minute bypass. If the temperature in the spa drops below your selected temperature the pump will not shut off until temperature is reached again. Remember to always close the air control valve when you have finished using your spa.

## LIGHT

As an option, the Smartub 170-2 has an available light kit. Every Smartub 170-2 comes light kit ready with the button, lens, wiring and bulb already installed. To install the light kit, first insure your Smartub is unplugged by removing the GFCI from the wall outlet.

1. Open the equipment housing enclosure zippers to access the housing.
2. Locate the 12v light wire. It should be tagged "light" and have a 2-pin harness.
3. Attach the 2-pin harness from the spa to the 2-pin plug on the transformer.
4. Place black transformer box over the two threaded studs on the left side of the housing, tighten down included washers and nuts to hold transformer in place.
5. Attach the air hose in the equipment housing labeled "light-air" to the transformer air switch receiver.
6. Attach the 3-pin harness on the transformer to the 3-pin receiver on the control box



## MAINTENANCE

### 1. Vinyl Care

Properly used and maintained the Smartub's Leather-Plus™ and interior vinyl will last for many years to come. The primary cause of vinyl failure is the improper care or maintenance of water chemistry. A regular program of water treatment is essential.

**The inner liner material** is constructed of a non-supported PVC.

#### **Cleaning**

You should empty the spa and refill with clean water every 2 months, or whenever the water becomes cloudy and proper water chemistry does not clear it up. While the spa is empty, use a mild soap solution to wipe away any soil or stains on the inner liner. Rinse thoroughly with clean water, soaps and water sanitizers can possibly react. **NEVER** use steel wool, bristle brushes, brillo type pads or abrasive cleaners such as Comet or Soft Scrub.

#### **Repair**

The vinyl can be repaired using standard vinyl repair techniques. Samples of the interior or exterior vinyl can be obtained through your dealer.

**The exterior material is made of a marine grade vinyl called Leather-Plus™ that is UV stabilized and resists fading, mold and mildew.**

#### **Cleaning**

Use a mild soap and water solution to wash the exterior vinyl, and then rinse with clean water. You may also use a vinyl protectant, such as 303 Vinyl Cleaner, for periodic cleaning. Do not use abrasive soaps or any solvents on the exterior vinyl; you may void your warranty.

#### **Repair**

The vinyl can be repaired using standard vinyl repair techniques. Samples of the interior or exterior vinyl can be obtained through your dealer.

### 2. Draining/Changing the water

As just mentioned, we recommend that you empty, clean and refill your Smartub at least once every 2 months, depending on use. Always unplug the GFCI Cord prior to draining the spa. The spa is easily drained by siphon or submersible pump. Allow the water to drain until completely empty. After the water has been drained from the spa, bail all remaining water from the body of the spa. Do not lift the spa if it contains more than 1/4 inch of water. To drain the plumbing and pump, after all water has been removed from tub floor, lift your Smartub into a horizontal position with the equipment cavity positioned on the top. Bail with sponge and bucket or dump water if outside. Roll the tub for one full revolution to drain all plumbing. When refilling the spa, be sure to use a different hose than the one used to drain the spa; reusing the same hose can transfer bacteria or algae into the clean spa water.

Do not store an empty spa in direct sunlight, as any dampness in the system may be likely to cause mildew. Additional care must be taken in freezing climates as PVC becomes brittle and susceptible to breakage when very cold. **We also recommend disconnecting** and removing pump and motor if the spa is to be stored for a long duration in order to make certain that all water is drained.

### **3. Water Treatment**

Water treatment and proper water maintenance are important and are essential factors in the enjoyment and maintenance of your spa. Purchase a test kit from your spa dealer. We recommend that you test your spa water after each use of the spa, but no less than three times per week. The most common water chemistry problems, which may result in damage to your Smartub are:

#### **Improper pH maintenance**

PH levels that are below 7.4 may cause wrinkles in your interior liner as well as cause damage to the pump seal. Avoid low pH, as this can cause both unsightly wrinkles to form in the liner and can cause damage to the pump seal, which will void the warranty on these items.

#### **Use of improper chemicals**

Check with your dealer to determine the best chemical program for your needs. We recommend using di-chlor and non-chlorine shock. The use of biguanide products will void your warranty.

#### **Over-chlorination**

Over-chlorination can result in bleaching of your interior liner; which will void your warranty. This type of situation can also be harmful to any users of the spa by causing skin irritations, nasal or sinus irritation, loss of body hair, etc. For this reason, trichlor chlorine tablets/sticks should not be used. It is the responsibility of the owner to maintain proper water chemistry and sanitation. The manufacturer and dealer are not responsible for any damages, which result from improperly maintained water chemistry. If you have questions regarding chemical use please contact your dealer or chemical manufacturer.

### **Adding of Chemicals**

1. Always have the water circulating when adding chemicals. Add only one chemical at a time.
2. Always pre-dissolve or pre-dilute the chemicals you add. Using a 5-gallon bucket, dip a few gallons of water out of the spa. Add the chemicals to the bucket and stir until they are fully dissolved or diluted. With the spa jets turned on, slowly add the bucket of water back into the spa, pouring it into a jet stream to ensure proper mixing. If you do not pre-mix the chemicals, you may damage the vinyl surfaces and void the warranty.
3. Always leave cover off of the Smartub for ½ hour after adding chemicals; gasses that will damage the vinyl cover need to be vented.
4. Do not use gas chlorinating, ionizers, scents, salts or soaps without consulting with your dealer.
5. Do not use floating chlorine dispensers, automatic dispensers or place chlorine sticks/tablets in the skimmer.

### **Recommended Water Chemistry Levels:**

PH: 7.5 (+/- 0.1)

Total Alkalinity: 80-100 ppm

Calcium Hardness: 150-250 ppm

Free Chlorine: 2-3 ppm

Total Dissolved Solids: Below 1500 ppm

## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Spa will not turn on	<ol style="list-style-type: none"> <li>1. Not plugged into outlet</li> <li>2. GFCI Cord or circuit breaker tripped</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power cord. Cord must be plugged into an isolated, grounded outlet. (See plugging in your Smartub)</li> <li>2. Check the GFCI cord. Push the test and then the reset button on the cord. Look at the controller box inside the equipment housing to verify power. The Red LED light should be illuminated. If LED light is not on, check your house circuit breaker.</li> </ol>
Circuit breaker or GFCI trips while spa is running	<ol style="list-style-type: none"> <li>1. Power surge</li> <li>2. Non-isolated circuit</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset breaker or GFCI. If the problem continues check with a qualified electrician</li> <li>2. Plug unit into an outlet that has no other outlets or appliances in line.</li> </ol>
Pump hums	<ol style="list-style-type: none"> <li>1. Dirty or plugged intake</li> <li>2. Stuck impeller</li> <li>3. Loose wire</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean or replace the filter and check the intake screen for debris.</li> <li>2. Contact dealer or customer service to remove any foreign objects in pump impeller.</li> <li>3. Check for loose wire connection. If no loose wire is evident call customer service or local dealer.</li> </ol>
Noisy pump	<ol style="list-style-type: none"> <li>1. Debris in pump</li> <li>2. Worn bearings</li> </ol>	<ol style="list-style-type: none"> <li>1. Call customer service or local dealer.</li> <li>2. Call customer service or local dealer.</li> </ol>
Cannot turn pump off	<ol style="list-style-type: none"> <li>1. Spa in heat or filtration cycle</li> <li>2. Disconnected air line</li> </ol>	<ol style="list-style-type: none"> <li>1. During a heat or filtration cycle the pump will run until selected temperature is met. Unplug unit or turn thermostat down.</li> <li>2. Check airline to control unit in equipment housing.</li> </ol>
Water not heating or not reaching desired temperature	<ol style="list-style-type: none"> <li>1. Needs more time</li> <li>2. Temperature not set correctly</li> <li>3. Air control left open</li> <li>4. Cover not installed</li> <li>5. High limit switch tripped</li> </ol>	<ol style="list-style-type: none"> <li>1. Spa will heat 3-4 degrees/ hr. Monitor with medical thermometer or other accurate device.</li> <li>2. Adjust setting in equipment housing.</li> <li>3. Close air control valve.</li> <li>4. Replace cover.</li> <li>5. Unplug GFCI cord, allow controller to cool down then plug in the GFCI cord.</li> </ol>
Water too hot	<ol style="list-style-type: none"> <li>1. Temperature not set correctly</li> <li>2. Faulty sensor</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust setting in equipment housing.</li> <li>2. If an accurate thermometer shows a temperature higher than 106° F, do not use spa. Call your local dealer or customer service.</li> </ol>
Therapy Jets not working	<ol style="list-style-type: none"> <li>1. Restricted intake</li> <li>2. No air induction</li> </ol>	<ol style="list-style-type: none"> <li>1. Check filter and / or intake screen for dirt and debris.</li> <li>2. Open the air control valve during spa use for higher pressure hydrotherapy jets.</li> </ol>

**TROUBLESHOOTING CONTINUED**

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
Leaking water/ Water Loss	<ol style="list-style-type: none"> <li>1. Overfilled</li> <li>2. Condensation / Evaporation</li> <li>3. Loose union nuts</li> <li>4. Loose component</li> </ol>	<ol style="list-style-type: none"> <li>1. Siphon off enough water from the spa so there is about 4" clearance from the top ring.</li> <li>2. Use caution when removing the cover, particularly indoors. Condensed water on the cover base can drip onto the floor.</li> <li>3. Check and tighten the 4 Union nuts located in the equipment housing.</li> <li>4. Call your dealer or customer service for any other leaking components.</li> </ol>
Light not working	<ol style="list-style-type: none"> <li>1. Light kit not installed</li> <li>2. Bulb burned out.</li> <li>3. Transformer not plugged in.</li> </ol>	<ol style="list-style-type: none"> <li>1. Lights are not included on all models of Smartub but light buttons and lenses do come standard. Call your dealer for information.</li> <li>2. Replace bulb from the outer wall access.</li> <li>3. Open equipment housing and check to make sure all wires and air lines are connected properly. (See Smartub Light)</li> </ol>



## LIMITED WARRANTY

***SMARTUB, LLC, WARRANTS THIS PRODUCT TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIAL, UNDER NORMAL USE AND SERVICE CONDITIONS, FOR THE PERIODS SPECIFIED BELOW:***

- 1. Pump, Motor, Plumbing, Electrical- 1 YEAR from the purchase date.*
- 2. Labor to replace or repair spa/components- 90 days from the purchase date.*

**Extent of warranty**

This warranty applies to Smartub 170-2's manufactured after December 1, 2004 and sold by an authorized Smartub dealer within the United States. This warranty extends only to the original purchaser and terminates upon any transfer of ownership. Smartub, LLC's obligation under this warranty is limited to replacing or repairing, at Smartub, LLC's option, the product through one of its authorized service centers or nearest factory location. All repairs for which warranty claims are made must be pre-authorized by Smartub, LLC. After the first ninety (90) days from the date of purchase, any shipping and/or replacement charges are the sole responsibility of the spa owner. Warranty registration is required. Warranty registration can be either filled out online or mailed. Registration must be completed within fourteen (14) days from purchase date.

**Limitations**

This warranty does not extend to any product or damage to a product caused by or attributable to freight damage, abuse, misuse, improper or abnormal usage, or repairs not provided by Smartub, LLC authorized service personnel, to products used for commercial or rental purposes, or to products used as store display models. Specifically excluded are damages caused by or attributable to the following incidents: any damage caused by the operation of the spa with water temperatures outside the range of 33 degrees Fahrenheit and 120 degrees Fahrenheit, any damage caused by clogged, dirty or calcified filters, any damaged caused by products not approved by Smartub, LLC, any damages that are purely aesthetic and do not hinder the function of the spa, any damage to the exterior resulting from improper maintenance, or any damage to the exterior attributable to freight mishandling; damage resulting from improper winterization; damage to the spa liner resulting from improper chemical treatment, damage to the spa resulting from exposure to extreme temperatures, or damage to the spa resulting from exposure to direct sunlight and ultraviolet rays while the spa is empty; damage to the pump, motor, plumbing, and components due to improper maintenance, chemical treatment, or exposure; damage resulting from failure to properly follow user's manual installation, operating, or maintenance instructions. Also excluded are consumable components, including but not restricted to headrests, filter cartridges, and light bulbs. Any alterations to the spa will void this warranty. Alterations include but are not limited to: any component or plumbing change, electrical conversion or addition of alternate sanitation or heating systems. Smartub, LLC, authorizes no other warranty beyond that specifically set forth above. Smartub, LLC is not responsible or liable for indirect, special or consequential damages arising out of or in connection with the use or performance of the product or damages with respect to any economic loss, loss of or damage to property including water damage, loss of revenues or profits, loss of enjoyment or use, costs of removal, installation or other consequential damages of whatsoever nature. The warranty extended hereunder is in lieu of any and all other warranties and any implied warranties of merchantability or fitness for a particular purpose is limited in its scope and duration to the terms set forth herein. No agent, dealer, distributor, service company or other party is authorized to change or modify or extend the terms of this warranty.

**Legal Rights**

This warranty gives you specific legal rights and you may have other rights, which vary from state to state.

**SPECIFICATIONS**

MODEL	170-2
SEATING	2 Adults
OUTER DIAMETER	60 Inches
INNER DIAMETER	52 Inches
HEIGHT	24 Inches
CAPACITY	170 Gallons
DRY WEIGHT	90 Lbs
FILLED WEIGHT	1450 Lbs
LIGHT	Available 12V Incandescent
PUMP	1.25 EQPP Brushless Magna
HEATER	1000 Watt, Stainless "T"
JETS	4 Multi-directional
FILTRATION	Available 17 SF and Skimmer
COVER	Insulated with 4, 2" Locking Buckles
INSULATION	Full Foam
OUTER MATERIAL	Leather-Plus™, Marine Grade Vinyl
INNER MATERIAL	50 mill PVC

