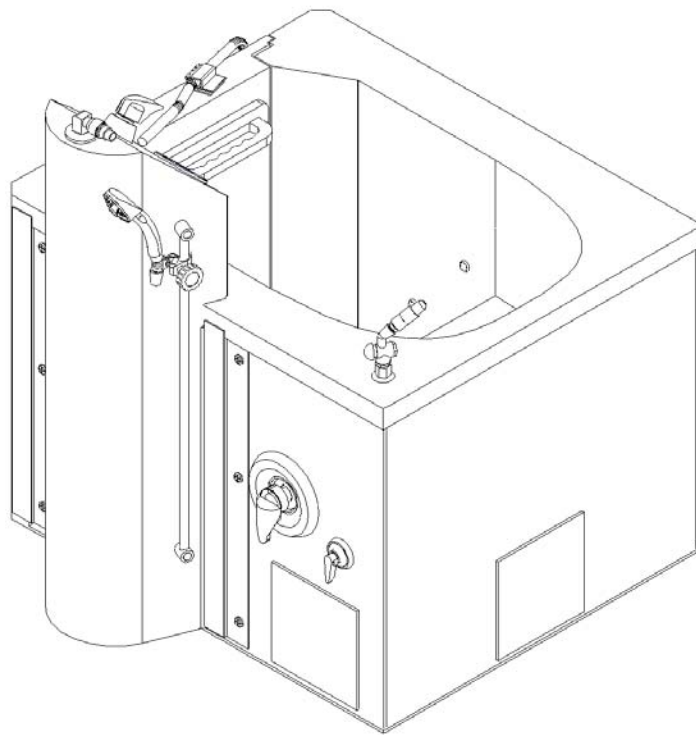


Safety Bath Inc. Presents:



Safety Bath Supreme

Installation Manual - Installer's Copy



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S0A 1N0

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E-Mail: safetybath@sasktel.net
Web: www.safetybathsupreme.com

Rev. 5
June 2009





IMPORTANT!

Read This Before Proceeding

HELP!

If you have any problems with our product, or if you are missing parts or have damaged parts, **DO NOT CALL THE STORE WHERE YOU PURCHASED THE BATHTUB.** Call one of our friendly and knowledgeable Customer Service Representatives at 1-877-826-6666. The call is free, and our office is staffed by people who can assist you in a fast and friendly manner.

Please note that **WE DO NOT WARRANT THE INSTALLATION**, but we will be pleased to advise you on any installation problems you may have encountered.

Check Your Supreme Before Installation

Every Safety Bath Supreme is water and functional tested by trained personnel at our factory to ensure your continued enjoyment and piece of mind of ownership. In addition, every Safety Bath Supreme is CSA and UL approved. However, rough handling during shipping may cause damage or leaks which may be detected prior to installation.

Your new Safety Bath Supreme has likely traveled many miles during shipping, so damage to the bathtub, its plumbing components, or accessories may occur before you receive your bathtub.

To ensure you are not installing a damaged bath, **be sure to thoroughly inspect the bathtub's fiberglass surfaces, all plumbing components and connections, and add-on accessories, such as the control tower, before beginning installation.**

If a damaged component is found, call Safety Bath immediately at 1-877-826-6666 to arrange a replacement.

Introduction

All Safety Bath bathtubs are CSA and UL approved, and are covered by our standard warranty program.

Read this manual thoroughly before installing your new bathtub. The final product will be well worth the extra time you spend on the details. Follow the step-by-step instructions to assure proper installation and avoid costly mistakes or servicing. Pay close attention to the electrical requirements.

Refer to the important safety instructions, page 4, before continuing.



IMPORTANT SAFETY INSTRUCTIONS

BASIC PRECAUTIONS TO BE TAKEN TO PREVENT FIRE HAZARDS, ELECTRICAL SHOCKS, PERSONAL INJURY OR DAMAGE WHEN USING YOUR UNIT.

READ AND FOLLOW ALL INSTRUCTIONS!

Urgent Safety Information For Hydrotherapy Systems

THE HYDROTHERAPY SYSTEM'S BLOWER MUST BE CONNECTED TO A POWER SUPPLY CIRCUIT THAT IS PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) OR EQUIVALENT. A GFCI should be provided by the electrician and should be routinely tested. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. **If the GFCI fails to operate in this manner, there is a ground fault, indicating the possibility of electrical shock. DO NOT USE THE UNIT.** Disconnect the unit and have the problem corrected by a qualified electrician before using.

The blower motor unit must be connected to a dedicated 110/120 volt circuit protected by a 15-amp class A ground fault circuit. (Outside Canada and U.S.A., refer to current standards of country in question). Use the unit only for its intended use as described in this manual. **Do not use attachments not recommended by the manufacturer.**

Building materials and wirings should be routed away from the blower unit.

Important Safety Information

Tampering or modification of this bathtub or it's components by anyone other than an authorized service technician will invalidate the warranty.

The installer or owner bears all responsibility for complying with all state and local codes when installing this unit.

Follow Local, State, And Federal Code And Regulations

Clean Old Waste Plumbing Before Installing New Bathtub

If your Supreme is replacing an old bathtub, Safety Bath highly recommends cleaning old waste plumbing before installing your new Supreme. This can be accomplished by running a snake through the lines, or by using similar methods. Consult your plumber regarding pre-installation drain cleaning.

IMPORTANT SAFETY INSTRUCTIONS

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

1. ***READ AND FOLLOW ALL INSTRUCTIONS***
2. **DANGER:** To reduce the risk of injury, do not permit children to use this unit unless they are closely supervised at all times.
3. For indoor use only.
4. Install in accordance with the manufacturer's installation instructions as outlined in this manual.
5. Use this unit only for its intended purpose as described in this manual. Do not use attachments not recommended by the manufacturer.
6. Never drop or insert any object into any opening.
7. A non-slip floor surface in front of the installed tub is *A MUST* to prevent slipping of persons exiting tub after use.
8. This unit must be connected to a power supply circuit that is protected by a 110/120-Volt Class A ground-fault circuit interrupter (GFCI). Such a GFCI should be provided by an electrician and should be tested on a regular basis. To test the GFCI, push the "TEST" button. The GFCI should interrupt the flow of power. Push the "RESET" button and power should be restored. If the GFCI fails to operate in this manner, it means the GFCI may be inoperative. Do not use the unit. Turn off the breaker in your electrical panel which operates the bathtub, and contact a qualified electrician to correct the problem. **FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY OR DEATH FROM ELECTRICAL SHOCK.**
9. **CAUTION!** Risk of electrical shock—disconnect power to blower before servicing.
10. Installation must comply with your local electrical and plumbing codes. Check with your municipality as, in some cases, plumbing and electrical work may require a permit, and the final installation may have to be approved by a building inspector.
11. Install bathtub to permit access for servicing.
12. This unit should be installed by a qualified service representative. An equipment grounding terminal is provided in the field wiring compartment under the seat of the tub. To reduce the risk of electrical shock, this terminal must be connected to the grounding means provided in the building's electrical supply panel with a conductor equivalent in size to the circuit conductors supplying this equipment.
13. Never lift the tub assembly by its piping, and do not attempt to alter the unit's blower or plumbing fixtures and tubes.
14. Blower must remain installed on its factory-provided mountings.
15. If this unit is replacing an existing bathtub, and old wall surfaces are being removed or exposed, use a face dust mask (an inexpensive piece of personal protective equipment available from any hardware store).
16. **WARNING:** Risk of accidental injury or drowning. Do not use drugs or consume alcohol before or during the use of the hydro therapy tub to avoid unconsciousness and possible drowning.
17. **WARNING:** Risk of fetal injury. Consult your physician before using your hydro therapy tub if you are pregnant, or suspect you may be.
18. **WARNING:** Risk of accidental injury or drowning. Children should not use hydro therapy bathtub without adult supervision.
19. **WARNING:** To avoid injury, exercise care when entering or exiting the hydro therapy bathtub.
20. **WARNING:** Risk of electric shock. Do not permit electric appliances (such as a hair dryer, lamp, telephone, radio, or television) within 1.5m of this hydro therapy bathtub.
21. **WARNING:** Risk of Hyperthermia and possible drowning. Do not use a hydro therapy bathtub immediately following strenuous exercise
22. **WARNING:** Risk of Hyperthermia and possible drowning. Water temperature in excess of 38 degrees Celsius may be injurious to your health. Check and adjust water temperature before use.
23. **WARNING:** Risk of Hyperthermia. People using medications, and/or having an adverse medical history should consult a physician before using a hydro therapy bathtub.
24. **CAUTION:** Test the ground fault circuit interrupter protecting this appliance periodically in accordance with the manufacturer's instructions.
25. **ALWAYS FOLLOW LOCAL, STATE, AND FEDERAL CODE WHERE APPLICABLE.**

SAVE THESE INSTRUCTIONS.

TESTING - VERY IMPORTANT

Test the Supreme after it is installed, but before completing the final caulking and trim work. Check for leaks and proper drainage.

TOOLS REQUIRED:

- ◆ Hammer
 - ◆ Level
 - ◆ Slotted (Flat) Screw Driver
 - ◆ Phillips Screw Driver
 - ◆ Caulking Gun
 - ◆ Hand or Power Saw
 - ◆ Pliers
 - ◆ Robertson #2 Screw Driver
-

MATERIALS REQUIRED

- ◆ Silicone Caulking
 - ◆ Shims or Cedar Shingles
 - ◆ 2 - Waterproof Electrical Junction Boxes
 - ◆ Glue
 - ◆ 3/4" Flexible Hoses to Hook Up Water Feed Lines
 - ◆ 3/4" Flexible Hoses to Hook Up Water Feed Lines
 - ◆ 1 1/2" P-Trap
 - ◆ 2 - 15-Amp, 110/120-Volt Class A GFCI Breakers
 - ◆ Miscellaneous 1 1/2" ABS Plumbing Fittings, Depending on Building's Waste Plumbing
-

SAFETY BATH SUPREME WARRANTY

- ◆ Lifetime replacement warranty on the door seal. First year - parts and labor, remaining years - parts only.
- ◆ Five year warranty on the fiberglass bathtub, door handle, and latching mechanism. First year - parts and labor, remaining years - parts only
- ◆ One year warranty on hydrotherapy components, heated seat, chemical rinse system, hand-held shower, and drains.
 - ◆ Faucet comes with OEM's warranty.
- ◆ Safety Bath Hydro Therapy Systems Inc. covers labor and one (1) hour traveling time during the first year only. Balance is owners/end-user's responsibility.
 - ◆ Warranty is non-transferable, and applies to the original purchaser only.
 - ◆ All warranty claims must be pre-authorized by Safety Bath Inc.

Included With Your Safety Bath Supreme:

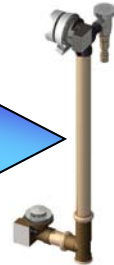


THE SAFETY BATH SUPREME BATHTUB

With Control Tower, Door Assembly, Mixing Valve, Diverter Valve, Chemical Wash Valving, Chemical Wash Wand, And Shower Head with Hose

DRAIN, OVERFLOW, AND FILLER ASSEMBLY

With Vacuum Break, Main Drain, And 3/4" Connecting Hose

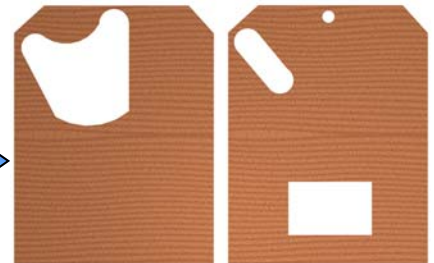


FRONT DRAIN

Includes Front Drains For Wood Floor and Concrete Floor Applications

FLOOR TEMPLATES

Floor Templates For Locating Drain and Access Cut-Outs For Wood and Concrete Floor Applications



INSTALLATION GUIDE

Safety Bath Supreme

Wood Floor Installation



Your Safety Bath Supreme has been engineered and built to Safety Bath's highest standards.

Proper installation and testing by qualified trades is essential to your continued satisfaction with your investment.

Installation of a Safety Bath Supreme is simple and straight-forward. Follow this intuitive step-by-step guide to ensure a smooth, trouble-free installation.

Installation Overview



GETTING TO KNOW YOUR SAFETY BATH SUPREME - PAGE 10

The Safety Bath Supreme Hydrotherapy Bathtub is a marvelous piece of equipment. Take a few minutes to familiarize yourself with the names of the major components before beginning the installation. The installation of this bathtub is very straight forward if you read this manual front to back before attempting to install. Should you have any questions, please feel free to call Safety Bath at 1-877-826-6666.



PRE-INSTALLATION - PAGE 11

Overview of electrical requirements with schematics. Laying out the footprint of your Supreme and using the supplied floor template to mark out floor cutouts. Removing the Control Tower and three access hole covers.



ELECTRICAL ROUGH-IN - PAGE 14

Installing required circuits for the hydrotherapy system's blower motor and heated seat. Locating and installing timer switch for the heated seat. Locating and installing waterproof junction boxes.



PLUMBING ROUGH-IN - PAGE 15

Installing required fresh water supply lines. Installing waste & overflow plumbing.



INSTALLING THE BATHTUB - PAGE 16

Placing, leveling, and securing bathtub in position. Installing waste & overflow assembly into the bathtub. Installing front (auxiliary) drain.



MAKING THE CONNECTIONS - PAGE 19

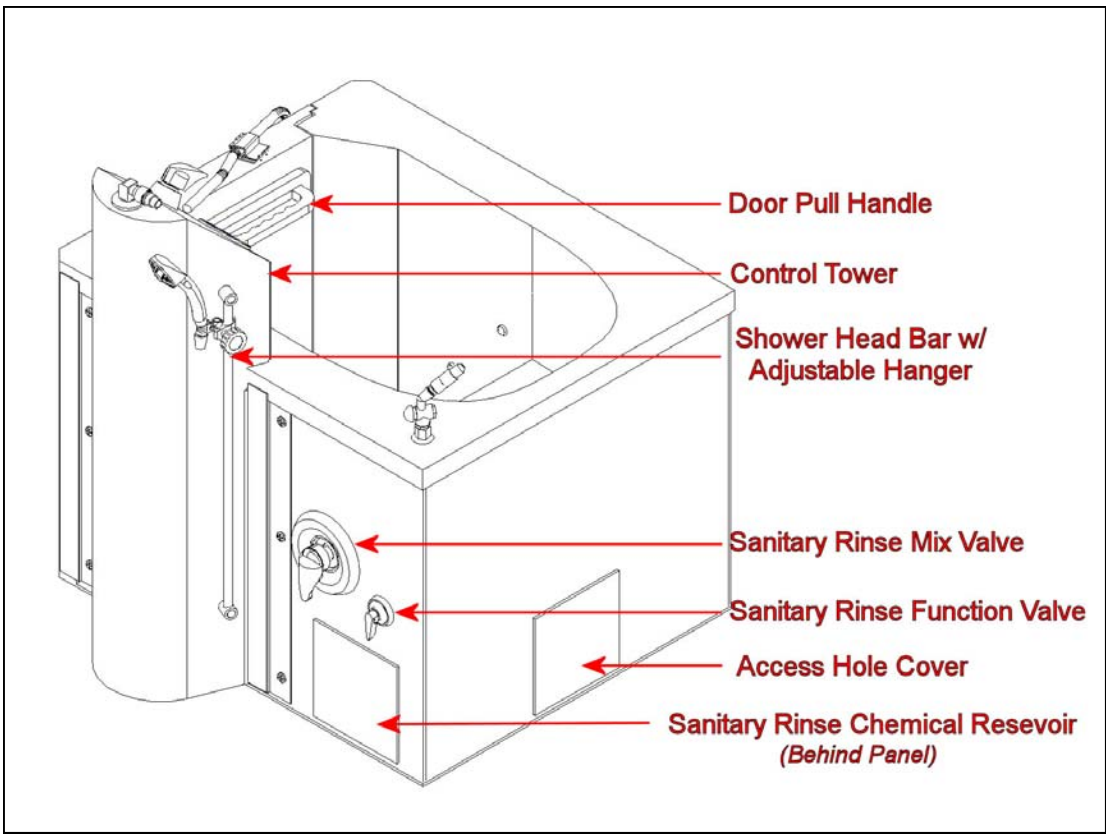
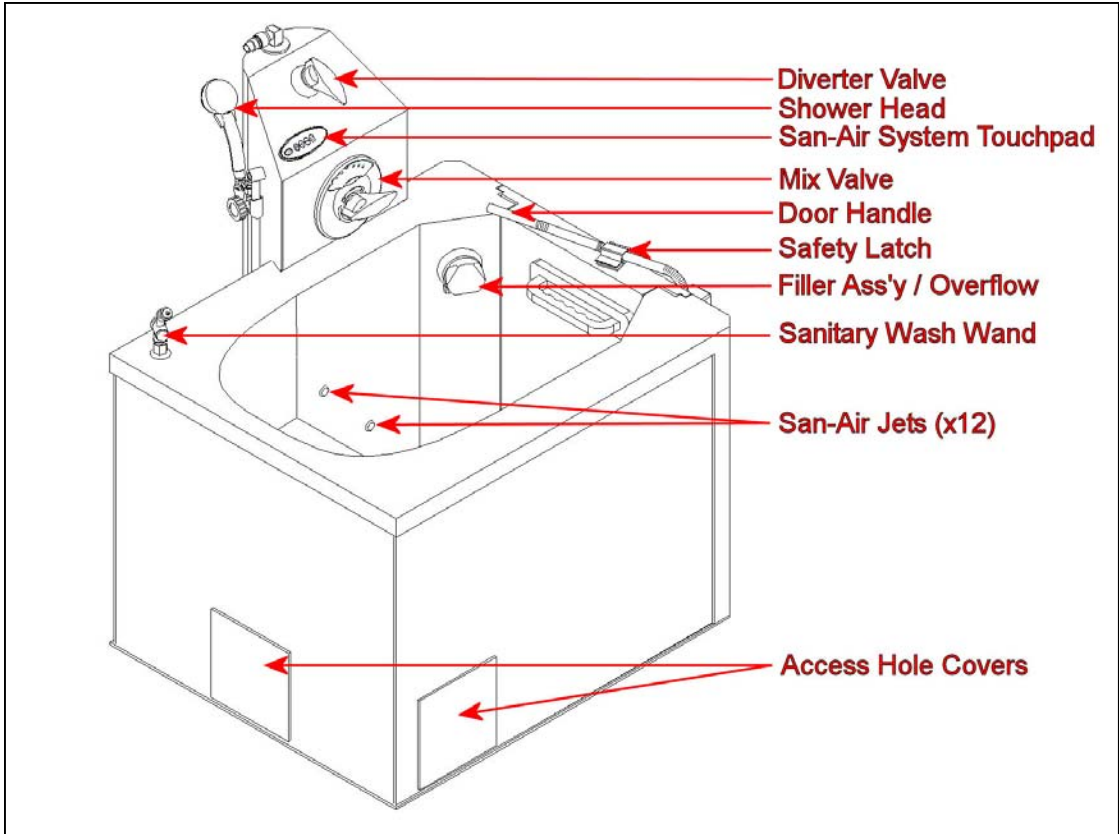
Connecting the blower motor and heated seat transformer to the junction boxes. Connecting the waste & overflow assembly and front drain to the building's waste system. Connecting the fresh water supply lines to the Control Tower and the Sanitary Rinse System.



TESTING & FINISHING - PAGE 21

Installing chemical wash solution. Test the bathtub, the waste & overflow, the hydrotherapy system, and the fresh water connections for leaks. Secure the Control Tower to the bathtub. Final inspection.

I. GETTING TO KNOW THE SAFETY BATH SUPREME



II. PRE-INSTALLATION

1. Observe all standard safety precautions. Use a dust mask during all cutting.
2. The Supreme requires a 110 volt, 15 Amp Class A GFCI circuit to be installed prior to bath installation for the hydrotherapy blower motor. A 110 volt, 10 Amp timer must also be installed on its own circuit for the heated seat. Refer to local, state, and federal electrical codes pertaining to wire size and type. Feed wires to the bathtub should be routed under the floor.

For safety reasons, so not mount an exposed electrical outlet in the same room as the Supreme

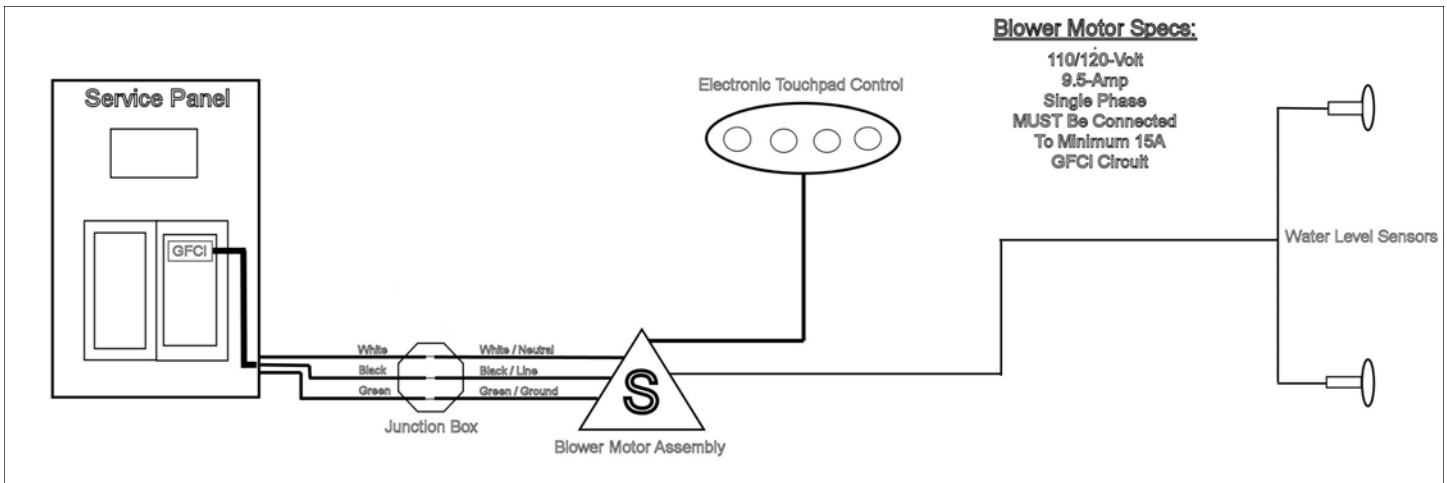


Illustration 1 - Hydrotherapy Blower Motor - Electrical Connections Schematic

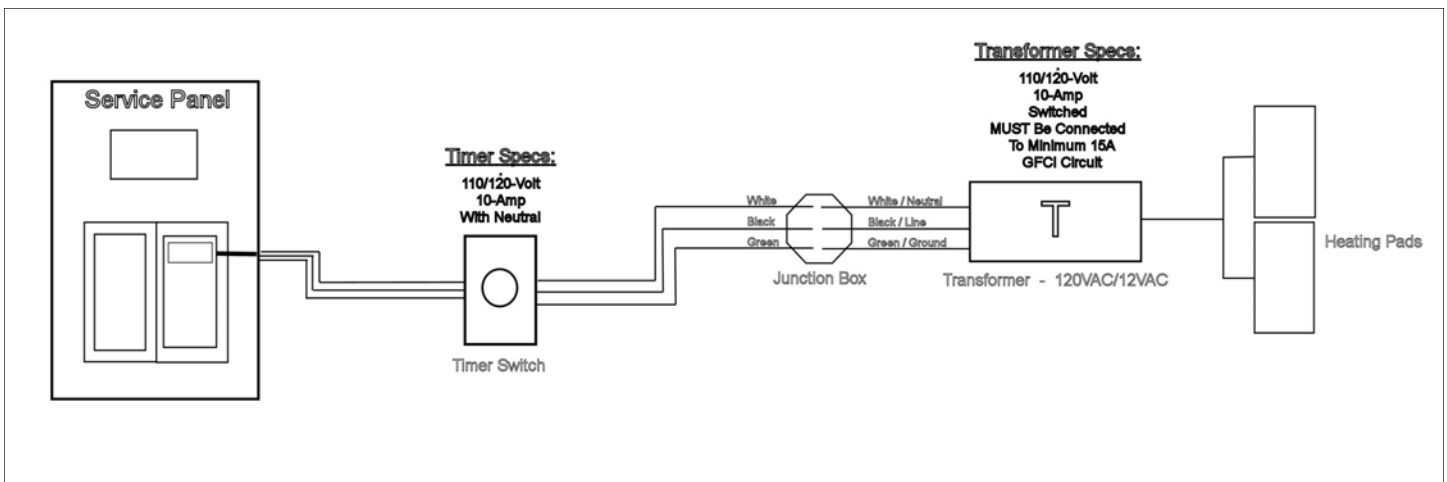


Illustration 2 - Heated Seat - Electrical Connections Schematic

12-Jet Blower Motor Specifications:

CG Industries
 Model# MS-300-750-120/60A-N-1+SF01
 HZ: 60
 Phase: 1
 Volts: 120VAC
 Amps: 9.5
 Duty: Continuous
 Thermally Protected

**MUST be connected to a minimum 15A
 Class A GFCI dedicated circuit**

Seat Warmer Transformer Specifications:

Model # EP-150-US
 HZ: 60
 Volts, Primary: 120VAC
 Volts, Secondary: 24VAC
 Output: 150VA
 Fused

**MUST be connected to a minimum 15A Class A
 GFCI dedicated circuit**

3. Using the floor template provided, mark out the bathtub location on the floor. Be sure to include the locations for the plumbing holes.

NOTE: The square cutout for the motor inspection hole in the floor on wood floor applications is optional, but *highly recommended* for easy blower motor electrical hookup, inspection and replacement.

Refer to Appendix A for Floor Template Dimensions

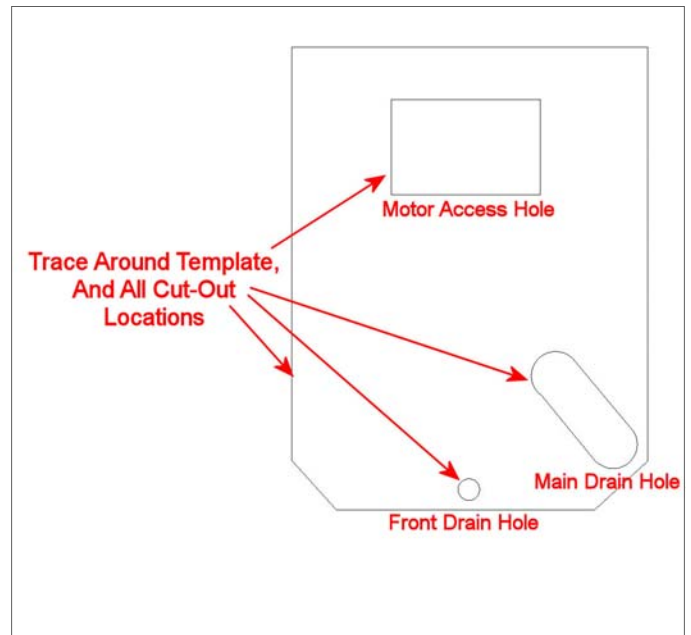


Illustration 3 - Wood Floor Template Showing Cutout Locations

4. Cut out motor access hole, main drain cutout, and front drain hole as per floor template locations.

5. Your Safety Bath Supreme has been shipped assembled with the control tower attached to the bathtub with 2 angle brackets and 6 Phillips head screws. In order to gain access to plumbing and electrical connections, the control tower and 3 access panels must be removed. Refer to Illustrations 5 and 6 for details. Set the control tower and access hole covers aside where they won't be damaged.

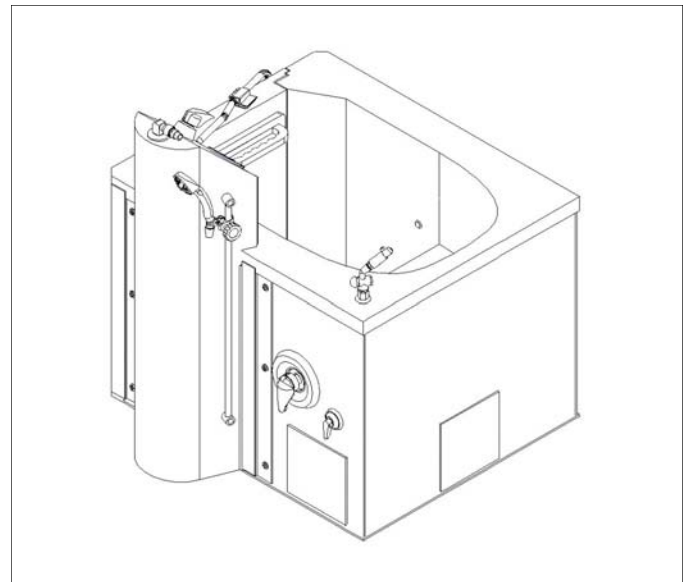


Illustration 4 - Supreme Assembled in As-Shipped Condition

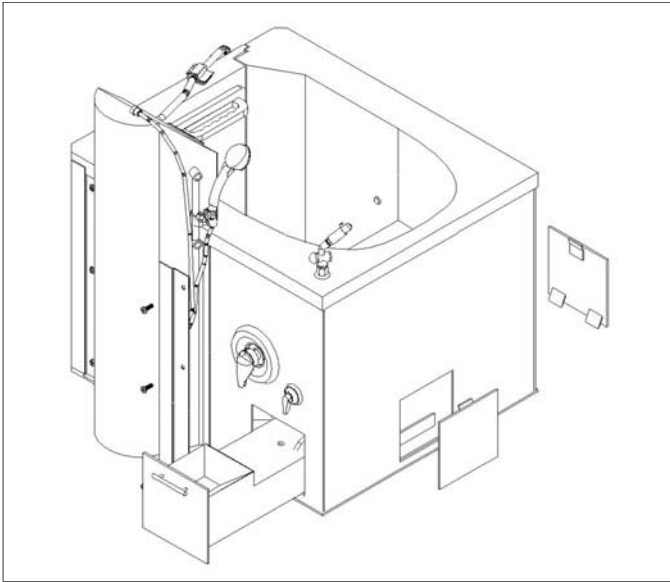


Illustration 5 - Removing Access Panels And Tower Bracket

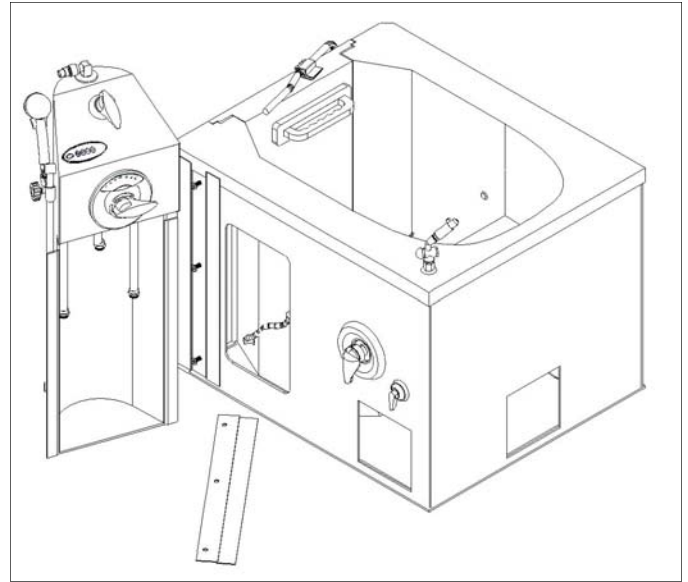


Illustration 6 - Access Panels and Control Tower Removed

6. To remove the side and back access hole covers, simply push up on the panel slightly, then gently pull out at the bottom. To re-install the covers, reverse the procedure. Remove covers to access plumbing and electrical connections. Pull out chemical solution reservoir from the tower side of the tub.

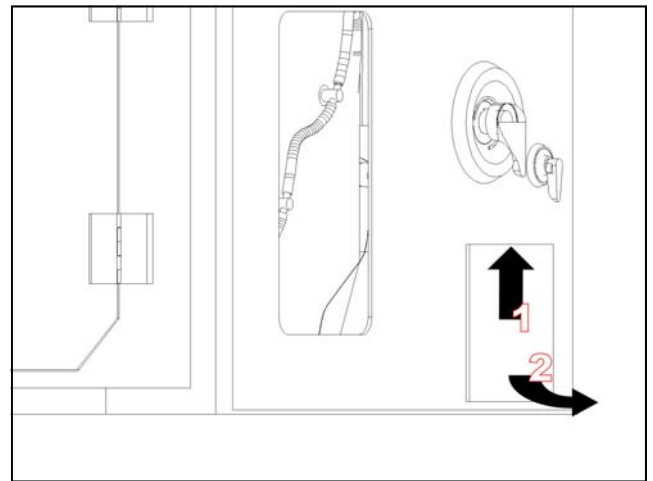


Illustration 7 - Removing Side & Back Access Hole Covers

III. ELECTRICAL ROUGH-IN

1. Observe all standard safety precautions. ALWAYS adhere to local, state, and federal building codes. Obtain permit(s) where required, and have inspections done when permits require.

2. A 30-minute timer switch for the seat warmer, as well as wire between the switch and the seat warmer power adapter needs to be installed. Safety Bath recommends the timer be placed in a convenient location, such as near an entrance door on the wall.

Timer switch must be 10-Amp with a neutral, and be installed on its own circuit.

Refer to Illustration 2, Page 11 for Heated Seat schematic.

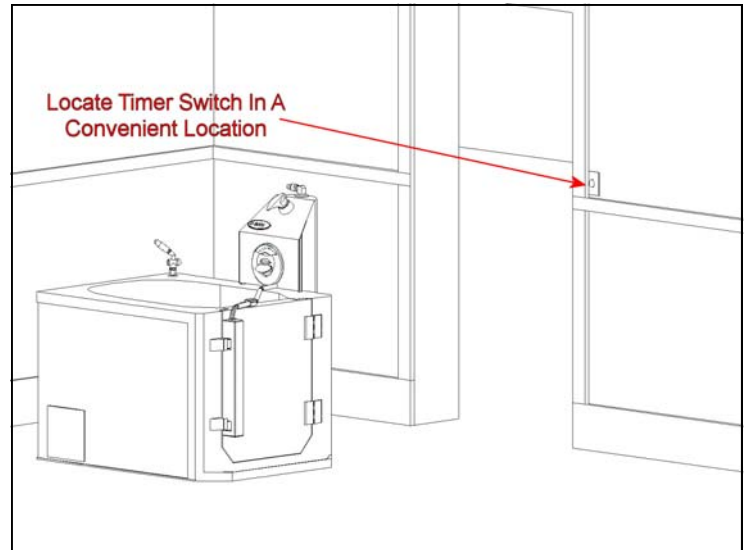


Illustration 8 - Ideal Timer Location For Heated Seat

3. A 120 Volt, 15 Amp dedicated service must be run from the electrical panel to the bathtub. This may also need to be a GFCI circuit. Refer to local, state, and federal codes pertaining to bathroom timer installation guidelines.

Refer to Illustration 1, Page 11 for Hydrotherapy System blower schematic.

4. The dedicated GFCI circuit wire and the wire from the timer switch should be run under the floor, and terminate in two separate waterproof electrical junction boxes.

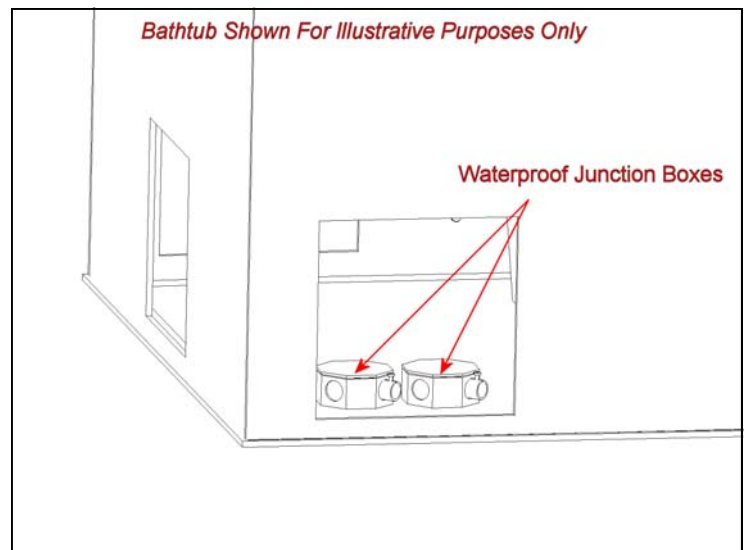


Illustration 9 - Junction Box Placement

IV. PLUMBING ROUGH-IN

1. Observe all standard safety precautions. ALWAYS adhere to local, state, and federal building codes. Obtain permit(s) where required, and have inspections done when permits require.

2. A pair of 3/4" hot and cold fresh water supply lines must be installed to feed a 3/4" mixing valve assembly. They must also have an in-line tee connection in each to feed a 1/2" faucet assembly. The fresh water supply lines may be installed after the bathtub is in place, but may be easier at this point to run.

Do not make any connections to the bathtub's fixtures at this time.

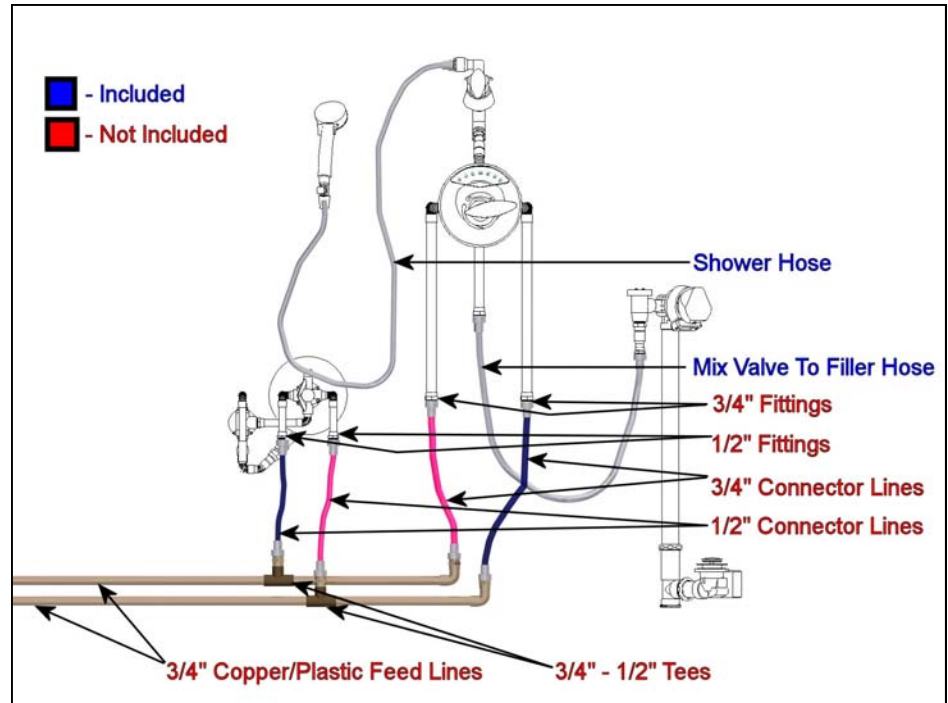


Illustration 10 - Fresh Water Supply Line Requirements

3. A standard 1 1/2" PVC waste pipe must be installed as per code to drain the main bathtub drain, as well as the front drain. Both drains have 1 1/2" PVC adapters supplied.

Do not make any connections to the bathtub's drains at this time.

Be sure to properly vent the waste pipe as per code.

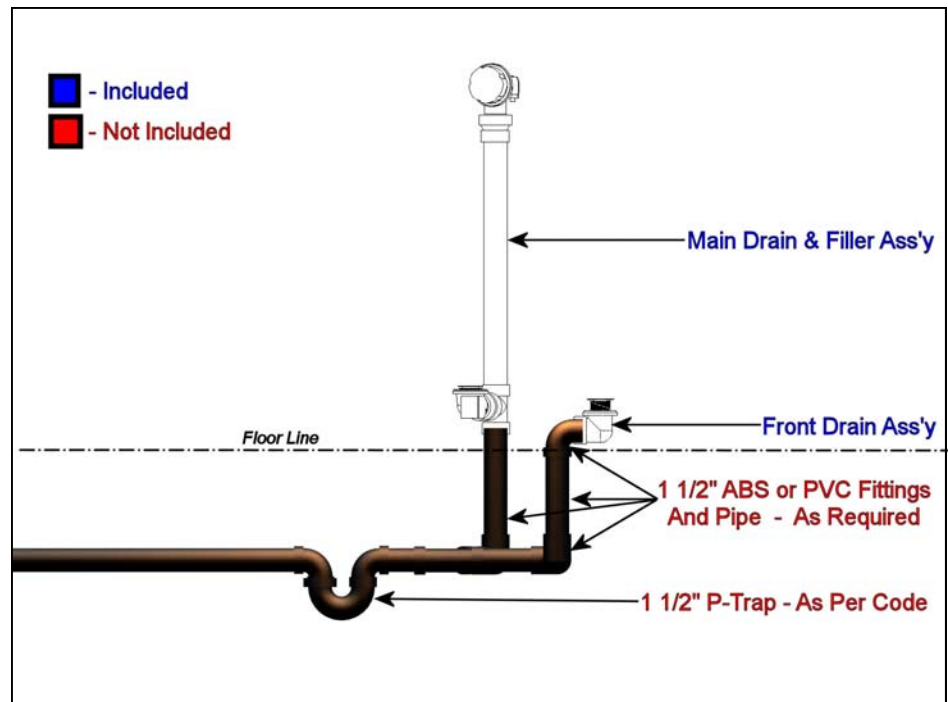


Illustration 11 - Waste & Overflow Pipe Requirements

V. INSTALLING THE BATHTUB

1. Now that the electrical and plumbing is roughed in, it's time to place the bathtub in position. Refer to the outline of the bathtub made using the floor template. Make sure the hole for the front drain is aligned. If not, remove tub and enlarge hole in floor. Check the floor to see if it is level and straight. If it is not, use shims and a level to ensure bathtub is perfectly level in both horizontal directions.

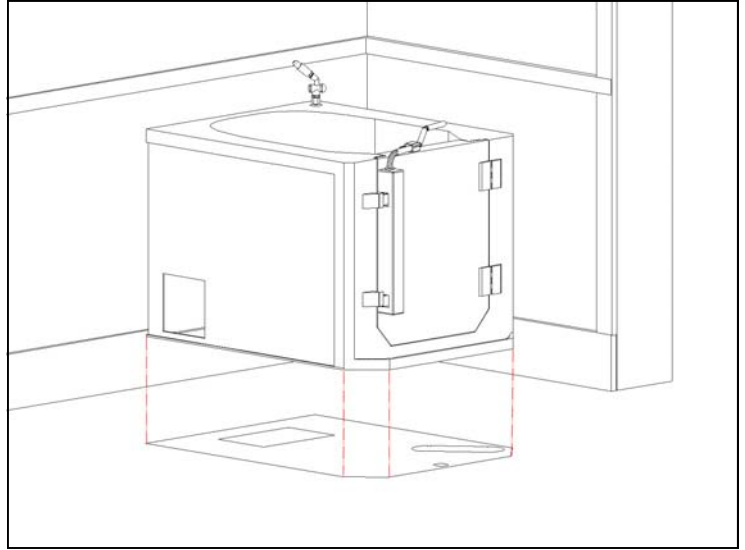


Illustration 12 - Placing the Supreme Into Position

2. Safety Bath Supreme's main drain and overflow unit comes pre-assembled for ease of installation. This unique unit doubles as a filler unit for fresh water. To install the waste & overflow assembly, first loosen the set screw on the drain actuator knob and remove the knob. Remove the rubber washer and through bolt. The overflow shroud and filler unit then pull off the main shaft. ***Be sure to leave the main sealing o-ring in place on the drain housing.***

Remove the main drain pop-up valve, the through bolt, and the collar from the main drain housing. ***Be sure to leave the main sealing o-ring in place on the drain housing.*** Refer to Illustrations 13 & 14 for disassembly details.

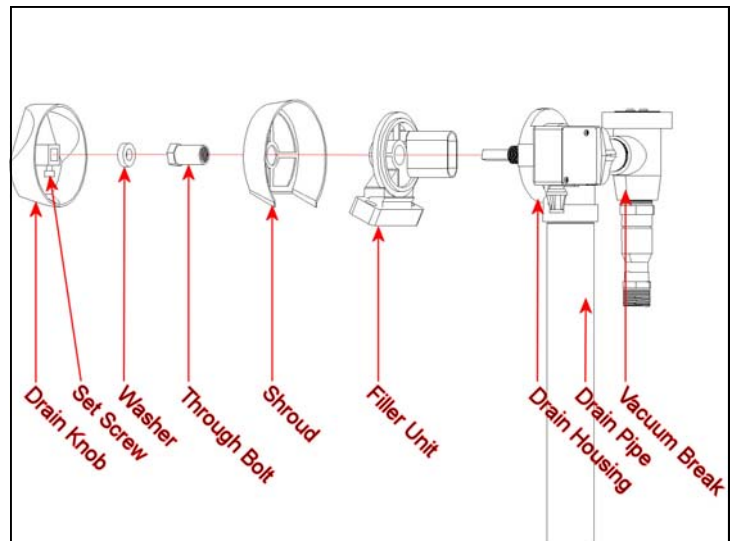


Illustration 13 - Exploded View Of Drain Actuator

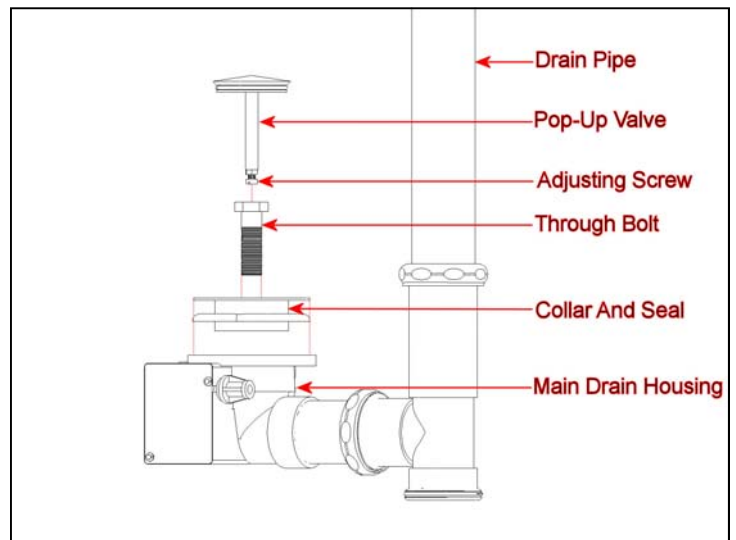


Illustration 14 - Exploded View Of Main Drain

3. Tip the Supreme onto its back to install the waste & overflow unit. You may wish to lay a drop cloth or similar protective cloth on the floor to prevent scratching the bathtub. Slide the waste & overflow assembly into position and check for fit. The result should look like illustration #15a. *Be careful not to allow the bathtub to rest on the bottom portion of the waste & overflow assembly.*

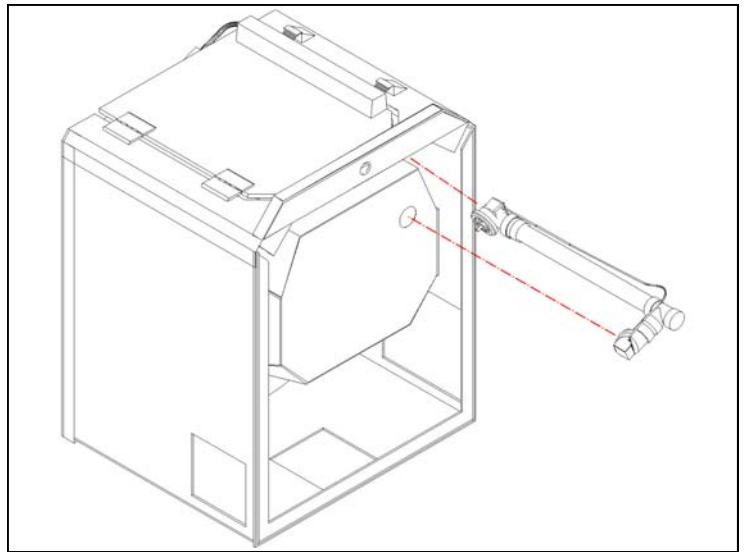


Illustration 15 - Installing Waste & Overflow Assembly Into Bathtub

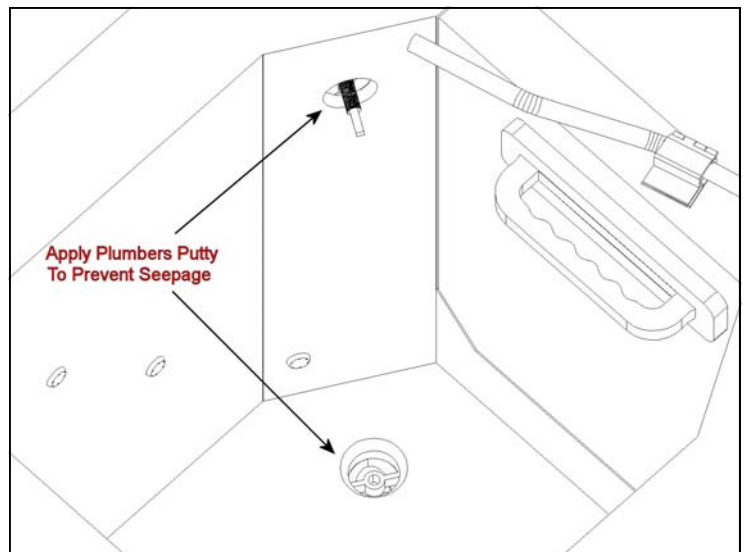


Illustration 15a - Waste & Overflow In Place

4. Re-assemble the drain actuator and main drain components. Apply plumber's putty to the locations shown in illustration #15a. Refer to Illustrations 13 and 14, previous page. Be sure to snug, *but don't over-tighten*, through bolts to ensure a good seal.

Over-tightening through bolts can distort the inner boss, and cause binding with the shaft or valve which pass through the boss.

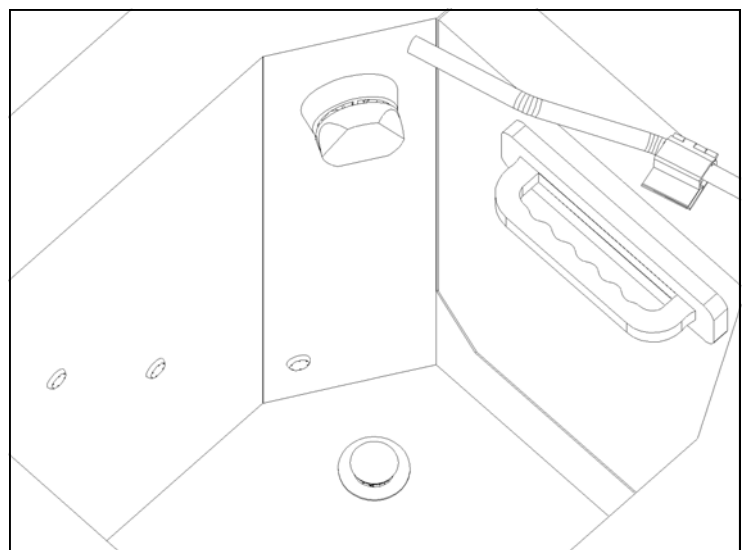


Illustration 16 - Drain Actuator And Main Drain Assembled In Bathtub

5. Install the front (auxiliary) drain. Apply plumbers putty between drain collar and bathtub to prevent seepage.

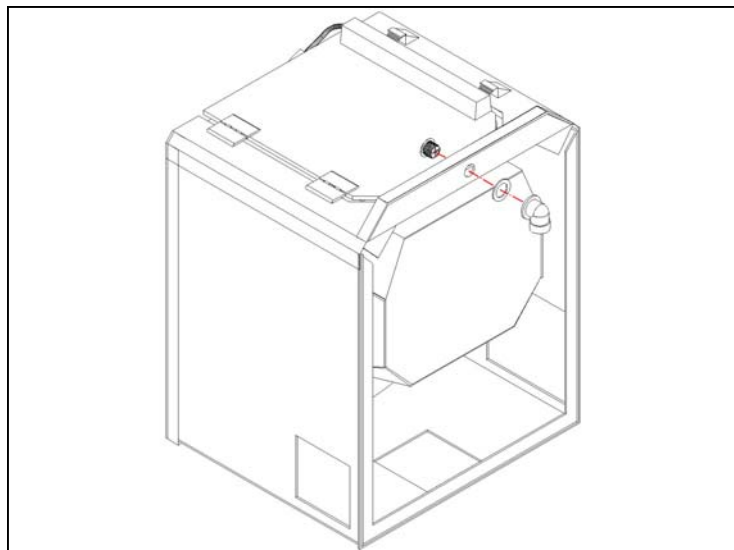


Illustration 17 - Installation Of Front Drain

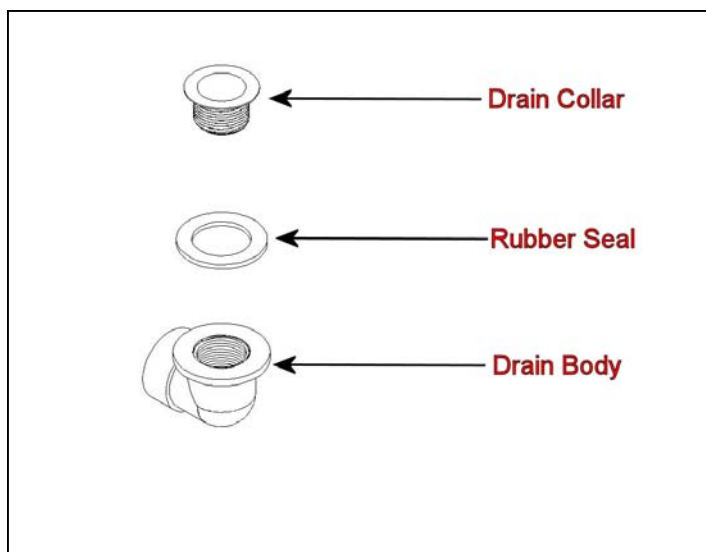


Illustration 18 - Exploded View Of Front Drain

6. Now that the drains are installed, you can get the Supreme off its back and back into position. Re-check for level and plumb in all directions. Once the position is confirmed, run a bead of silicone around the bottom of the bathtub which meets the floor, and around any side edges that may be positioned against a wall.

VI. MAKING THE CONNECTIONS

1. The connections from the blower motor and the heated seat transformer to the junction boxes can now be made. Make sure all connections are to code, and the junction box covers are installed securely as to not allow moisture inside. Leave all electrical components non-energized for now (*leave breakers OFF*).

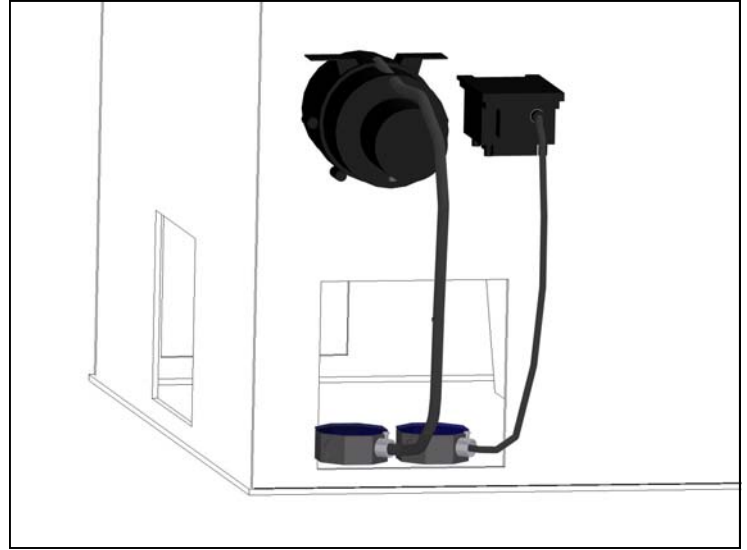


Illustration 19 - Connections To Junction Boxes

2. The two drains now need to be joined together, and then joined to the main building drain system. Because each situation is different, it is difficult to outline exactly what needs to be installed, and what plumbing components will be required.

However, Illustrations 20 and 20a show an example of what the finished waste plumbing might look like. What is important, is the use of a trap in the system between the joined drains and the building's waste pipe, and that the waste pipe be vented as per code.

Also of note, we recommend dropping the tub's two drains below the joist before joining. Otherwise, when the main drain is opened, water can bubble up into the front drain, taking the path of least resistance. A one-way check valve can overcome this issue, however.

Finally, make sure that all connections are permanently cemented.

Refer also to Illustration 11, page 15.

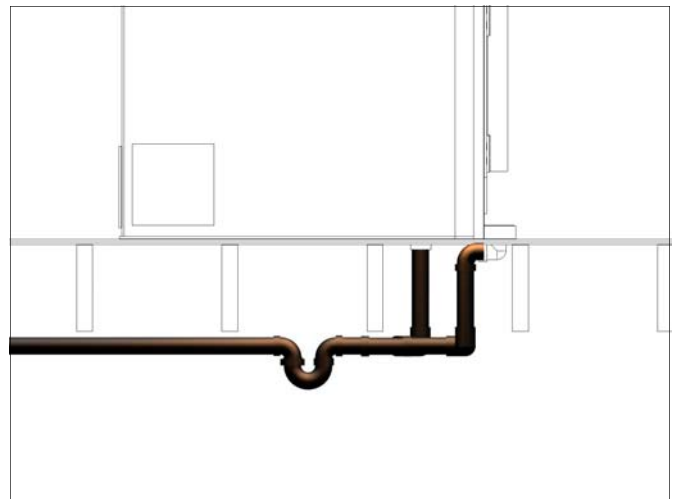


Illustration 20 - Finished Waste Plumbing - View A

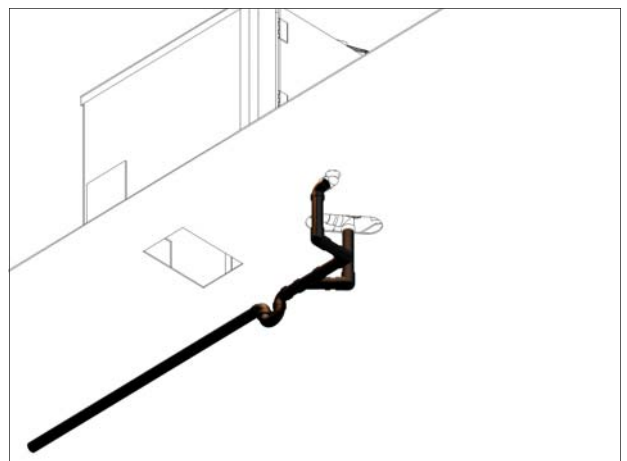


Illustration 20a - Finished Waste Plumbing - View B

3. The fresh water supply lines can now be connected from the building's 1/2" supply connectors to the chemical wash valve. A pair of 1/2" plastic supply lines and suitable fittings will be needed (not supplied). You may refer to Illustration 10 on page 15 for more information. Make sure all connections are tight.

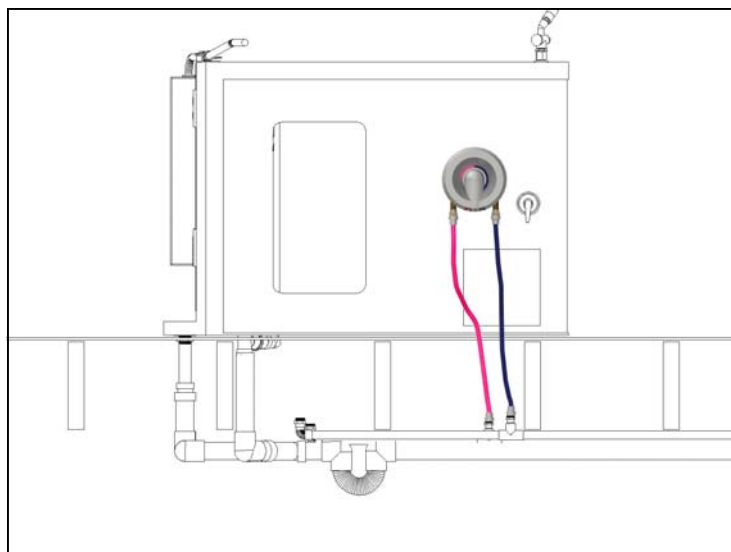


Illustration 21 - Connecting Water Supply Lines To Chemical Wash

4. Two 3/4" plastic supply lines will be needed to connect from the building's 3/4" fresh water supply lines to the control tower's mixing valve assembly. You may want to cut a small hole in the floor as in Illustration 22a to bring the supply lines up from under the floor, otherwise you can use the hole that the waste & overflow pipe runs through.

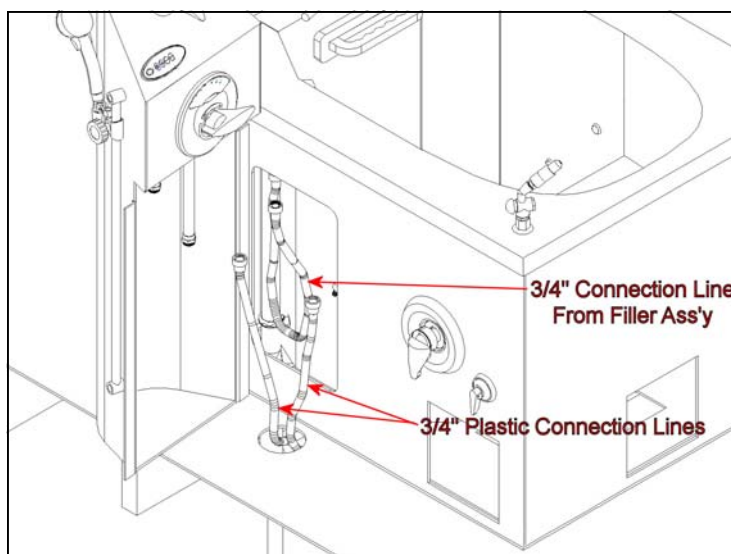


Illustration 22a - Routing 3/4" Water Supply Lines

The 3/4" braided line (included) from the diverter valve will also need to be connected at this point to the water filler assembly. Refer to Illustrations 22b (this page) and 10 (page 15) for details. Make sure all connections are tight.

At this point, you may place the control tower into place, but do not permanently fasten the tower to the bathtub yet, so inspection for water leaks will be possible while testing.

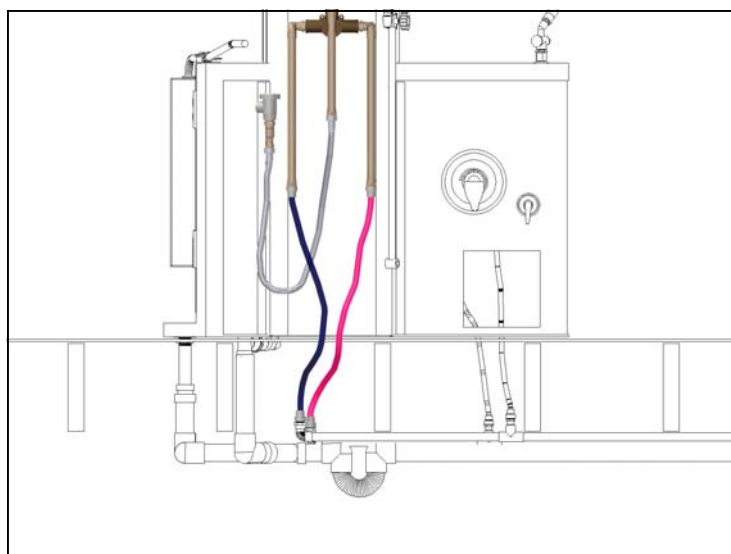


Illustration 22b - Connecting Water Supply Lines To Control Tower

VII. TESTING AND FINISHING

1. Now that your Supreme is more or less installed, it's time to put on the finishing touches and test your new bathtub. Pour an approved sanitizing chemical solution into the Sanitary Wash Chemical reservoir. Access the reservoir by simply sliding it out from behind the access cover on the tower side. Make sure to not pull the reservoir out too far. If the chemical does not drain into the reservoir, simply open the filler by pushing down on the center of it, in similar fashion to opening a bathtub drain.

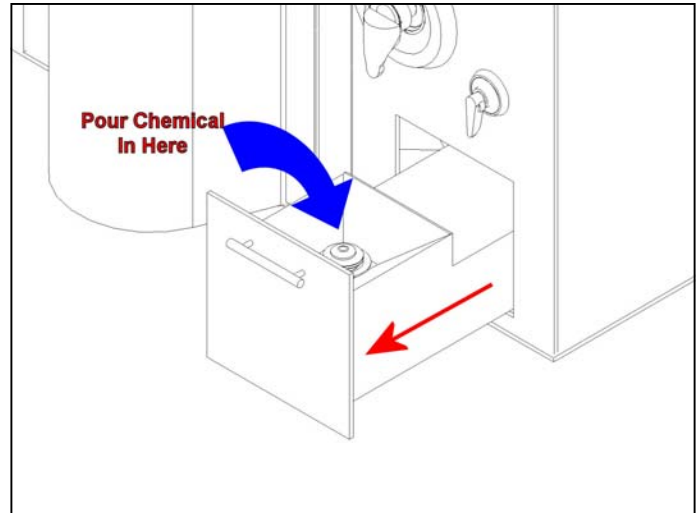


Illustration 23 - Adding Sanitary Wash Chemical

2. To test the installation:

⇒ Turn on the building's fresh water shutoff valves and make sure the breakers powering the circuit to the pump and timer switch are turned on.

⇒ Close the bathtub's door and latch it.

⇒ Turn the diverter valve counter-clockwise until it stops, and open the mixing valve. Water should begin to flow from the filler unit, which is integrated into the drain actuator and overflow assembly. Allow water to run down the main drain for 2 - 3 minutes, occasionally changing the temperature on the mixing valve. Check beneath the bathtub during this process via the three access holes to quickly identify any water leaks in the plumbing.

⇒ Check for any leaks in the supply line connections inside the tower by carefully pulling the tower away from the bathtub.

⇒ Verify shower head operation. Rotate diverter valve clockwise completely until it stops. Open the mixing valve and operate the shower head. Check for any leaks in the hose connections that may need to be tightened.

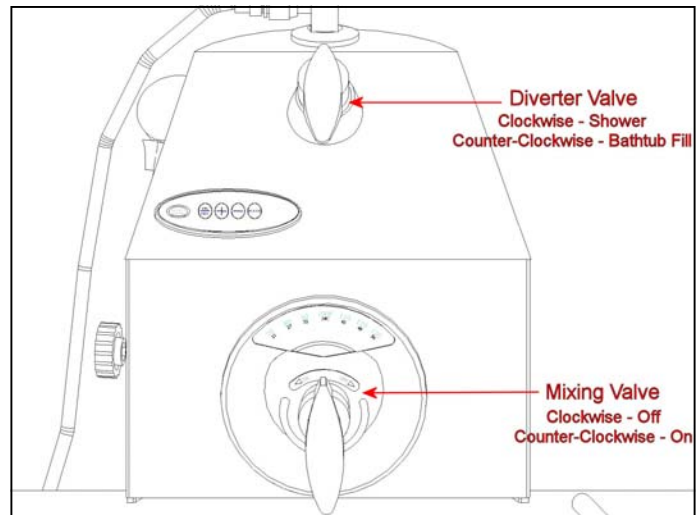


Illustration 24 - Control Tower Water Valve Functions

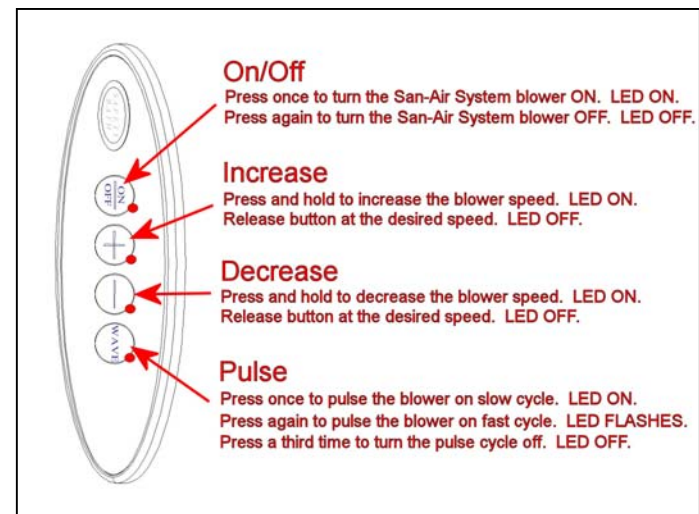


Illustration 25 - San-Air Touchpad Functions

- ⇒ Close the main drain by turning the drain actuator knob counter-clockwise. Allow the tub to fill with water to within 6 inches or so of the overflow (which is built in to the drain actuator assembly), making sure the water is at least 2" above the top of the highest jets. Once full, turn on the san-air jet system. Refer to Illustration 25, previous page, for operation of the San-Air Hydrotherapy System.
- ⇒ Run the San-Air system at different levels for a few minutes, making sure water is exiting all the jets. Remove access hole covers and check for any leaks or damage in the hydrotherapy system's plumbing. Replace covers.
- ⇒ Drain the water from the bathtub by turning the drain actuator knob clockwise. After the water has completely drained, the drying cycle will begin after about 2 minutes. drying out any water left in the jets. This drying cycle will last for approximately 5 minutes, then will automatically shut off.
- ⇒ Test the bathtub heated seat operation. Set the timer for 10 minutes. After a few minutes, the seat bottom and sides should begin to feel warm.
- ⇒ Test the rinse wand operation. Refer to Illustration 26 for details. Open the main valve, lift the rinse wand from the bathtub, and depress the plunger on the rinse wand to release spray from the nozzle. Operate the rinse in both the fresh water (rinse) mode, as well as the chemical (sanitizing) mode. Return the rinse wand to its estuations on the bathtub, and turn the main water valve off.

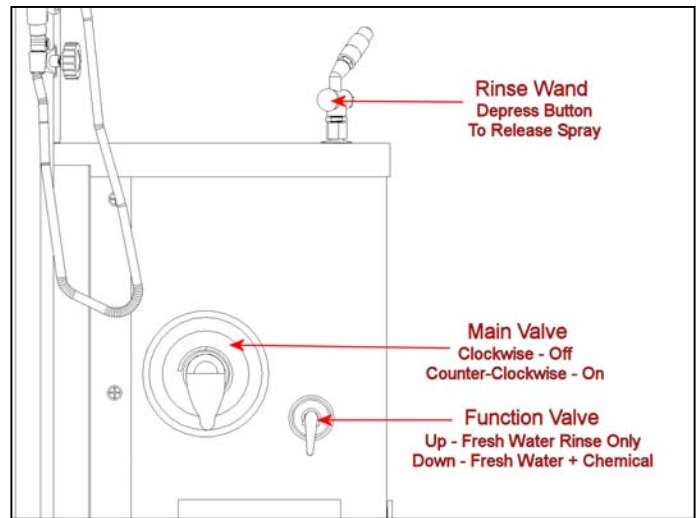


Illustration 26 - The Sanitary Wash Functions

3. Your Supreme installation is done! You can now make sure the control tower is in place , and install the control tower retaining bracket, securing it to the bathtub with the three phil-lips -head screws provided.

INSTALLATION GUIDE

Safety Bath Supreme

Concrete Slab Installation



Your Safety Bath Supreme has been engineered and built to Safety Bath's highest standards.

Proper installation and testing by qualified trades is essential to your continued satisfaction with your investment.

Installation of a Safety Bath Supreme is simple and straight-forward. Follow this intuitive step-by-step guide to ensure a smooth, trouble-free installation.

B. CONCRETE SLAB FLOOR INSTALLATION INSTRUCTIONS

Installation Overview



GETTING TO KNOW YOUR SAFETY BATH SUPREME - PAGE 25

The Safety Bath Supreme Hydrotherapy Bathtub is a marvelous piece of equipment. Take a few minutes to familiarize yourself with the names of the major components before beginning the installation. The installation of this bathtub is very straight forward if you read this manual front to back before attempting to install. Should you have any questions, please feel free to call Safety Bath at 1-877-826-6666.



PRE-INSTALLATION - PAGE 26

Overview of electrical requirements with schematics. Laying out the footprint of your Supreme and using the supplied floor template to mark out floor cutouts. Removing the Control Tower and three access hole covers.



ELECTRICAL ROUGH-IN - PAGE 29

Installing required circuits for the hydrotherapy system's blower motor and heated seat. Locating and installing timer switch for the heated seat. Locating and installing waterproof junction boxes.



PLUMBING ROUGH-IN - PAGE 30

Installing required fresh water supply lines. Installing waste & overflow plumbing.



INSTALLING THE BATHTUB - PAGE 31

Placing, leveling, and securing bathtub in position. Installing waste & overflow assembly into the bathtub. Installing front (auxiliary) drain.



MAKING THE CONNECTIONS - PAGE 34

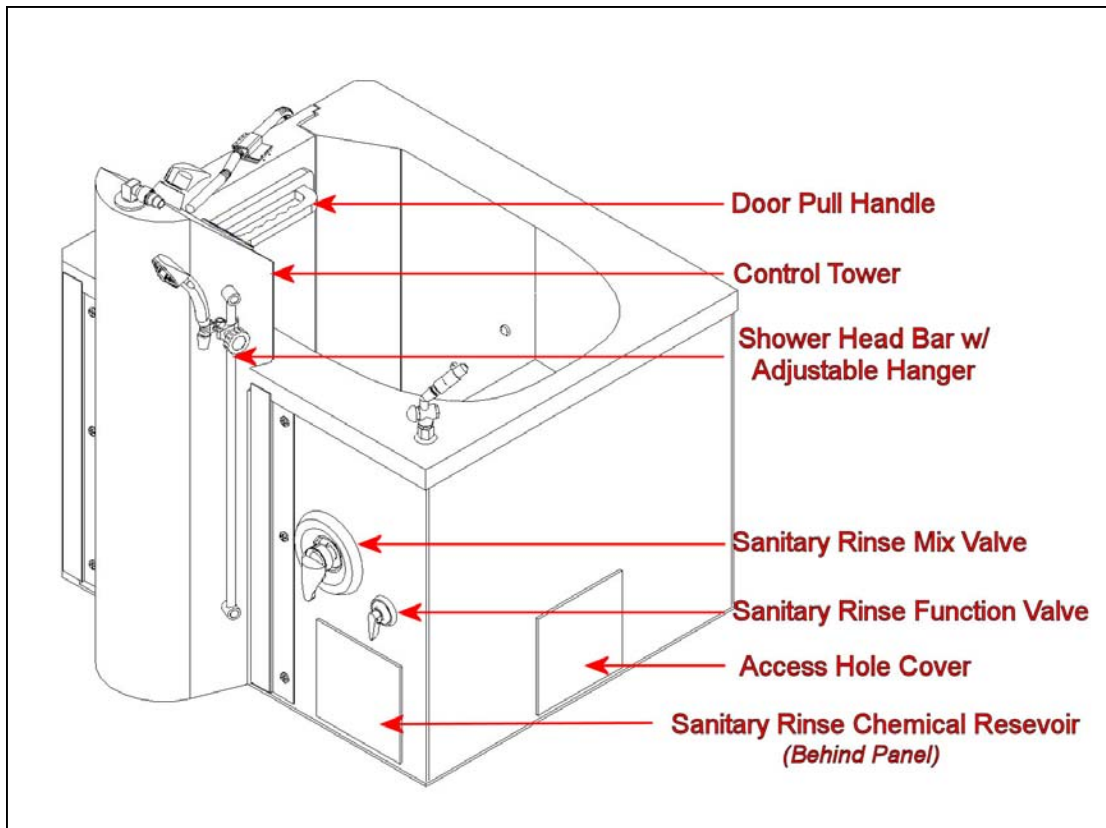
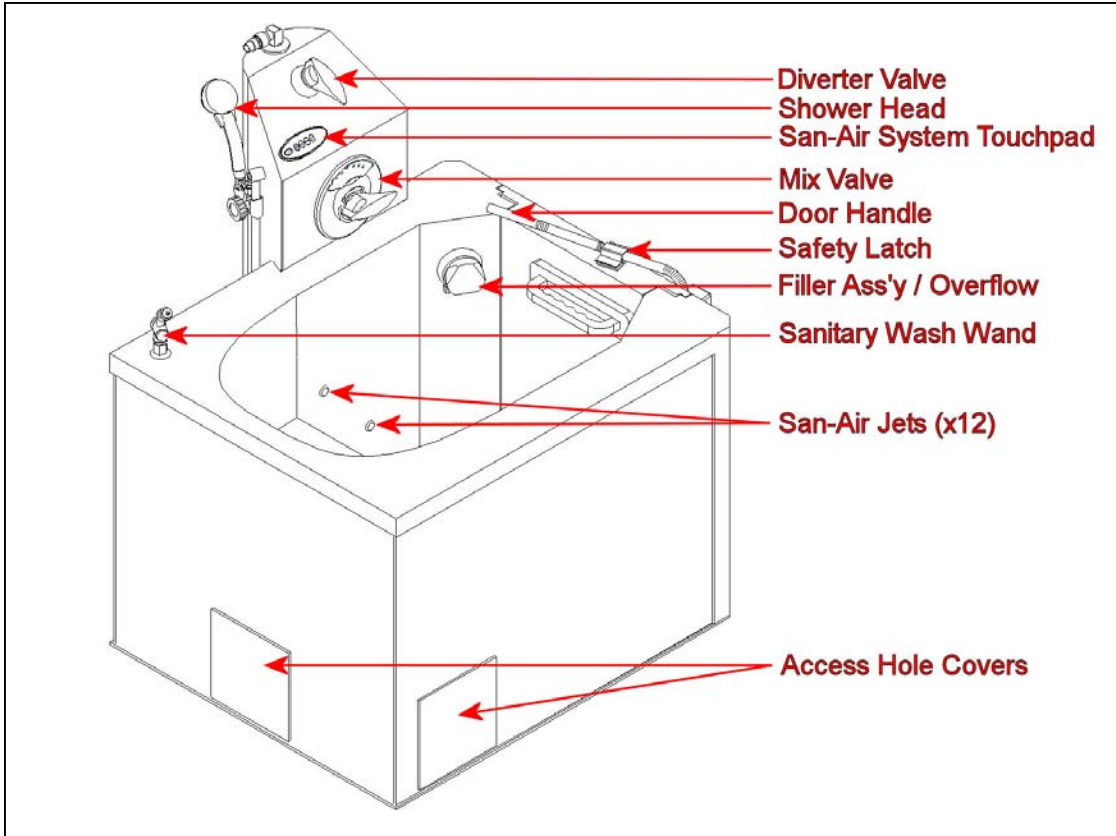
Connecting the blower motor and heated seat transformer to the junction boxes. Connecting the waste & overflow assembly and front drain to the building's waste system. Connecting the fresh water supply lines to the Control Tower and the Sanitary Rinse System.



TESTING & FINISHING - PAGE 36

Installing chemical wash solution. Test the bathtub, the waste & overflow, the hydrotherapy system, and the fresh water connections for leaks. Secure the Control Tower to the bathtub. Final inspection.

I. GETTING TO KNOW THE SAFETY BATH SUPREME



II. PRE-INSTALLATION

1. Observe all standard safety precautions. Use a dust mask during all cutting.
2. The Supreme requires a 110 volt, 15 Amp Class A GFCI circuit to be installed prior to bath installation for the hydrotherapy blower motor. A 110 volt, 10 Amp timer must also be installed on its own circuit for the heated seat. Refer to local, state, and federal electrical codes pertaining to wire size and type. Feed wires to the bathtub should be routed under the floor.

For safety reasons, so not mount an exposed electrical outlet in the same room as the Supreme

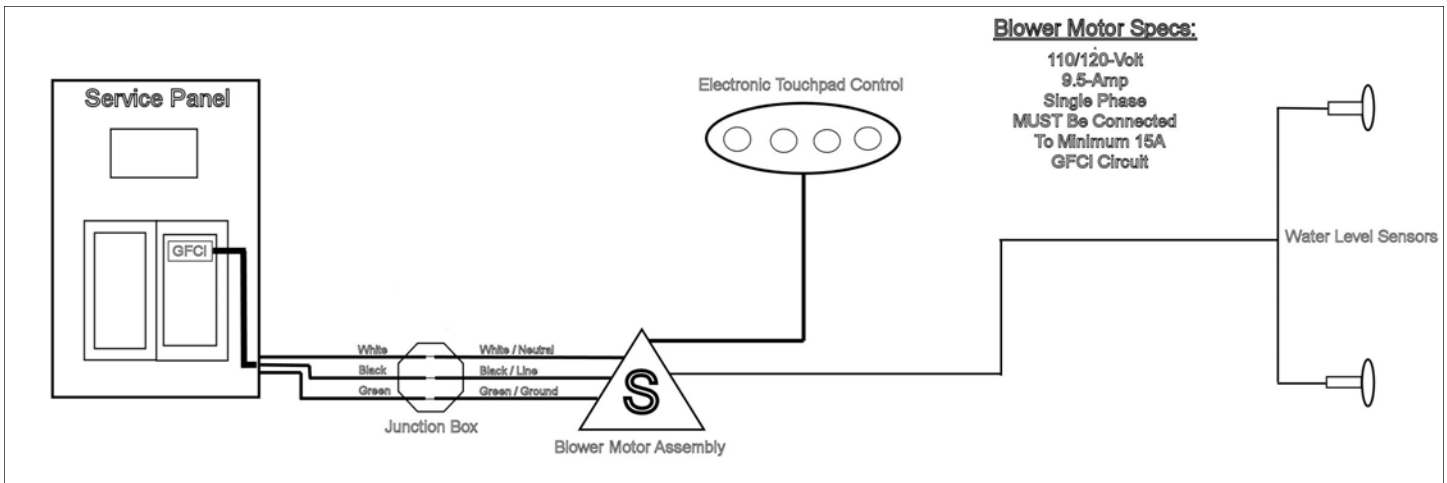


Illustration 27 - Hydrotherapy Blower Motor - Electrical Connections Schematic

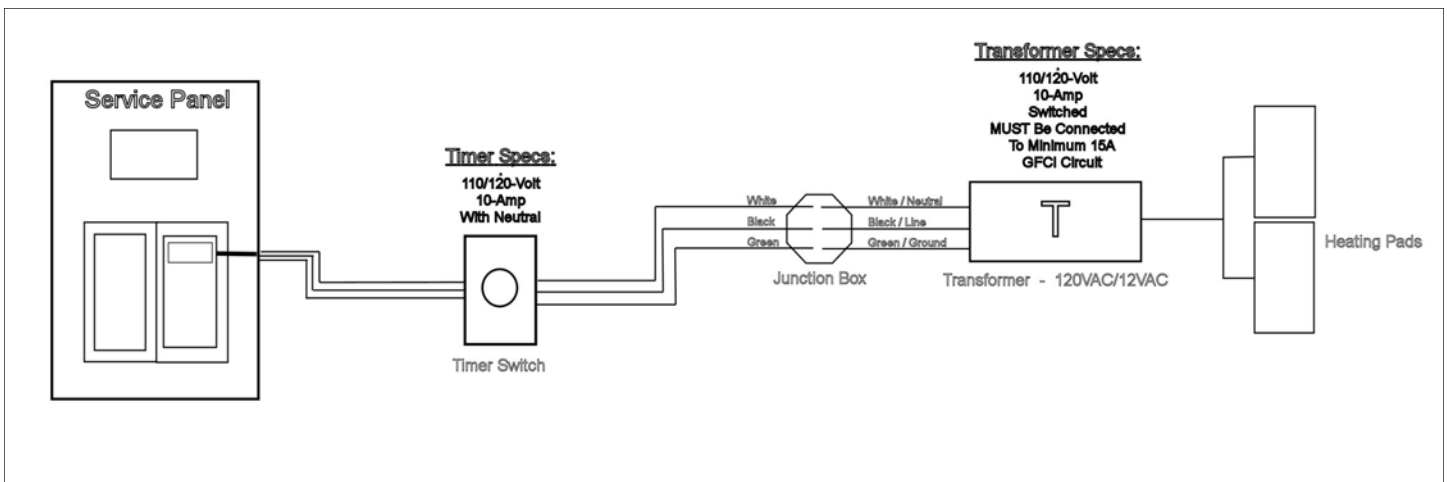


Illustration 28 - Heated Seat - Electrical Connections Schematic

12-Jet Blower Motor Specifications:

CG Industries
 Model# MS-300-750-120/60A-N-1+SF01
 HZ: 60
 Phase: 1
 Volts: 120VAC
 Amps: 9.5
 Duty: Continuous
 Thermally Protected

**MUST be connected to a minimum 15A
 Class A GFCI dedicated circuit**

Seat Warmer Transformer Specifications:

Model # EP-150-US
 HZ: 60
 Volts, Primary: 120VAC
 Volts, Secondary: 24VAC
 Output: 150VA
 Fused

**MUST be connected to a minimum 15A Class A
 GFCI dedicated circuit**

3. Using the floor template provided, mark out the bathtub location on the floor. Be sure to mark the location of the troughs needed for the drain assembly.

Refer to Appendix B for Floor Template Dimensions

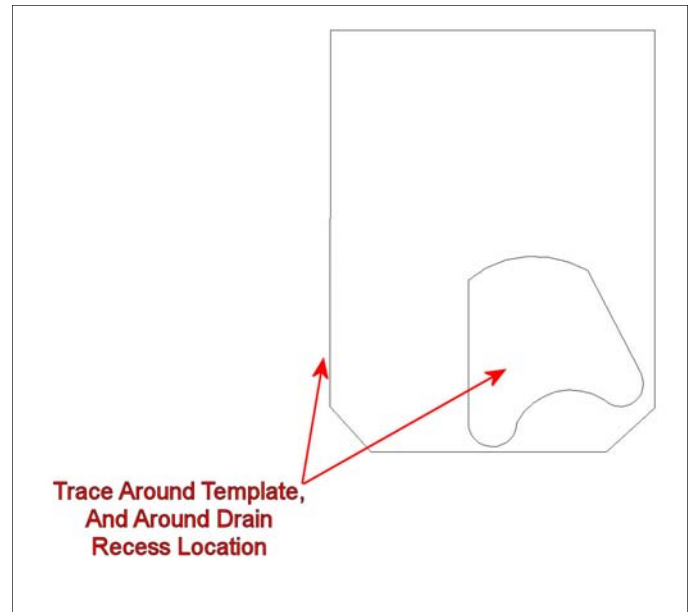


Illustration 29 - Concrete Slab Template Showing Cutout Location

4. The concrete slab will need to be recessed to accommodate the bathtub's waste & overflow assembly to a depth of about 4 1/2". You will also need to provide a recess in the concrete for the building's waste plumbing to the bathtub, as well as a separate trough for a pair of 3/4" fresh water feed lines from the building to the bathtub. Finally, a third recess for the pair of electrical feed cables will need to be cut into the concrete.

Code may determine the depth of the fresh water, waste plumbing, and electrical recesses in the concrete floor. If code does not specify, Safety Bath recommends cutting both troughs 4 1/2" deep to match the recess for the drain assembly.

Have the waste & overflow assembly close by to trial-fit the assembly while concrete slab modification is in progress.

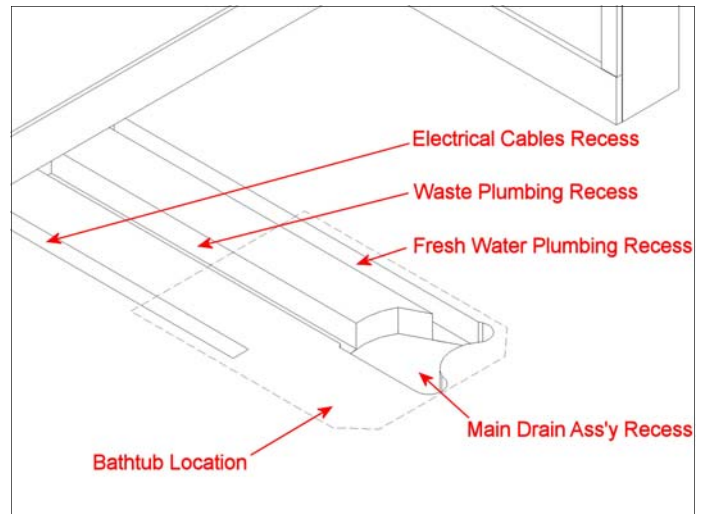


Illustration 30 - Cutting Recesses In The Slab For Plumbing

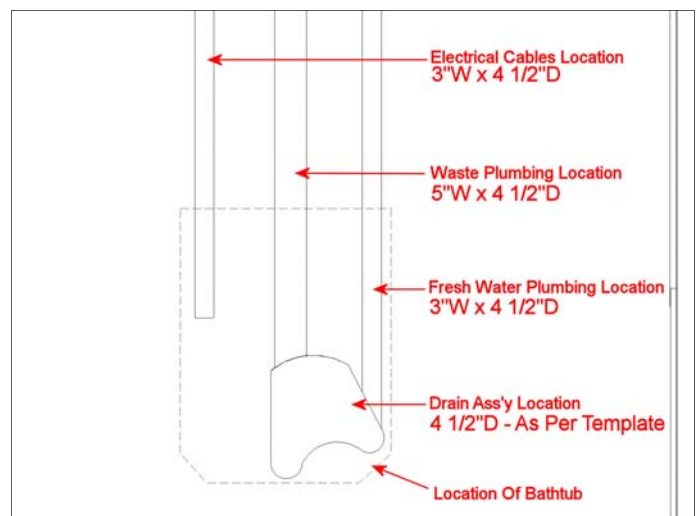


Illustration 31 - Concrete Floor Recess Dimensions

5. Your Safety Bath Supreme has been shipped assembled with the control tower attached to the bathtub with 2 angle brackets and 6 Phillips head screws. In order to gain access to plumbing and electrical connections, the control tower and 3 access panels must be removed. Refer to Illustrations 33 and 34 for details. Set the control tower and access hole covers aside where they won't be damaged.

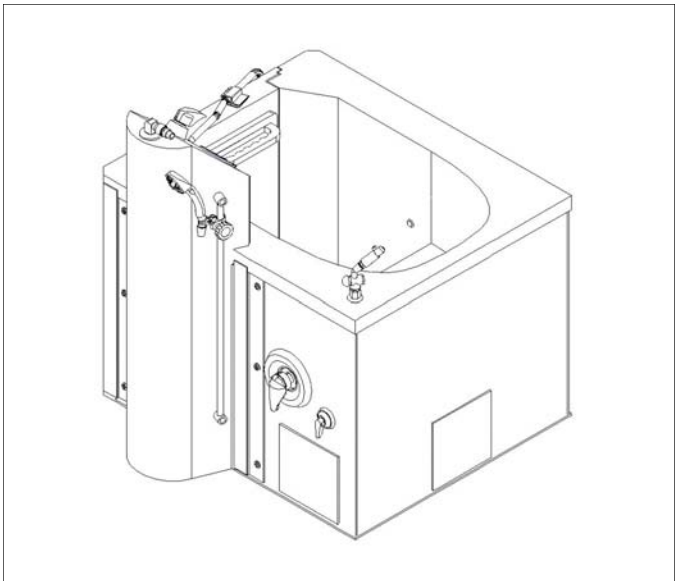


Illustration 32 - Supreme Assembled in As-Shipped Condition

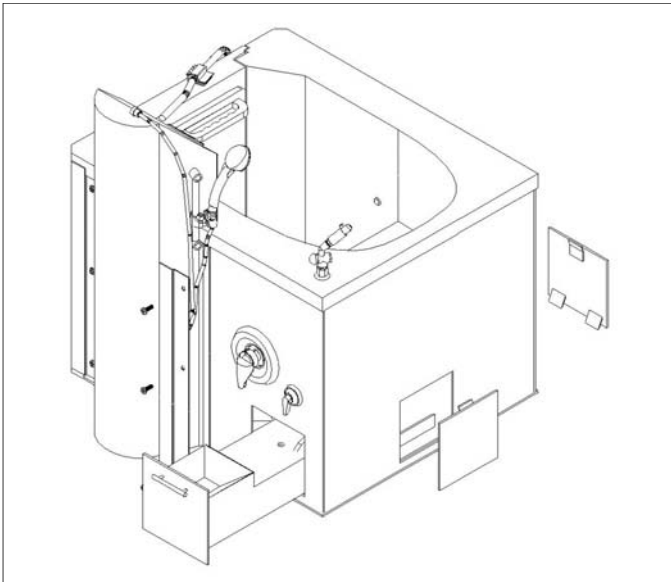


Illustration 33 - Removing Access Panels And Tower Bracket

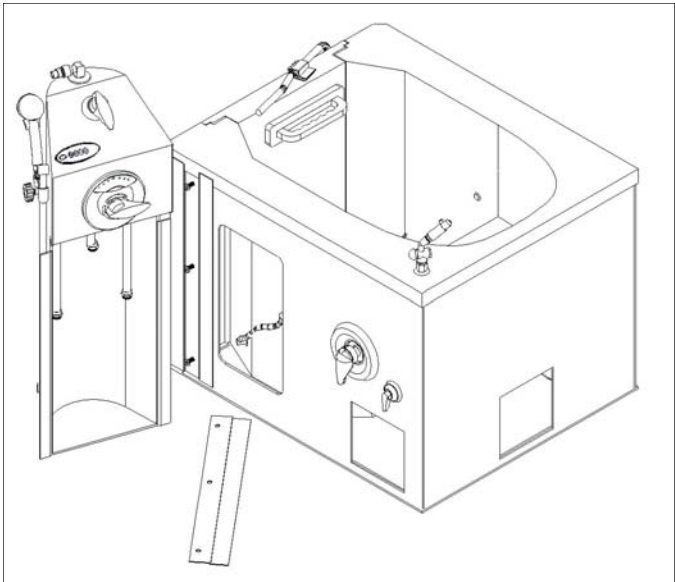


Illustration 34- Access Panels and Control Tower Removed

6. To remove the side and back access hole covers, simply push up on the panel slightly, then gently pull out at the bottom. To re-install the covers, reverse the procedure. Remove covers to access plumbing and electrical connections. Pull out chemical solution reservoir from the tower side of the tub.

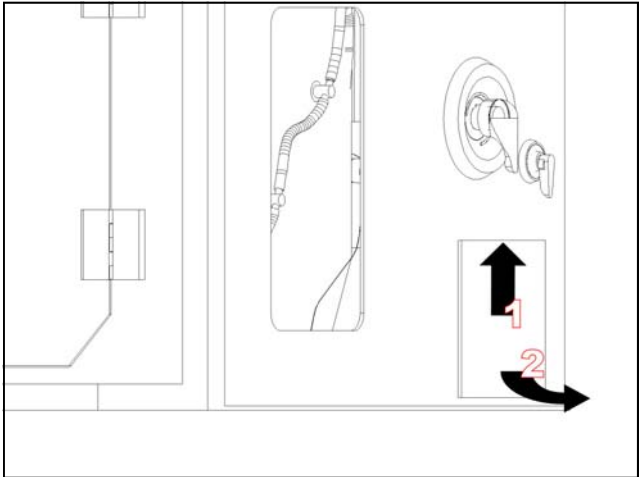


Illustration 35 - Removing Side & Back Access Hole Covers

III. ELECTRICAL ROUGH-IN

1. Observe all standard safety precautions. ALWAYS adhere to local, state, and federal building codes. Obtain permit(s) where required, and have inspections done when permits require.

2. A 30-minute timer switch for the seat warmer, as well as wire between the switch and the seat warmer power adapter needs to be installed. Safety Bath recommends the timer be placed in a convenient location, such as near an entrance door on the wall.

Timer switch must be 10-Amp with a neutral, and be installed on its own circuit.

Refer to Illustration 28, Page 26 for Heated Seat schematic.

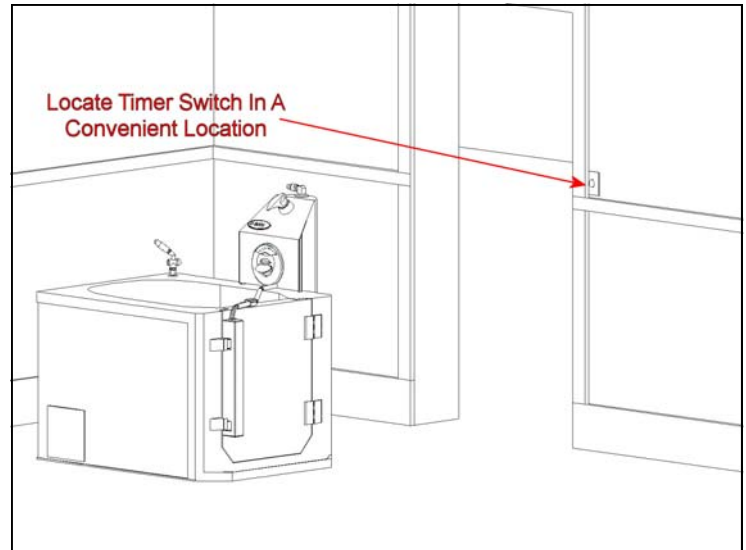


Illustration 36 - Ideal Timer Location For Heated Seat

3. A 120 Volt, 15 Amp dedicated service must be run from the electrical panel to the bathtub. This may also need to be a GFCI circuit. Refer to local, state, and federal codes pertaining to bathroom timer installation guidelines.

Refer to Illustration 27, Page 26 for Hydrotherapy System blower schematic.

4. The dedicated GFCI circuit wire and the wire from the timer switch should be run in the recess cut in the concrete slab for the electrical, and terminate in two separate waterproof electrical junction boxes.

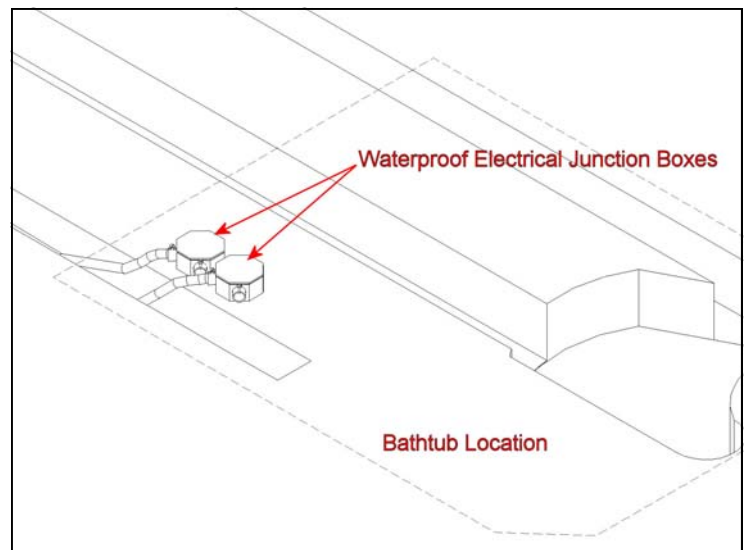


Illustration 37 - Junction Box Placement

IV. PLUMBING ROUGH-IN

1. Observe all standard safety precautions. ALWAYS adhere to local, state, and federal building codes. Obtain permit(s) where required, and have inspections done when permits require.

2. A pair of 3/4" hot and cold fresh water supply lines must be installed to feed a 3/4" mixing valve assembly. They must also have an in-line tee connection in each to feed a 1/2" faucet assembly. The fresh water supply lines must be installed before the bathtub is in place to make plumbing easier.

Do not make any final connections to the bathtub's fixtures at this time.

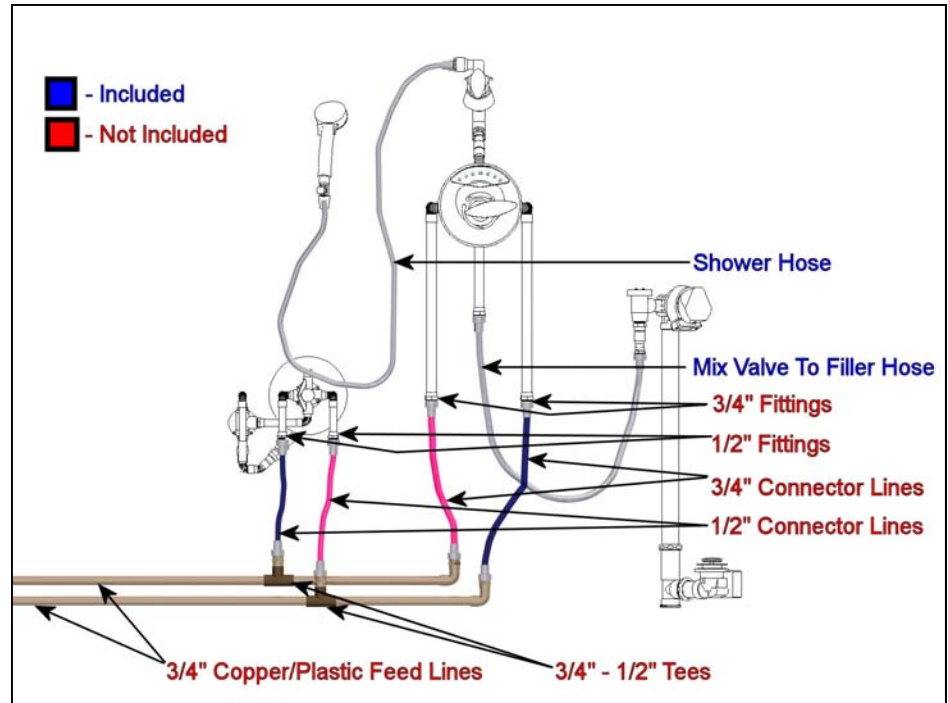


Illustration 38 - Fresh Water Supply Line Requirements

3. A standard 1 1/2" PVC waste pipe must be installed as per code to drain the main bathtub drain, as well as the front drain. Both drains are supplied, however, the connecting plumbing adapters and "Y" connector are not. Refer to Illustration 39 for an example of what the waste & overflow plumbing may look like.

NOTE: This is an example only. Your plumber will decide the best way to connect the drains for your situation.

Be sure to properly vent the waste pipe as per code.

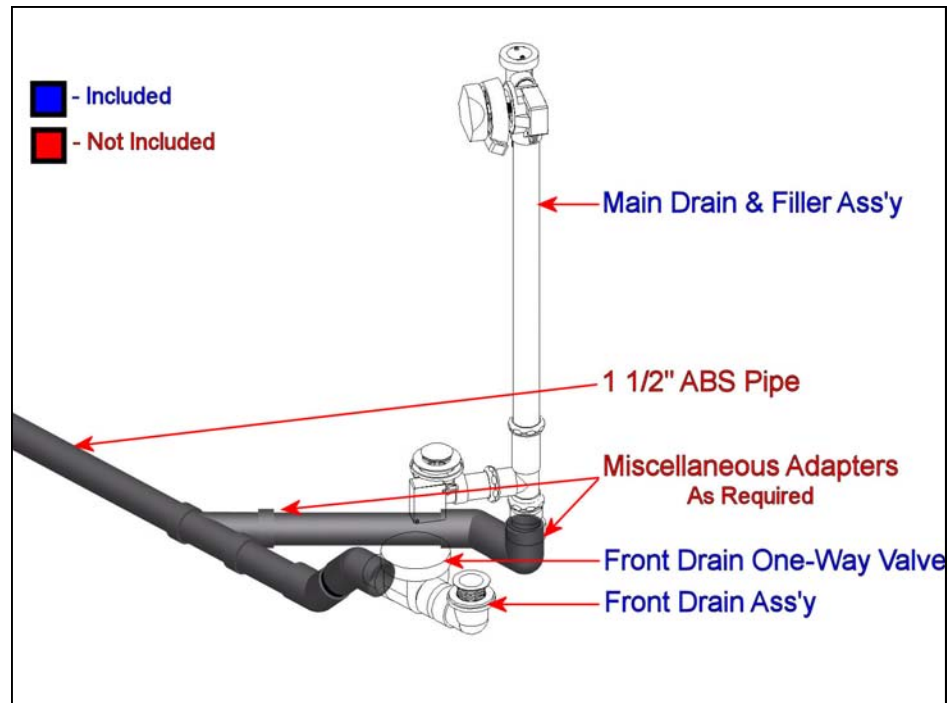


Illustration 39 - Waste & Overflow Pipe Requirements - Sample Diagram

V. INSTALLING THE BATHTUB

1. Now that the electrical and plumbing is roughed in, it's time to install the drain and overflow assembly, as well as the front drain, into the bathtub.

2. Safety Bath Supreme's main drain and overflow unit comes pre-assembled for ease of installation. This unique unit doubles as a 3/4" filler unit for fresh water. To install the waste & overflow assembly, first loosen the set screw on the drain actuator knob and remove the knob. Remove the small rubber washer and through bolt. The overflow shroud and filler unit then pull off the main shaft.

Remove the main drain pop-up valve, the through bolt, and the sealing collar from the main drain housing. To disassemble the front (auxiliary) drain, remove locking collar. Leave rubber gasket in place on the drain housing. Refer to Illustrations 40, 41, and 42.

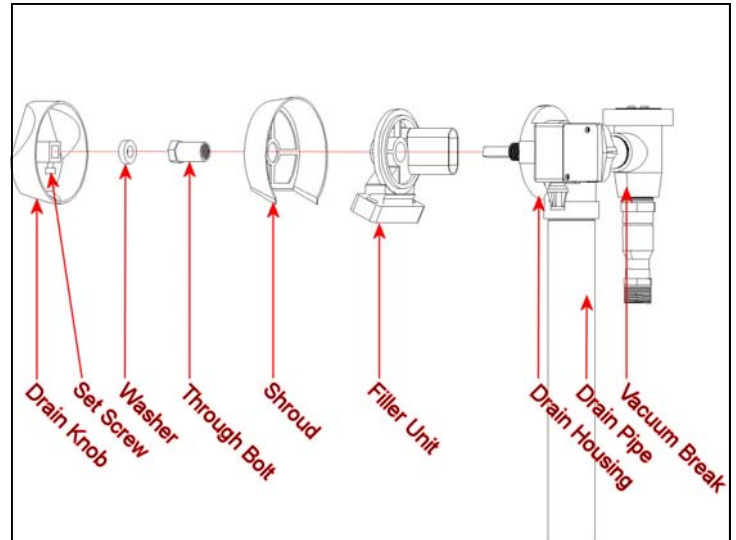


Illustration 40 - Exploded View Of Drain Actuator

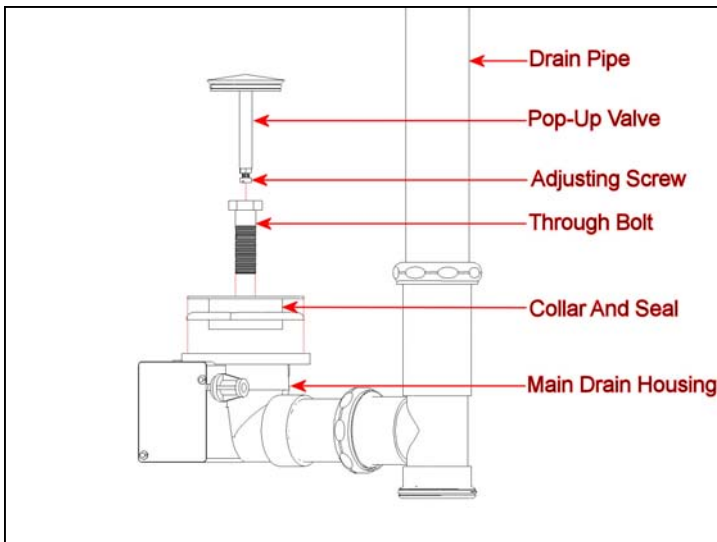


Illustration 41 - Exploded View Of Main Drain

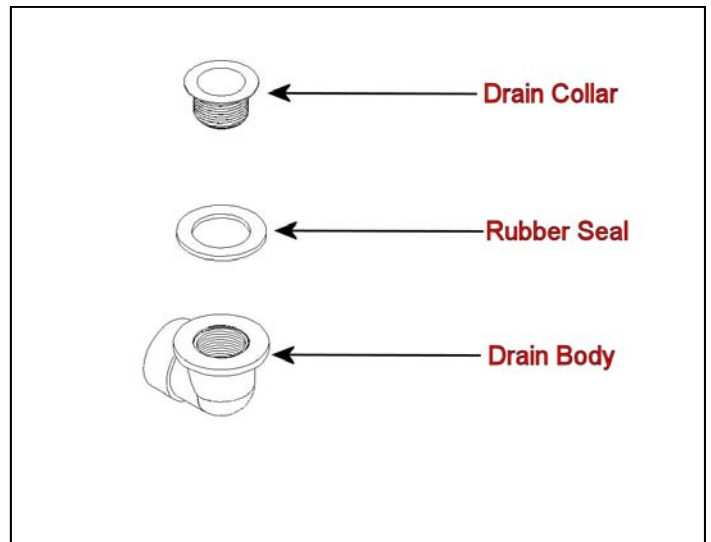


Illustration 42 - Exploded View Of Front Drain

3. With the drain assemblies disassembled, flip the bathtub on its back, out of the way. Lay a piece of carpet or cardboard under the bathtub so as to not scratch the surface. With the help of a second person, carefully guide the main drain and overflow assembly into position. Refer to Illustrations 43 & 43a. *Be careful not to allow the bathtub to rest on the bottom portion of the waste & overflow assembly.*

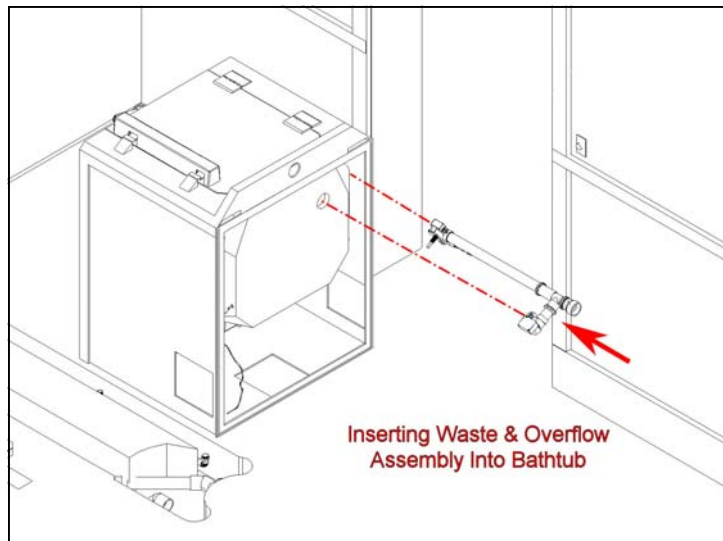


Illustration 43 - Installing Main Drain & Overflow Ass'y

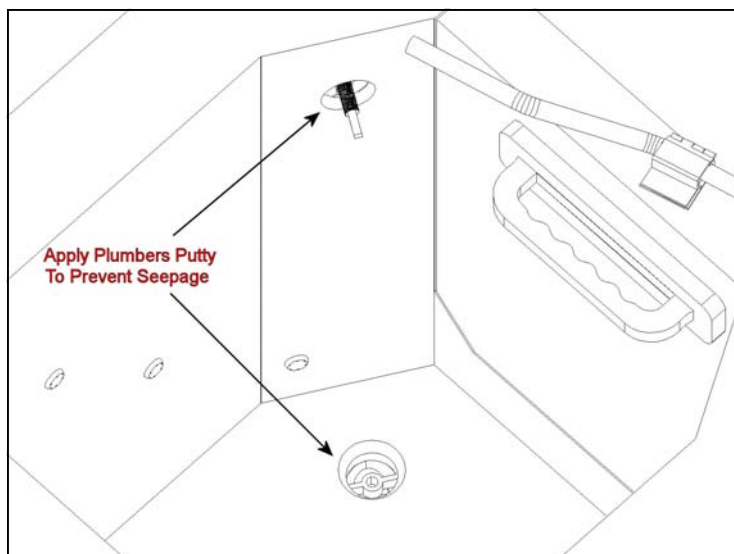


Illustration 43a - Waste & Overflow In Place

4. Re-assemble the drain actuator and main drain components. Refer to Illustrations 40 and 41. Be sure to snug, *but don't over-tighten*, through bolts to ensure a good seal.

Over-tightening through bolts can distort the inner boss, and cause binding with the shaft or valve which pass through the boss.

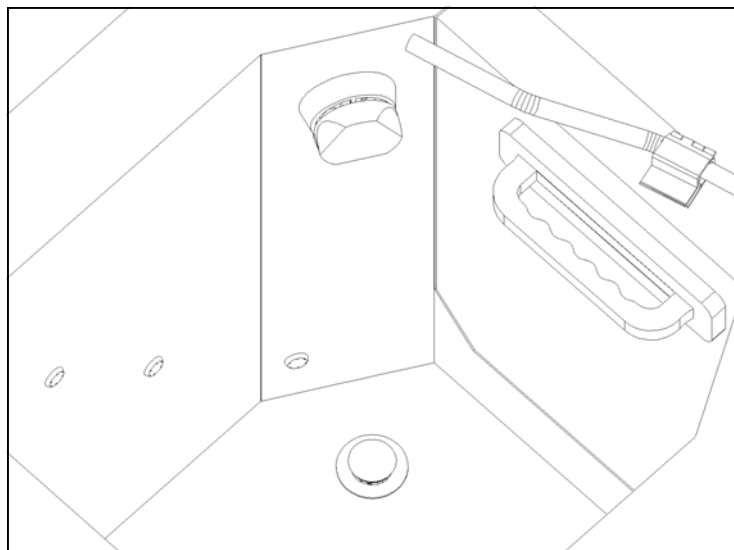


Illustration 44 - Drain Actuator And Main Drain Assembled In Bathtub

5. With the bathtub still on its back, install the front (auxiliary) drain. Re-assemble front drain as per Illustration 42 on page 31.

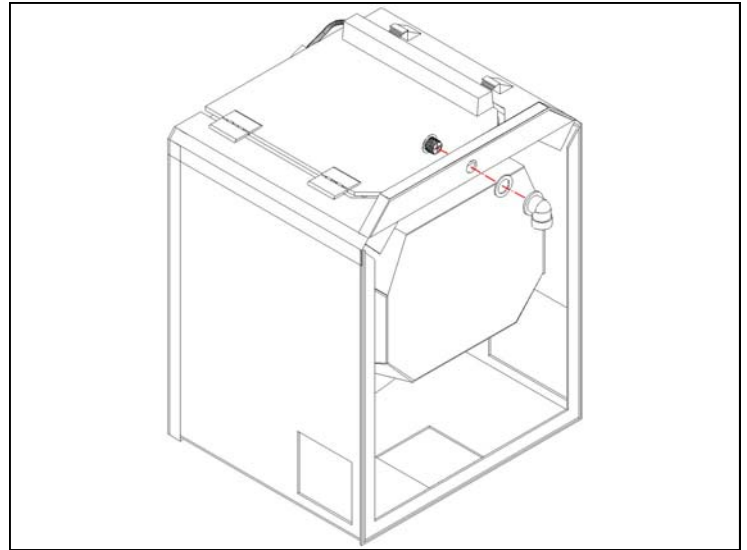


Illustration 45 - Installing Front Drain

6. Now that the drains are installed, you can get the Supreme off its back and back into position. Check for level and plumb in all directions. Once the position is confirmed, run a bead of silicone around the bottom of the bathtub which meets the floor, and around any side edges that may be positioned against a wall.

VI. MAKING THE CONNECTIONS

1. The connections from the blower motor and the heated seat transformer to the junction boxes can now be made. Make sure all connections are to code, and the junction box covers are installed securely as to not allow moisture inside. Leave all electrical components non-energized for now (*leave breakers OFF*).

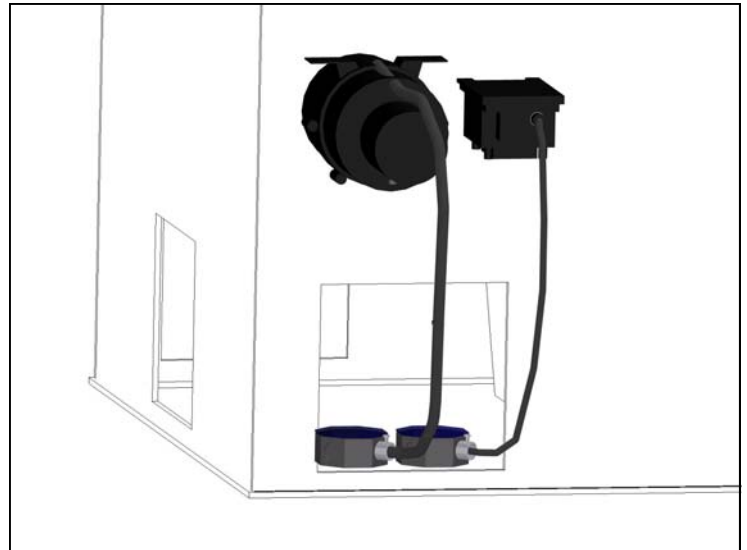


Illustration 46 - Connections To Junction Boxes

2. The two drains now need to be hooked up to the waste plumbing installed in step 3 on page 30. Gently lift bathtub until you can access the waste plumbing. Place blocks under the bathtub to support while you work underneath. Connect to the bathtub's main and front drains to the waste plumbing. If your Supreme came with the Shallow Drain Kit option, an anti-backup (one-way check) valve has been included in the kit. Be sure it is installed correctly as per illustration 47. Make sure all connections are permanently cemented.

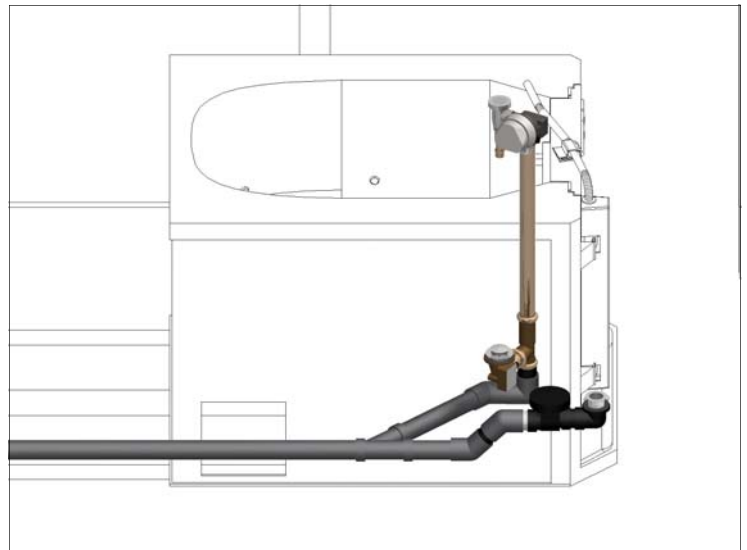


Illustration 47 - Finished Waste Plumbing Connections

Refer also to Illustration 39, page 29.

3. Check the floor to see if it is level and straight. If it is not, use shims and a level to ensure bathtub is perfectly level in both horizontal directions. Once the position and level of the tub is satisfactory, lay a bead of caulk around all edges of the tub which meet the floor or walls.

4. The fresh water supply lines can now be connected from the building's 1/2" supply connectors to the chemical wash valve. A pair of 1/2" plastic supply lines and suitable fittings will be needed (not supplied). You may refer to Illustration 10 on page 14 for more information. Make sure all connections are tight.

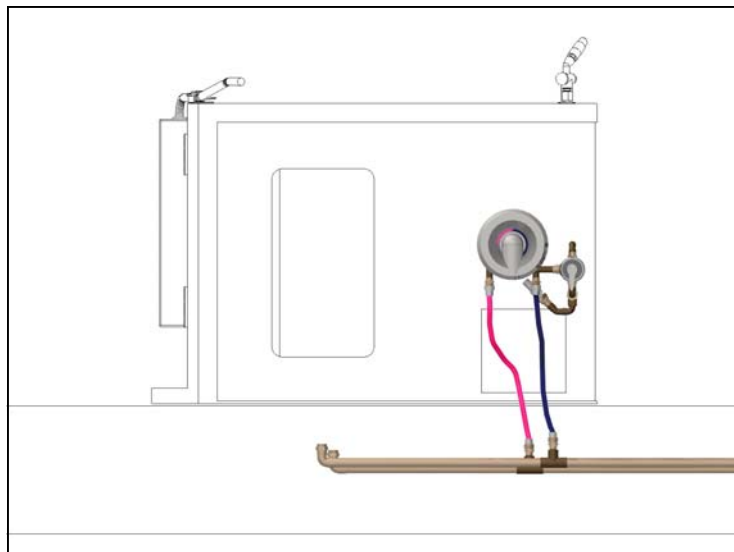


Illustration 48 - Connecting Water Supply Lines To Chemical Wash

5. Two 3/4" plastic supply lines and suitable fittings (not supplied) will be needed to connect from the building's 3/4" fresh water supply lines to the control tower's mixing valve assembly.

The 3/4" braided line (included) from the diverter valve will also need to be connected at this point to the water filler assembly. Refer to Illustrations 49b (this page) and 38 (page 29) for details. Make sure all connections are tight.

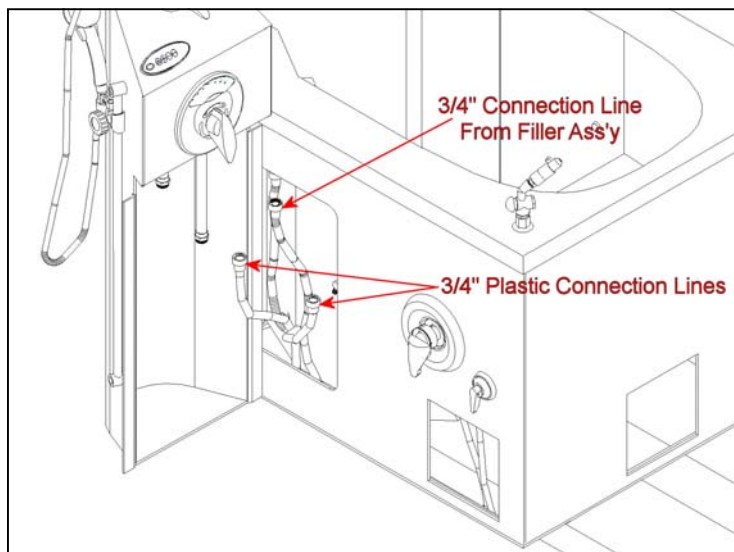


Illustration 49a - Routing 3/4" Water Supply Lines

At this point, you may place the control tower into place, but do not permanently fasten the tower to the bathtub yet, so inspection for water leaks will be possible while testing.

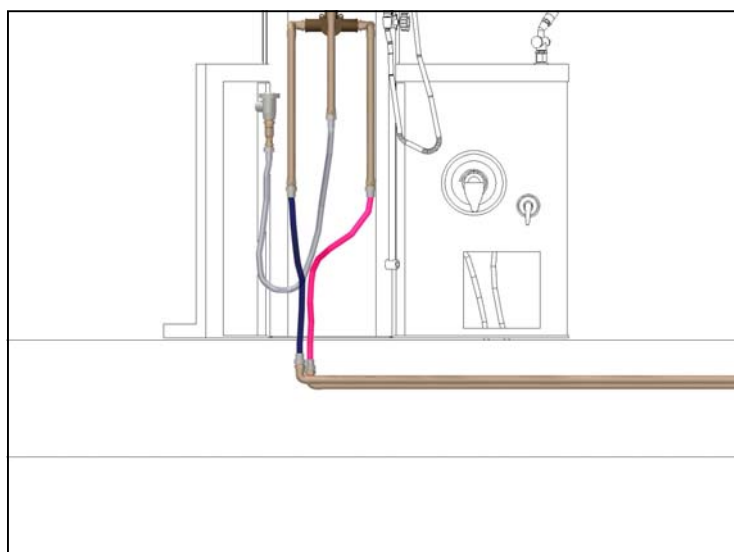


Illustration 49b - Connecting Water Supply Lines To Control Tower

VII. TESTING AND FINISHING

1. Now that your Supreme is more or less installed, it's time to put on the finishing touches and test your new bathtub. Pour an approved sanitizing chemical solution into the Sanitary Wash Chemical reservoir. Access the reservoir by simply sliding it out from behind the access cover on the tower side. Make sure to not pull the reservoir out too far. If the chemical does not drain into the reservoir, simply open the filler by pushing down on the center of it, in similar fashion to opening a bathtub drain.

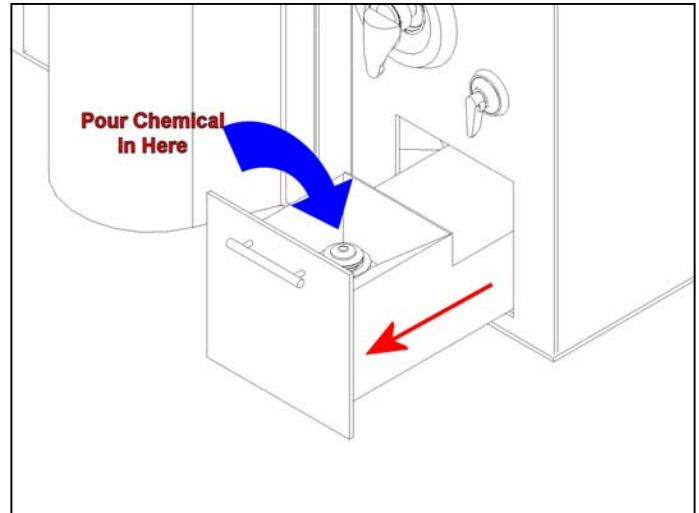


Illustration 50 - Adding Sanitary Wash Chemical

2. To test the installation:

⇒ Turn on the building's fresh water shutoff valves and make sure the breakers powering the circuit to the pump and timer switch are turned on.

⇒ Close the bathtub's door and latch it.

⇒ Turn the diverter valve counter-clockwise until it stops, and open the mixing valve. Water should begin to flow from the filler unit, which is integrated into the drain actuator and overflow assembly. Allow water to run down the main drain for 2 - 3 minutes, occasionally changing the temperature on the mixing valve. Check beneath the bathtub during this process via the three access holes to quickly identify any water leaks in the plumbing.

⇒ Check for any leaks in the supply line connections inside the tower by carefully pulling the tower away from the bathtub.

⇒ Verify shower head operation. Rotate diverter valve clockwise completely until it stops. Open the mixing valve and operate the shower head. Check for any leaks in the hose connections that may need to be tightened.

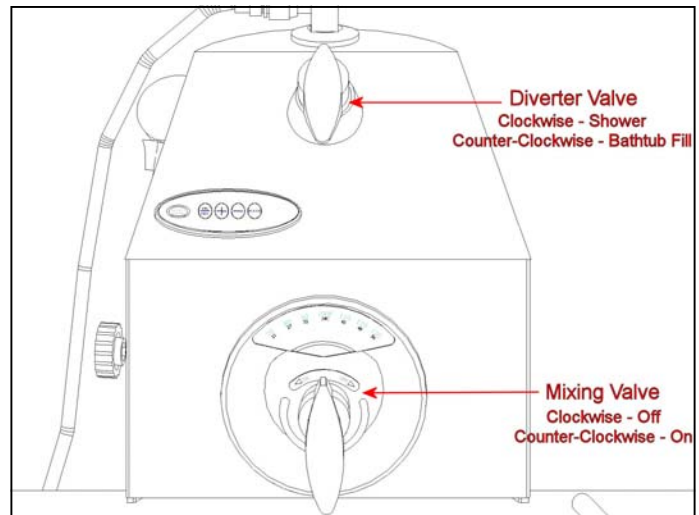


Illustration 51 - Control Tower Water Valve Functions

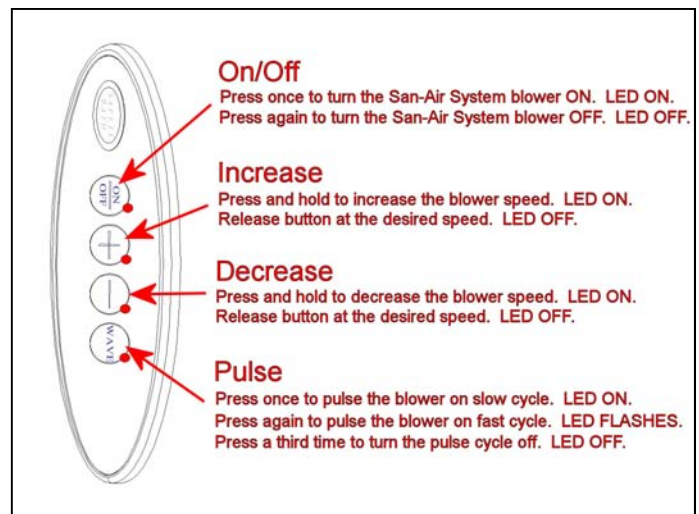


Illustration 52 - San-Air Touchpad Functions

- ⇒ Close the main drain by turning the drain actuator knob counter-clockwise. Allow the tub to fill with water to within 6 inches or so of the overflow (which is built in to the drain actuator assembly), making sure the water is at least 2" above the top of the highest jets. Once full, turn on the san-air jet system. Refer to Illustration 52, previous page, for operation of the San-Air Hydrotherapy System.
- ⇒ Run the San-Air system at different levels for a few minutes, making sure water is exiting all the jets. Remove access hole covers and check for any leaks or damage in the hydrotherapy system's plumbing. Replace covers.
- ⇒ Drain the water from the bathtub by turning the drain actuator knob clockwise. After the water has completely drained, the drying cycle will begin after about 2 minutes. drying out any water left in the jets. This drying cycle will last for approximately 5 minutes, then will automatically shut off.
- ⇒ Test the bathtub heated seat operation. Set the timer for 10 minutes. After a few minutes, the seat bottom and sides should begin to feel warm.
- ⇒ Test the rinse wand operation. Refer to Illustration 53 for details. Open the main valve, lift the rinse wand from the bathtub, and depress the plunger on the rinse wand to release spray from the nozzle. Operate the rinse in both the fresh water (rinse) mode, as well as the chemical (sanitizing) mode. Return the rinse wand to its estuations on the bathtub, and turn the main water valve off.

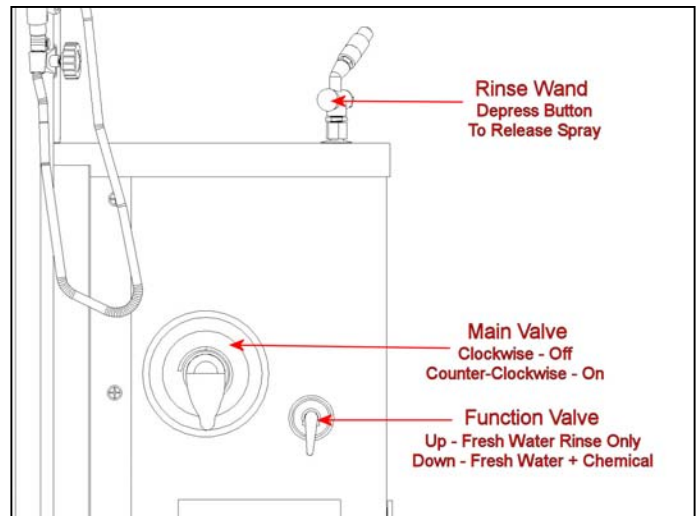
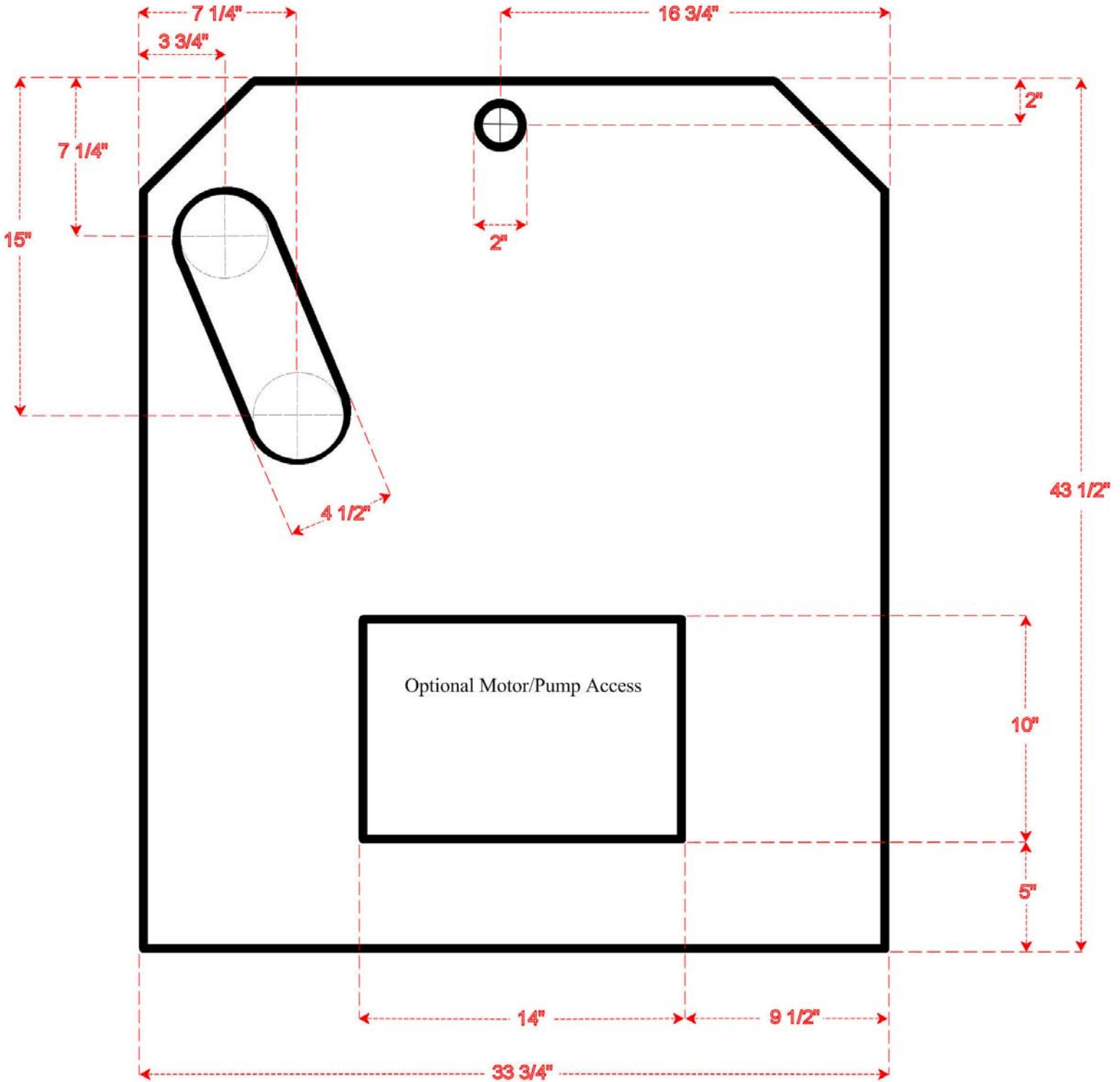


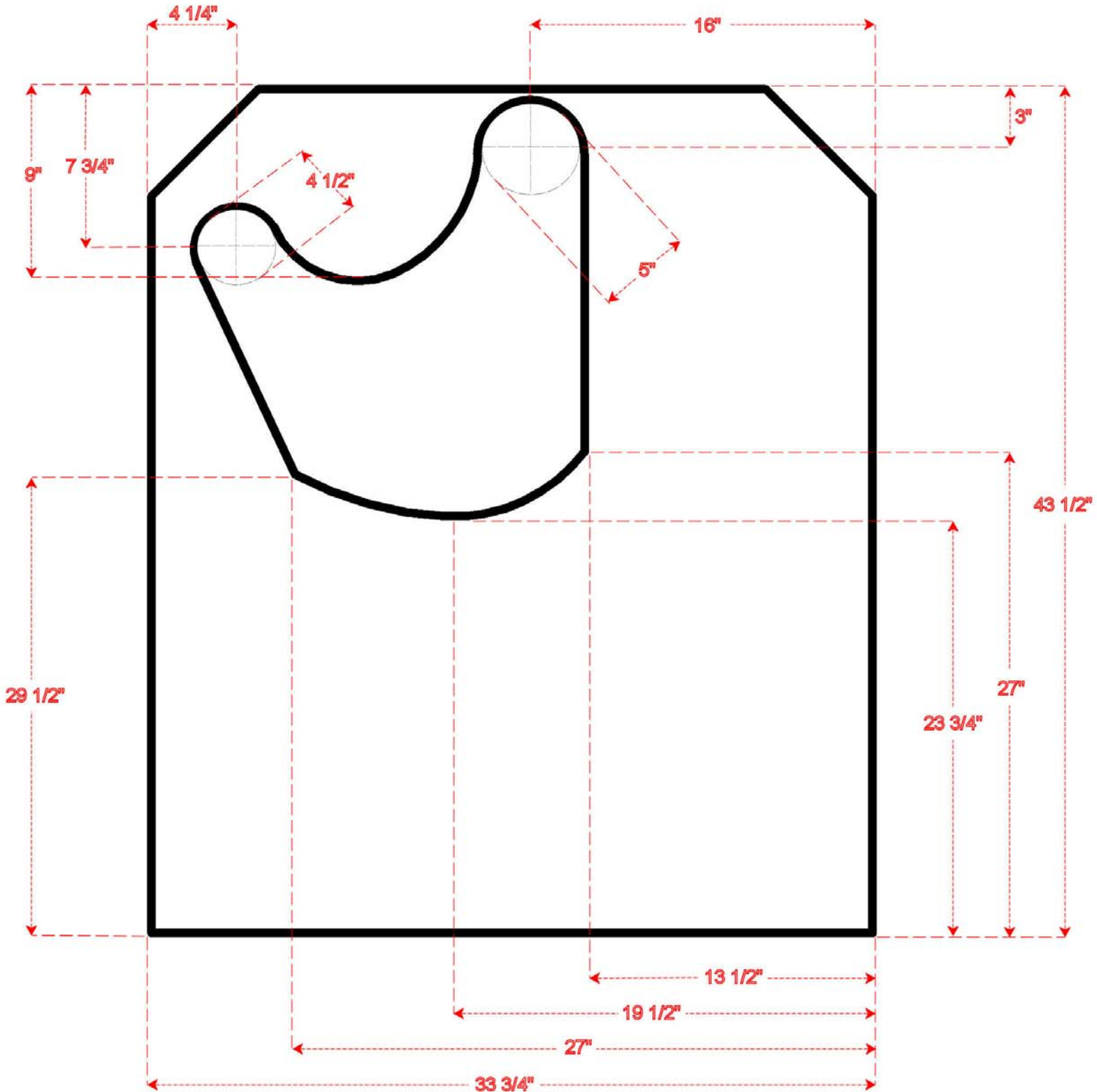
Illustration 53 - The Sanitary Wash Functions

3. Your Supreme installation is done! You can now make sure the control tower is in place , and install the control tower retaining bracket, securing it to the bathtub with the three philips -head screws provided.

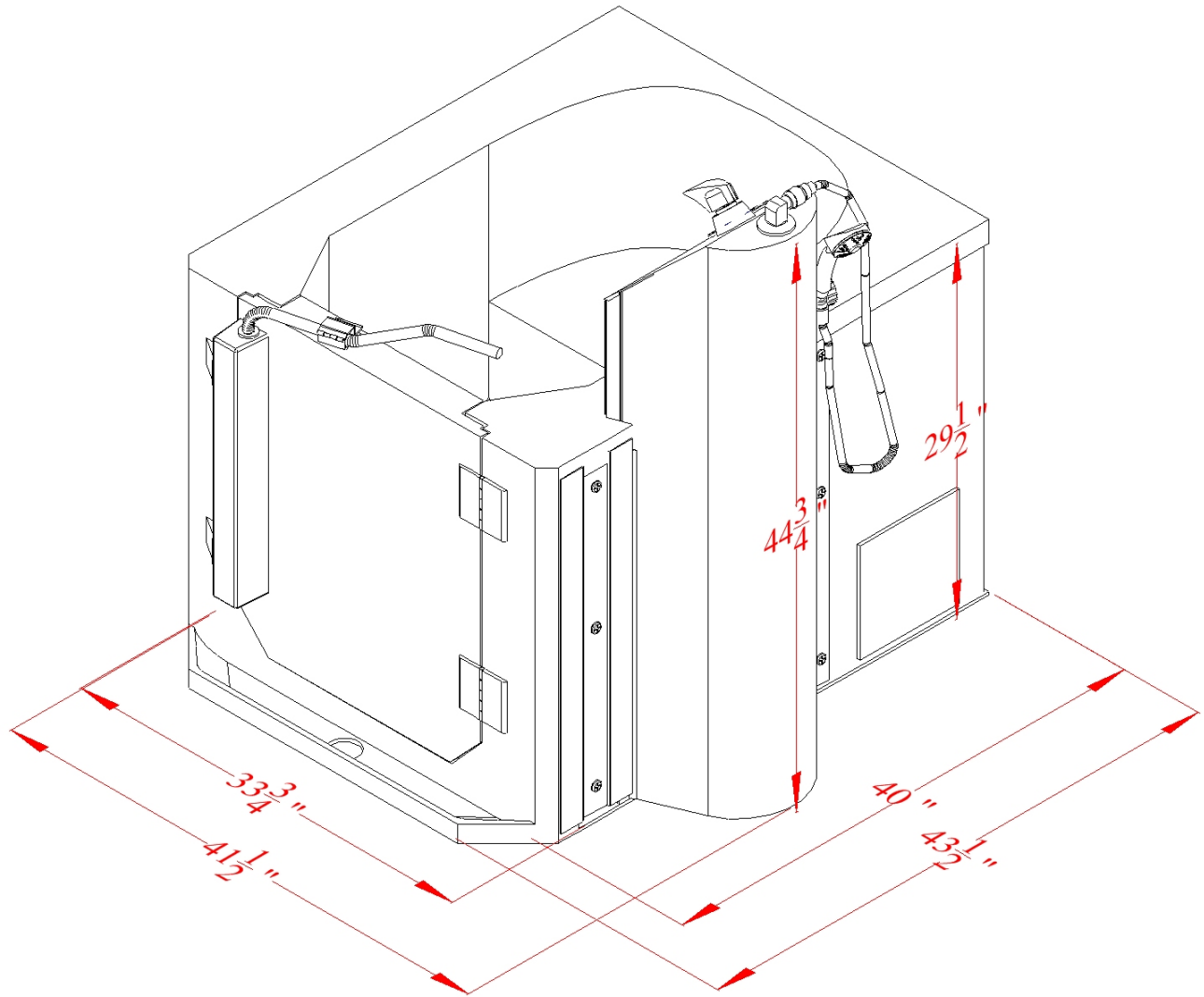
APPENDIX A -- SAFETY BATH SUPREME FLOOR TEMPLATE-- WOOD FLOOR



APPENDIX B -- SAFETY BATH SUPREME FLOOR TEMPLATE-- CONCRETE FLOOR

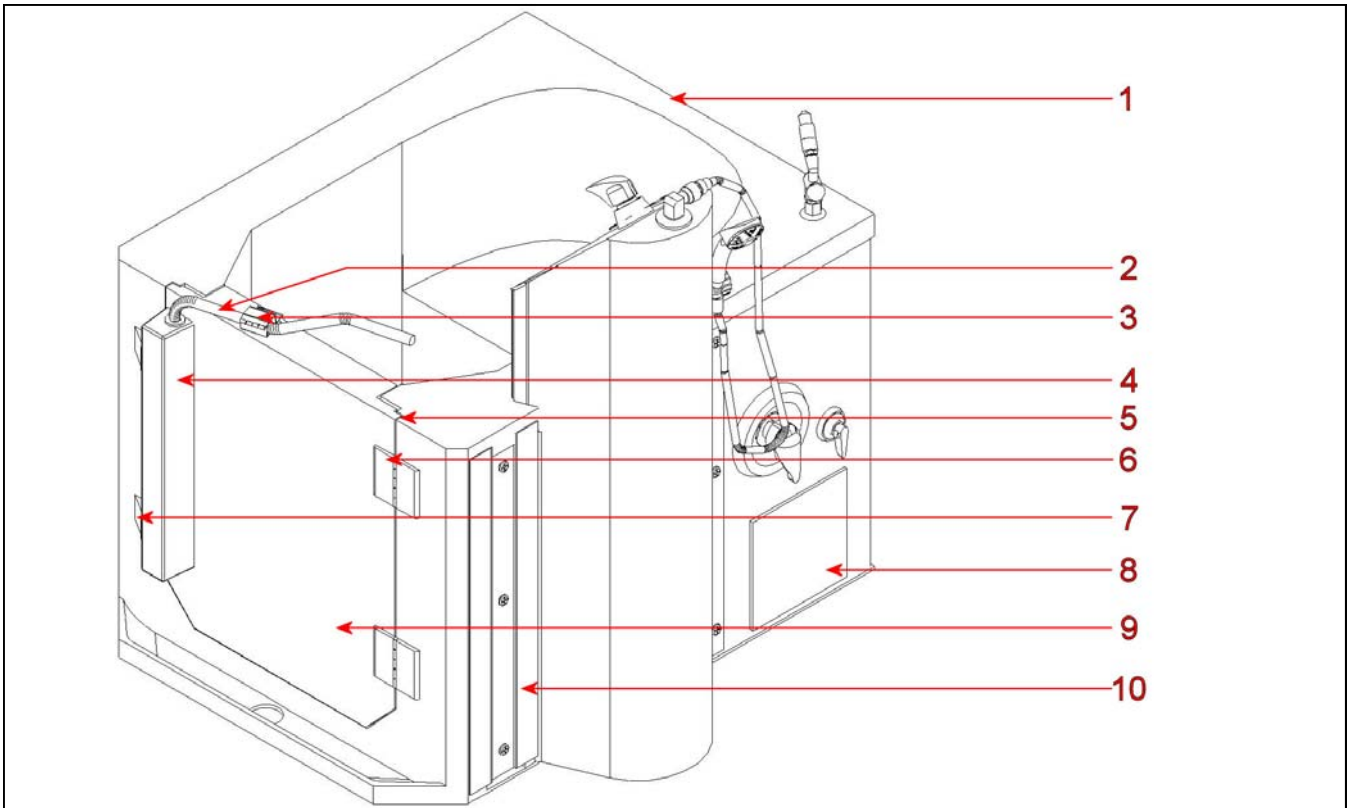


APPENDIX C -- SAFETY BATH SUPREME DIMENSIONS

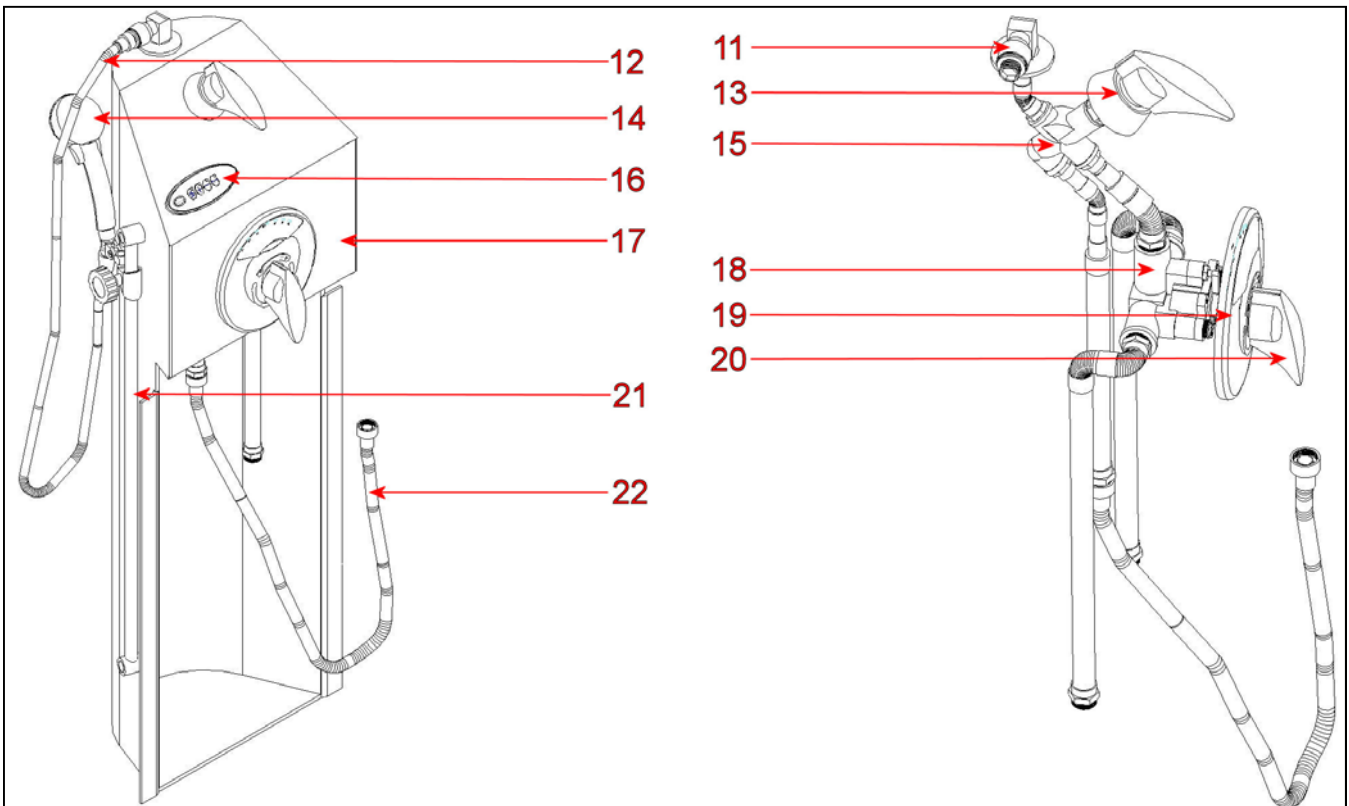


APPENDIX D -- SAFETY BATH SUPREME REPLACEMENT PARTS LIST

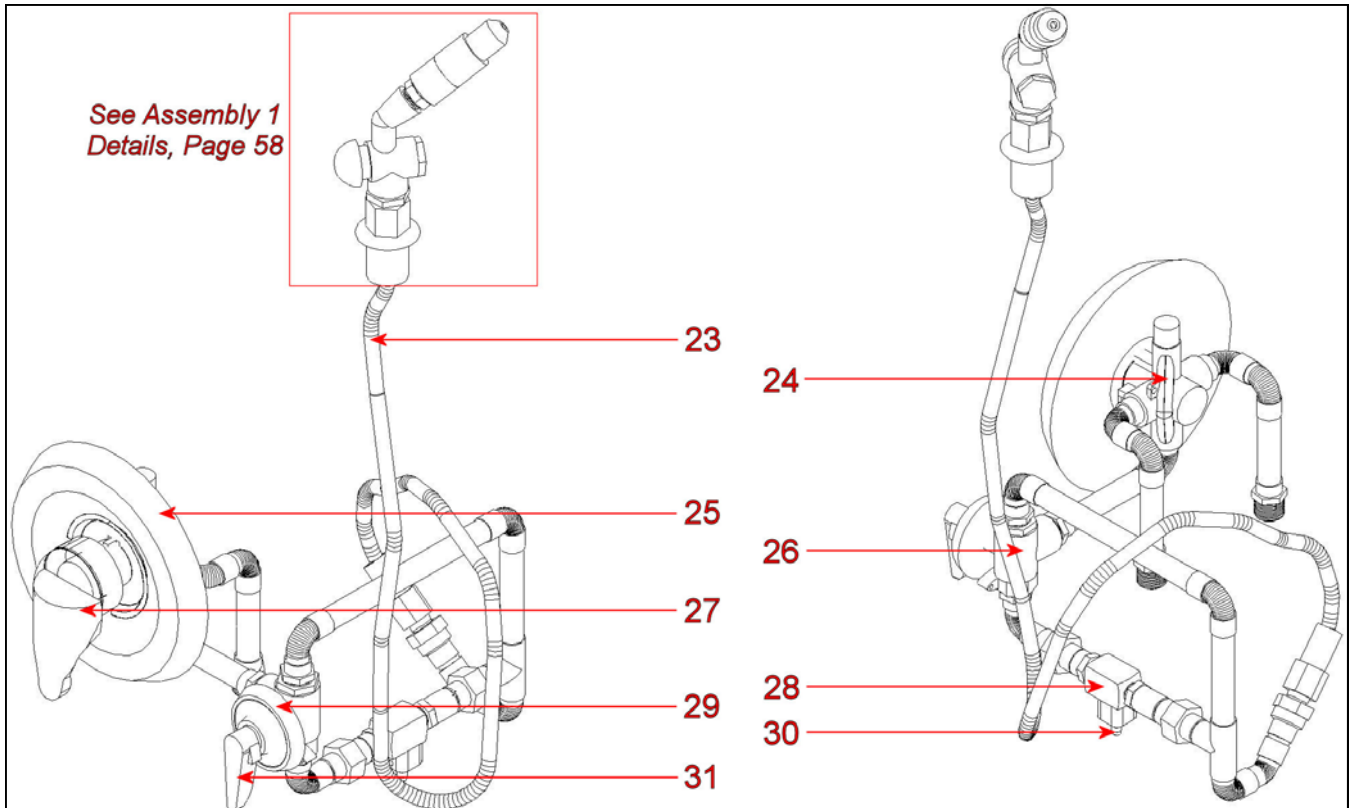
Major Components



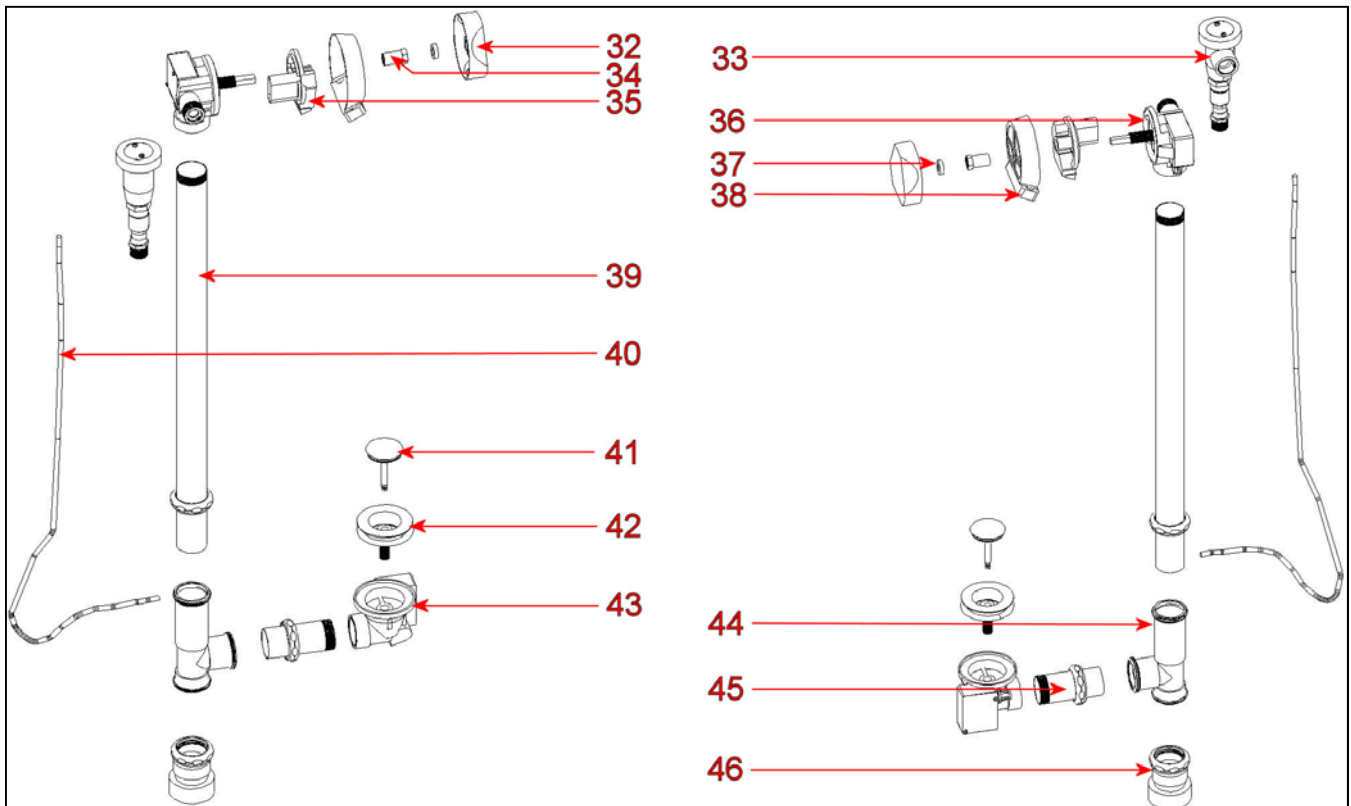
Control Tower



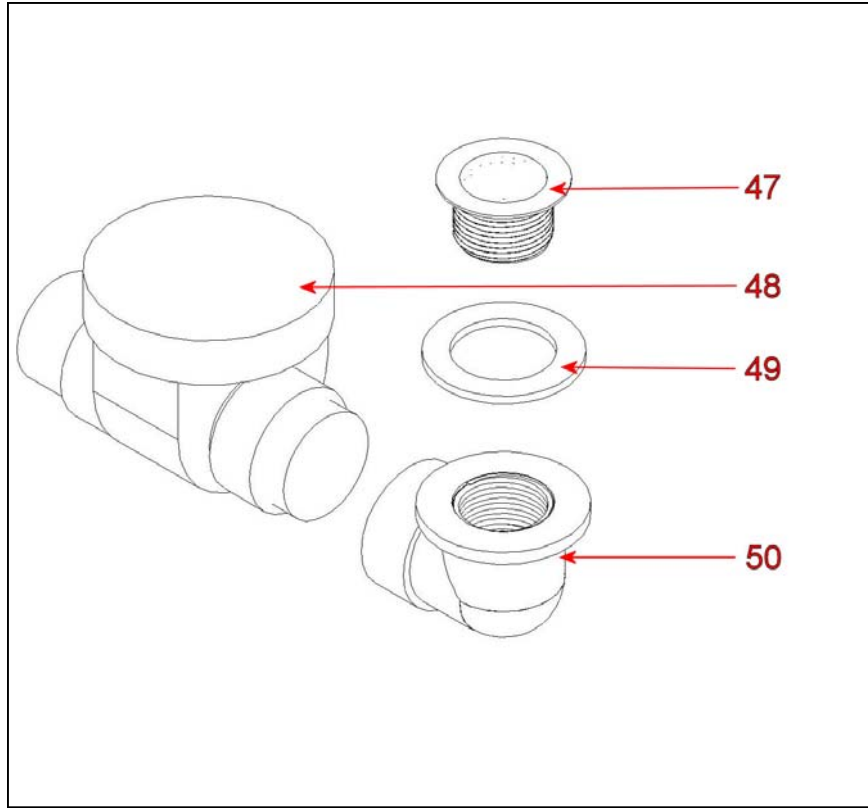
Sanitary Rinse System



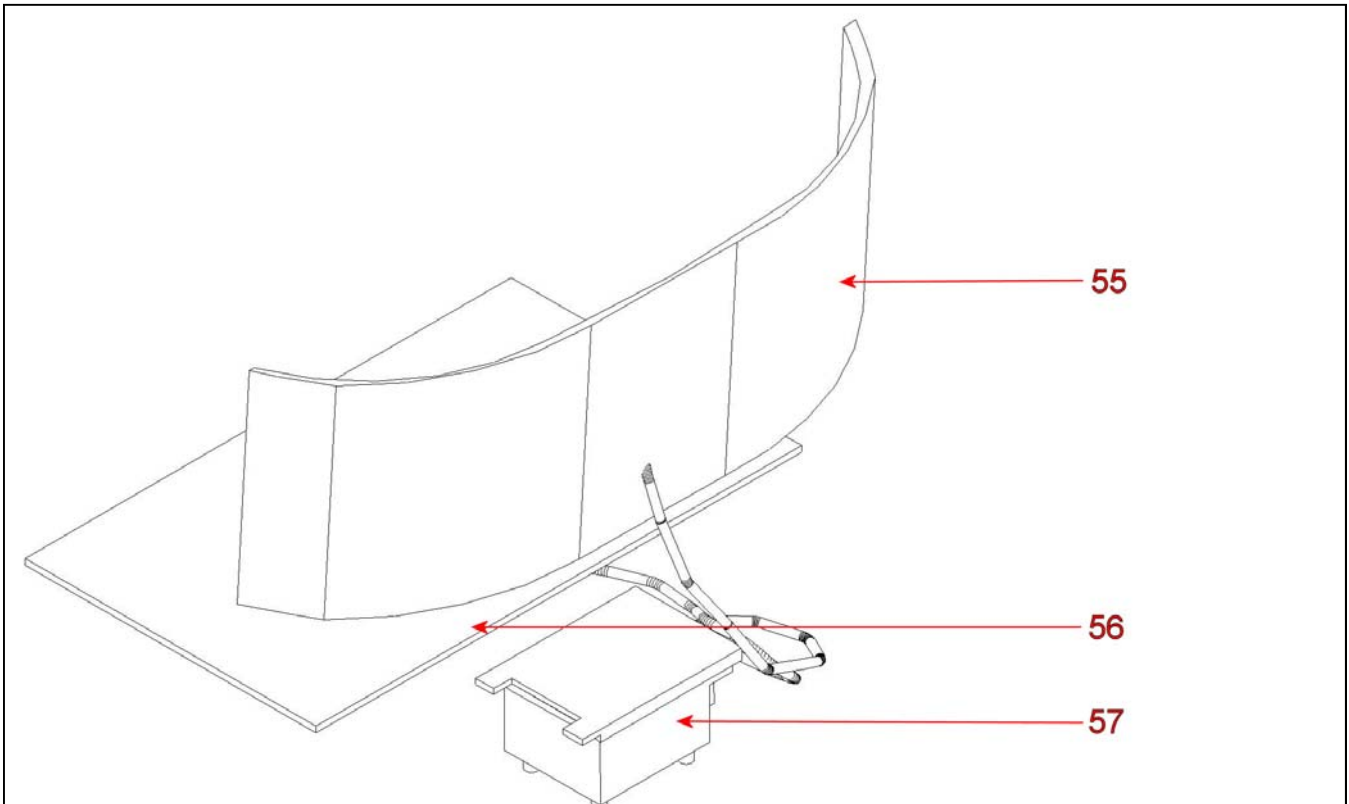
Main Drain Assembly



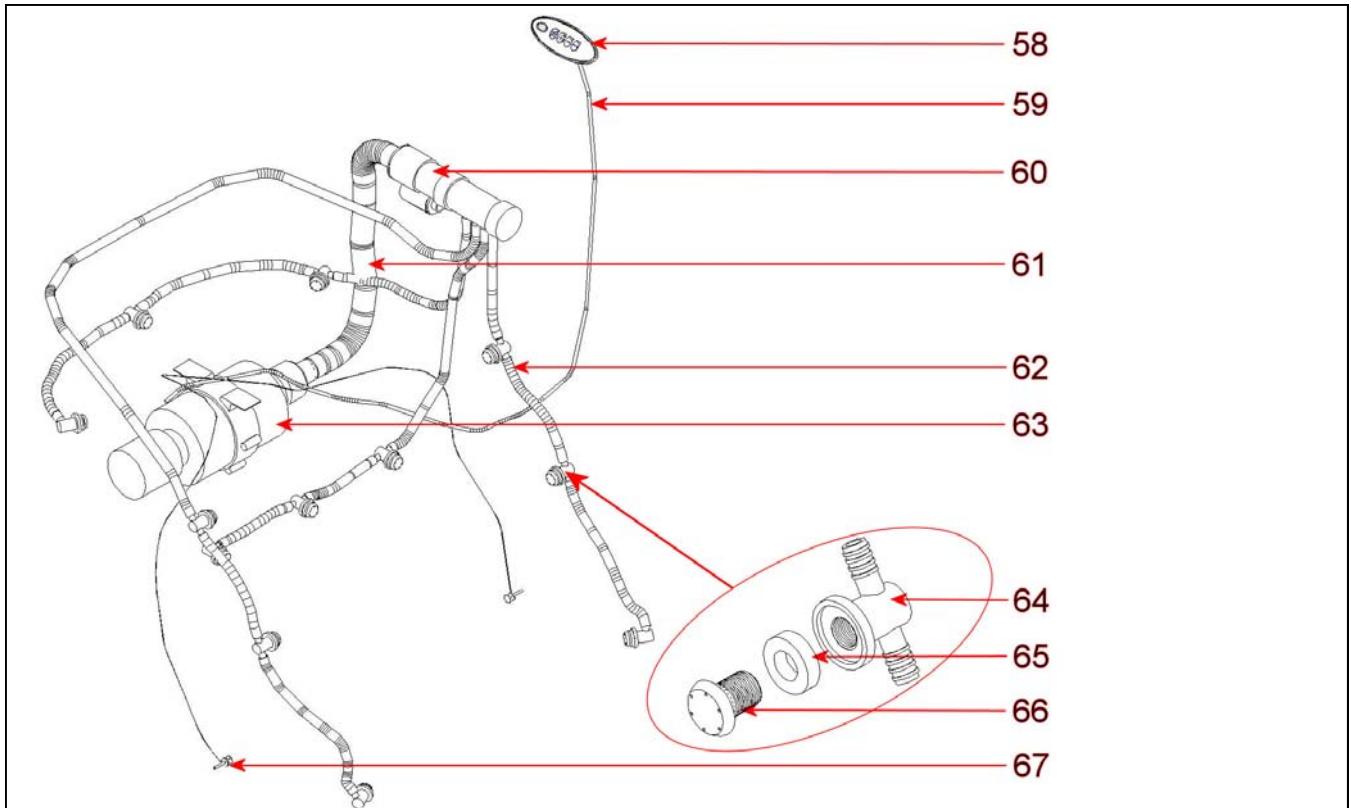
Front (Auxiliary) Drain



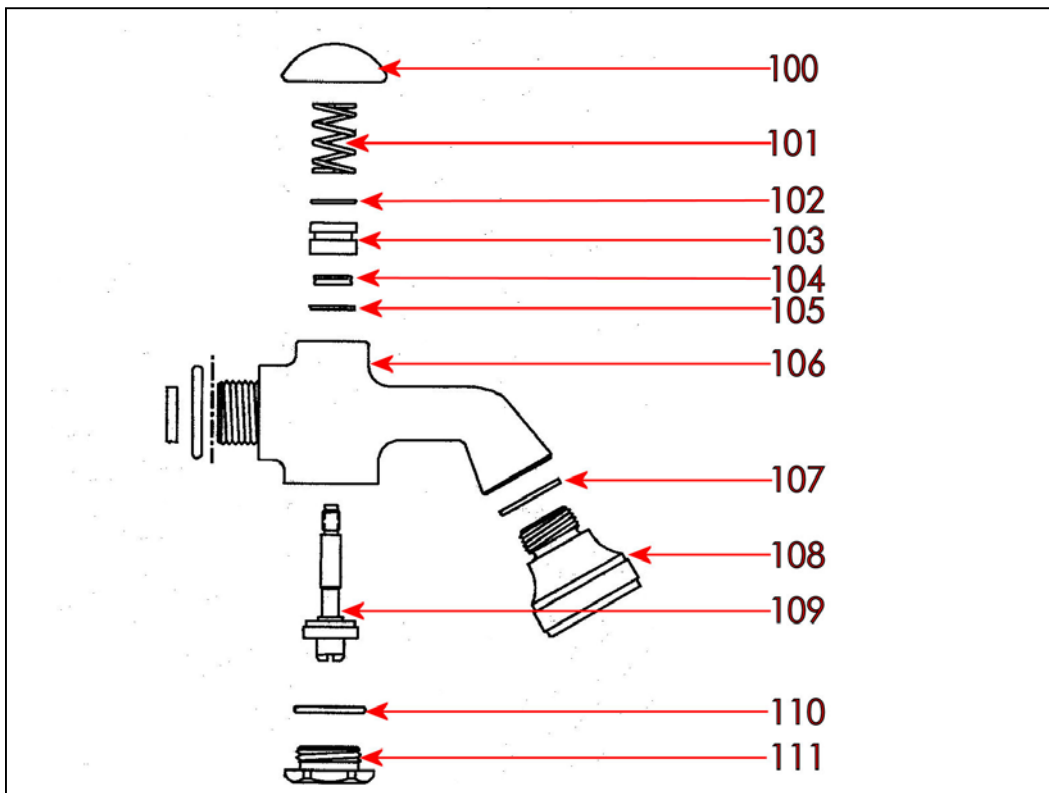
Seat Warmer System



San-Air Hydrotherapy System



Assembly 1 - Sanitizing Rinse Wand



For Parts Ordering Or Information, Call 1-877-826-6666

- 1 - Main Supreme Bathtub Shell
- 2 - Door Handle
- 3 - Door Handle Safety Latch
- 4 - Latching Mechanism Cover
- 5 - Door Seal
- 6 - Door Hinge (x2)
- 7 - Door Latch Striker (x2)
- 8 - Access Hole Cover (x3)
- 9 - Door
- 10 - Control Tower Retaining Bracket (x2)
- 11 - Shower Hose Outlet Connector
- 12 - Shower Hose
- 13 - Diverter Valve Handle
- 14 - Shower Head
- 15 - Diverter Valve Ass'y
- 16 - San Air Touchpad
- 17 - Control Tower Shell
- 18 - Mix Valve Ass'y
- 19 - Mix Valve Trim Plate and Temperature Indicator
- 20 - Mix Valve Handle
- 21 - Shower Head Mounting Bracket Set
- 22 - Mix Valve To Vacuum Break Connection Hose (3/4")
- 23 - Rinse Wand Hose
- 24 - Main Rinse Valve
- 25 - Main Rinse Valve Trim Plate
- 26 - Chemical Function Valve
- 27 - Main Rinse Valve Handle
- 28 - Chemical Metering Valve
- 29 - Function Valve Trim Plate
- 30 - Selectable Orifice
- 31 - Function Valve Handle
- 32 - Drain Knob
- 33 - Vacuum Break
- 34 - Through-Bolt
- 35 - Filler Unit
- 36 - Drain Actuator Housing
- 37 - Washer
- 38 - Shroud
- 39 - Main Drain Pipe (Brass)
- 40 - Drain Actuator Cable
- 41 - Pop-Up Drain With Adjusting Screw
- 42 - Main Drain Collar
- 43 - Main Drain Housing
- 44 - Main Drain Sanitary Tee (Brass)
- 45 - Connector (Brass)
- 46 - 1 1/2" ABS Adapter
- 47 - Front Drain Collar
- 48 - Front Drain Anti-Backup Valve (optional)
- 49 - Rubber Seal
- 50 - Front Drain Housing
- 55 - Seat Back Heating Pad
- 56 - Seat Bottom Heating Pad
- 57 - Seat Warmer Transformer
- 58 - San-Air Touchpad
- 59 - San-Air Touchpad Communications Cable
- 60 - Plenum And Check Valve Ass'y
- 61 - Hose - Blower Motor To Plenum
- 62 - Hose, Plenum To San-Air Jet
- 63 - San-Air Blower Motor Ass'y
- 64 - San-Air Jet Housing
- 65 - San-Air Jet Seal
- 66 - San-Air Jet Body
- 67 - Water Level Sensor

Assembly 1 - Sanitizing Rinse Wand

- 100 - Plunger Cap
- 101 - Spring
- 102 - Washer
- 103 - Seal
- 104 - Spacer
- 105 - Washer
- 106 - Wand Body
- 107 - Washer
- 108 - Wand Nozzle
- 109 - Valve
- 110 - Washer
- 111 - Cap