Bliss Tubs
CHOOSE PEACE OF MIND

Walk-in Bathtub Installation Manual

Image shown is a dual system tub. This manual also covers Bliss Walk-in Tubs with air or water jets only, or without jets.

QUESTIONS?

Please call your dealer first:

Telephone:

MODELS

B2645	B2651	B2653
B2848	B2851	B2948
B3048	B3052	B3054
B3150	B3153	
B3060	B3260	
B3052HC	B3252HC	
B3355	B3555	B3237
B305546	B315546	B306022

UPC ®

UL ®

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Thank you for your Bliss Tub purchase!

Bliss Tubs is committed to providing walk-in bathtubs known in the industry for high quality backed up by excellent service. Our team of expert technicians created this manual to help the installation go as smoothly as possible providing step by step instructions.

Please completely read this manual before starting any installation work.

LEGEND

DANGER... Indicates a definite hazard likely resulting in bodily harm, serious injury or death.

WARNING... Indicates a potential hazard that could result in bodily harm, serious injury or death.

CAUTION... Indicates a situation in which property damage could occur.

IMPORTANT... Indicates important information related to the use and/or installation of the product. Failure to follow highlighted specific instructions could drastically effect the use, function, and/or reliability of the product.

BLISS TUBS TECHNICAL SUPPORT

(800) 398-9639

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IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING... When using this unit, basic precautions should be followed, including the following:

READ AND FOLLOW ALL INSTRUCTIONS TO REDUCE THE RISK OF INJURY:

DANGER... Injury: To reduce the risk of injury, do not permit children to use this unit unless they are closely supervised at all times. Supervision is also recommended when an elderly or handicapped individual uses a walk-in bathtub.

- Use this unit only for its intended use as described in this installation manual and the corresponding operating manual. Do not use attachments not recommended by the manufacturer.
- Never drop or insert any object in any opening within the whirlpool system.
- Do not operate this unit without the guard over the suction fitting. The guard is a safety device that reduces the potential hazard of hair or body entrapment. Keep hair and body away from suction guard while the water pump is running. Should the suction guard be covered by an object, the integrated air line will vacate the suction and release the object.
- This unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should then interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power without the test button being pushed there is a ground current flowing, indicating the possibility of an electric shock. If this should occur, do not use this hydromassage bathtub. Disconnect the hydromassage bathtub and have the problem corrected by a qualified service representative before further use.
- Bliss tubs are UL certified for installation and use within the United States. The electrical connections must remain the standard three-prong (NEMA) connections and are not to be permanently installed or altered in any way. More detailed electrical installation and use instructions are provided later in this manual.

DANGER... Alcohol, Drug, and Medication Use

The use of alcohol, drugs or medications can greatly increase the risk of medical complications, fatal hyperthermia, serious bodily injury or death. The material provided in this manual is not intended to replace the advice of a physician. Seek advice from a competent medical professional or doctor prior to the use of this product with regard to the user's specific symptoms or conditions.

DANGER... Hyperthermia

Prolonged immersions in hot water may induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature of 98.6°F. The symptoms include an increase in internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include:

- Failure to perceive heat
- Failure to recognize a need to exit the bathtub
- Lack of awareness of impending hazard
- Fetal damage in pregnant women
- Physical inability to exit the bathtub
- Unconsciousness and danger of drowning

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IMPORTANT... INSTALLATIONS SHOULD BE PERFORMED ONLY BY A LICENSED CONTRACTOR. BLISS TUBS DOES NOT WARRANTY THE INSTALLATION OF ANY OF ITS PRODUCTS. FOR MORE INFORMATION REGARDING BLISS TUBS 10 YEAR LIMITED WARRANTY SEE APPENDIX A (PAGE 22).

RECEIVING THE TUB

It is the consignee's sole responsibility to ensure that the shipment is complete and undamaged prior to signing for the shipment or releasing the driver. Bliss Tubs will not be liable for the cost of repairing damage to the tub, replacing missing product or for any related freight or parcel shipping costs if the required inspection and reporting steps are not followed. However, if there is any freight damage discovered after the initial delivery or terminal pickup, Bliss Tubs will help to facilitate the repair of the product.

Common Exterior Signs of Shipping Damage

- Excess splintering of the pallet or missing pallet supports
- Missing edge protectors or straps
- Gashes, impressions, dents, holes, or excess packing tape on the cardboard packaging

Call Bliss Tubs Immediately!

Initial Inspection

1. Remove the straps and carefully lift off the box top. Do not cut the packaging open! Doing so may scratch the fiberglass surface and in the unfortunate event that the tub is damaged and the freight needs to be retained by the driver/terminal, you will have to use that same box to send it back.
2. Carefully inspect the entirety of the gel-coat surface for cracks, spidering, gouges, etc.
3. Next, carefully inspect the stainless steel frame for dents, bent sections, gouges, or separation from the fiberglass joint supports.
4. Next, carefully inspect the massage systems to ensure no damage has occurred to the integrated plumbing or air lines.
5. Finally, find the shipment's packing list and confirm that each item listed there is present and accounted for (please note that the extension panel is often compact enough to fit underneath the tub and may be difficult to see).

IMPORTANT... Damage Procedure

In the rare event of damage, no matter whether the tub is being delivered to a business/residence or being held at the destination terminal, please follow the procedure listed below:

1. Call the Bliss Tubs customer service line at **(800) 398-9639** immediately to inform us of the damage. Await instructions from a Bliss Tubs representative.
2. If instructed to refuse the tub by Bliss Tubs, on the original freight bill, clearly notate "REFUSED DUE TO DAMAGE", notate the specific damage to the tub, and sign & print your name and the date next to your notes.
3. If possible, take photos of the tub and clear pictures of the damage. Send these and a copy of the freight bill to Bliss Tubs as soon as possible.
4. After speaking with Bliss Tubs, leave the pallet in the driver's/terminal's custody to be returned to Bliss Tubs.

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WATER TEST

All Bliss walk-in baths are water tested and operated in our factory prior to shipment. However, rough handling may cause leaks which can be detected if water tested again prior to installation.

CAUTION... NEVER LIFT THE TUB BY ANY PORTION OF THE HYDRO MASSAGE SYSTEM, AIR MASSAGE SYSTEM OR PLUMBING.

1. Place the tub on a flat surface in an area where it may be drained after testing, use a plug or tape to seal the drain, fill the unit to the overflow, then test the tub for proper door operation and look for leaks from the door or anywhere else on the tub body.
2. Using an extension cord, plug in the pump and the blower cord and run the system for 10 minutes, checking for leaks while the system is running. After the tub has run for 10 minutes turn the system off then let stand for 10 minutes. Inspect tub completely (around pump, all plumbing fittings and door for leaks.) **Any defect must be reported to your dealer prior to installation in order to have it covered under warranty.**

IMPORTANT... IN EVENT OF FAILURE TO FOLLOW THE PRE-INSTALLATION PROCEDURES, MANUFACTURER WILL NOT BE LIABLE FOR THE REMOVAL OR RE-INSTALLATION OF THE BATHTUB OR ANY COSTS INCURRED THEREIN. SUCH FAILURE COULD RESULT IN TERMINATION OF THE WARRANTY.

SITE PREPARATION

Check to ensure that the installation will conform to all applicable state and local codes and secure all necessary permits. All electrical and plumbing connections should be made by a qualified, licensed contractor.

1. Inspect Site for Existing Damage

It is very important to make a thorough inspection of the installation site before any work is started. Pre-existing conditions should be discovered and addressed immediately. If the tub is installed over existing problems it may need to be removed at a later date to fix the problems and can potentially be a great cost to the contractor/homeowner. If an existing problem is discovered, bring it to the home/building owner's attention immediately.

Problems to look for:

- Mold and Mildew
- Bad piping/leaks
- Water damage and rot
- Termite damage
- Poor structure
- Galvanized Plumbing

IMPORTANT...IT'S ALWAYS A GOOD IDEA TO DOCUMENT WITH PHOTOS.

2. Site Protection

Minimize dust, damage, and noise in the installation location through proper preparation. Plan the pathway to be used to bring the tub to its final location. Measure to make sure the unit will fit through doorways, hallways, around corners and stairwells. Protect the walls and doorways where there is a possibility of damage. See appropriate dimensional diagram for tub being installed in Appendix B2 (page 24). The dimensional diagram may effect the maneuverability of the tub within the home, especially in the bathroom itself. Doorways may need to be widened in some older homes depending on the tub model to be installed. Common door modifications include door stop or door jamb removal and replacement, door framing removal and replacement, or complete door widening (recommended). Floors should be covered and dust curtains installed to contain dust and debris in the work area. Doing so will protect the rest of the house and will save time on clean up.

3. Demolition

Once the site is inspected and protected it is now time to do any necessary demolition. The amount of work required will vary according to each job and location. Typical demolition may include tub removal, shower removal, tile and flooring removal, widening of doorways, cutting out access panel locations, moving toilets, and removing vanities. Plan a cost and labor-efficient waste disposal strategy ahead of time to minimize unsightly and unsafe debris piles inside or outside the home.

4. Structural

Before installing any walk-in bathtub make sure the floor in the desired new tub location is adequate to bear the load of the tub, water, and user. Bliss Tubs vary in weight between 150-300 pounds depending on the model. Their operating capacities range from 38 to 100 gallons depending on the model and size of the user. An average expected total weight during normal operation is roughly 750 lbs. Reinforce the subfloor as necessary and required by code. Make sure to level the surface of the subfloor. Although each tub is equipped with leveling feet, leveling the floor first will save time and effort in adjusting the feet on the tub while also adding to the overall stability of the installation.

IMPORTANT... A LEVEL INSTALLATION HAS A HUGE EFFECT ON PREVENTING THE TUB DOOR FROM LEAKING OVER TIME DUE TO SETTLING OR SHIFTING OF THE TUB BODY, FRAME, AND/OR HOME.

5. Plumbing

All plumbing work should be done by a licensed professional contractor. Bliss Tubs does not warranty any part of the installation and is not responsible for any incidental damages due to improper installation.

- It is the installers' responsibility to ensure that the installation conforms to all applicable state and local codes.
- Before any plumbing work is started, check the current home water pressure at the tub location. The manufacturer's recommended range is between 50-70 psi. The supply hoses provided are rated for use under 100 psi. Also, make sure the cold supply pressure and hot supply pressure are not drastically different.
- Check current water heater capacity – Ratio of hot to cold water should be roughly 2/3 hot to 1/3 cold – refer to tub capacities in Appendix B2 (page 24). Tub water capacities are estimated and will vary depending on the size of the user. Ensure that the water heater size is adequate to provide enough hot water for a warm bath.
- Ensure proper drain location and rough-in. See appropriate dimensional diagram for tub being installed in Appendix B2 (page 24). **Note:** Take into account a reverse drain situation which is illustrated in Appendix C (page 30).
- A P-Trap is required in nearly all localities for plumbing fixtures including walk-in tubs.
- Rough-in hot/cold water supply lines. Keep in mind that Bliss Tubs come standard with faucets with ¾" valves. Most residential plumbing is ½". If feasible, it is recommended to run ¾" supply lines back to the source as this may drastically reduce the fill time of the tub. Be sure the water supplies are run in keeping with applicable codes.
- Be sure to include point-of-use water shut-off valves (to be provided by installer). The height of the tub may impact the necessary installation height of the shut-off valves. The outlet of the shut off valves should be ¾" NPS in order to receive the braided stainless steel supply lines (provided). This step is critical for ease of post-installation maintenance, especially in the instance of installation in an apartment or condominium.

IMPORTANT... BEFORE HOOKING UP FAUCETS, FLUSH BOTH HOT AND COLD LINES TO CLEAR ANY AIR, SEDIMENT, DEBRIS AND SOLDER SO THAT THE FAUCET COMPONENTS DO NOT BECOME CLOGGED OR DAMAGED.

- Galvanized plumbing should be replaced when possible to prevent sediment from damaging the faucet valves.
- Although it may not be possible in every circumstance, consider running a 2” drain line back to the main drain. This may substantially reduce the drain time of the bathtub.

6. Hot Water Heater Considerations

The customer’s hot water heater should be assessed during the walk-in tub planning process. For a regular size tub model such as the B3052 and B3054 models, most Bliss Tubs purchasers have been satisfied with the hot water delivery from their existing 40 gallon tanks. However, based on the input from several major hot water heater manufacturers, a 50 gallon water heater is recommended in most circumstances.

In addition to the current heater’s capacity, the heater’s age and location can affect the amount of hot water that can be delivered to the walk-in tub. As water heaters age, their performance declines. Location of the water heater relative to the location of the walk-in tub can also have an impact. The further the hot water a run, the more heat is lost. Re-circulating systems have proven effective in negating this cooling effect.

Tank Heaters

For a regular size tub model such as the B3052 and B3054 models, the recommended minimum tank size for electric or gas tank water heaters is 50 gallons. Normally one can assume a 70% hot water output from any tank heater. (Tank heater manufacturers can provide specifications and recommendations.) A 70% output should provide roughly 35 gallons of hot water from a 50 gallon tank with the thermostat set to the industry standard of 120°F.

As a construction industry rule of thumb, the water mixture for a comfortable bath is roughly two-thirds (2/3) hot water to one-third (1/3) cold water. Since the typical water requirement to fill a regular size Bliss Tub model is 40 to 50 gallons depending on the user’s size, roughly 30 to 35 gallons of hot water will be needed to fully fill an occupied tub. Refer to the Appendices B1 or B2 beginning on page 23 for the tub model operating capacities.

Note that the BTU rating (for gas heaters) and the wattage (for electric heaters) only have an effect on the recovery rate of the hot water level for the heater, not the total possible hot water output.

Tankless Heaters

Tankless water heaters require special consideration with regards to water flow rate and temperature rise from the source. When opting for a tankless water heater, both ratings should be as high as possible. Flow rates vary by heater manufacturer and model. Contact the tank heater manufacturer for exact specifications and recommendations. On average, the rise needs to be around 70°F. For example, this will take 50°F incoming cold water and raise it to 120°F hot water output. These two factors should be chosen based on the homeowner’s budget, current electrical setup, and desired fill time. As a point of reference, Bliss Tubs equips its tubs with faucets capable of 18 gallons per minute flow rate.

7. Electrical (if so equipped)

All electrical work should be done by a licensed professional contractor. Bliss Tubs does not warranty any part of the installation and is not responsible for any incidental damages due to improper installation.

- Check electrical requirements for tub systems (see Appendix D [page 32]).
- Run appropriate number of dedicated 15 or 20 amp, 110V (not 220V) electrical lines – rating matches load requirement of the tub being installed.
- Install easily-accessible GFCI outlets (required).

WARNING... ENSURE THAT ELECTRICAL PREPARATION IS DONE IN CONFORMANCE WITH FEDERAL, STATE, AND LOCAL CODES.

8. Ventilation

Ensure the bathroom has proper ventilation through ductwork or available window(s) in conformance to state and local codes.

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9. Additional Service Access

Bliss Tubs has gone to great lengths to ensure ease in maintenance and repair work through strategic placement of all plumbing and electrical systems. However, it is the installer's responsibility to ensure tub-integrated access panels can be easily removed and are not impeded by other bathroom fixtures when the tub is in place. If space restrictions are a factor, it is also the installer's responsibility to provide adequate access to electrical and plumbing components for any future service-related needs.

IMPORTANT... ADD AN EXTRA WALL ACCESS PANEL AS NEEDED. THIS IS OF PARTICULAR IMPORTANCE WHEN INSTALLING ONE OF BLISS TUBS' MORE COMPACT UNITS WHICH ARE NOT EQUIPPED WITH INTEGRATED FRONT-ACCESSIBLE ACCESS PANELS (I.E. B3237 OR B306022).

After pre-installation procedures are complete, bring the tub inside the home. Be sure to measure the tub diagonal dimension prior to moving the tub into the home so you don't hit walls when maneuvering in the home. Be extremely cautious when maneuvering the bath tub. Units can weigh upwards of 300 lbs. so ensure you have adequate space and assistance. Never lift the bathtub by any portion on the integral plumbing or electrical systems. Bliss Tubs does not warranty any damage to the tub or its plumbing or electrical system due to improper handling or care.

IMPORTANT... IT IS EASIER TO INSTALL THE FAUCETS, INSTALL THE BATH DRAIN AND OVERFLOW KIT AND PRE-FIT THE EXTENSION KIT ON THE TUB BEFORE MOVING THE TUB INTO ITS FINAL INSTALLATION LOCATION.

WALK-IN BATHTUB PREPARATION

1. Faucets

Faucets are thoroughly inspected for appearance and function by our factory-trained technicians. For best results, install the faucet set on the deck in the order it appears on the following page. The holes are pre-drilled and the lengths of hoses supplied accommodate this line up. The arrangement shown also allows maintenance access to the most commonly used fittings on the tub – the mechanical valves and diverter. Having access to these components is very important as they are the most prone to abuse and/or misuse more so than other tub components. Hook up all the lines once the faucet set is in place on the deck leaving only the hot and cold supply lines to be connected after the tub is installed. Ensure there are no kinks in the supply lines as this will restrict the water flow and increase fill time. Be sure to flush the supply lines before making the final connections. Although the supply hoses have integrated washers, it is still recommended that teflon tape or thread sealant be used on the threads to ensure a complete seal. Be careful not to scratch plated finishes during installation.

CAUTION... SEDIMENT, DEBRIS AND SOLDER FROM UNFLUSHED LINES WILL CAUSE DAMAGE TO THE VALVES. ANY RESULTING DAMAGE WILL NOT BE COVERED UNDER WARRANTY.

CAUTION... FAUCET SET CONTAINS VERY SMALL COMPONENTS. BE CAREFUL TO CONTAIN PARTS DURING INSTALLATION TO REDUCE THE RISK OF LOST COMPONENTS. BLISS TUBS DOES NOT COVER THE COST OF LOST COMPONENTS OR ANY CORRESPONDING SHIPPING COSTS.

IMPORTANT... IF A SLIDEBAR IS ORDERED ALONG WITH THE FAUCETS, THE HANDSPRAY HOLDER WITH WASHER (PART 13 ON PAGE 9) WILL BE SWAPPED OUT BY BLISS TUBS FOR A DECK-MOUNTED ELBOW WITH HOLDER, PERMANENTLY EXPOSING THE FLEXHOSE. THIS PART WILL BE FOUND IN THE SLIDEBAR BOX. SEE APPENDIX G FOR DETAILS.

BACK VIEW OF RIGHT-HAND TUB

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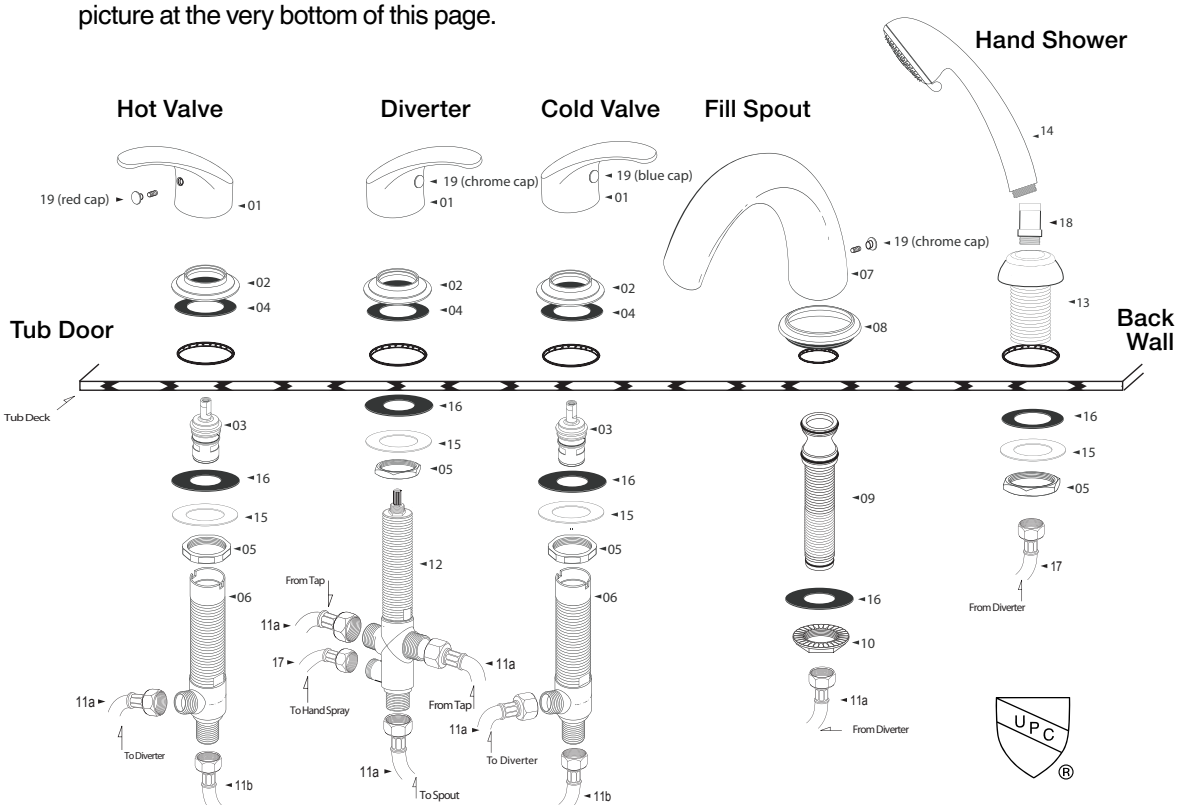
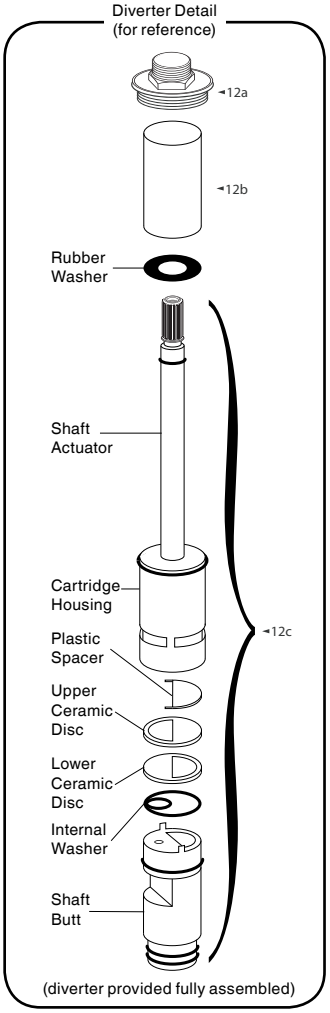
*Orientation for a left-hand tub is illustrated below. A right-hand tub would require orientation in the order shown in the picture at the very bottom of this page.





CAUTION... DO NOT OVER TIGHTEN FLEX HOSE CONNECTIONS. THE MANUFACTURER RECOMMENDS HAND TIGHTENING AND THEN AN ADDITIONAL QUARTER TURN WITH A WRENCH. OVER-TIGHTENING WILL CAUSE LEAKS.

LEFT-HAND TUB

1 Hot Tap **2 Diverter** **3 Cold Tap**
4 Fill Spout **5 Hand Shower**

RIGHT-HAND TUB

PARTS LIST

#	PART NAME	QTY
1	LEVER HANDLE	3
2	FLANGE STEP	3
3	HOT AND COLD CARTRIDGES	1 ea.
4	SMALL RUBBER WASHER	3
5	LOCK NUT	4
6	HOT AND COLD SHANKS	1 ea.
7	SPOUT	1
8	SPOUT RING	1
9	QUICK CONNECT SPOUT SHANK	1
10	FLANGED LOCK NUT	1
11	HOSE: a(3x 25") b(2x 30")	5
12	DIVERTER VALVE BODY	1
12a	DIVERTER VALVE CAP	1
12b	INTERNAL SPACER	1
12c	DIVERTER SHAFT WITH CARTRIDGE	1
13	HAND SPRAY HOLDER W/ WASHER	1
14	HAND SPRAY	1
15	ROUND METAL WASHER	4
16	LARGE RUBBER WASHER	5
17	HAND SPRAY FLEX HOSE - CHROME	1
18	BACKFLOW PREVENTER CHECK VALVE	1
19	TRIM CAP & SET SCREW	4

IMPORTANT...
BLISS TUBS STANDARD BELLEVUE FAUCET SET SHOWN HERE. IF TUB COMES WITH A DIFFERENT MODEL FAUCET SET, REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS INCLUDED IN THE FAUCET BOX.

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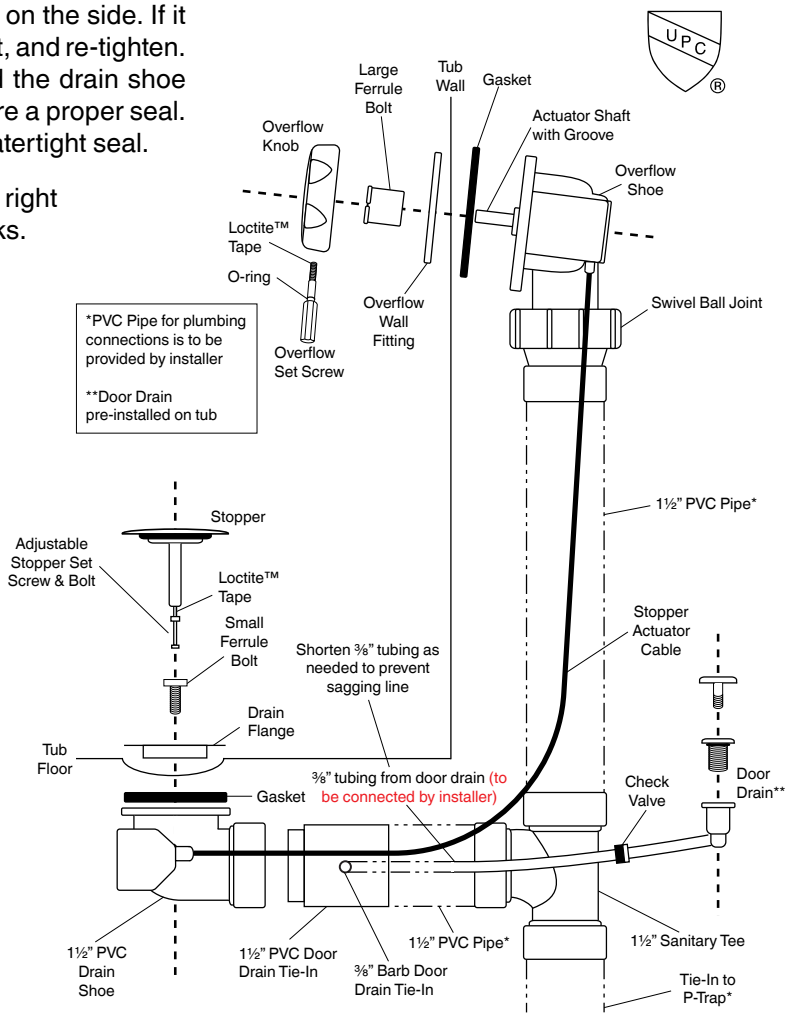
2. Bath Drain & Overflow Kit and Door Drain

The bath drain and overflow kit should be installed up to the final connection before the tub is installed (for reverse drain kit installation see Appendix C [page 30]). The drain shoe is most easily installed when the bathtub is standing on its end. When tipping the tub on its end make sure the fiberglass corner of the tub is well protected. Do not rotate the tub while it is standing on its end as this may damage the fiberglass corner and edge. Make sure that any moving parts (i.e. the door and door handle) are secure to avoid any unnecessary jarring of the components. Never lift the bathtub by any portion of the integrated plumbing or electrical systems.

- Install the drain shoe piece with the 1½" outlet facing towards the faucet side of the tub, as shown below. Two ferrule bolts are provided, one 1" long and one 1¼" long. The bolt used will depend on the thickness of the fiberglass drain hole. Only one is required.
- Apply a bead of silicone or plumber's putty between the drain flange and the tub body.
- Screw the small ferrule bolt through the flange and into the drain shoe piece.
- Make sure the rubber gasket has not bulged out on the side. If it has, then loosen the ferrule bolt, adjust the gasket, and re-tighten. Apply a second even coating of silicone around the drain shoe connection on the underside of tub body to ensure a proper seal. Smooth with fingertip to close any gaps in the watertight seal.
- Install overflow portion of drain kit as shown to the right and silicone around the back side to prevent leaks.
- Ensure the overflow knob is well secured into the groove of the actuator shaft. A loose set screw can effect drain operation.
- The edges of the overflow wall fitting can be filed as needed to improve knob function.
- Use 1½" PVC pipe to connect the overflow outlet to the sanitary tee, door drain tie-in, and drain shoe as shown in the diagram below. If feasible, it is recommended to use a reducer and flexible PVC pipe (not provided) between the overflow shoe and lower connections. This step will make any future maintenance of the faucet valves simpler.
- The ⅜" vinyl tubing coming from the door drain is supplied with excess length and needs to be cut to the appropriate length once the drain shoe is affixed to the tub. Cut the tubing so that there is a downward slope in the ⅜" tubing from the door drain fitting to the drain shoe. DO NOT cut off the integrated check valve!

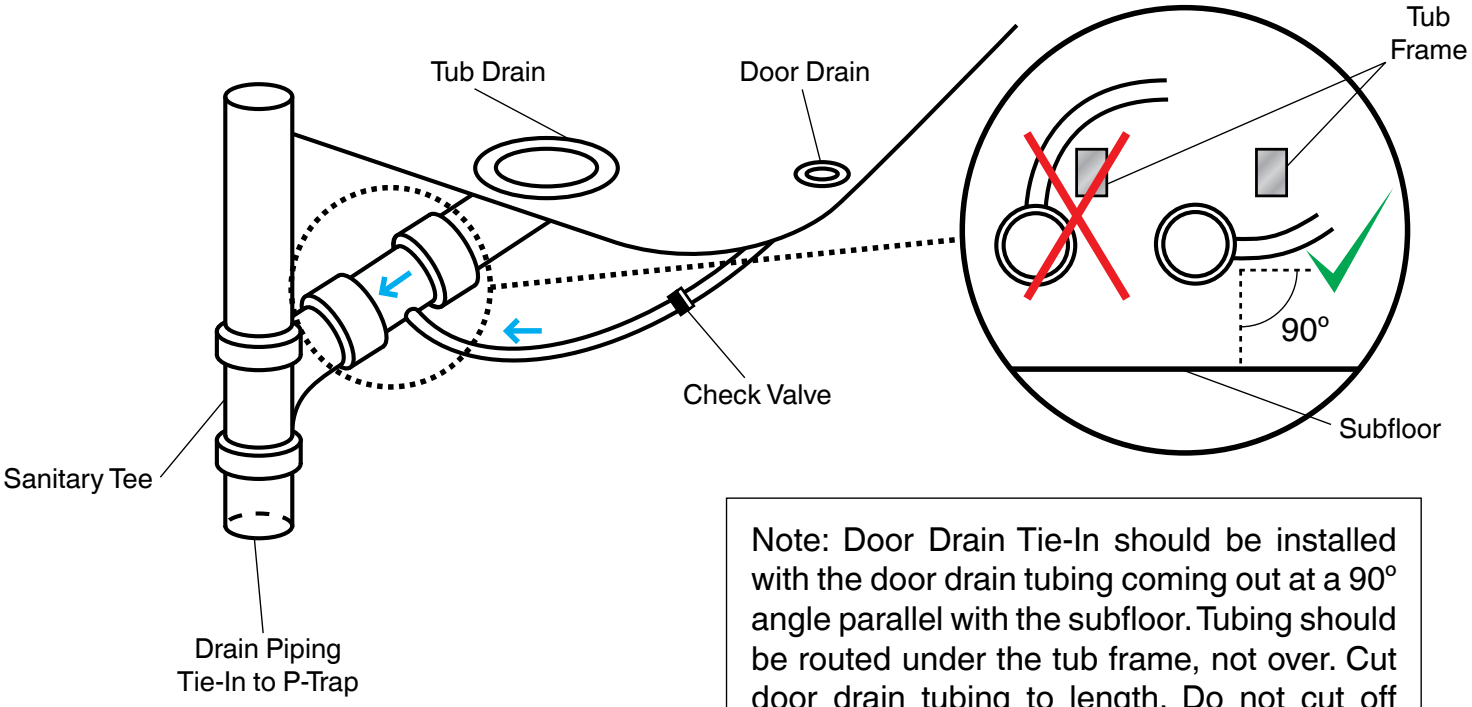


IMPORTANT... USE APPROPRIATE BONDING GLUE. THE KITS SUPPLIED ARE PVC. ENSURE THAT IF SECURING TO AN EXISTING ABS DRAIN LINE, THE APPROPRIATE BONDING GLUE IS USED.

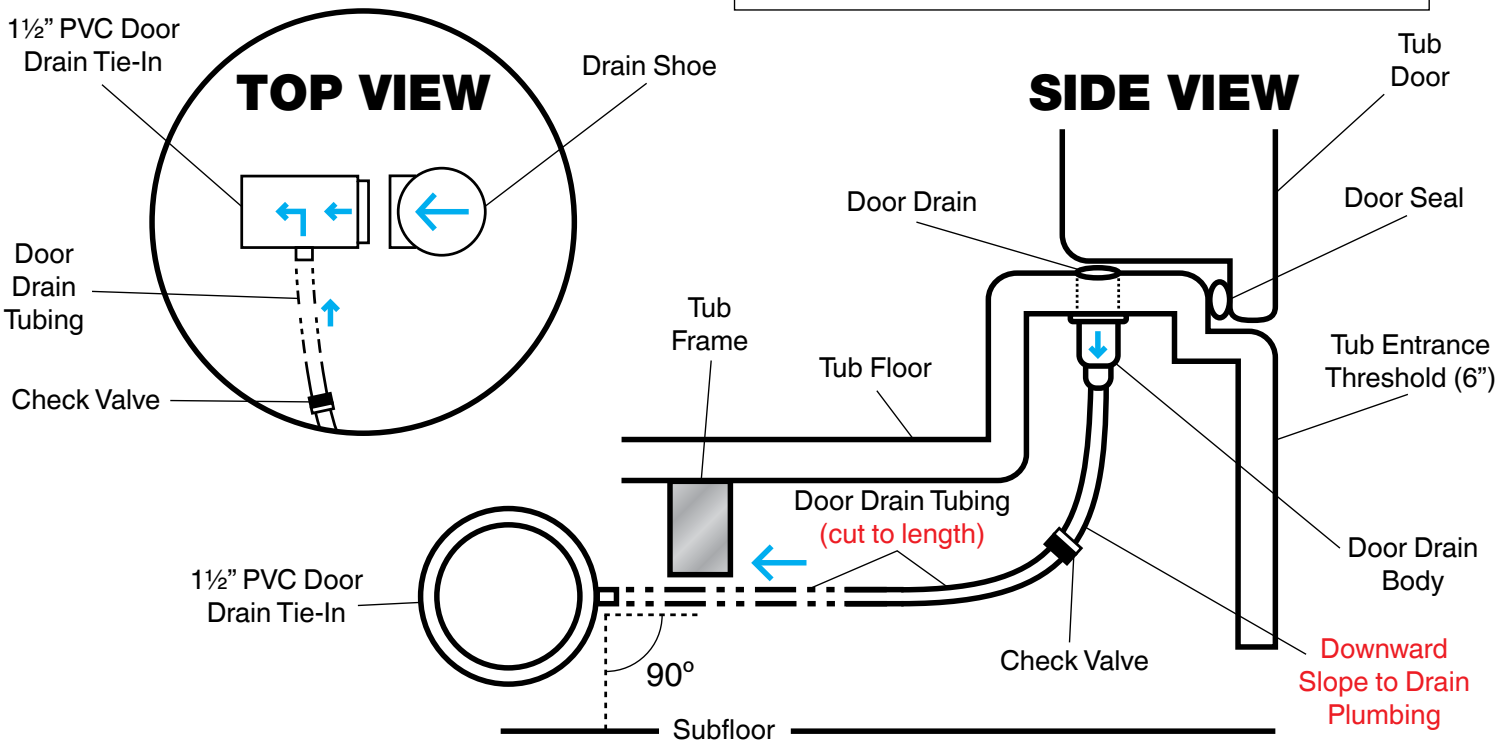
CAUTION... STOPPER SET SCREW ADJUSTMENT IS EXTREMELY IMPORTANT AND IS DETAILED IN THE TEST PROCEDURES ON PAGE 19.

SAVE THESE INSTRUCTIONS

CAUTION... DOOR DRAIN TUBING NEEDS TO RUN PARALLEL TO THE SUBFLOOR AND THEN RUN UPWARD TOWARD THE DOOR DRAIN BODY TO ALLOW ACCUMULATED WATER IN THE DOOR DRAIN TO DRAIN PROPERLY INTO THE DOOR DRAIN TIE-IN. SAGS IN THE DOOR DRAIN TUBING WILL CAUSE WATER TO BE TRAPPED AT THE LOW POINTS.



Note: Door Drain Tie-In should be installed with the door drain tubing coming out at a 90° angle parallel with the subfloor. Tubing should be routed under the tub frame, not over. Cut door drain tubing to length. Do not cut off check valve!



- The plumbing is now ready for the final connection once the tub is put into place. In the case of a reverse drain installation refer to Appendix C (page 30).

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3. Extension Panel Kit Pre-Fit

Bliss Tubs' two-piece extension panel kits are designed to bring our different size tubs out to a total length of 60 inches (or 5 feet), the standard stud to stud dimension for a bathtub/shower space. But tub spaces are rarely either square or exactly 60 inches long if and when tile, cement, backer board, wall panel, or sheet rock are added. So in most cases some trimming of the extension panel will be necessary.

Extension panel kits are designed and intended to be installed behind the seat. When installing a right hand tub (door is on the right side) then a right hand extension panel kit is included and intended to be installed behind the seat (which would be against the left wall as shown below). When installing a flange down tub, the extension panels are "universal" and can be installed on either end of the tub.

Cutting the extension panels:

1. Mark the panel with a scribe following the contour of the wall it will be installed against.
2. An angle grinder with a medium to fine grit blade is recommended for cutting the fiberglass and gel coat parts. A reciprocating saw with a fine tooth metal blade or a jigsaw with a fine tooth metal blade or carbide grit blade at a low speed can also be used. If the speed is too high the blade may chip the gel coat finish along the cutting edge. The ideal blade for long term use is a carbide or diamond grit blade.
3. Finish the cut edge with a couple light passes with a fine or medium grit sand paper to remove any sharp edges or splinters on the underside of the panel. Be careful not to dull the finish of the gel coat.



Extension Panel Kit Pre-Fit (continued)

Prefitting the extension panel clips:

Install the clips on the flange of the tub behind the seat. Depending on the tub model being installed, the panel may have clips that are either pre-attached (seen on previous page) or come separately with the packaging (see below). If they work for the given application then use them. If they do not fit for a particular situation then screws or bolts can be used to join the extension panel to the tub flange.



IMPORTANT... DO NOT ATTACH THE PANEL YET, JUST GET EVERYTHING PRE-FIT.

Bracing the extension panels:

Attach a support to the wall for the wall edge of the extension panel. You may use any appropriate material to properly brace the extension panel as long as it complies with local, state, and any federal codes. The most commonly used bracing material is a section of 2x4 lumber nailed or screwed to the wall studs. Make sure the material is level and stable.

Steel hanger brackets (not provided) similar to the one shown here can also be used and are available for purchase at most local retail hardware supply stores.

Example 1:
2-Flange Up


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Example 2:
3-Flange Up



Example 3:
All Flanges Down


Now the extension kit is prepped so that when the tub is in place the pre-fit extension kit can slide into place and install. This is described in more detail on Page 19

TUB INSTALLATION

Before installing the tub, clean the area where the tub will be installed so that no dust or debris will be pulled into the blower (if equipped). Once the site is prepared and the tub is fitted with faucets, bath waste and overflow, and pre-fitted with the extension kit, slide the tub into place.

1. Leveling the Tub Feet

WARNING... DO NOT SKIP THIS STEP. IT IS VERY IMPORTANT TO LEVEL THE TUB FRONT TO BACK AND SIDE TO SIDE AND TO HAVE ALL OF THE TUB FEET TOUCHING THE GROUND. FAILURE TO DO SO MAY RESULT IN DOOR LEAKS, FLOODING AND/OR BOWING OF THE TUB FRAME AND SHELL. BLISS TUBS DOES NOT WARRANTY ANY INSTALLATION OR COVER ANY DAMAGES RESULTING FROM AN IMPROPER INSTALLATION.

- Check the level of the floor where the tub is to be installed. If it is drastically out of level then the floor needs to be leveled first.
- Take note of the highest and lowest corners of the floor where the tub will be placed.
- Slide the tub into place onto properly braced flooring (described earlier) and check the frame with a level.
- Raise and lower the six (6) feet until the frame is level and all feet are touching the ground.
- You may need to slide the tub in and out to adjust the back corner feet.

- Once the tub is in the correct position, the frame is level side to side and front to back, and all feet are touching the ground, lock down the locking nuts on the bolts holding the feet.
- Do not forget the two middle leveling feet!

2. Securing to Walls & Floor

Secure the top of the tub to the wall studs by screwing through the flange or using metal strapping or brackets (not provided; see photo on page 13). The tub feet have holes that allow them to be screwed to the wooden subfloor. For securing the tub on concrete subfloor use bolts and steel strapping over the frame to secure the tub to the floor or use heavy-duty masonry screws that won't loosen over time.

Both flange up tubs and flange down tubs can be adapted to any installation situation. Tubs can be installed against existing tile, existing wall, or directly to the studs in new construction. See the next page for further details.

CAUTION... IN EVERY SITUATION IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A PROPER MOISURE BARRIER IS ESTABLISHED IN COMPLIANCE WITH STATE AND LOCAL CODES.

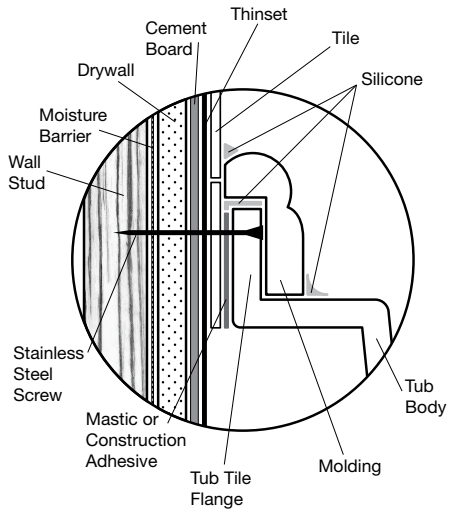
Special Note

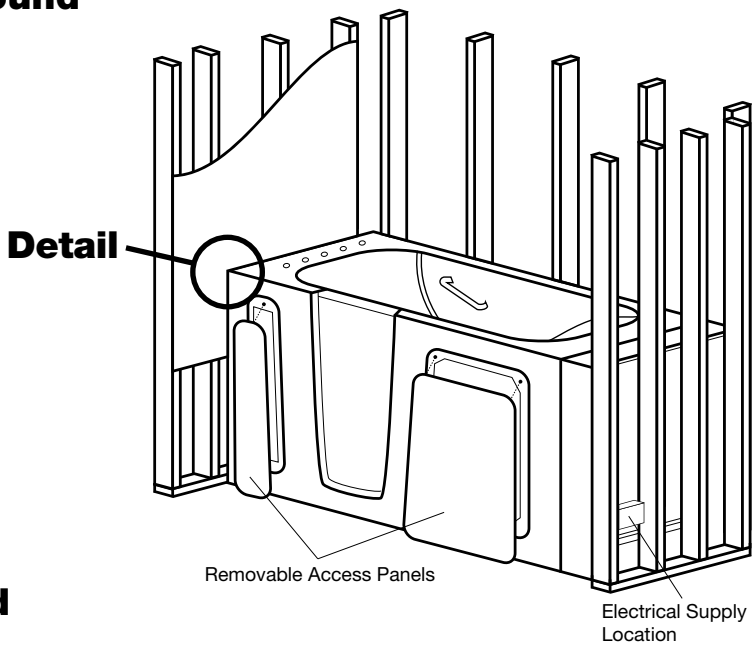
For inspection and reference purposes, UPC & UL certification labels are permanently adhered to the tub frame behind the large access panel. Location of the label for inward-swinging door is shown below.

Certification labels attached here

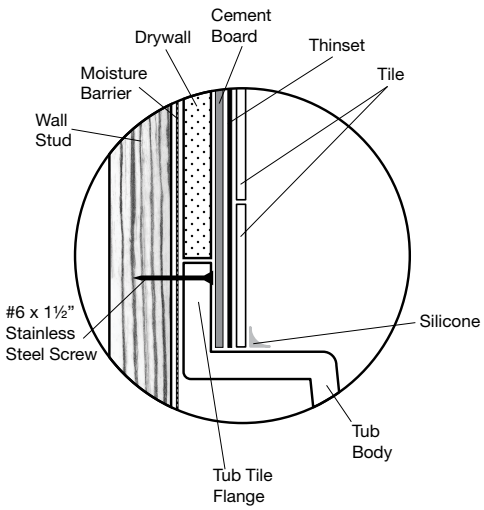
SAVE THESE INSTRUCTIONS

Detail A: Flange Up
Existing Tile / Surround





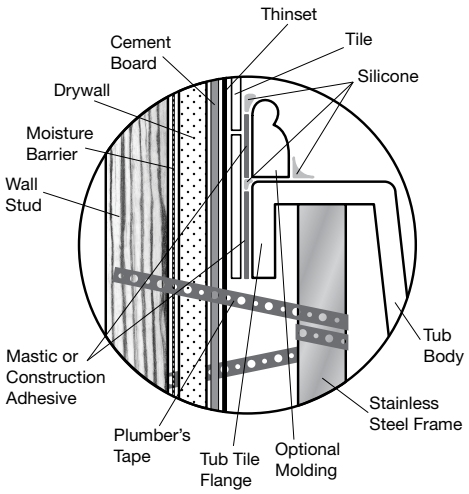
Detail B: Flange Up
New Tile / Surround



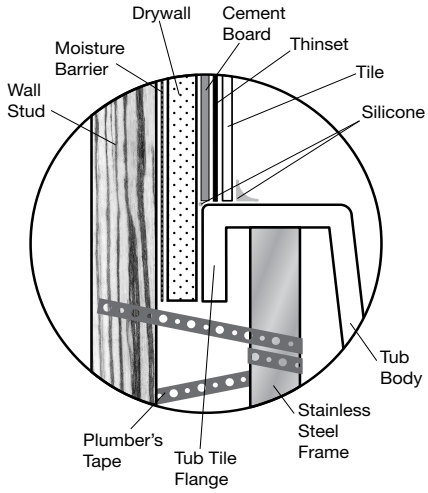
IMPORTANT... If drilling through the flange to secure tub, ensure that the proper pilot holes are drilled and the screw extends all the way into the wall stud.

CAUTON... If drilling through existing tile, ensure that appropriate drill bits and pilot holes are used to prevent damaging the tile.

Detail C: Flange Down
Existing Tile / Surround



Detail D: Flange Down
New Tile / Surround



SAVE THESE INSTRUCTIONS

Flange Up, Existing Tile / Surround (Refer to Detail A on Previous Page)

Moldings can be used to cover the flange. These moldings are available at Home Depot, Lowe's and similar outlets.

- Prefinished in bone white and ready to install
- Moisture-, termite- and rot-resistant for a long lasting accent
- Easily installs using nails or construction adhesive

IMPORTANT... BE SURE TO USE QUALITY GRADE CAULKING. YOU SHOULD SEAL THREE TIMES:

1. Put a caulking bead on the back of the flange before pushing the tub against the wall or liner.
2. Seal again by running another bead across top of flange lip.
3. After trim is secured against the tile flange, caulk and seal top of trim.

Flange Up, New Tile / Surround (Refer to Detail B on Previous Page)

1. After tub is secured to wall studs, install moisture barrier, cement board, thinset and tile in front of the flange as shown in Detail B on the previous page.
2. Be sure to leave a ⅛" (one-eighth inch) gap between the tile and the tub body to allow for any flexing.
3. The final silicone seal will be done at the end of the installation process.

Flange Down, Existing Tile / Surround (Refer to Detail C on Previous Page)

AND

Flange Down, New Tile / Surround (Refer to Detail D on Previous Page)

A walk-in bathtub with no tile flanges offers installers flexibility in the installation process. Walk-in bathtubs that are fully flange down will have all three (3) flanges (behind the seat, along the edge and behind the faucet) pointed downward.

A flange down tub can be easily installed against existing tile or surround. Similarly, a flange down tub can be installed in the same manner against new tile or surround.

Similar to installing a walk-in bathtub with flanges, a flange down tub must be securely positioned against the wall and/or to the floor during or at completion of install. Regardless of sequence, be sure to use QUALITY GRADE caulking.

When installing a flange down walk-in bathtub against tile or a surround:

1. Put a caulking bead on the gel-coat finish side of the flanges which will press against the surround.
2. Once positioned against the wall, seal again by running another bead across the seam between the flange ridge and the tile/surround.
3. Smooth out and distribute the beaded caulk evenly along the seam.
4. If the tiled walls are not square and the gap is too wide for a visually clean installation, molding may be used to cover the gap around the tub.

CAUTION... IN EVERY SITUATION IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE A PROPER MOISURE BARRIER IS ESTABLISHED IN COMPLIANCE WITH STATE AND LOCAL CODES.

SAVE THESE INSTRUCTIONS

3. Supply & Drain Plumbing Connection

The final connection needed for the supply plumbing are the two stainless steel flex hoses that connect from the wall shut off valves to the hot and cold valves on the deck of the tub.

1. Make sure the shut off valves at the tub are shut off.
2. Turn the water supply to the house back on.
3. Connect the supply flex hoses to the wall valves. Although the supply hoses have integrated washers, it is still recommended that teflon tape or thread sealant be used on the threads to ensure a complete seal
4. DO NOT CONNECT the supply lines to the tub yet. Be sure to flush the lines of any debris that may have been loosed by shutting house supply on and off. Place the other end of the supply hose in the drain and slowly open the wall valve. Let it run for a couple minutes to clear out air and debris. Once there is a clean and constant flow, turn the wall valve off and connect the supply flex hose to the valve on the tub deck. These steps need to be done for both the hot and cold lines.

CAUTION... BE SURE TO FLUSH SUPPLY LINES PRIOR TO HOOKUP. RELEASED DEBRIS AND SEDIMENT IN LINES CAN DAMAGE OR CLOG THE CERAMIC CARTRIDGES IN THE VALVES AND DIVERTER AND CAN DAMAGE THE HAND SHOWER.

5. Connect the drain to the p-trap located in the floor according to local plumbing codes.
6. Now test both the faucets and the drain function checking for any leaks at any of the plumbing connections. It is the responsibility of the contractor/installer to make sure all plumbing connections are water tight.

4. Electrical Connection (if so equipped)

All electrical work should be done by a qualified licensed electrician. Bliss Tub systems come with standard three-prong NEMA plugs and are not manufacturer approved for hardwiring to a junction box. Hardwiring of any kind or tampering with the integrated electrical systems will void the warranty. Plug in each of the electrical systems to a dedicated GFCI (Ground Fault Circuit Interrupter) three-prong outlet. All systems require 110 V, 60 HZ cycle and vary in their amperage draw.

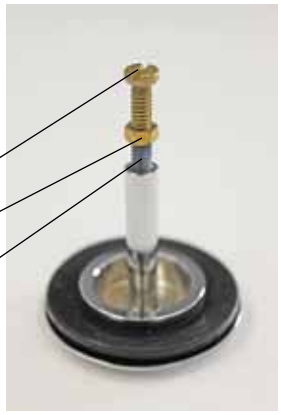
Air Blower – 9.5 amps	Chromatherapy – .055 amps
Hydro Pump – 9.4 amps	Aromatherapy – .05 amps
Tee-heater – 12.5 amps	Ozone system – .05 amps

WARNING... BE SURE NOT TO OVERLOAD THE CIRCUIT BY PLUGGING IN TOO MUCH AMPERAGE DEMAND WHICH COULD RESULT IN TRIPPED GFCI OUTLETS, TRIPPED BREAKERS, OR FIRE. FOR EXAMPLE, IF A 12 GAUGE WIRE IS RUN TO A 20 AMP BREAKER FOR THE 2 GANG GFCI OUTLET AND BOTH THE TEE-HEATER AND THE HYDRO PUMP ARE PLUGGED INTO THAT OUTLET, YOU WOULD BE DRAWING 21.9 AMPS (HEATER 12.5 AMPS + PUMP 9.4 AMPS = 21.9 AMPS) ON A 20 AMP CIRCUIT. IN THIS CASE, YOU WOULD NEED TO RUN A SECOND CIRCUIT. **MAKE SURE ALL ELECTRICAL CIRCUITS AND CONNECTIONS (IF APPLICABLE) ARE SET UP TO LOCAL CODES. FOR MORE INFORMATION ON ELECTRICAL SYSTEMS SEE APPENDIX D (PAGE 32).**

5. Test

Now that the tub is in place and everything is hooked up, run the tub and test all the features before installing the surround and extension kit.

1. Clean the door seal and jamb of any dust or debris by wiping with a soft cloth and shut the door.
2. Check the function and flow from the hot and cold valves making sure they turn freely without rubbing on the tub deck or the bell housing. Tighten as necessary.
3. Test the function of the diverter and make sure there are no leaks from the handspray and flex hose connection.
4. Look underneath the tub deck and make sure there are no leaks from any of the plumbing.
5. Test the function and feel of the drain hand control. If it is tough to turn or sounds like its grinding it may need to be adjusted.
6. Make sure the stopper holds water when in the down position and pops up as high as possible to allow for the fastest drain time. The screw height in the bottom of the stopper needs to be adjusted for each tub and the locking nut MUST be tightened after correct height is determined.



WARNING... FAILURE TO LOCK THE NUT ON THE DRAIN STOPPER COULD RESULT IN DRAIN FAILURE AND ENTRAPMENT OF TUB USER. IF STOPPER DOES NOT RESPOND TO HAND DIAL, THE STOPPER CAN BE LIFTED OUT BY HAND AT ANY TIME.

7. Once the drain is working properly, fill the tub with water to above the highest water jet (if equipped).
8. As the tub is filling, continually check the door seal and all the plumbing for any leaks.
9. Once the tub is filled, test the systems and all their functions. Check all integral and non-integral piping for leaks while the systems are operating. See Appendix D (page 32) for details on the operation of each system.
10. Drain the tub and make sure the stopper stays up until the tub is completely drained. Continue to check for leaks as you drain the tub. Pay special attention to the waste plumbing connections as the tub is draining.
11. If the tub is equipped with an air system, there will be a blinking light on the control head after the water drains signifying the 20 minute timer is activated. In 20 minutes the air system will turn itself on for one minute to purge the lines of any moisture and will turn itself off at the end of one minute.

FINISHING WORK

1. Extension Panel Finish

Add some construction adhesive (i.e. Loctite Power Grab, Liquid Nails or comparable adhesive) between the joining surfaces in addition to the screws/bolts for added strength. Please note that in most situations, the extension panel kit can be disregarded in favor of a tiled or otherwise finished shelf (if applicable). Always ensure a proper moisture barrier in compliance with state and local codes.

2. Surround Installation

There are many different surround options available and in every case Bliss Tubs recommends that the proper moisture barrier be installed in compliance with state and local codes.

3. Trim

PVC trim molding can be used around the edges of the tub to help hide any aesthetic gaps and create a clean, finished look. This is also useful if the walls are not straight or they are needed to hide a flange going against existing tile. It is recommended that a piece of base molding be installed across the front bottom edge of the tub to hide the gap and to seal out any moisture from getting under the tub. We recommend PVC molding because it is waterproof and resistant to rot and mold. An example of this is shown on the next page. It is the installer's responsibility to make sure all seams are water tight.

4. Final Seal

Seal all the seams with a silicone caulking. This includes the joint between the extension panel and the tub, between the extension panel and the wall, and around any PVC molding that may be installed. Be sure to use a high quality 100% silicone caulking designed for wet areas that has an adequate amount of flex to it once it is fully cured. Do this final step while the tub is full of water in case there is any settling of the tub from the weight of the water. That way the silicone caulking joints will be compressed when the tub is empty instead of pulling apart when tub is filled.

WARNING... FINAL SILICONE SEAL SHOULD BE APPLIED WHEN THE TUB IS FULL OF WATER TO PREVENT SEPARATION FROM THE SURROUND SHOULD THE TUB SHELL FLEX DURING USE.

Clean up

Before showing the customer the final product, it is good practice to clean up any mess and remove all tools and equipment from the bathroom. Doing so will increase the "wow factor" and their overall confidence in the installation.

Functional review with customer

We highly recommend going over all the tubs functions with the customer once everything has been installed. This will avoid any confusion in the future possibly causing extra visits to the customer's home. It will also ensure they receive the maximum benefit from their new tub.

Show the tub owner how to open the access panels using the suction cup included in their welcome box from Bliss (seen to the right). Instruct them how to reset the GFCI outlet and show them the labeled dedicated breakers in the sub-panel. Show them how to work the door, having them get in and sit down to get used to their new tub. Fill the tub and show them how to use the control head(s) (if so equipped). Let them know that as a safety precaution the drain stopper is designed to be lifted out by hand at any time so that they will never be stuck inside a full tub. If equipped, explain the purge cycle of the air system and how the ozone system works and when it comes on. Explain the proper care and maintenance of the tub explained in detail in Appendix E (page 36). The best time to familiarize your customer with their new tub is immediately after installation and in person.

Welcome Box

Final Checklist

Bliss Tubs has included in the tub a convenient final checklist. It should be used as a final punch list to walk through with the customer and have them sign off on it to keep for your records. You may also simply use it for your own reference.

Warranty Card & Voluntary Testimonial

Instruct the customer to fill out the warranty card located on page 1 (one) of the Operating Manual and mail it to Bliss Tubs in order to activate their warranty and prove ownership of the tub. The Operating Manual is located in the Customer Welcome Box. Encourage them to complete and return the Voluntary Testimonial form as well.

If any questions or concerns arise during or after installation please refer to the troubleshooting guide in Appendix F (page 38) before contacting Bliss Tubs technical support at (800) 398-9639 or support@blisstubs.com.

Bliss Tubs acknowledges that no matter how stellar the quality of our product is, the installation of the product still plays a paramount role in the satisfaction of the customer. We appreciate the hard and honest work of each and every installer of our tubs.

Bliss Tubs thanks you for your purchase and for another installation well done! We hope this information was helpful in making your installation process a smooth one and look forward to more with you in the future.

BLISS TUBS LIMITED TEN YEAR WARRANTY

Limited Warranty for Original Purchaser for Household Usage

To activate warranty, the product registration card must be mailed to:
Bliss Tubs, 1274 East Cypress Street, Covina, CA 91724.

For as long as the original end-user purchaser owns the product, Bliss Tubs provides the following limited ten (10) year limited warranty provided that such product has been installed by a licensed contractor, has remained in its original home installation, and has been used only for personal household use.

The bathtub shell, frame, finish and door seal are warranted to be free from defects in workmanship and material under normal use and normal conditions for ten (10) years from the date of purchase by the end-user purchaser. The finish warranty does not apply to fading, cracking, delaminating or blistering due to excessive wear, sun fading, scouring due to cleaning, or excessive weight load on the shell. The warranty for the door seal shall not apply to any failure resulting from improper installation, negligence, abuse, misuse, misapplication, alteration or modification or improper maintenance. All supporting equipment, motors, electronic controls, faucet, waste and overflow, and all plated finishes are covered by a limited two (2) year warranty. Pump and faucet seals are not included in this warranty; however, these components are warranted to be free from defects in material and workmanship at the time of delivery to the original end-user purchaser.

Bliss Tubs will not be responsible for any water damage to structures or property for any reason including but not limited to manufacturer defects or improper installation. Bliss Tubs will assume no responsibility for the loss of the system, inconvenience due to loss, damage to real or personal property or any other consequential damage. Bliss Tubs will not be liable for any incidental expenses or material charges in connection with removal or replacement of the purchased part or any part or parts of the system.

Bliss walk-in bathtubs are designed for residential use. If installed and/or used for commercial or institutional purposes, the ten-year and two-year limited warranties, as detailed above, are amended to one-year and three-months, respectively. Showroom models are intended for non-operative display purposes only, are not authorized for resale, and are not covered by any warranty.

This warranty does not apply to any type of failure resulting from negligence, abuse, misuse, misapplication, improper installation, alteration or modification, chemical corrosion or improper maintenance.

Bliss Tubs does not warrant the installation of any of its products, including plumbing and electrical connections, improper or negligent installation of the product and components, and alterations or modifications of the product that may cause the product to malfunction.

TO THE EXTENT PERMITTED BY LAW, ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. BLISS TUBS AND SELLER HEREBY DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations as to how long a limited warranty lasts, or the exclusion or limitation of special, incidental or consequential damages, so the above limitations and exclusions may not apply for some purchasers.

This is the only warranty expressed or implied by Bliss Tubs. This warranty may not be extended or modified by our agents or representatives. Our agents and representatives are not authorized to make any oral warranty that is inconsistent with the terms of this Limited Warranty.

For Customer Service: Call 800.398.9639 or email support@blisstubs.com
Monday-Friday 7am-4pm Pacific Time

Bliss Tub Models Dimensions Comparison

	Tub Width	Tub Length	Tub Height	Extension Kit Length	Doorway Threshold	Doorway Width at Top	Doorway Width in middle	Seat Width	Seat Length	Well Width	Well Length from Seat	Water Depth from Seat	Seat Height	Top Diagonal Dimension	End Panel Available?	Gallons of Water for 120 lb Occupant	Gallons of Water for 200 lb Occupant	Gallons of Water for 250 lb Occupant
Standard Models																		
2651	26	51	36	9	6 1/4	16	13	17 1/2	14	17	23 1/4	11 1/2	17	57 1/8	Y	46	42	39
2653	26	52 1/2	36	7 1/2	6 1/4	16	13	17 1/2	14	17	23	11 1/2	17	58 1/4	Y	46	42	39
3052	29 1/2	51 1/2	40	8 1/2	6 1/4	18	15	20 1/2	13	20 3/4	25 3/8	15	17	59 5/8	Y	58	53	50
3054	29 1/2	54	38	6	6 1/4	18	15	20 1/2	14	20 3/4	25 3/4	13 1/2	17	61 5/8	Y	60	55	52
3150	31 1/4	50	36	10	6 1/4	15 3/4	13	22	13	24 3/4	21 1/4	11 1/2	17	58 3/4	Y	53	48	45
3153	31 1/4	53	36	7	6	18	15	22	13	24 3/4	25	11 1/2	17	61 1/2	N	56	51	45
Specialty Tub Models																		
2645	26	45	39 1/2	15	6 1/2	17 1/2	15	17 1/2	12 1/2	17	21	13 1/2	17	52 3/8	N	45	41	38
2848	28 1/4	47 1/2	40	12	6 3/4	19 1/8	14	20	12	19 3/4	24	16	17 1/8	55 1/8	Y	57	52	49
2851	28	51	41	9	5 1/4	18	15	19 1/2	12 3/4	19 1/2	25 1/4	17	16 1/2	58 1/4	Y	61	56	53
2948	28 3/4	47 7/8	40 1/4	11 3/4	6	19 1/4	14	19 1/2	12	19	23 7/8	13 1/8	17	56 1/4	Y	50	44	39
3048	29 1/8	48	38 1/4	11 7/8	6 1/2	16	14	19 1/2	12 3/4	20 1/2	23 1/2	13 1/4	17	56 5/8	Y	50	44	39
305546	29 1/2	55	46	5	6 3/4	18	15	21	13	20 3/4	25 3/4	21 1/2	17	62 1/2	Y	100	95	90
315546	31	55	45 3/4	5	6	18	15	22	13	22	25 1/2	21 1/2	17	63	N	100	95	90
3237	31 1/2	37 1/2	38 1/2	N/A	6 1/2	24	20	22	11	24	17	14 1/2	17	49	Y	46	42	39
3052HC	29 3/4	52	40 1/4	8	7	30	18	22	15	20	22 3/4	13	17	60	Y	63	58	55
3252HC	31 3/4	51 1/2	40 1/4	8 1/2	7	34 1/2	17	23	15	20	22 1/2	12	17	60 1/2	Y	65	60	57
3060	29 3/4	59 1/2	37 1/4	N/A	5	18	15	20 1/2	13	21 1/2	25	12 3/4	17	66 1/2	N	56	51	48
3260	32	59 3/4	36	N/A	6	17 5/8	15	21	14	19 1/2	28	11 1/2	17	68	N	71	66	60
3355	33 3/8	54 3/4	40	5 1/4	5 3/4	23 1/2	14 1/2	24 1/2	15 1/4	24 1/2	26 1/2	17	15 3/4	64	Y	(250) 70	(300) 67	(350) 64
3555	35 5/8	55	40 1/4	5	5 1/2	23 1/2	17	27	16	28 1/2	27	16	15	65	Y	(300) 72	(350) 67	(400) 62
306022	29 1/2	60	22 1/4	N/A	6	18	17	N/A	N/A	N/A	N/A	N/A	N/A	66 1/2	N	44	40	38

Sizing Guide (simplistic)

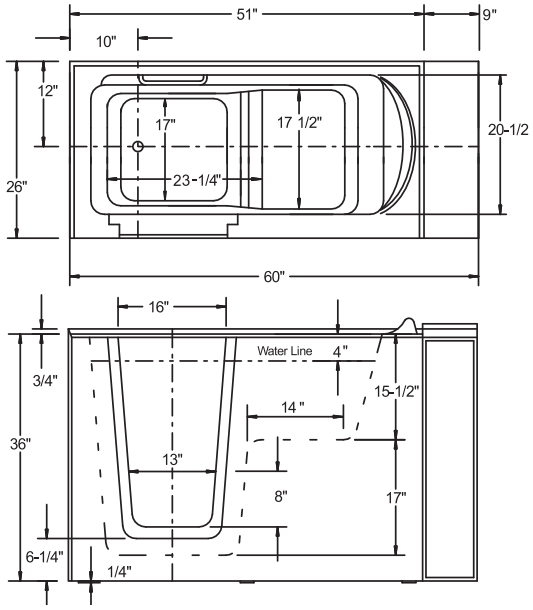
Weight of Customer
Under 150 lbs: 26 inch wide tub should work for most users
Under 250 lbs: 28 inch and 30 inch wide tubs should work for most users
Under 300 lbs: 3153 and 3260 should work for most users
Under 350 lbs: 3355 should work for most users
Under 400 lbs: 3555 should work except that door width and shape may not work

Note: It is always best to double check by
1) measuring a chair that the customer sits in, and
2) demonstrating the door width to the prospective customer.

Tubs to consider when bathroom width is 60 inches or less
and you will need to turn the tub 90 degrees after you bring into bathroom:
26 inch tubs; 28 inch tubs; 2948; 3048; and 3150

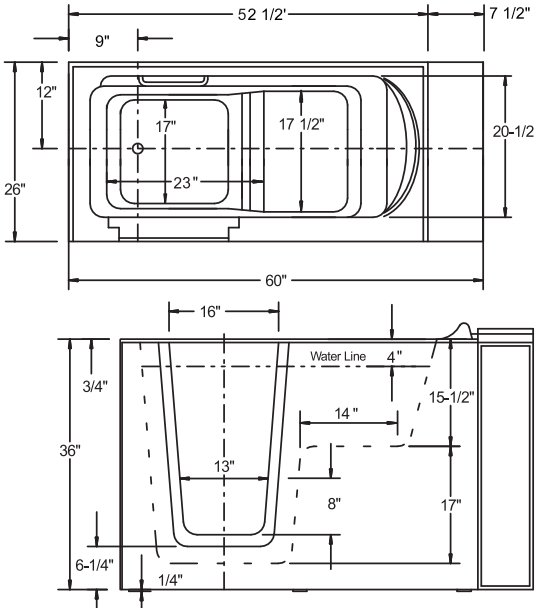
Note: 3052HC, 3252HC and 3237 have outward opening doors.
306022 can have air massage only (no hydro)

B2651



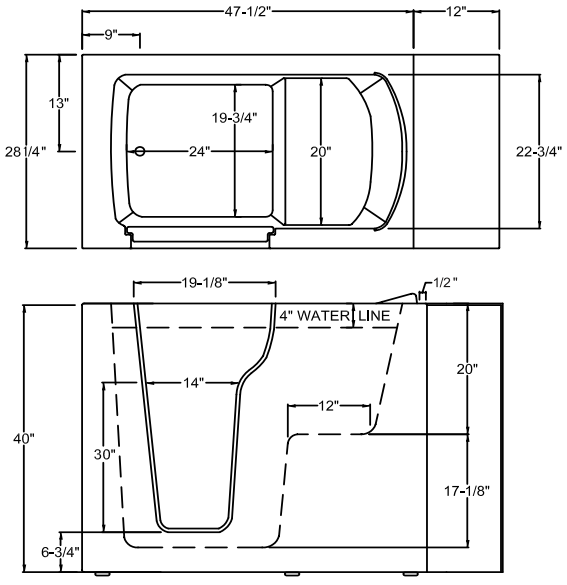
Top Diagonal Dimension: 57⅛”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	46gal.	42gal.	39gal.

B2653



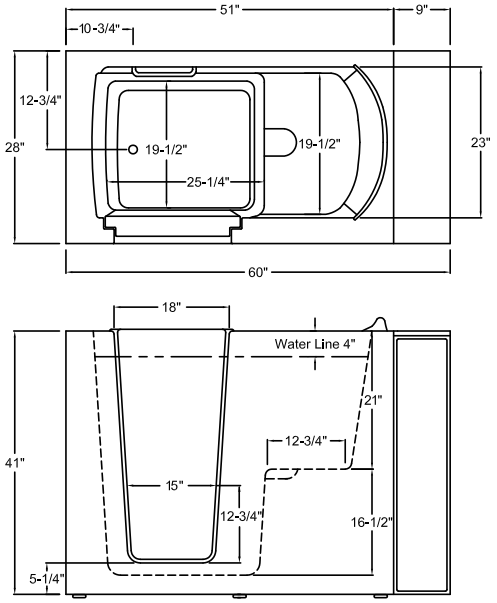
Top Diagonal Dimension: 58¼”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	46gal.	42gal.	39gal.

B2848



Top Diagonal Dimension: 55⅛”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	57gal.	52gal.	49gal.

B2851

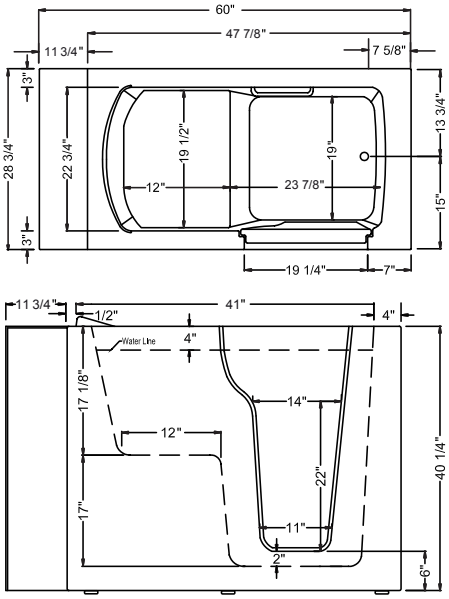


Top Diagonal Dimension: 58¼”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	61gal.	56gal.	53gal.

Note: Model dimensions are calculated as closely as possible, but as with any handmade product, can vary slightly from those shown. Please take tile flanges carefully into consideration.

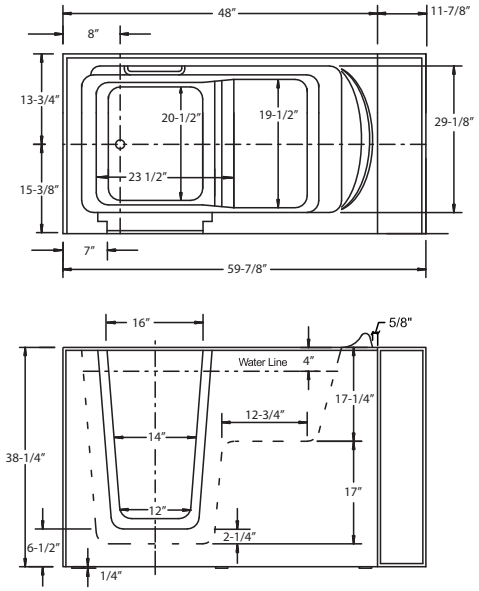
SAVE THESE INSTRUCTIONS

B2948



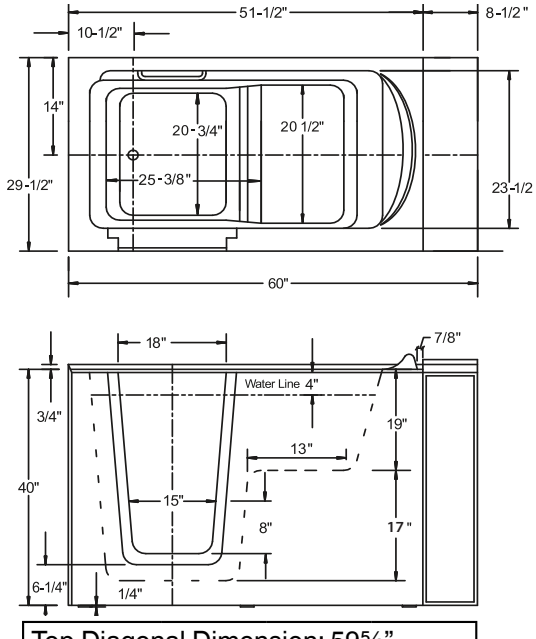
Top Diagonal Dimension: 56¼”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	50gal.	44gal.	39gal.

B3048



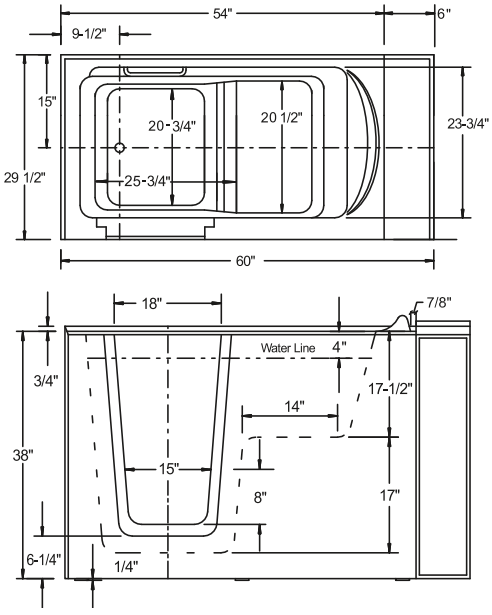
Top Diagonal Dimension: 56⅝”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	50gal.	44gal.	39gal.

B3052



Top Diagonal Dimension: 59⅝”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	58gal.	53gal.	50gal.

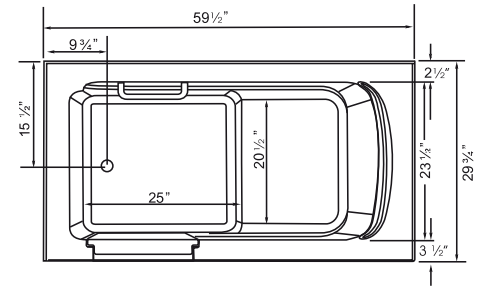
B3054

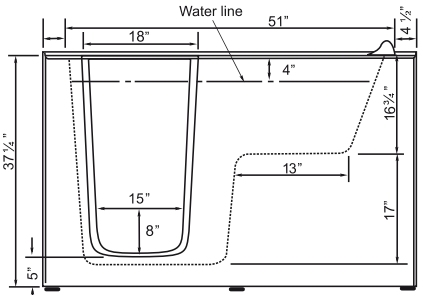


Top Diagonal Dimension: 61⅝”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	60gal.	55gal.	52gal.

Note: Model dimensions are calculated as closely as possible, but as with any handmade product, can vary slightly from those shown. Please take tile flanges carefully into consideration.

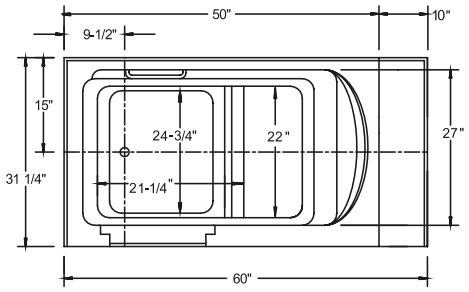
B3060

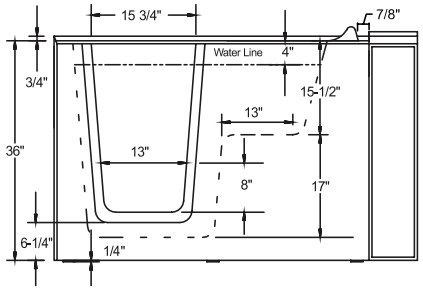




Top Diagonal Dimension: 66½"			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	56gal.	51gal.	48gal.

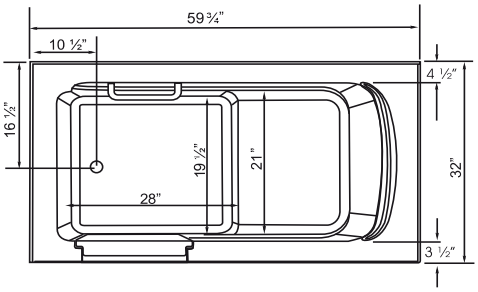
B3150

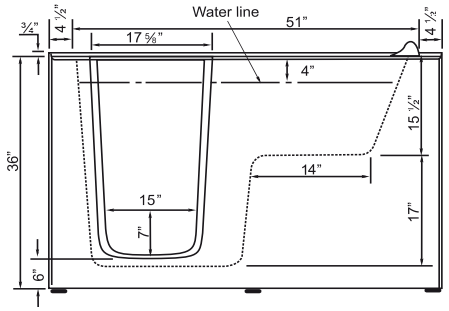




Top Diagonal Dimension: 58¾"			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	53gal.	48gal.	45gal.

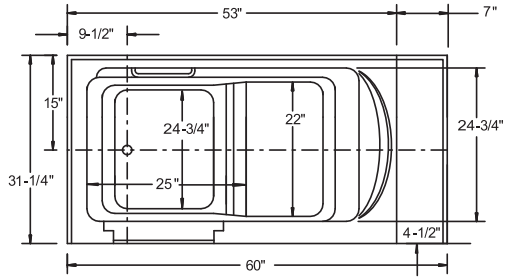
B3260

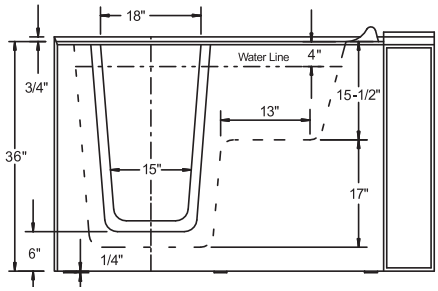




Top Diagonal Dimension: 68"			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	71gal.	66gal.	60gal.

B3153



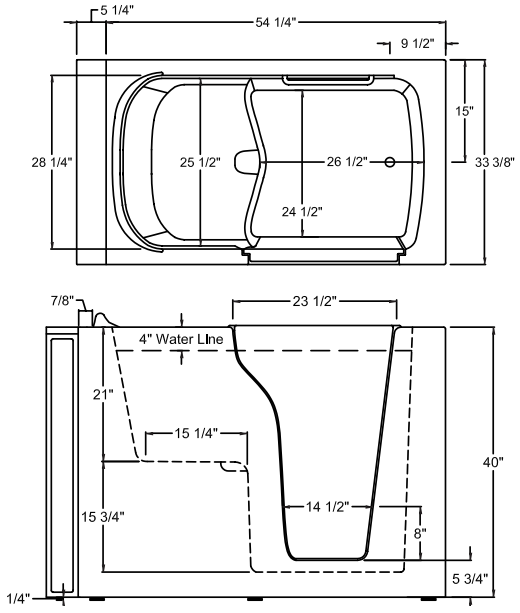


Top Diagonal Dimension: 61½"			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	56gal.	51gal.	45gal.

Note: Model dimensions are calculated as closely as possible, but as with any handmade product, can vary slightly from those shown. Please take tile flanges carefully into consideration.

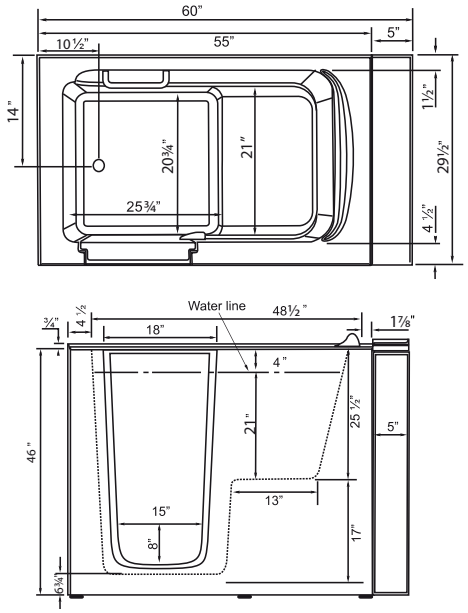
SAVE THESE INSTRUCTIONS

B3355



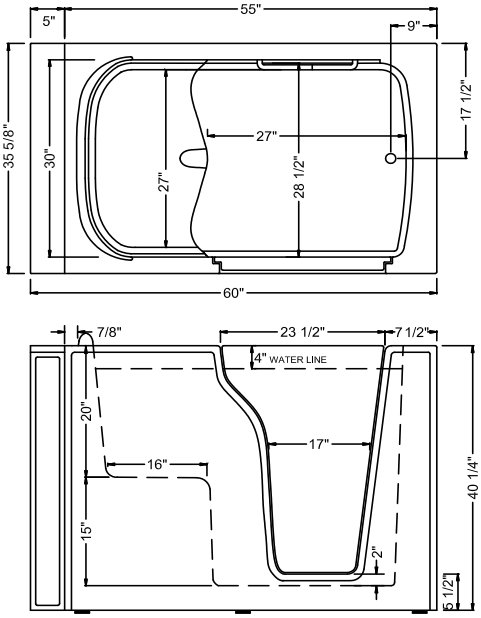
Top Diagonal Dimension: 63¾”			
Water Needed to Fill Tub:			
Occupant:	250lbs.	300lbs.	350lbs.
Gallons:	70gal.	67gal.	64gal.

B305546



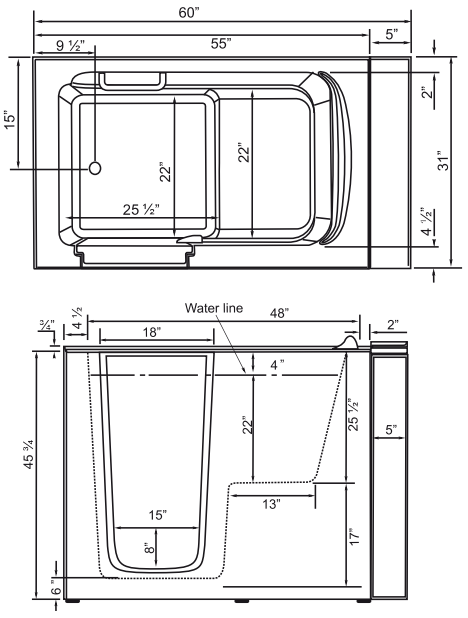
Top Diagonal Dimension: 62½”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	100gal.	95gal.	90gal.

B3555



Top Diagonal Dimension: 65”			
Water Needed to Fill Tub:			
Occupant:	300lbs.	350lbs.	400lbs.
Gallons:	72gal.	67gal.	62gal.

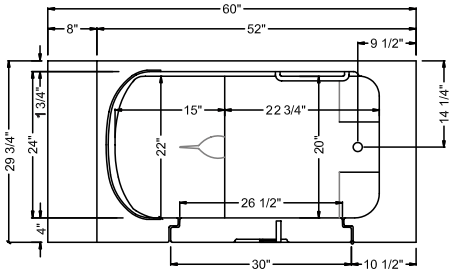
B315546

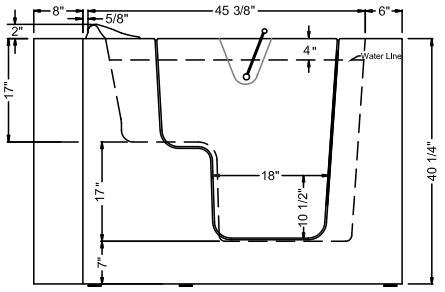


Top Diagonal Dimension: 63”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	100gal.	95gal.	90gal.

Note: Model dimensions are calculated as closely as possible, but as with any handmade product, can vary slightly from those shown. Please take tile flanges carefully into consideration.

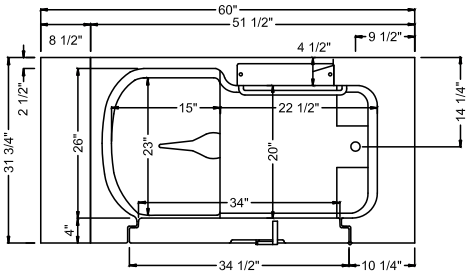
B3052HC

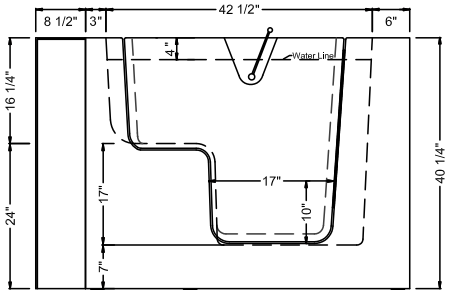




Top Diagonal Dimension: 60”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	63gal.	58gal.	55gal.

B3252HC



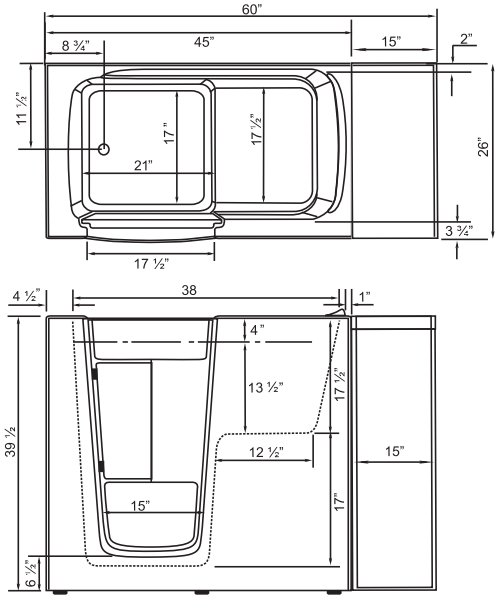


Top Diagonal Dimension: 60½”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	65gal.	60gal.	57gal.

Note: Model dimensions are calculated as closely as possible, but as with any handmade product, can vary slightly from those shown. Please take tile flanges carefully into consideration.

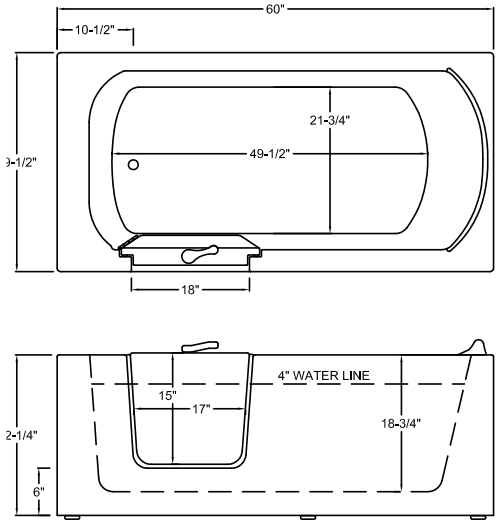
SAVE THESE INSTRUCTIONS

B2645



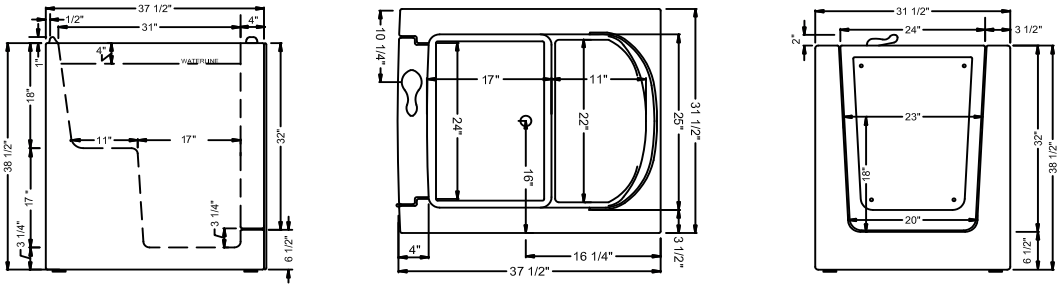
Top Diagonal Dimension: 52⅜”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	45gal.	41gal.	38gal.

B306022



Top Diagonal Dimension: 66½”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	44gal.	40gal.	38gal.

B3237



Top Diagonal Dimension: 49”			
Water Needed to Fill Tub:			
Occupant:	120lbs.	200lbs.	250lbs.
Gallons:	46gal.	42gal.	39gal.

Note: Model dimensions are calculated as closely as possible, but as with any handmade product, can vary slightly from those shown. Please take tile flanges carefully into consideration.

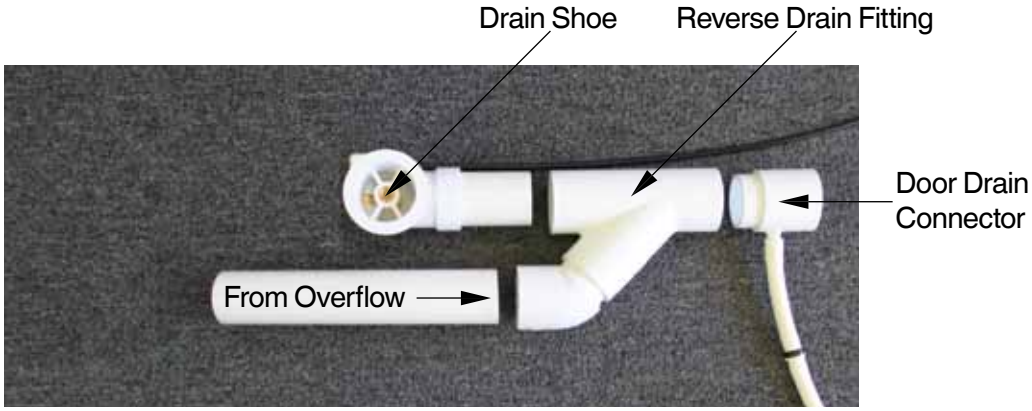
REVERSE DRAIN INSTALLATION INSTRUCTIONS

All plumbing work should be done by a licensed professional contractor. Bliss Tubs does not warranty any part of the installation and is not responsible for any damages due to improper installation. It is the installer's responsibility to ensure that the installation will conform to all applicable state and local codes.

These instructions describe what to do when the existing drain location is on the opposite side than the drain location on the new walk-in bathtub.

Photo: view of reverse drain plumbing separate from bathtub.

1. Install drain shoe piece from the Bath Waste & Overflow kit with the outlet facing the seat of the tub.
2. Connect the "reverse drain fitting" to the drain shoe using a small piece of 1½" PVC. NOTE: The "reverse drain fitting" consists of a 1½" PVC wye-tee connected to a 1½" PVC street 45 degree ell fitting and is included with the tub on request.

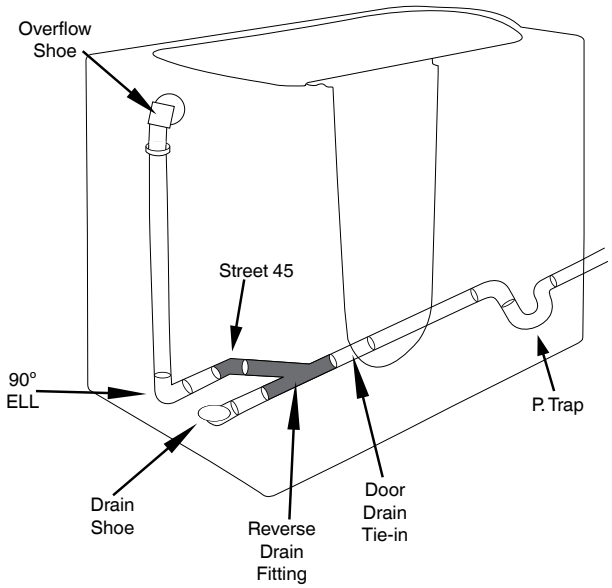


3. The output of the reverse drain fitting is connected to the door drain connector and then a section of 1½" PVC pipe that will lead back to the p-trap which should be located somewhere underneath the seat section of the tub.

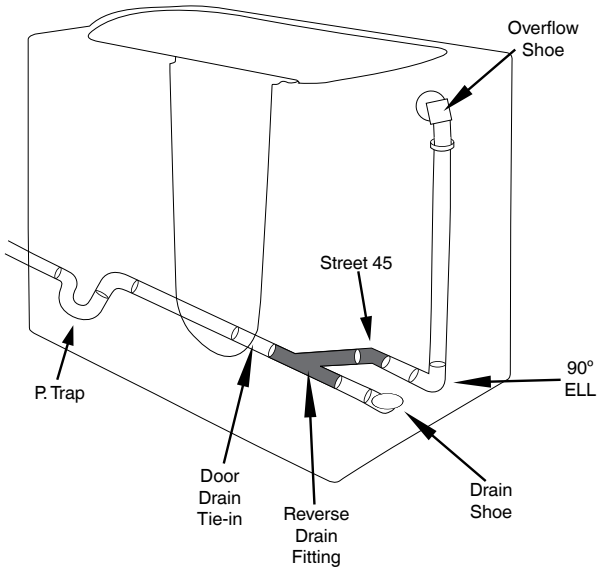
4. The street 45 ell section of the “reverse drain fitting” should be pointing towards the faucet section of the tub. The inlet of the street 45 should be connected to another section of 1½” PVC pipe leading to the faucet end of the tub. The end of this section of pipe will be connected to a 90 degree elbow (not included) and then to the down pipe of the overflow shoe.

Photo: Reverse Drain Plumbing Installed

LEFT HAND EXAMPLE



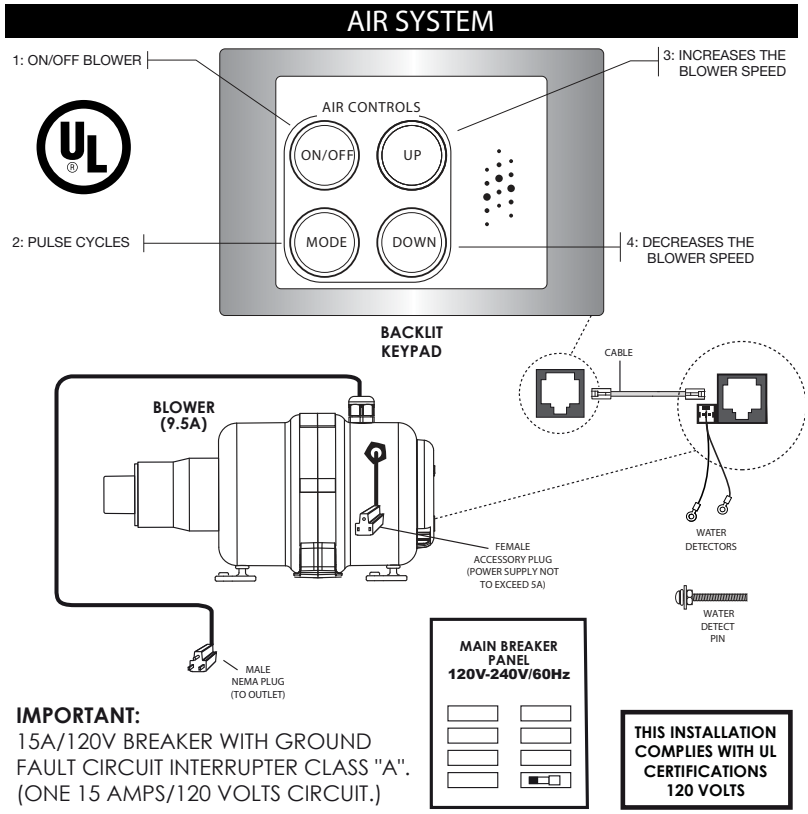
RIGHT HAND EXAMPLE



SAVE THESE INSTRUCTIONS

AIR SYSTEM

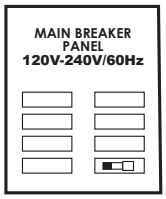
KEYPAD FUNCTIONS	LED
1: ON/OFF BLOWER 1st Press: The blower starts 2nd Press: The blower stops	 ON OFF
2: PULSE CYCLES 1st Press: Wave - Speed will vary gradually from maximum to minimum. 2nd Press: Pulse - Speed will go directly to minimum and then straight back to maximum. 3rd Press: Returns to maximum speed.	 FAST BLINK SLOW BLINK ON
3: INCREASES THE BLOWER SPEED Press and hold to increase the blower speed. Release pressure at the desired speed	ON (WHEN PRESSED)
4: DECREASES THE BLOWER SPEED Press and hold to decrease the blower speed. Release pressure at the desired speed.	ON (WHEN PRESSED)
AUTOMATIC FUNCTIONS	
DRYING CYCLE WITH WATER DETECTORS The drying cycle will activate 20 minutes after the bathtub is emptied even if the system was not used. The blower LED blinks while waiting for the purge cycle.	
DELAYED DRYING CYCLE While the 1 minute drying cycle is activated, if you press the ON/OFF button during the drying cycle, it will stop and will restart it 20 minute later. You can delay the drying cycle as many times as you want.	
INTEGRATED 20 MINUTES AUTOMATIC TIMER Integrated 20 minute automatic shut off timer on the system.	



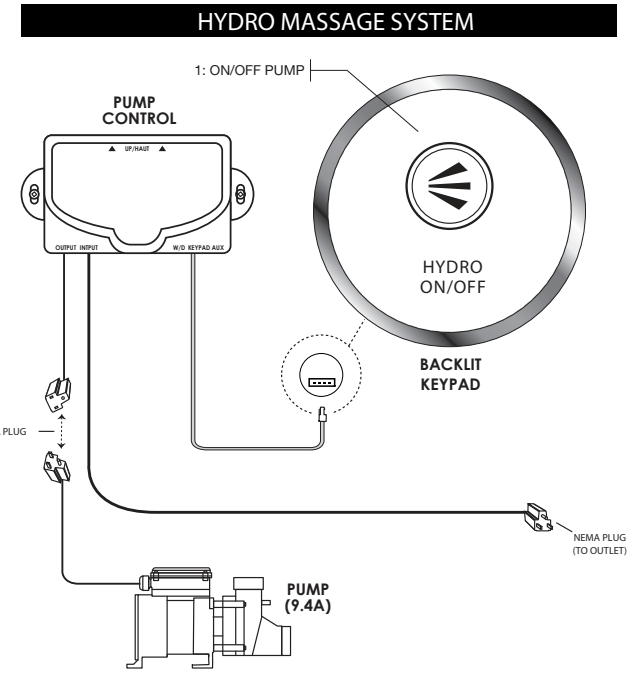
IMPORTANT:
15A/120V BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER CLASS "A". (ONE 15 AMPS/120 VOLTS CIRCUIT.)

HYDRO SYSTEM

KEYPAD FUNCTIONS	LED
1: ON/OFF PUMP 1st Press: The pump starts 2nd Press: The pump stops	 ON OFF
AUTOMATIC FUNCTIONS	
INTEGRATED 20 MINUTE AUTOMATIC TIMER Integrated 20 minute automatic shut off timer on the system	



THIS INSTALLATION COMPLIES WITH UL CERTIFICATIONS 120 VOLTS



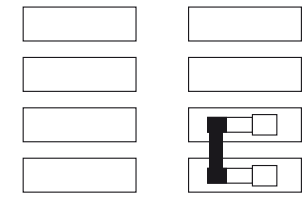
IMPORTANT:
15A/120V BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER CLASS "A". (ONE 15 AMPS/120 VOLTS CIRCUIT.)

SAVE THESE INSTRUCTIONS

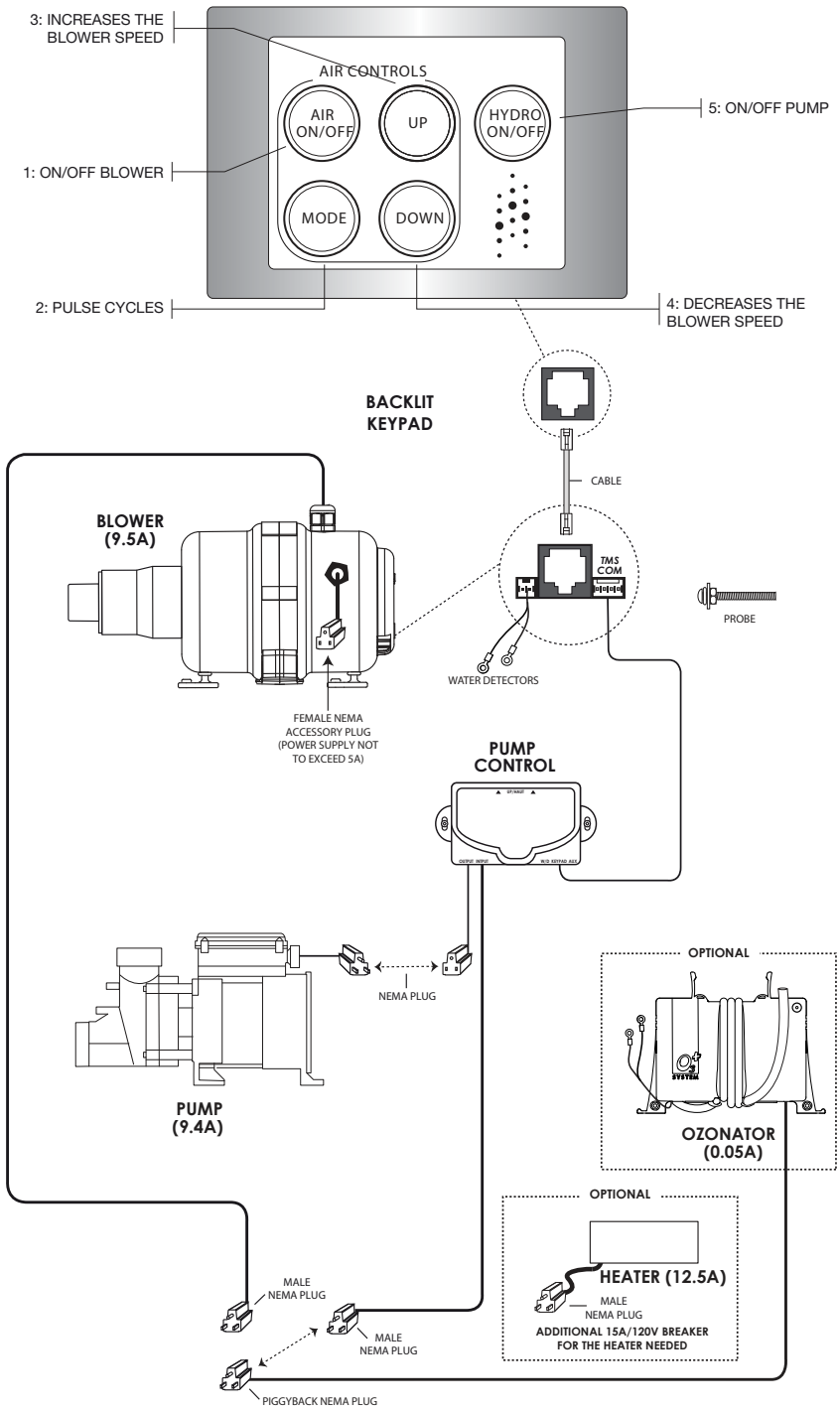
KEYPAD FUNCTIONS	LED
1: ON/OFF BLOWER 1st Press: The blower starts 2nd Press: The blower stops	ON OFF
2: PULSE CYCLES 1st Press: Wave - Speed will vary gradually from maximum to minimum. 2nd Press: Pulse - Speed will go directly to minimum and then straight back to maximum. 3rd Press: Returns to maximum speed.	FAST BLINK SLOW BLINK ON
3: INCREASES THE BLOWER SPEED Press and hold to increase the blower speed. Release pressure at the desired speed	ON (WHEN PRESSED)
4: DECREASES THE BLOWER SPEED Press and hold to decrease the blower speed. Release pressure at the desired speed.	ON (WHEN PRESSED)
5: ON/OFF PUMP 1st Press: The pump starts. 2nd Press: The pump stops.	ON OFF

AUTOMATIC FUNCTIONS
DRYING CYCLE WITH WATER DETECTORS The drying cycle will activate 20 minutes after the bathtub is emptied even if the system was not used. The blower LED blinks while waiting for the purge cycle.
DELAYED DRYING CYCLE While the 1 minute drying cycle is activated, if you press the ON/OFF button during the drying cycle, it will stop and will restart it 20 minute later. You can delay the drying cycle as many times as you want.
INTEGRATED 20 MINUTE AUTOMATIC TIMER Integrated 20 minute automatic shut off timer on the complete system. Count down starts when the blower starts.

MAIN BREAKER PANEL
120V-240V/60Hz



DUAL MASSAGE SYSTEM



IMPORTANT:
15A/120V DOUBLE POLE BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER CLASS "A".
(TWO 15AMPS/120VOLTS CIRCUIT).

THIS INSTALLATION COMPLIES WITH UL CERTIFICATIONS 120 VOLTS

SAVE THESE INSTRUCTIONS

AROMATHERAPY

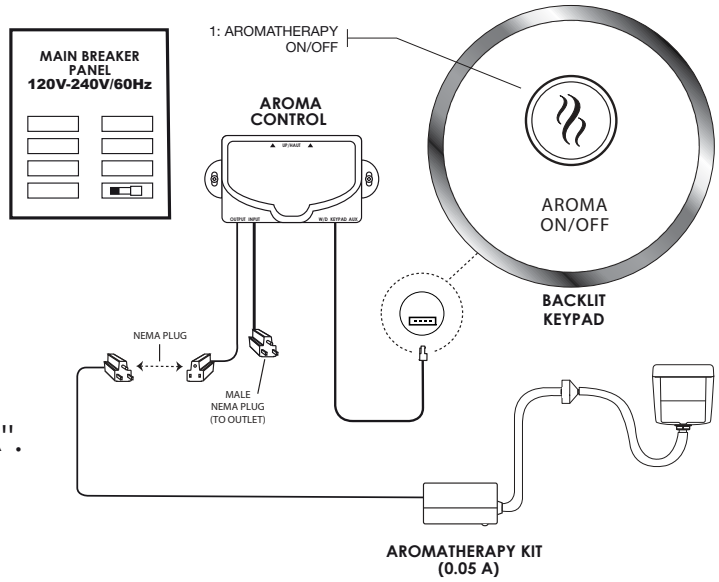
KEYPAD FUNCTIONS
1: AROMATHERAPY 1st Press: The aromatherapy starts 2nd Press: The aromatherapy stops
AUTOMATIC FUNCTIONS
INTEGRATED 20 MINUTE AUTOMATIC TIMER Integrated 20 minute automatic shut off timer on the system.

THIS INSTALLATION COMPLIES WITH UL CERTIFICATIONS 120 VOLTS

IMPORTANT:
15A/120V BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER CLASS "A". (ONE 15 AMPS/120VOLTS CIRCUIT.)

NOTE: Generally, the aromatherapy system can share a circuit with a component with a larger amperage draw (i.e. blower, pump or heater)

AROMATHERAPY SYSTEM

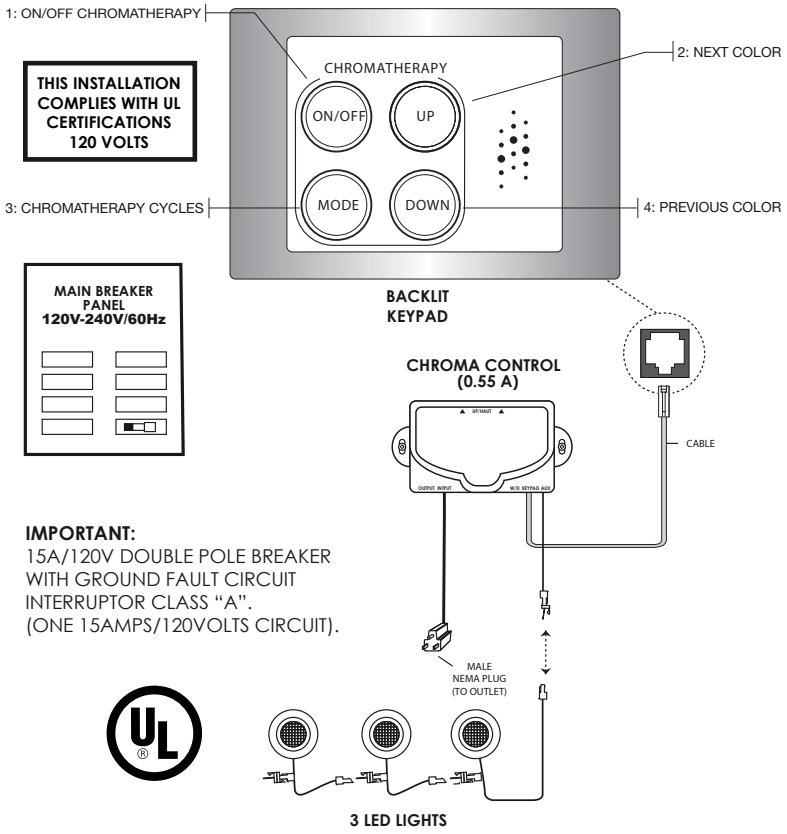


CHROMATHERAPY

KEYPAD FUNCTIONS	LED
1: ON/OFF CHROMATHERAPY 1st Press: Starts the Chromatherapy in white. White is only available when the system starts. 2nd Press: Chromatherapy stops	ON OFF
2: NEXT COLOR Press: Press to proceed to the next color. On Rainbow cycle: increases the speed	ON (WHEN PRESSED)
3: PREVIOUS COLOR Press: Press to return to the previous color. On Rainbow cycle: decreases the speed	ON (WHEN PRESSED)
4: CHROMATHERAPY CYCLE 1st Press: Rainbow cycle starts. 2nd Press: Rainbow cycle stops. While in Rainbow cycle, the next and previous buttons, increase or decrease the cycle speed	ON OFF
COLORS SEQUENCE Turquoise - Blue - Magenta - Red - Orange - Yellow - Green	
AUTOMATIC FUNCTIONS	
INTEGRATED 20 MINUTE AUTOMATIC TIMER Integrated 20 minute automatic shut off timer on the system.	

NOTE: Generally, the chromatherapy system can share a circuit with a component with a larger amperage draw (i.e. blower, pump or heater)

CHROMATHERAPY SYSTEM



SAVE THESE INSTRUCTIONS

SYSTEMS INCLUDED	AIR	WATER	HEATER	OZONE	AROMA	CHROMA	TOTAL ELECTRICAL DRAW (MAX AMPERAGE)	CIRCUITS (IN AMPS) RECOMMENDED	OUTLETS REQUIRED
Air system only	9.5						9.5	**1 x 15**	**1**
Air + ozone	9.5			0.05			9.55	**1 x 15**	**1**
Air + aroma	9.5				0.05		9.55	**1 x 15**	**1**
Air + chroma	9.5					0.55	10.05	**1 x 15**	**1**
Air + ozone + aroma	9.5			0.05	0.05		9.6	**1 x 15**	**1**
Air + ozone + chroma	9.5			0.05		0.55	10.1	**1 x 15**	**1**
Air + aroma + chroma	9.5				0.05	0.55	10.1	**1 x 15**	**2**
Air + ozone + aroma + chroma	9.5			0.05	0.05	0.55	10.15	**1 x 15**	**2**
Water system only		9.4					9.4	**1 x 15**	**1**
Water + heater		9.4	12.5				21.9	**2 x 15**	**2**
Water + ozone		9.4		0.05			9.45	**1 x 15**	**1**
Water + aroma		9.4			0.05		9.45	**1 x 15**	**2**
Water + chroma		9.4				0.55	9.95	**1 x 15**	**2**
Water + heater + ozone		9.4	12.5	0.05			21.95	**2 x 15**	**2**
Water + heater + aroma		9.4	12.5		0.05		21.95	**2 x 15**	**3**
Water + heater + chroma		9.4	12.5			0.55	22.45	**2 x 15**	**3**
Water + ozone + aroma		9.4		0.05	0.05		9.5	**1 x 15**	**2**
Water + ozone + chroma		9.4		0.05		0.55	10	**1 x 15**	**2**
Water + aroma + chroma		9.4			0.05	0.55	10	**1 x 15**	**3**
Water + ozone + aroma + chroma		9.4		0.05	0.05	0.55	10.05	**1 x 15**	**3**
Water + heater + aroma + chroma		9.4	12.5		0.05	0.55	22.5	**2 x 15**	**4**
Water + heater + ozone + aroma		9.4	12.5	0.05	0.05		22	**2 x 15**	**3**
Water + heater + ozone + chroma		9.4	12.5	0.05		0.55	22.5	**2 x 15**	**3**
Water + heater + ozone + aroma + chroma		9.4	12.5	0.05	0.05	0.55	22.55	**2 x 15**	**4**
Dual (air & water system)	9.5	9.4					18.9	**2 x 15**	**2**
Air + Water + heater	9.5	9.4	12.5				31.4	**2 x 20**	**3**
Air + Water + ozone	9.5	9.4		0.05			18.95	**2 x 15**	**2**
Air + Water + aroma	9.5	9.4			0.05		18.95	**2 x 15**	**2**
Air + Water + chroma	9.5	9.4				0.55	19.45	**2 x 15**	**2**
Air + Water + ozone + aroma	9.5	9.4		0.05	0.05		19	**2 x 15**	**2**
Air + Water + ozone + chroma	9.5	9.4		0.05		0.55	19.5	**2 x 15**	**2**
Air + Water + aroma + chroma	9.5	9.4			0.05	0.55	19.5	**2 x 15**	**3**
Air + Water + heater + ozone	9.5	9.4	12.5	0.05			31.45	**2 x 20**	**3**
Air + Water + heater + aroma	9.5	9.4	12.5		0.05		31.45	**2 x 20**	**3**
Air + Water + heater + chroma	9.5	9.4	12.5			0.55	31.95	**2 x 20**	**3**
Air + Water + ozone + aroma + chroma	9.5	9.4		0.05	0.05	0.55	19.55	**2 x 15**	**3**
Air + Water + heater + aroma + chroma	9.5	9.4	12.5		0.05	0.55	32	**2 x 20**	**4**
Air + Water + heater + ozone + aroma	9.5	9.4	12.5	0.05	0.05		31.5	**2 x 20**	**3**
Air + Water + heater + ozone + chroma	9.5	9.4	12.5	0.05		0.55	32	**2 x 20**	**3**
Air + Water + heater + ozone + aroma + chroma	9.5	9.4	12.5	0.05	0.05	0.55	32.05	**2 x 20**	**4**
Aroma only					0.05		0.05	**1 x 10**	**1**
Chroma only						0.55	0.55	**1 x 10**	**1**
Aroma + chroma					0.05	0.55	0.6	**1 x 10**	**2**

MAINTENANCE AND CLEANING

Regular care of your walk-in tub will keep it clean and working at its best. This care should include the tub, the trim and fittings and the internal water-carrying part of the pipe system. Because of the detrimental effects that mineral deposits, soap scum and bacteria have on finished surfaces, it is important to clean your bathtub and the fixtures (fittings) on a regular basis.

CAUTION... DO NOT USE HARSH ABRASIVES OR SOLVENTS FOR CLEANING THIS UNIT.

There are no user serviceable parts. All service and repairs must be performed by a qualified service technician in accordance with all applicable local and national codes. For replacement parts contact your dealer/distributor.

1. Door

- Leave tub door open when not in use.
- Never use the door as a support when entering or exiting the the tub. This is not only dangerous but may cause the door to not seal properly.
- If the tub to be installed has an outward-swinging door, the door should be left unlatched but engaged in the door frame catch when not in use to preserve the life of the door seal.
- Wipe the door seal and jamb clean of dirt or debris to ensure a proper seal.
- Use a soft-bristled toothbrush and gentle cleaning compound or solution to remove residual buildup around or in door drain. Wipe clean with a soft cloth.

2. Maintenance Panels

- Electrical and plumbing components should be serviced by qualified service technicians only. Should maintenance be required, the tub is equipped with two easily removable access panels (one large for accessing beneath the seat and one small for accessing below the faucets). One easy-to-use suction cup is included with each tub for access panel removal. To remove the panels, place the suction cup on the top of the panel, pull outward gently to remove the upper magnets and lift the panel upwards to free the panel from the lower clips.

3. Tub Finish

- Do not use abrasive cleaners such as rough sponges, pads, steel wool, sandpaper or brushes directly on the tub finish as they will scratch the finish. If for some reason the tub finish becomes damaged, contact your dealer or installer.
- The anti-slip texture of the tub floor may cause residue to collect with use. Use a soft-bristled brush with gentle cleaning compound or solution to loosen residue. Rinse clean.
- After each use, rinse all exposed surfaces of the walk-in tub with clear warm water, then wipe off all standing water until completely dry. Once a week, wash all exposed surfaces of the bathtub with mild soap solution. Check for stubborn spots. Oily or greasy spots can be lifted with denatured alcohol. Use Lime-A-Way™ or comparable product to remove hard water stains.
- To preserve the tub finish, waxing is recommended. Regular use of a quality marine wax will maintain the finish of your walk-in tub. To maintain gel coat finish and shine, occasionally apply and buff in Gel-Gloss™ or comparable product.

4. Faucets, Handspray, Grab Bar, Drain and Overflow

- If no slide bar is installed, leave handspray in deck mount cradle when not in use. Be careful not to allow water to drip down the hole in the deck mount when the handspray is removed.

- To maintain faucet and handspray finish, dry surfaces with a clean soft cloth after each use to avoid water spots and lime and mineral deposits. Residential water quality varies widely; hard water deposits can be particularly detrimental to plated surfaces. Never use alcohol, acetone or other delaminating compounds on plated surfaces.
- To remove stubborn stains and spots from plated surfaces, use a soft cloth and vinegar as a stronger cleaning agent. Use of a fixture polish such as Gel-Gloss™ brand Faucet Brite™ or comparable cream or carnauba wax can dramatically lengthen the lifespan of plated fixtures.
- Periodically check drain for hair or other debris. Remove as needed. The stopper can be lifted out of drain assembly and replaced when clean.
- Periodically check to ensure that the drain stopper opens and closes properly.
- Use a soft-bristled toothbrush and gentle cleaning compound or solution to remove residual buildup around or in door drain. Wipe clean with a soft cloth. The door drain cap conveniently unscrews for easy access.

5. Hydro System (if so equipped)

- The pump and lines of the hydro system are designed to fully drain and require minimal user maintenance. It is recommended to run the hydro system at least once a month even if not used for bathing. This is to prevent dirt, mold and mildew from accumulating in the system.
- Once a month, purge and clean the entire system using liquid automatic dish detergent, which will remove body and bath oils, soap residue and other sources that can contribute to bacterial growth in the hydro massage system. Fill the tub with warm water covering the jets. Adding approximately 2 ounces of liquid dishwater detergent (not hand soap) turn on the hydro massage system for 15 minutes, then drain the tub. Now refill the tub with warm water and run the system for another 15 minutes to rinse out the plumbing. After the tub is fully drained, use the hand held shower to rinse out the tub and then dry with a soft cloth.
- Use a soft-bristled toothbrush and gentle cleaning compound or solution to remove residual buildup around or in water jets or suction fitting. Wipe clean with a soft cloth. Never use alcohol, acetone or other delaminating compounds on plated surfaces.
- The suction cover is designed to catch debris and prevent it from entering water lines. Therefore, occasional clearing of the suction cover may be necessary.
- Additives such as bath salts, crystals and oils can potentially harm the function of the hydro massage system and are not recommended. Pumps and other integral plumbing components damaged by occasional or frequent use of bath additives are not covered under warranty.
- Just like other standard hydromassage bathtubs, Bliss Tubs' hydro system may require more specialized cleaners to flush buildup from the water lines. The use of the following products or an equivalent cleaner is recommended twice yearly: SeaKlear™ Spa System Flush, Oh Yuk™ Jetted Tub System Cleaner, Ahh-Some™ Hot Tub/Jetted Bath Plumbing & Jet Cleaner or Cascade™ Complete Powder.

6. Air System (if so equipped)

- The blower and lines of the air system are designed to require no user maintenance. The air system includes an automatic purge cycle that clears any residual water from the lines 20 minutes after each bath. The purge cycle runs for 1 minute and then turns off automatically. If air on/off button is pushed while the system is purging, the purge cycle will be delayed for 20 minutes.
- Use a soft-bristled toothbrush and a gentle cleaning compound or solution to remove residual buildup around air jets. Wipe clean with a soft cloth. Never use alcohol, acetone or other delaminating compounds on plated surfaces.

If you experience something that is not on this list, refer to the troubleshooting guide in Appendix F (page 38.)

DANGER... ALWAYS TURN OFF POWER AT MAIN ELECTRICAL SERVICE PANEL WHEN SERVICING THE WALK-IN BATHTUB.

CAUTION... ALWAYS TURN OFF WATER SUPPLY BEFORE SERVICING THE WALK-IN BATHTUB.

PROBLEM	POTENTIAL CAUSE	SOLUTIONS
FAUCET SET		
Handspray is weak/ no flow	Clog at handspray	Remove handspray/clear debris/retest
	Clog in diverter	Clean out stem/diverter body/retest
	Backflow preventer in wrong location	Bellevue (next to handspray); Montage (near diverter)
	Low pressure in house	Make sure main shut off is open completely
	Wall shut off valves not fully open	Open wall supply valves
No flow at all from spout/handspray	Wall supply valves are closed	Open wall supply valves
	Diverter has plastic half moon flow diverter installed backwards	Take apart diverter stem/re-position part
Water is not completely diverted	Handle not completely turned	Test diverter handle in full left to right range of motion
	Trim handle not properly installed	Check handle position to allow for full 180° range of motion
	Diverter stem is clogged	Remove stem/clean diverter body/retest
Water leak near diverter on tub deck	Stem not tightened enough in diverter	Tighten diverter stem to diverter body
Water leak near valve on tub deck	Hot/cold cartridge not tight enough in valve body	Tighten cartridge in valve body
Water leaking from handspray connection	Missing gasket in between hose and handspray	Install gasket and retest
	Teflon tape was not used on threads	Install teflon tape on threads and retest
	Fine crack in plastic threads on handspray	Replace handspray
Water leaking from handspray flex hose	Flex hose damaged inside	Replace flex hose
Diverter valve trim spins	Broken stem/shaft	Replace stem/shaft.
	Locking nuts not adequately tightened	Remove trim and tighten locking nuts
Hot/cold valve or spout trim turns more than 90°	Locking nuts not adequately tightened	Remove trim and tighten locking nuts
DOOR/HANDLE		
Leaky door	Door handle not completely shut	Engage handle fully/retest
	Dirty door seal/dirty door jamb	Wipe seal/wipe jamb/retest
	Door seal ripped/torn/damaged	Replace door seal
	Tub not level/plumb	Make sure tub is level front to back and side to side
	All six feet are not touching the ground	Make sure all six feet are on ground and secure
	Door not sealing/not shut tight enough	Look for daylight through seal/tighten handle/retest
EXTENSION KIT		
Extension kit doesn't fit properly	They are rough fit/usually need some adjustment	Installer can grind or cut to make fit/seal with silicone
DRAIN SYSTEM		
Loose hand control	Set screw not tight enough	Gently tighten set screw with 8mm box wrench/pliers

PROBLEM	POTENTIAL CAUSE	SOLUTIONS
DRAIN SYSTEM (cont.)		
Tub drains slowly/not at all	Stopper height adjusted too low	Remove stopper/back out screw a little/tighten nut/ retest, if still not coming up enough then re-adjust
	Home plumbing backed up/clogged	Remove stopper/test drain, if slow call plumber
Stopper won't come up	Screw/nut adjusted too low	Back stopper screw out/retest/tighten nut
	Hand control not properly engaged	Check set screw on shaft - must be tight and in groove
Door drain doesn't take water	Cap is on too tight	Loosen cap by turning counter clockwise
	Door drain is installled too high	Make sure hose stays below drain height
GENERAL		
Hot water runs out before tub is full	Home water heater is too small for temperature needs	Evaluate water heater size upgrade or replacement
	Home water heater's thermostat is set too low	Try turning thermostat up higher/make sure water isn't too hot in the rest of the house
	Thermostatic mixing valve is set too low (if equipped)	Turn up mix temperature on mixing valve
Can't open access panel	Need to use suction cup (provided in Welcome Box)	Attach at top of panel/pull out and lift panel up
Humming noise coming from tub	May be Ozone if installed	If very loud/open access panel/shift Ozone (teal green box) away from panel
AIR SYSTEM		
Blower won't turn on	Not pressing button hard enough	Aim for the "ON/OFF" button, try using a pencil eraser
	No power to blower	Check GFCI outlet and circuit breaker
	Bad CAT 5 cable connection / bad CAT 5 cable	Check both ends are plugged in / test a different cable
Blower won't turn off	Not pressing button hard enough	Aim for the "ON/OFF" button, try using a pencil eraser
	Bad CAT 5 cable connection / bad CAT 5 cable	Check both ends are plugged in / test a different cable
Blower comes on randomly	May be normal purge cycle	Automatic purge comes on 20 minutes after bathing, pressing button delays for another 20 minutes. Let minute purge completely finish
	Water got into electrical connections	Causes odd behavior. Unplug/let dry completely/retest
Cold air coming out of jets	Pressure change cooling effect of jet	User with sensitive skin: move further from air jet
	Overall water temperature too cold	Hotter water in tub will lessen cooling effect
HYDRO SYSTEM		
Hydro pump won't come on	Not pressing button hard enough	Aim for the "ON/OFF" button, try using a pencil eraser
	No power to pump	Check GFCI outlet / check circuit breaker
	Bad CAT 5 cable connection / bad CAT 5 cable	Check both ends are plugged in / test a different cable
	TMS box or pump not plugged in	Pump plugs into control box, box plugs into wall outlet
Water sprays everywhere	Water level is too low	Fill tub with water above highest jet
Hydro jets have uneven pressure	Some jets may be closed / closed partially	Turn jet to open or close
Gunk coming out of jets	Needs cleaning / not used often enough	Run tub with Sea Klear Spa System Flush or comparable cleaning product
Back jets are too strong	Lower jets may be closed / sensitive user	Adjust back jets down in pressure by turning/opening others

SAVE THESE INSTRUCTIONS