

RJ15 Caribbean Side-Entry Reservoir Bathing Tub

PRODUCT MANUAL



NOTHING'S MORE REFRESHING THAN RANE

IMPORTANT SAFETY INSTRUCTIONS

PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, FETAL INJURY, DROWNING, HYPERTHERMIA, OR INJURY TO PERSONS

READ AND FOLLOW ALL INSTRUCTIONS



WARNING: RISK OF FETAL INJURY; Pregnant or possibly pregnant women should consult a Physician before using a hydromassage bathtub equipped with a heater.



WARNING: RISK OF ELECTRIC SHOCK.

- The unit must be connected to a supply circuit that is protected by a Ground-Fault Circuit-Interrupter (GFCI) installed by a qualified service representative or Licensed Electrician.
- Install this unit in accordance with the Canadian Electric Code, part I. the control provided with this unit shall be installed out of reach of persons occupying the tub in accordance with the Canadian Electrical Code , part I "*for unit with a control not integral with the tub.*"
- Do not permit electrical appliances (such as a hair dryer, lamp, telephone, or radio) within 5 feet or 1.5 meters of this hydromassage bathtub.
- GFCI should be tested on a routine basis. 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, the GFCI is defective. If the GFCI interrupts power without the test button being pushed there is ground current flowing, indicating the possibility of an electric shock. Do not use this hydromassage bathtub. Disconnect the hydromassage bathtub and have the problem corrected by a qualified service representative or Licensed Electrician before using.



WARNING: RISK OF ACCIDENTAL INJURY AND DROWNING;

- Children should not use hydromassage bathtub without adult supervision.
- Do not use hydromassage bathtub unless all suction guards are installed to prevent body hair entrapment.
- Do not use drugs or alcohol before or during the use of the hydromassage bathtub equipped with heater to avoid unconsciousness and possible drowning.
- People using medications and/or having an adverse medical history should consult a Physician before using a hydromassage bathtub equipped with a heater.



WARNING: RISK OF HYPERTHERMIA

- Do not use a hydromassage bathtub equipped with a heater immediately following strenuous exercise.
- Water temperature in excess of 100° Fahrenheit or 38° Celsius may be hazardous to your health. Check and adjust water temperature before use.
- Prolonged immersion in water hotter than normal body temperature may introduce hyperthermia.
- Symptoms of Hyperthermia;
 - Heat stroke can be life-threatening and victims can die. A person with heat stroke usually has a body temperature above 104° Fahrenheit. Other symptoms include confusion, combativeness, bizarre behavior, faintness, staggering, strong and rapid pulse, and possible delirium or coma. High body temperature is capable of producing irreversible brain damage.
 - Heat fatigue is a feeling of weakness brought on by high outdoor temperature. Symptoms include cool, moist skin and a weakened pulse. The person may feel faint.
 - Heat syncope is a sudden dizziness experienced after exercising in the heat. The skin appears pale and sweaty but is generally moist and cool. The pulse is weakened and the heart rate is usually rapid. Body temperature is normal.
 - Heat cramps are painful muscle spasms in the abdomen, arms, or legs following strenuous activity. Heat cramps are caused by a lack of salt in the body.
 - Heat exhaustion is a warning that the body is getting too hot. The person may be thirsty, giddy, weak, uncoordinated, nauseated and sweating profusely. The body temperature is normal and the pulse is normal or raised. The skin is cold and clammy.



WARNING: Do not permit children to use this unit unless they are closely supervised at all times.



WARNING: Exercise care when entering or exiting the hydromassage bathtub.



WARNING: Use this unit only for its intended use as described in this manual. Do not use attachments unless recommended by the manufacturer.



WARNING: Do not drop or insert any objects into any openings.



WARNING: Do not operate this unit without the guard over the suction fitting.



WARNING: Service or repair work needed for this hydromassage bathtub other than normal cleaning or care should be performed by an authorized and qualified service representative.

SAVE THESE INSTRUCTIONS

Thank you and congratulations on becoming a “RANE” customer!

This manual is intended to ensure that the equipment performs to your satisfaction. The following information is crucial to the proper operation of the equipment, and will allow for a great bathing experience for both the caregiver and the one being cared for.

If there are any questions during the installation or operation of this unit, please contact your local Authorized Rane Dealer / Distributor, or Rane Bathing and Accessibility at 888-880-7373.



This symbol is used throughout this manual to highlight items of importance or safety. Please pay particular attention to these items to ensure proper and safe operation of the equipment.

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The certified label with serial number is located on the bottom of the control panel door. When calling in for service/support issues, please have the serial number available.



Serial number and ETL label are located on the inside of the door to the control panel.

Technical Specifications

Description: Model RJ15 is a freestanding, side-entry accessible reservoir bathtub.

Construction: The tub shell consists of a 3/16” thick fiberglass-reinforced polyester laminate. Critical areas are reinforced with a 1/4” thick core of end-grain balsa and additional layers of fortifying laminate. The sanitary gelcoat is an ISO/NPG type-finish. The tub frame is welded aircraft grade aluminum box tube.

Thermostatic Mixing Valve with anti-scald protection that dispenses 15 gallons per minute for fast tub fill.

Built-in Disinfection System that is the most time-efficient solution for disinfection of the bath’s external surfaces and minimizes the risk of cross-infection.

Handheld Shower Wand for hair and upper body washing, which can be used at the same time the tub is filling.

Analog Thermometer for monitoring tub-fill and shower wand temperatures.

Lap and Shoulder Harness for resident safety.

Secondary Door Lock to prevent accidental door opening when in use.

3/4” Supply Lines constructed of stainless steel.

Ozonator to maintain sanitary conditions of the storage tank.

CleanRane™ Air Spa System (if equipped) with variable settings that enhance the therapeutic and relaxing effects of bathing for the resident.

Width:	33” (Tub)	70.5” (With cabinet)
Length:	74”	
Height (to top of cabinet):	73.5” (lowest setting)	
Height (to top of door):	36.75” (lowest setting)	
Adjustable leveling legs:	2” maximum	
Seat width (interior):	25”	
Seat height:	19.25” (lowest setting)	
Threshold height:	13” (lowest setting)	
Transfer device access:	7” H X 44” W (lowest setting)	

Weight capacity (resident):	600 lbs. / 272.7 kg
Water capacity (occupied):	52 gallons / 196.8 L
Fill time (approx.):	1 minute, 15 seconds
Drain time (approx.):	2 minutes, 30 seconds
Water supply inlet:	3/4” diameter
Drain size:	1.5”
Electrical supply:	115V AC; 60Hz; 20 amp (GFCI outlet required)
Door configuration:	Outward swing, Right or Left Hinge

Manufacturing and Testing

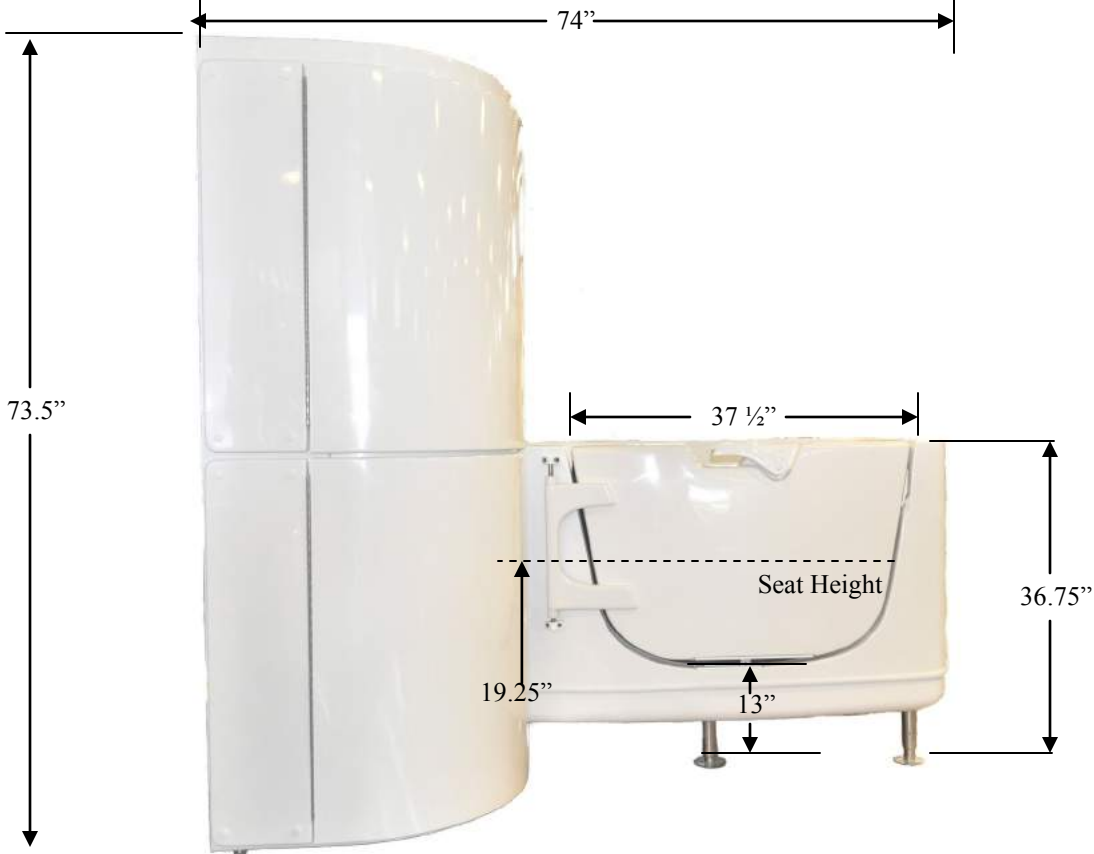
This unit is manufactured in Sparta, Tennessee, USA. Each unit passes a thorough quality control review and is tested for proper operation prior to shipping.

Certifications / Standards: A112.19.7-2012 / CSA B45.10-12 / UL 1795 / CSA C22.2 no. 218.2

IAPMO Z124-2011 / CSA B45.5-11

Pre-Installation Drawings and Dimensions

RJ15 Front View Dimensions

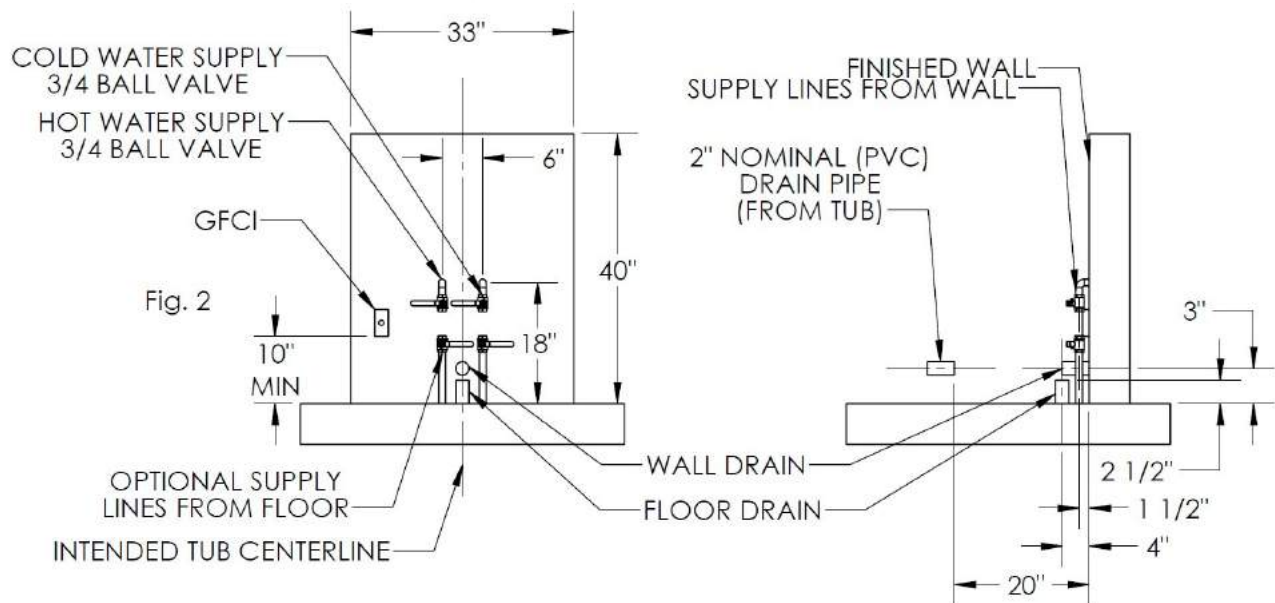
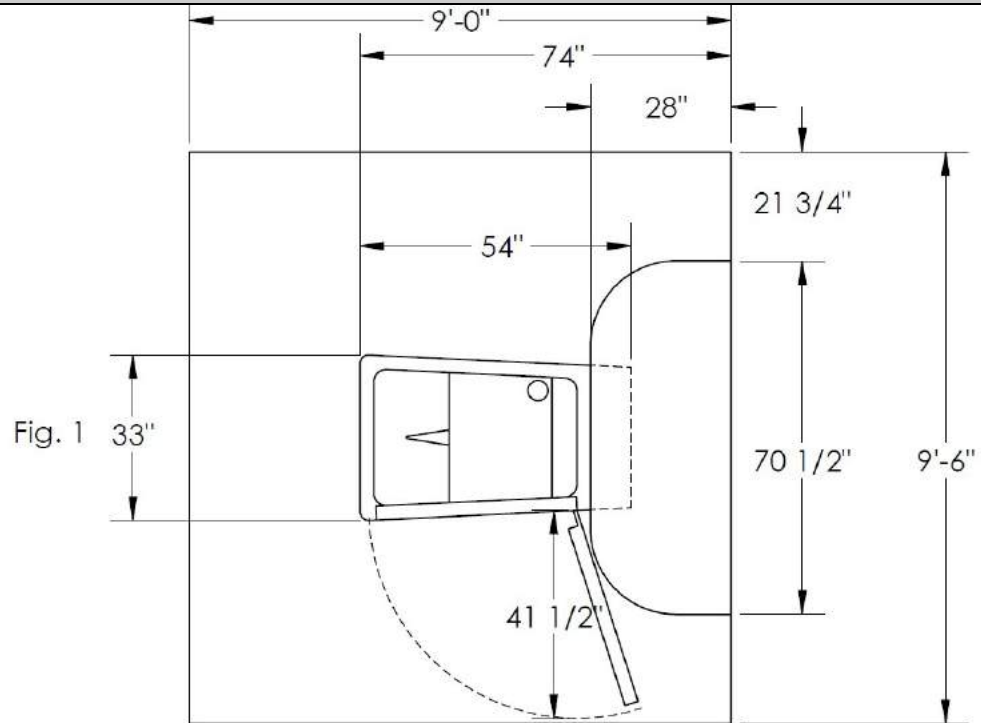


RJ15 Top View Dimensions



Pre-Installation Drawings and Dimensions

RJ15 Room Layout



Hot and cold water supply requirements:

3/4" supply lines with on/off valves with 3/4 NPT female threads. 3/4" ball valves with 3/4 NPT female ports recommended. See figure 2 for locations. Dynamic pressures should be nominally equal between hot and cold supplies for optimum performance.

Maximum static supply pressure: 145 PSI

Maximum dynamic/maintained supply pressure: 81 PSI

Maximum supply Hot water temperature: Consult local requirements.

(Temperatures over 120° not recommended)

Electrical requirements:

The RJ15 is rated 7.25 amps at 120 Volts AC

A 20 amp GFCI circuit is required.



Some state and local plumbing codes require the installation of a backflow prevention device or assembly on both the incoming hot and cold supply lines. Norcom recommends that you check your local plumbing code requirements to determine what protection is required. Additional backflow protection is NOT supplied by Norcom and is the owners' responsibility.

Installing the Tub



INSTALL TO PERMIT ACCESS FOR SERVICING.

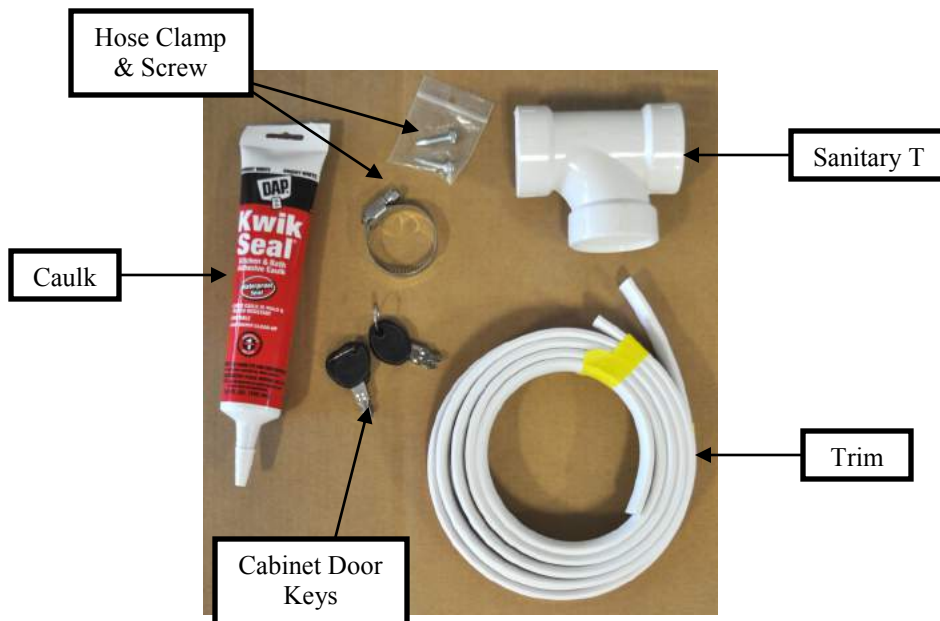


All plumbing and electrical work must be performed by qualified individuals. Some state and local plumbing codes require the installation of a reduced pressure zone (RPZ) assembly on both hot and cold incoming supply lines to prevent the possibility of backflow contamination to the potable water supply. Always check local plumbing codes to determine if RPZ's are required for your tub installation. Some state and local agencies may also require that these devices be registered as well as tested on an annual basis. Refer to the local codes for final determination. RPZ's are not provided by the manufacturer and are the responsibility of the customer.

The RJ15 is designed to be installed as a freestanding unit. Several items of precaution should be taken during installation:

- USE THIS PRODUCT ONLY FOR ITS INTENDED USE DESCRIBED IN THESE INSTRUCTIONS.
- DURING CONSTRUCTION, THE TUB'S SHELL IS VULNERABLE TO DAMAGE CAUSED BY FALLING OBJECTS, SUCH AS TOOLS AND CONSTRUCTION MATERIALS. DO NOT STAND IN THE TUB DURING INSTALLATION.
- NEVER STORE ANY CONSTRUCTION MATERIALS INSIDE THE TUB.
- PRINTED DIMENSIONS ARE FOR REFERENCE ONLY. MEASUREMENTS SHOULD BE TAKEN FROM THE ACTUAL TUB.
- THE TUB MUST BE WATER TESTED FOR LEAKS BEFORE THE TUB IS COMPLETELY ENCLOSED AND INSTALLED.

MATERIALS SUPPLIED:

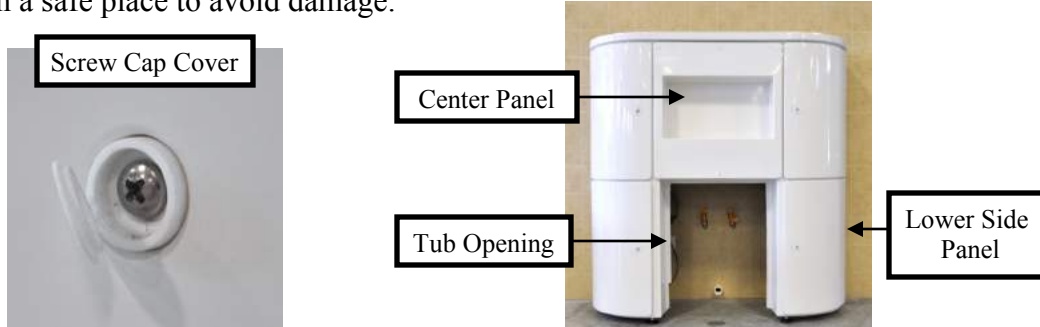


Installing the Tub (cont'd)

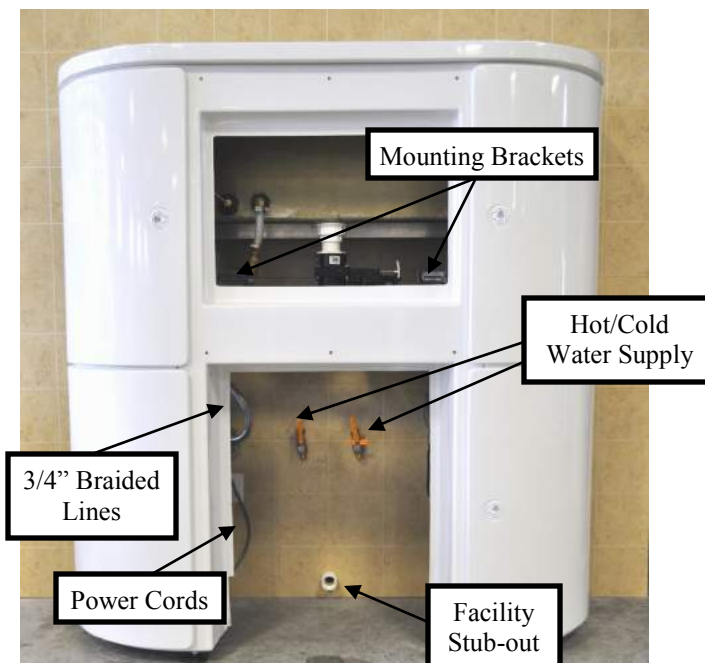
Step 1: Determine final location and review framework for the tub. Rough-in plumbing and electrical hook-ups must meet building codes and regulations. Please review section 2 for rough-in dimensions and allow for the spacing needed. Review the space requirements for lifting devices.

Step 2: Remove all packing material and cardboard packaging from tub. Set aside the accessory box which is located underneath or inside the tub. Remove the tub from the pallet. Make sure that the door is in the closed position during installation. This will allow for proper installation and help maintain the original shape of the tub. Do not discard packaging.

Step 3: Remove center panel and both lower side panel by prying open white screw cap covers and removing screws. Set panels in a safe place to avoid damage.



Step 4: Move the cabinet in the predetermined location. Use a level across the front and side of the cabinet. If adjustment is needed, level the unit by turning the adjustable legs to raise or lower the cabinet. See picture below for more information.



Installing the Tub (cont'd)

Step 5: Use supplied **mounting brackets** to mount cabinet to wall using appropriate wall anchors (not supplied).

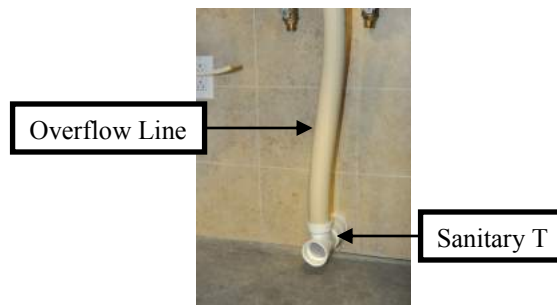
Step 6: Connect the supplied **3/4" braided lines** to the **hot and cold water supply**.



NOTE: Clean the two 3/4" water lines of debris prior to connection. Valves, shower wand, and accessories may become clogged and/or damaged if the lines are not free of debris. Make sure that the screens are present and the hoses are not kinked or bent after hookup. The warranty does NOT cover damage caused by debris in the line. Also, the threaded connections are NOT "hose thread", but rather "National Pipe Thread" (NPT).

Step 7: Remove zip ties from the **power cords** and plug into approved GFCI.

Step 8: Attach supplied **overflow line** from tank to **facility stub-out** with **Sanitary T** using standard plumbing practices.

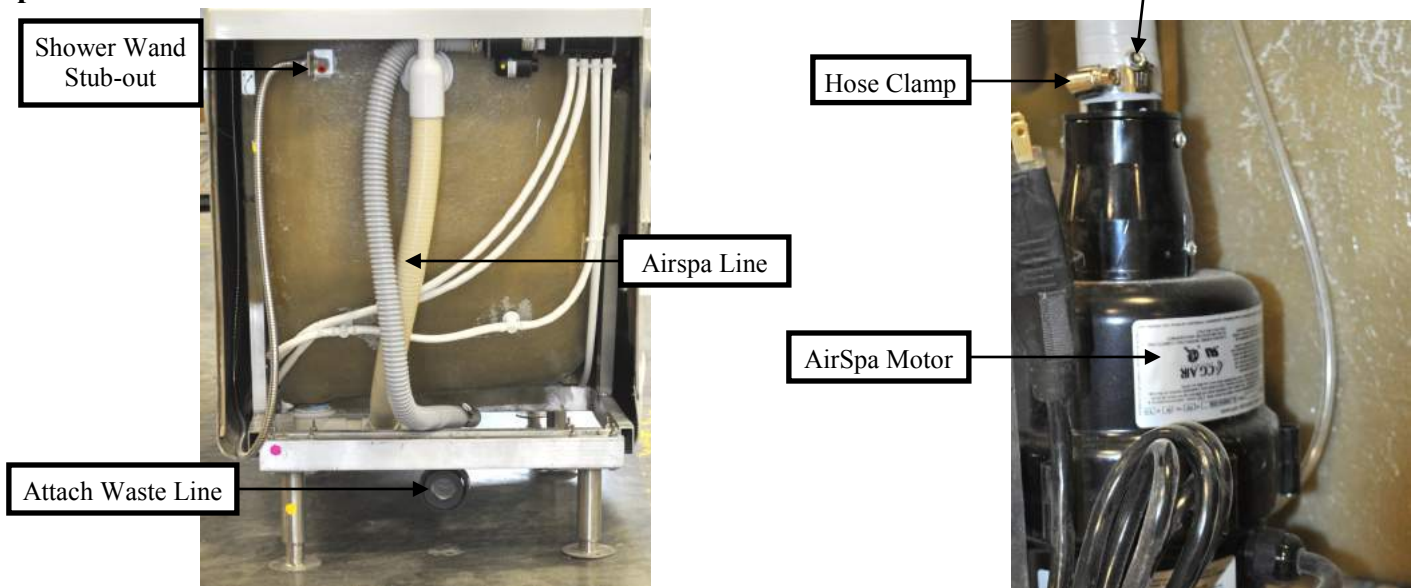


Step 9: Align tub to mate with cabinet, but leave out far enough to attach shower supply tube and place AirSpa hose in position.

Step 10: Plug in 3/8" flexible tube to **shower wand stub-out**.

Step 11: Feed gray **Airspa Line** to Airspa motor compartment (access at lower side panel). Attach gray Airspa hose to motor and tighten **hose clamp** and **screw** (supplied). Locate screw on hose side of clamp to prevent hose from detaching during use.

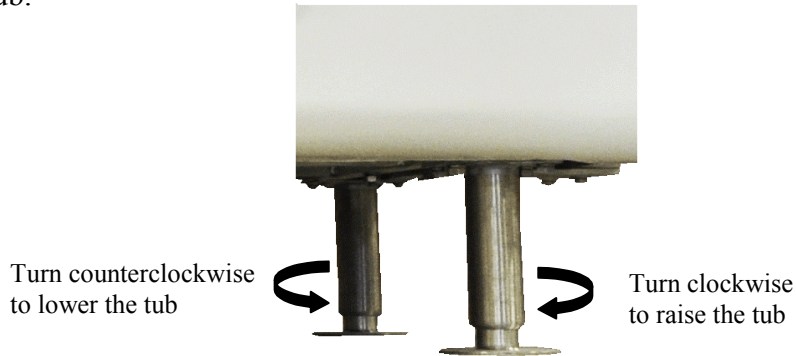
Step 12: Slide tub forward to mate with cabinet.



Step 13: Attach **waste line** previously installed from facility drain to tub.

Installing the Tub (cont'd)

Step 14: Tub should be raised tight to reservoir cabinet and then leveled by turning the adjustable legs to raise or lower the tub.



Step 15: Refer to operating procedures (Section 4) to test all functions of the tub and inspect for leaks. Be sure to clean inside of tub prior to filling unit. Excess debris may damage the air spa jets or gel coat.

Step 16: Use supplied caulk to caulk the seam between the cabinet and the tub.



Step 17: After successful operation, reinstall center and side panels.

Step 18: Use supplied roll of trim to finish cap between wall and cabinet.



Using the Tub

RJ15 "Caribbean" Operating and Disinfecting Procedures



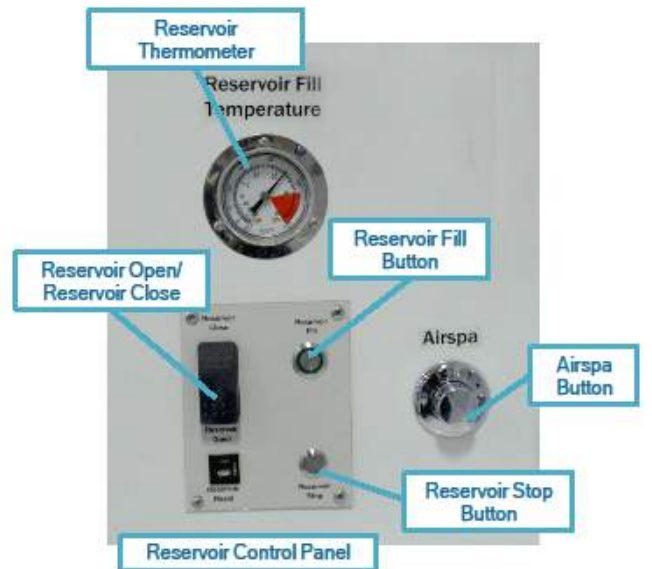
Control panels are located on the same side as the tub door (left side shown in photo)



Operating Procedures

- Open the control panel door by pulling out the latch handle. Rotate handle counter-clockwise if door is on left, clockwise if door is on right.
- Push Reservoir Fill button to fill the reservoir. The temperature of the water entering the tank will be displayed on thermometer directly above the reservoir control panel. The water temperature entering the tank can be controlled using the Thermostatic mixing valve. The reservoir tank will take approximately 5 minutes to fill completely.
- Release the secondary latch located on the door hinge by rotating out and away from tub.
- Open door by lifting handle and swinging door out.
- Using the RL9 bath lift, transfer the patient into the bathtub using safe patient handling techniques.
- Close the door, push the handle down, and engage the secondary latch.
- Push the Reservoir Open button to fill the tub. A red light will appear and the tub will begin to fill. When the reservoir has emptied, push the Reservoir Closed button. You may add more water to the tub with the Tub Fill valve. Check temperature with your hand as you adjust the Water Temperature Control valve. Confirm the water temperature on the Thermometer.

 **TEMPERATURES OVER 110° FAHRENHEIT or 43° CELSIUS CAN SCALD.**



Using the Tub (cont'd)

- To use the Airspa feature, push the Airspa button located next to the reservoir controls.
 - 1st press: Blower turns on at high speed
 - 2nd press: Blower changes to low speed
 - 3rd press: Blower turns off

The Airspa blower motor has a safety feature that automatically shuts it down after it runs continuously for 10 minutes. If a longer bathing experience is needed, press the on/off button and the motor will stay on for another 10 minutes.

- To use the Shower Wand, pull out the wand and hold away from resident. Next, turn on the Shower Diverter valve.
- With the bathing process complete, drain the tub by pulling drain chain and allow the bath to empty completely.
- Swing secondary latch out and away from the tub, open the door by lifting handle and swinging door out, and remove patient from tub.



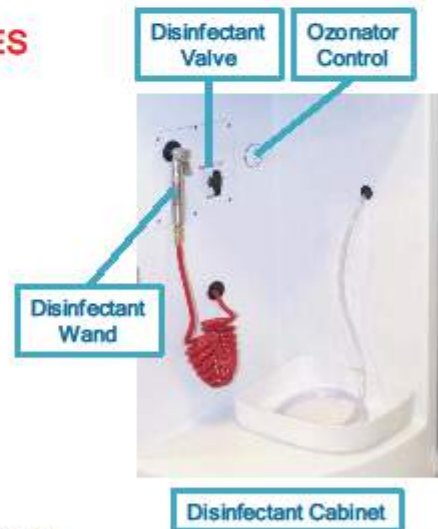
Drying Cycle (Purge Cycle)

An automatic drying cycle will start **10 minutes** after the Airspa blower has turned off. Once the purge cycle begins, the Air Spa blower will run for one (1) continuous minute at maximum speed. The Air Spa blower **cannot** be turned off during the purge cycle.

Disinfecting Procedure

⚠ THE TUB MUST BE UNOCCUPIED AND SAFETY PROCEDURES FOLLOWED.

- Unlock and open the "Disinfectant Cabinet" door.
- Remove the "Disinfectant Wand" from its holder and point spray head into the tub.
- Turn the "Disinfectant Valve" to the "DISINFECT" position.
- Spray the interior surface of the tub. Use brush or sponge if needed.
- Turn the "Disinfectant Valve" to the "OFF" position.
- Allow disinfectant solution to remain on the interior surface of the tub for the period of time recommended by the manufacturer.
- Turn the "Disinfectant Valve" to the "RINSE" position. Thoroughly rinse the interior surface of the tub.
- Turn the "Disinfectant Valve" to the "OFF" position. Return the "Disinfectant Wand" to its holder and lock the "Disinfectant Cabinet" door.



Ozonator (Cleaning Cycle)

A 15 minute cleaning cycle starts every 24 hours from the time it is first powered on, as long as the bathtub has been empty for at least 9 hours. If it has not, it will wait for 9 hours without water detection before activating the ozone cycle.





LIMITED WARRANTY

Rane® Safety and Accessibility products are warranted to be free from defects in materials and workmanship for a period of **five (5) years** for external finishes and composite shell, **three (3) years** for all moving and stationary parts, including but not limited to, valves, air spa blower, whirlpool pumps, actuators, door mechanisms, hinges, gauges, thermometers, and **Lifetime** for the door seal (provided preventative maintenance is performed as recommended.) *Shower and disinfectant hoses, handheld shower wands, disinfectant spray wands, and batteries are excluded from this warranty.*

ALWAYS FOLLOW ALL SAFETY AND USE INSTRUCTIONS CONTAINED IN THE TUB AND LIFT USE MANUALS.

COMMENCEMENT OF WARRANTY PERIOD

Warranty commences on the date of shipment to Customer and/or Dealer.

REPAIR OR REPLACEMENT

During the warranty period, Rane® will repair or replace any defective parts or portion thereof returned by Customer and/or Dealer if Rane® determines was **defective due to faulty materials or workmanship**. The Customer and/or Dealer must obtain and **Return Goods Authorization (RGA)** number from Rane®. *The Customer and/or Dealer will pay all related labor and return costs incurred in the replacement, installation, or repair of the defective parts or portion thereof to Rane® except that in year one Rane® will pay for shipping.* Rane® retains the exclusive right to repair or replace the defective products or parts or portions thereof at its sole discretion. In the event that it is determined that the cost of warranty repairs and/or parts is excessive, Rane® may require the Customer and/or Dealer to provide a written report and pictures of the defect for review. In the event that replacement parts are sent by Rane® to the Customer and/or Dealer before the defective parts have been received and reviewed by Rane®, the Customer and/or Dealer will be invoiced for the replacement parts and shipping costs. Once the defective parts have been received by Rane®, and deemed to be defective due to faulty materials or workmanship, a credit or refund will be issued to the Customer and/or Dealer. In the event Rane® determines the repairs and/or parts were not covered by warranty due to misuse or other reasons, customer shall pay for the charges for all repairs including parts, freight, and labor warranty of parts subject to “normal wear and tear” (i.e. cushions, pads, lap and shoulder belts, shower wands, and hoses) are not covered under this warranty except as it applies to the defects in materials and workmanship.

EXCLUSIONS

This limited warranty applies only to the Rane® tubs sold and used in Canada or the United States, and does not apply to equipment that has been damaged or rendered defective as a result of:

- a) Acts of God, accident, misuse, neglect, or abuse
- b) Use of parts not manufactured or sold by Rane®
- c) Modification without the written permission of Rane®
- d) Service by anyone other than Rane® or a Rane® Authorized Agent
- e) Transit, neglect, misuse, power surge, or operating environment
- f) **Failure to inspect tub upon delivery for shipping damage will void any liability of Rane® since shipping damage that is not indicated on the accepted shipping documents as this excuses shipper from any liability**



LIMITED WARRANTY

- g) Failure to provide regular maintenance, service, or inspections
- h) Failure to operate in accordance with manufacturer's guidelines or any other improper operation or maintenance, or
- i) Any other cause not directly and primarily caused by defective material, workmanship, or design including abnormal water conditions including without limitation excessive hardness or acidity or temperatures above prescribed amounts.

Service performed as a result of these conditions will be subject to charges for labor, transportation and shipping, and parts.

Rane® 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. Rane® 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. Rane® will not be liable for any labor or incidental expenses or material charges in connection with removal or replacement of the walk-in bathtub or any part or parts of the System.

SOLE WARRANTY

These express warranties shall be the sole and exclusive warranties of Rane®, with respect to the tubs ("goods") and services provided in connection with the goods and shall be in lieu of, and exclude, all other express or implied warranties of any kind whatsoever, including to the maximum extent permitted by law warranties of merchantability and fitness for a particular purpose. In no event shall Rane®, its subsidiaries, affiliates, agents, or employees be liable for any incidental indirect, special, or consequential damages in connection with or arising out of the warranties contained herein or the sale or furnishing of any goods, services, or other items hereunder, or any third party's ownership, maintenance or use of any goods, services or other items furnished hereunder including, but not limited to, lost profits or revenues, loss of use of the goods or any associated products, damage to associated products, costs of capital, costs of substitute goods or products, or claims of customers for such damages. In no event shall Rane®, its subsidiaries, affiliates, agents or employees be liable for the negligence or other intentional misconduct of any third-party nor shall Rane® be liable for its gross negligence, or intentional misconduct. The sole remedy for any liability of Rane® of any kind, including, but not limited to, gross negligence, fraud, or intentional misconduct, with respect to any goods, services or other item or service to which these warranties are applicable or otherwise, shall be limited to the repair or replacement of any goods determined by Rane® to be defective hereunder, and in no event shall Rane® be liable for damages in any amount exceeding Rane's® replacement cost of the claimed defective product. Rane® will not be responsible for meeting any federal, state, local, or municipal code or specification (whether statutory, regulatory, or contractual), including special building or construction codes, unless Buyer so specifies in writing at the time of order and an authorized employee of Rane® agrees in writing.

The parties knowingly and willingly waive any right they have under applicable law to a trial by jury in any dispute arising out of or in any way related to these warranties of the issues raised by that dispute.

The Laws of the State of Tennessee shall govern the validity and construction of these warranties and all rights and obligations of, and disputes between or among, the parties arising out of or related to these warranties, whether in contract, tort or otherwise, without regard to the principles of conflict of Laws of the State of Tennessee. The parties submit to the jurisdiction of all State and Federal Courts sitting in the State of Tennessee, and all actions and proceedings arising out of or relating to these warranties shall be heard and determined in a State or Federal Court in Tennessee.

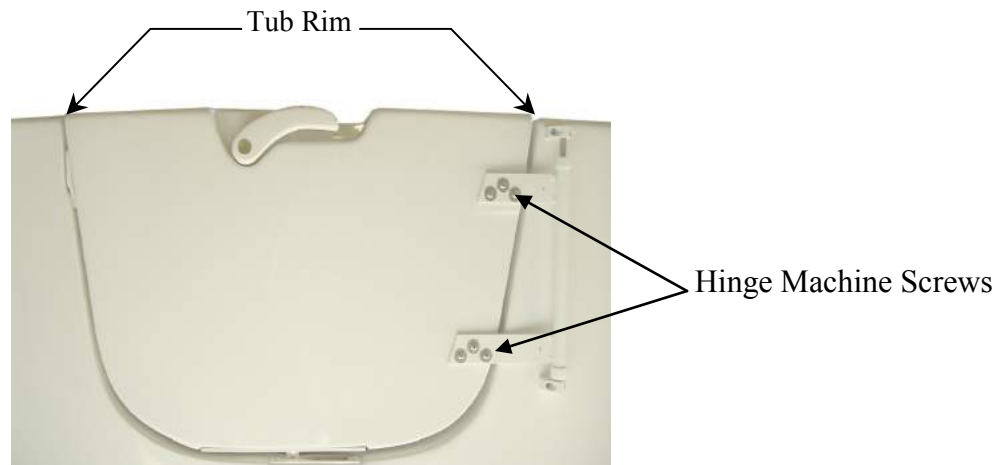
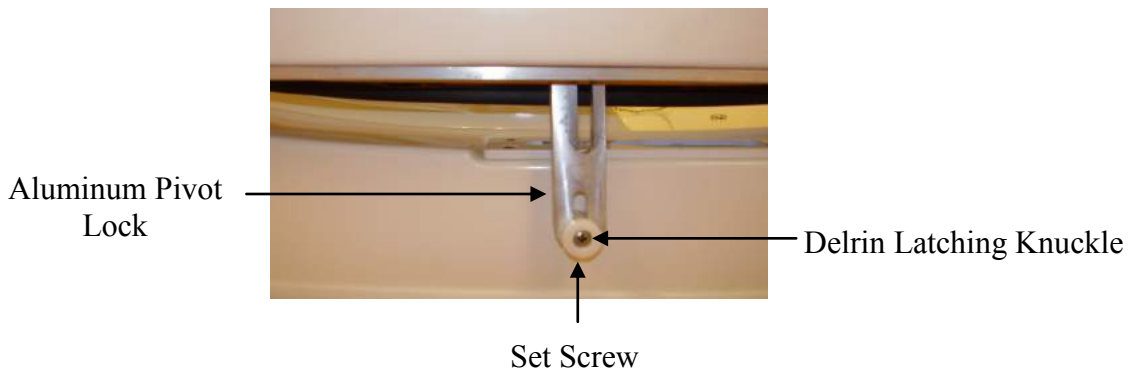
Maintenance and Adjustments

Door Adjustments

If door adjustment is needed, read the instructions below for proper adjustment.

If the door is leaking, it may need adjustment. To adjust the door tension:

1. To open the door, make sure the secondary latch is disengaged. Pull upward on the door handle and swing door outwards. Next, push handle down so aluminum pivot lock is exposed.
2. Use a 5/64 Allen Wrench and turn the set screw at the end of the aluminum pivot lock counterclockwise one complete revolution to raise the delrin latching knuckle upward.
3. Re-test door latching operation and check for any leaks.
4. If no leaks, door is ready for regular use. If door still leaks, repeat steps 2 and 3.



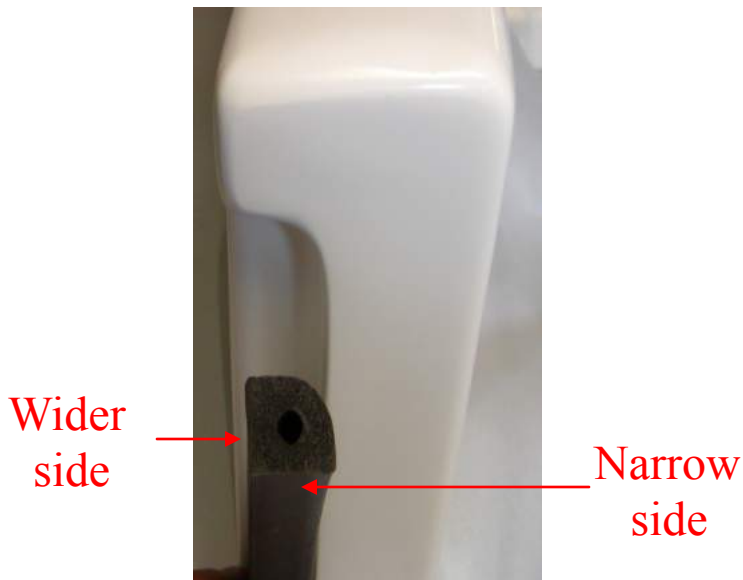
If door is out of alignment in the tub rim and seal area, it may need to be re-aligned.

1. To open the door, make sure the secondary latch is disengaged. Pull upward on the door handle and swing door outwards.
2. Behind hinge, there are two Phillips head screws that are holding the hinge cover, remove these two screws and remove the hinge cover. After hinge cover is removed close door and lock into place.

Maintenance and Adjustments (cont'd)

Contents of Door Seal Kit

- Rubber Door Seal
- Two (2) Black Push Pins
- Sandpaper
- Glue Brush
- Contact Cement
- Instructions



Correct Positioning



Incorrect Positioning

Instructions

1. Remove existing seal, 2 push pins, old glue and seal remnants. Make sure door is free of glue and debris. Lightly sand the surface of the door and seal.



NOTE: LIGHTLY SAND THE SURFACE OF THE SEAL! DO NOT BREAK THE SURFACE OR SKIN OF THE SEAL. THIS WILL CAUSE THE SEAL TO FAIL.

2. Using glue brush, apply an even coat of glue to both the seal and surface on the door.
3. Allow the glue on both surfaces to skin over, approximately five (5) minutes.
4. Beginning at one end of the seal, carefully place the seal into seal area of door taking care to make good contact between the door and seal. Be sure that the seal is positioned as shown above.
5. Use masking tape as necessary to help hold seal in place.
6. When entire seal is in place, taper ends as needed for proper fit and insert push pins at both ends of doors.
7. Use lacquer thinner on a towel to clean excess glue off the door surface.
8. Allow the glue to set for at least two (2) hours before the first use.



NOTE: THE USE OF PETROLEUM BASED CLEANERS OR LUBRICANTS WILL CAUSE THE RUBBER DOOR SEAL TO FAIL. TO CLEAN THE SEAL, USE MILD WARM SOAPY WATER OR PRODUCTS THAT ARE DESIGNED SPECIFICALLY FOR RUBBER PRODUCTS.

Maintenance and Adjustments (cont'd)

Routine Maintenance

Contact your local Authorized Rane Dealer / Distributor or Rane Bathing and Accessibility for periodic updates to this schedule.

Model # _____

Serial # _____

Serial number and ETL label are located on the inside of the door to the control panel.

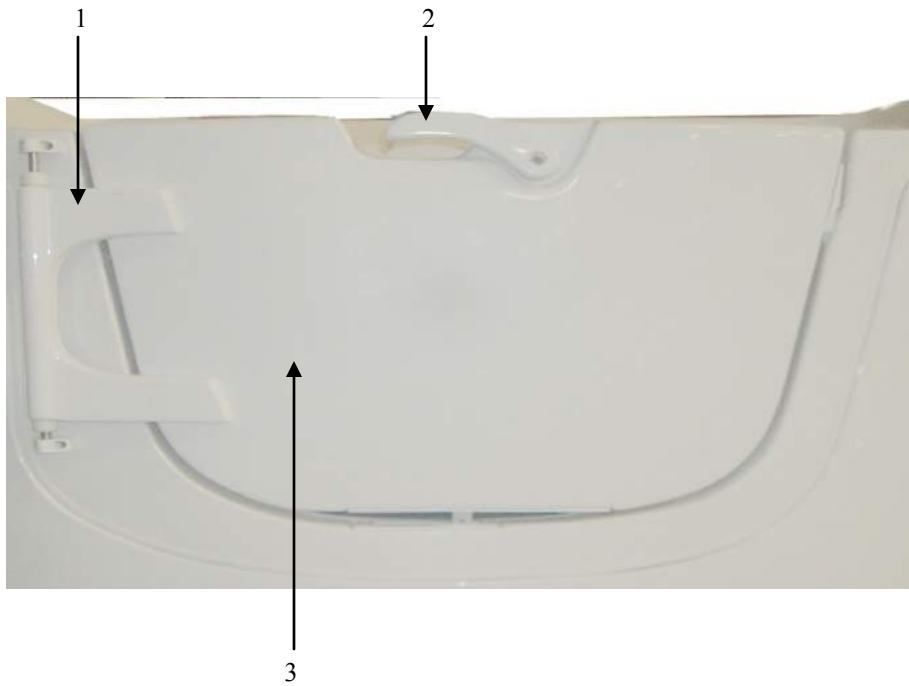


Check List	Monthly	3 Months	6 Months	Yearly
Inspect and Test GFCI	X			
Check Disinfectant System		X		
Check Hand-Held Shower Wand and Hose		X		
Check Tub-Fill and Shower Valve Operation		X		
Check Hoses and Connections			X	
Check Thermometer for Accuracy			X	
Check Thermostatic Mixing Valve			X	
Check Maximum Water Temperature			X	
Clean Hot and Cold Supply Hose Screens			X	
Check that all Access Panels are secure				X
Check Air Spa Functions and Controls (if applicable)			X	
Replace Air Spa Jet Inserts (if applicable)				X
Check and Clean Door Seal (if applicable)	X			
Check Door Mechanism (if applicable)	X			
Check Door Alignment (if applicable)			X	
Check Hinge Screws (if applicable)			X	
Check Raise / Lower Buttons (RR7-II & RS8)			X	
Inspect and Lubricate Actuator (RR7-II & RS8)			X	
Check Auto-Fill Buttons / Operation (RR7-II & RS8)			X	

Troubleshooting

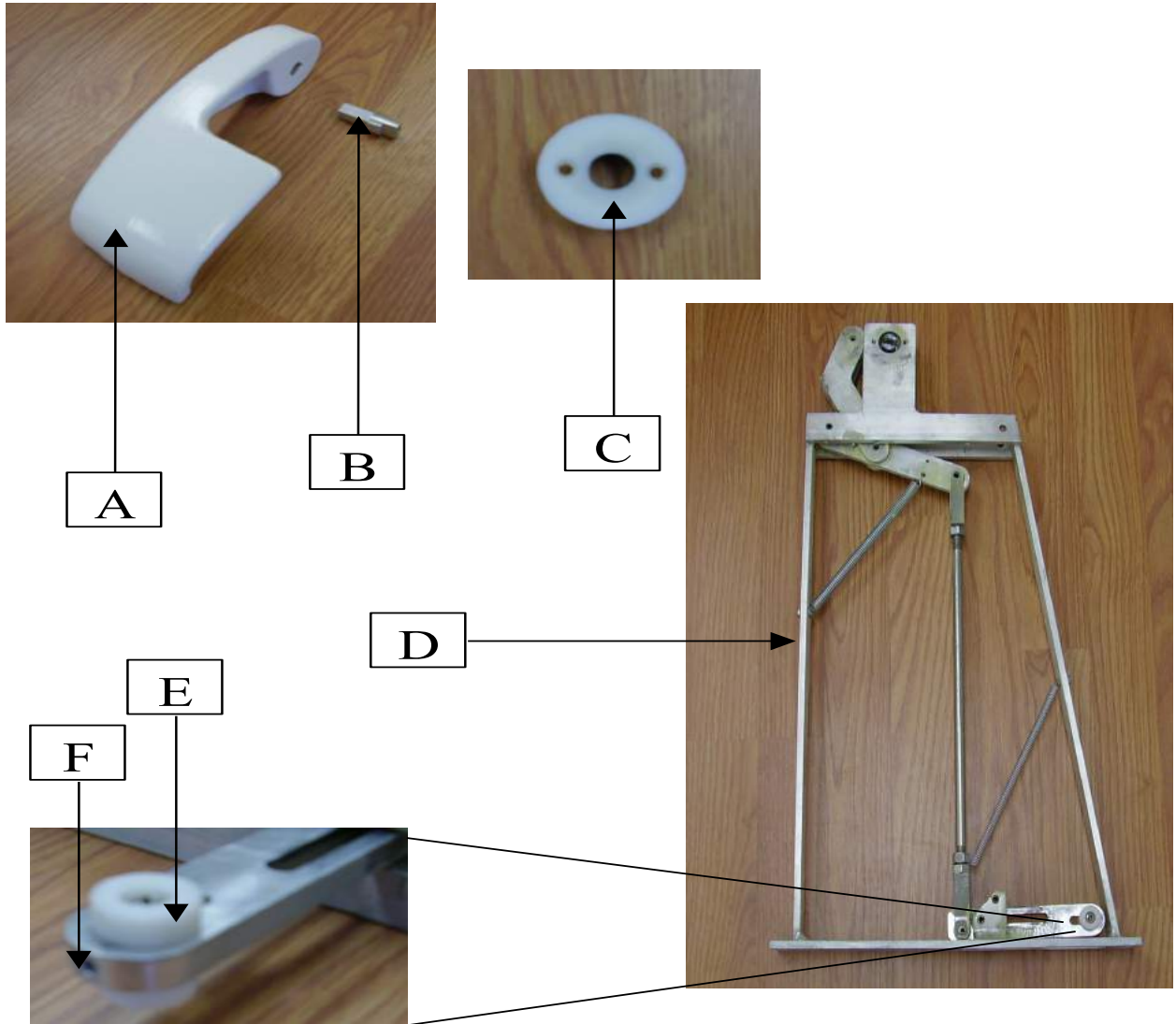
Problem / Issue	Check	Action / Solution
Door is Leaking	Check door seal	Re-attach door seal if loose or replace if damaged (see Section 6.2)
	Check door positioning	Align door (see Section 6.1)
	Check door latching knuckle	Adjust door tension (see Section 6.1)
Water too hot or too cold	Check hose washer / screen in end of supply hoses	Remove and check for debris or build-up, clean or replace if needed
	Check hot and cold supply lines for kink(s) or damage	Remove kink(s) or replace if needed
	Check if hot and cold connections are properly installed	Reverse connections if backwards
	Check if water supply dynamic pressures are within 10% of each other	Consult with a local Plumber
	Check thermostatic mixing valve for proper temperature calibration	Calibrate (see Section 9.2)
	Check thermostatic mixing valve cartridge	Remove and check for debris or build-up (see Section 9.3)
Valve package not working properly (ie. tub-fill and shower valves)	Check knobs	see Section 10
	Check valve stems	Check if damaged or properly tightened (see Section 10)
Door swings open or closes by itself	Check if tub is level	Level the tub (see Section 3.1)
	Check door positioning	Align door (see Section 6.1)
Door will not open or close properly	Check door seal for soap scum or mildew build-up	Clean with mild soapy water and let dry, then put baby powder on the seal.
	Check door positioning	Align door (see Section 6.1)
	Check door latching knuckle	Adjust door tension (see Section 6.1)
Air Spa not working properly (if equipped)	Check if plugged into outlet and/or damage to the electrical cord	Plug-in and/or replace the electrical cord if needed
	Check if GFCI outlet is working properly	Reset GFCI outlet / breaker
	Check gray hose for either kink(s) or has come off the air spa motor or manifold	Remove kink(s) or re-attach gray hose to air spa motor or manifold by tightening the hose clamps
	Check Air Spa Jets (12 total)	Clean or replace spring loaded check valve (see Section 11.1)
	Check for User error	see Section 4 (Using the Tub)
Disinfectant System not working properly	Check clear tube that goes into the disinfectant bottle	Un-clog the clear tube and/or mesh filter on the end of the tube
	Check disinfectant knob	Tighten if needed (see Section 12)
	Check DEMA Valve	Remove and clean (See section 12)

Door Replacement Parts List



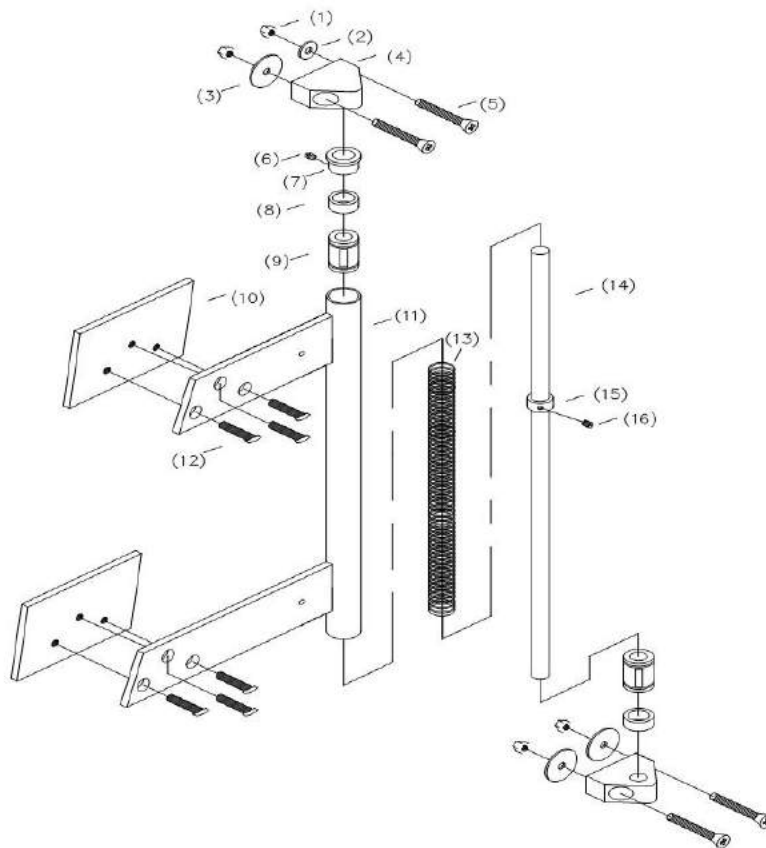
<u>#</u>	<u>Part #</u>	<u>Description</u>
1	HC	Hinge Cover, acrylic * <i>specify left or right hinge</i>
2	3416+H	Door Handle, RH w/ Aluminum Pin (includes hardware)
2	3411+H	Door Handle, LH w/ Aluminum Pin (includes hardware)
3	OSDR	Right Hinge Door, Complete
3	OSDL	Left Hinge Door, Complete

Door Replacement Parts List (cont'd)



<u>#</u>	<u>Part #</u>	<u>Description</u>
A/B	3416+H	Door Handle, RH w/ Aluminum Pin (includes hardware)
A/B	3411+H	Door Handle, LH w/ Aluminum Pin (includes hardware)
C	3245	Outside Delrin Bushing
D	DOOR MECH	Door Mechanism * <i>specify left or right hinge</i>
E	3215	Delrin Knuckle, Door Mechanism (incl. 10-24 x 7/8" pan head screw)

Door Replacement Parts List (cont'd)

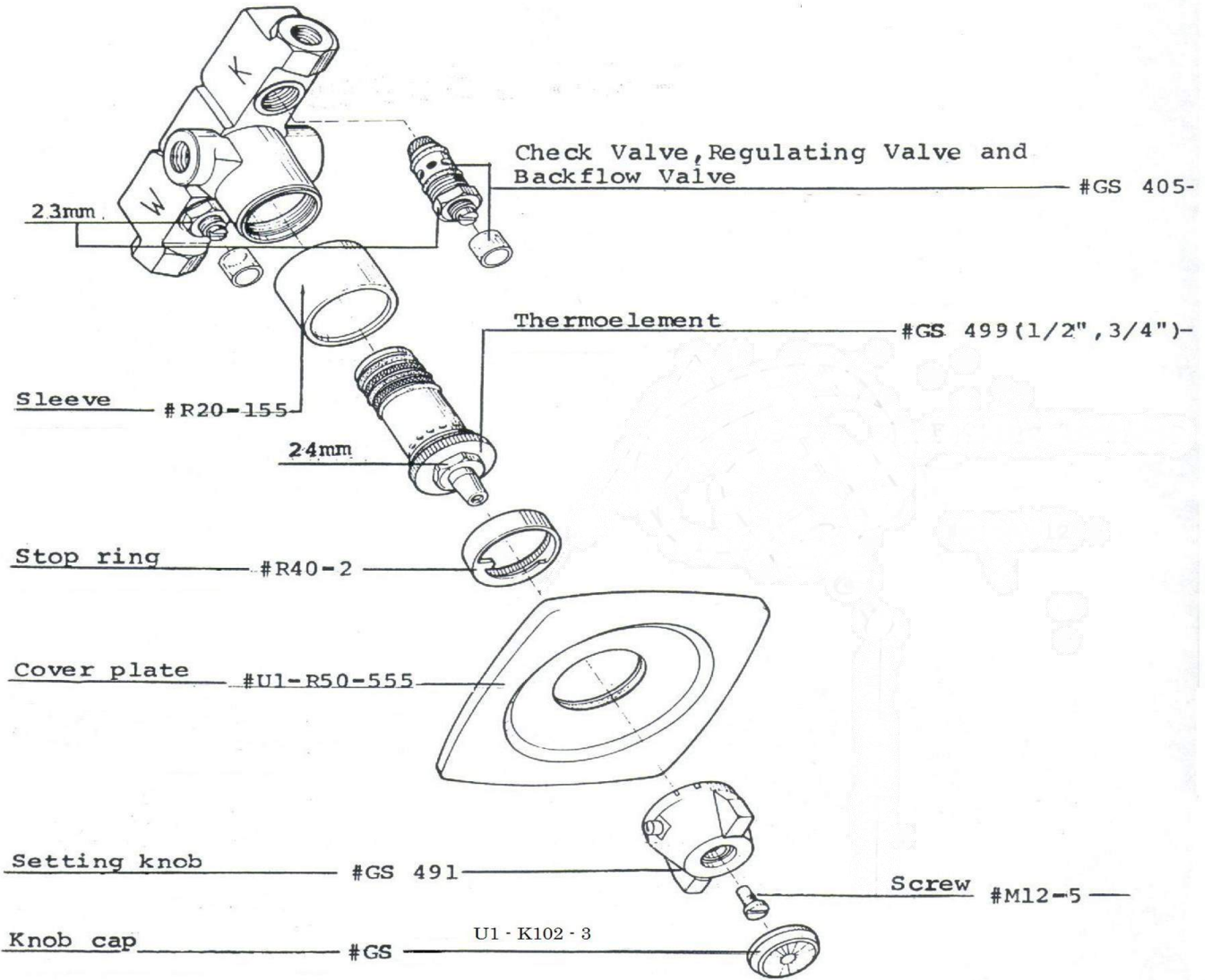


<u>#</u>	<u>Part #</u>	<u>Description</u>
4	3381	Hinge Rod Retainer / Blocks, Each
	3336+H	Complete Hinge Assembly, Right Hinge
	3341+H	Complete Hinge Assembly, Left Hinge

Thermostatic Mixing Valve

SCHMIEDL Thermostatic Mixer

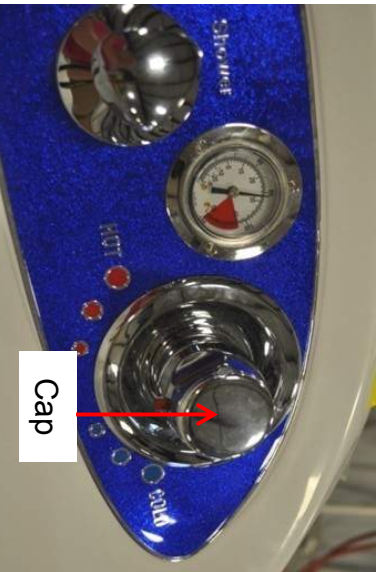
GS 450 1/2" (3/4")



Thermostatic Mixing Valve (cont'd)

HOW TO CALIBRATE THERMOSTATIC MIXING VALVE?

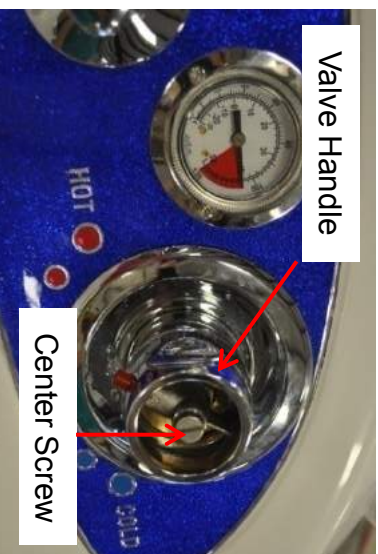
TOOLS NEEDED: SMALL FLATHEAD SCREWDRIVER & LARGE FLATHEAD SCREWDRIVER



Step 1: Use a small flathead screwdriver and find the notch under the cap and remove it. **Be careful not to scratch the chrome finish.**



Step 3: Once temperature is reached, loosen center screw and pull valve handle towards you until valve handle is loose. Turn valve handle clockwise towards hot until valve handle stops. Tighten center screw.



Step 2: Loosen center screw and pull valve handle towards you until valve handle is loose. Next, turn valve handle towards cold. Tighten screw. Turn valve handle clockwise towards hot. Turn in small increments until desired temperature is achieved. **104° F maximum is recommended.**



Step 4: Re-install cap. The tub temperature is now calibrated and ready for use.

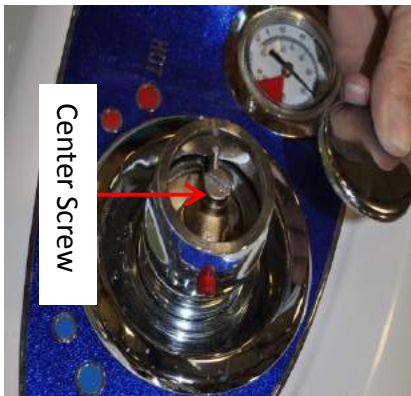
Thermostatic Mixing Valve (cont'd)

HOW TO REMOVE THERMOSTATIC MIXING VALVE CARTRIDGE?

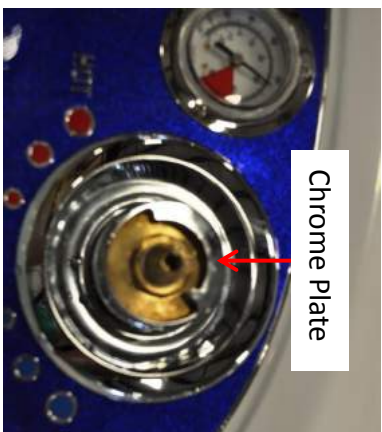
TOOLS NEEDED: SMALL FLAT TIP SCREWDRIVER, LARGE FLAT TIP SCREWDRIVER, CRESCENT WRENCH



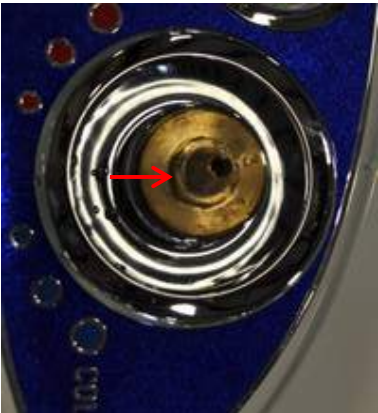
Step 1: Use the small flat tip screwdriver and find the notch under the cap to remove the cap. **Be careful not to scratch the chrome finish.**



Step 2: Hold the valve handle with one hand and use a large flat tip screwdriver to remove the center large screw. Pull to remove handle.



Step 3: Remove chrome plate from top of valve. Insert a large flat tip screwdriver under the chrome plate to gently pry off.



Step 4: Using a Crescent Wrench, turn nut on mixing valve cartridge counterclockwise to remove.



Step 5: Pull out mixing valve cartridge and soak **overnight** in 1 tbsp of baking soda per 8 oz of water.



Step 6: Install mixing valve cartridge. Calibrate temperature before first use. See mixing valve calibration instructions.

Valve Package

HOW TO REPLACE A TUB-FILL OR SHOWER DIVERTER VALVE STEM?

TOOLS NEEDED: CRESCENT WRENCH, SILICONE ADHESIVE, AND 17MM SOCKET (if needed)

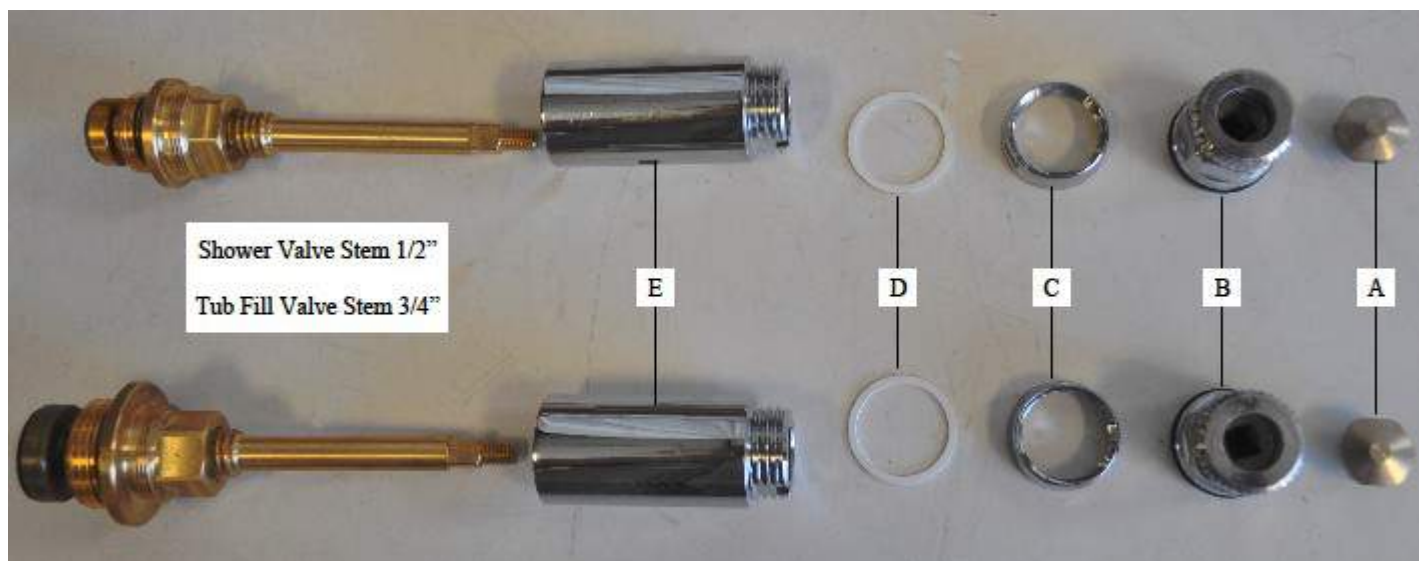


Figure 1



Step 1: Using both hands, grip the knob firmly. Pull firmly and steady to remove the knob.



Step 2: Remove the chrome escutcheon and gently peel off the rubber gasket.



Step 3: Using a crescent wrench, remove part A (fig.1). Hold the valve assembly firmly with your fingers.



Step 4: Remove part B (fig.1). Simply pull straight out.

Valve Package (cont'd)



Step 5: Using a crescent wrench, remove part C (fig.1).



Step 6: Remove part D (fig.1).



Step 7: Using a crescent wrench, remove part E (fig.1).



Step 8: Use tongue & groove pliers on base of valve stem and remove.



Step 9: Insert and carefully thread in new valve stem. **Hand tighten.**



Step 10: Use tongue & groove pliers on base of valve stem and tighten until it stops. **Be careful not to over tighten and snap the stem.**



Step 11: Re-install part E (fig.1).
Note: Do not over tighten.



Step 12: Re-install part D (fig.1)/



Step 13: Using a crescent wrench, Re-install part C (fig.1)/



Step 14: Re-install part B (fig1).

Valve Package (cont'd)



Step 15: Re-install part A (fig.1). Hand tighten until it stops, then using the crescent wrench, tighten 2 full turns. **Note: Do not over tighten.** If turning the valve on and off is stiff or makes a grinding noise, the nut is too tight. Back off by loosening a 1/2 to 1 turn. The valve should be fluid and easy to turn on and off.



Step 16: Re-install the chrome escutcheon and rubber gasket. **Note: If rubber gasket loses its adhesive backing during removal in Step 2, use a small bead of silicone adhesive around the entire rubber gasket. Wipe off any excess silicone.**



Step 17: Align the teeth inside the knob with the teeth on part B (fig.1). Using the palm of your hand, push in the knob firmly until it locks into place. **Note: If knob doesn't lock into place, use a small amount of shampoo or body wash on the teeth for lubrication.**

Note: If the valve stem is broken off, use either a 17mm socket or channel locks to remove it. Remove all of the parts (A-E on fig.1) from the broken valve and begin at Step 9. If parts cannot be removed from the broken valve, you'll need to order the complete valve package (item # 1685-1/2" shower valve or # 1690- 3/4" tub-fill valve).

HOW TO REPLACE AN AIR SPA JET ASSEMBLY?

TOOLS NEEDED: SMALL FLAT TIP SCREWDRIVER AND SMALL NEEDLE NOSE PLIERS

Step 1: Turn on air spa motor for 30 seconds to blow out any water in the assembly.

Step 2: Place the drain plug over drain hole or close cable drain to avoid any parts falling into the tub drain.



Step 3: Using a small flat tip screwdriver, insert tip into one of the 6 small openings in the jet cover cap and gently pop off. **Be careful not to damage gelcoat or nylon assembly.** Using small needle nose pliers, remove the "y" piece (see Fig. 1) to expose the internal parts of the jet assembly and remove the old brass insert and spring. **Do not lose or throw out the "y" piece,** set aside.

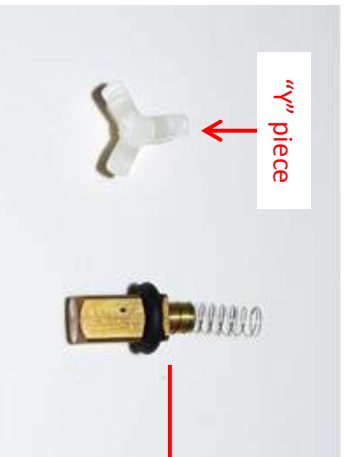
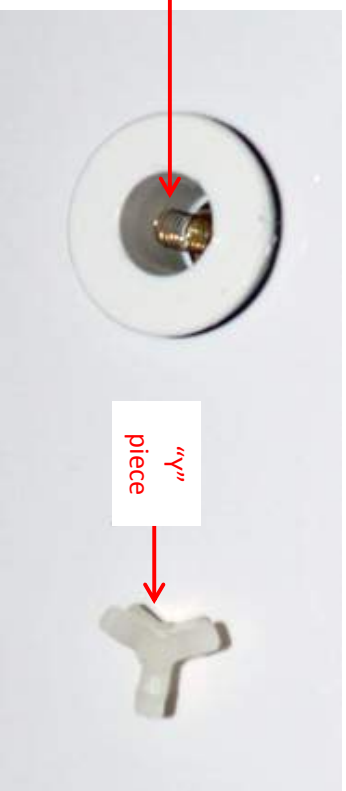


Fig. 1



Step 5: **Make sure the jet assembly is free of debris, mildew, or any buildup before inserting new brass insert and spring.** Clean with cotton swab if needed. Insert the new brass insert and spring into the existing jet assembly. Make sure the spring is installed directly in the center of the jet assembly.

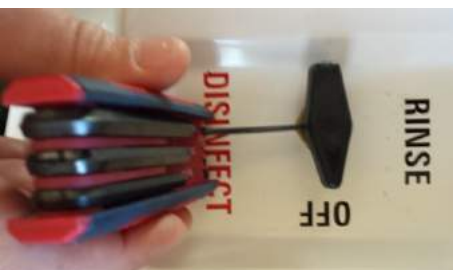
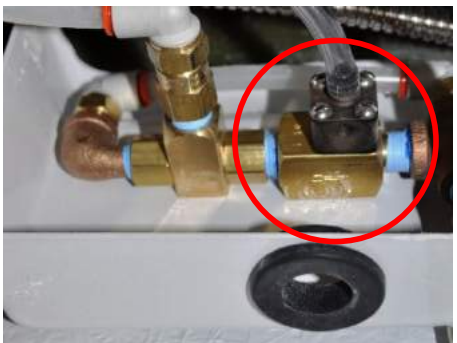


Step 6: Insert the "y" piece directly centered on the spring. Push down on the "y" piece till it snaps into place. Spring must be centered to work properly (see above picture). Install jet cover cap. Press until you hear a snap noise indicating it's in the correct position.

Disinfectant System

HOW TO CLEAN AND/OR REPLACE A DEMA VALVE?

TOOLS NEEDED: ADJUSTABLE WRENCH, 3/32" ALLEN WRENCH, FLATHEAD SCREWDRIVER

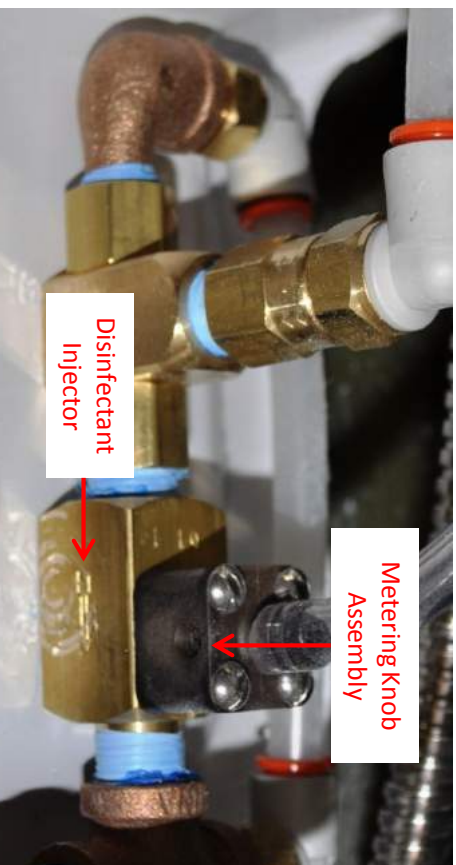


Step 1: Turn cold water supply off and identify the Disinfectant Valve System, which consists of a Metering Knob Assembly and Disinfectant Injector.

Step 2: Remove the knob using a 3/32" Allen wrench. Remove the large nut holding the 3-way Valve in place with an Adjustable wrench. Simply pull or push the disinfectant valve system out of the hole, which will allow easy access for the repair/cleaning.



Step 3: Remove the clear hose that goes from the Metering Knob Assembly to the disinfectant bottle. Run hot water through the hose and filter on the end to remove debris or build-up.



Step 4: Label or mark the hoses to insure they are reconnected correctly. Remove the hoses using the quick disconnects and/or compression nut (Adjustable wrench needed). * **Removing the hoses is not required, however, it makes it easier to perform the task.**

Disinfectant System



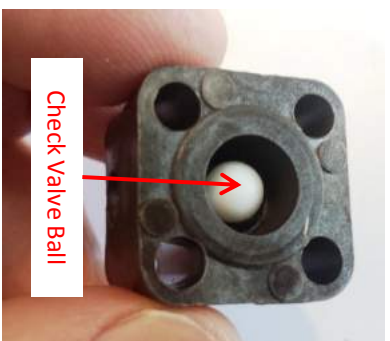
Step 5: Using a flathead screwdriver, remove the 4 screws that secure the Metering Knob Assembly to the Disinfectant Injector. Pull the Metering Knob Assembly out of the Disinfectant Injector. * **Be careful not to lose the Metering Knob O-ring.**



Step 7: With hot water, clean the Metering Knob Assembly, Check Valve Core w/spring, Check Valve Ball, and Check Valve O-ring. Remove any debris or build-up.



Step 6: Remove the Check Valve Core exposing the Check Valve Ball (white teflon) and the Check Valve O-ring, which is underneath the Check Valve Ball. * **Be careful not to lose the parts, which may fall out.**



Step 8: Reinstall the Check Valve O-ring first, Check Valve Ball second, then the Check Valve Core w/ spring. * **Make sure that the Check Valve Core moves in and out smoothly and springs back when pushed in. If not, check for debris that may be interfering with movement.**

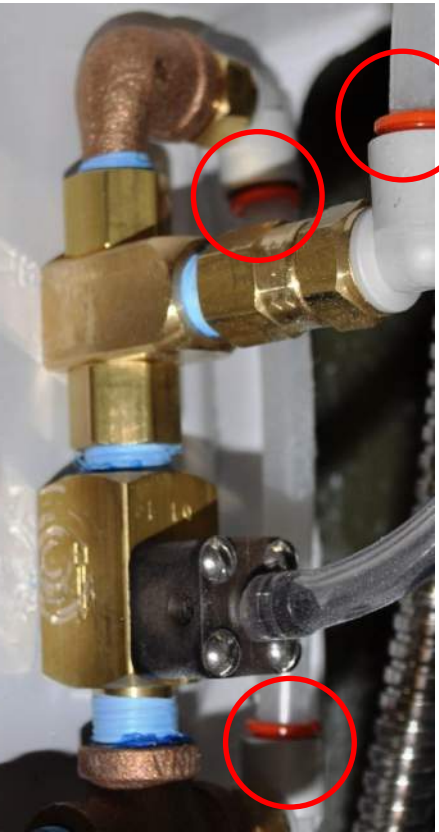
Disinfectant System



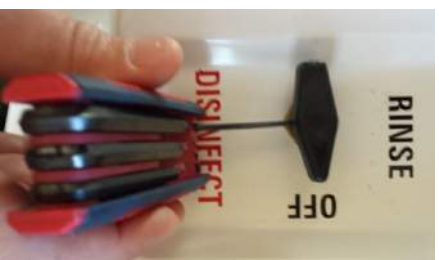
Step 9: Reinstall the Metering Knob O-ring first. Reinstall the Metering Knob Assembly to the Disinfectant Injector and snugly tighten all 4 screws.



Step 10: Reinstall the clear hose that goes from the Metering Knob Assembly to the disinfectant bottle. ** If the end of the hose is stretched out and loose, cut a 1/4" off the end and reinstall.*



Step 11: Reinstall the hoses using the quick disconnects and/or compression nut (Adjustable wrench needed). ** Make sure the hoses are reconnected correctly.*



Step 12: Put the 3-way Valve back into the hole. Reinstall the nut using an adjustable wrench. Reinstall the knob using a 3/32" Allen wrench. ** Make sure the knob lines up with the labels (OFF / RINSE / DISINFECT).*