RR7-II Atlantic Reclining 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, radio, or television) 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.



MARNING: 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.
- ➤ 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.
- ➤ 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 & 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.

Table of Contents

Technical Specifications	Section 1
Pre-Installation Drawings and Dimensions	Section 2
Installing the Tub	Section 3
Using the Tub	Section 4
Warranty and Disclaimer	Section 5
Maintenance and Adjustments	Section 6
Troubleshooting	Section 7
Door Replacement Parts List	Section 8
Thermostatic Mixing Valve	Section 9
Valve Package	Section 10
Air Spa System	Section 11
Disinfectant System	Section 12

Technical Specifications

Description: Model RR7-II is a reclining, side-entry accessible 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.

3/4" Supply Lines constructed of stainless steel.

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

Auto-Fill (if equipped) is a time-saving feature that enables the caregiver to fill the foot well to a pre-set level.

Digital Scale (if equipped) for accurate weight reading at bath time.

Width: 34"
Length: 73"
Length (fully reclined): 88"

Height: 51" (lowest setting)

Height (door in upright position): 78" (lowest setting)

Adjustable leveling legs: 2" maximum

Seat width (interior): 24"

Seat height: 21" (lowest setting)

Transfer device access: 5" H X 31" W (lowest setting)

Weight capacity (resident): 450 lbs. / 204.5 kg
Water capacity (occupied): 38 gallons / 143.8 L
Water capacity (foot well): 24 gallons / 90.8 L
Fill time (foot well): 1 minutes, 36 seconds
Drain time (foot well): 2 minutes, 10 seconds

Water supply inlet: 3/4" diameter

Drain size: 1.5"

Electrical supply: 115V AC; 60Hz; 15 amp (GFCI outlet required)

Door configuration: Upward swing, Left side only

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.

Warranty

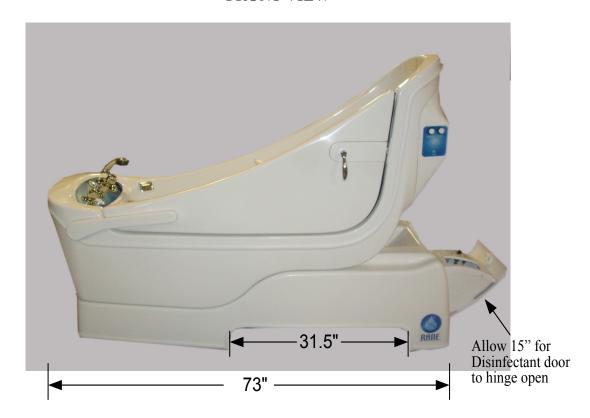
Please reference section 5 for complete warranty details.

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

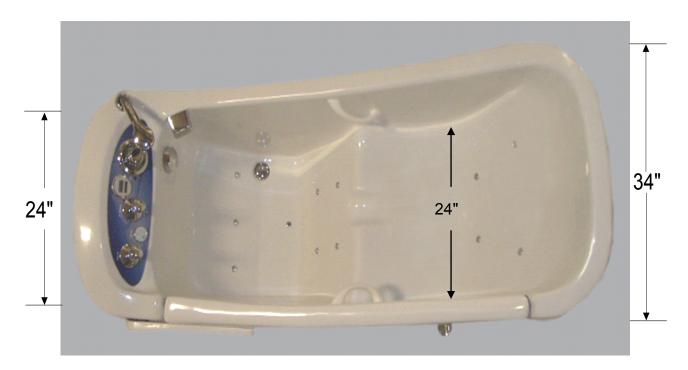
FRONT VIEW



Vertical dimensions are with the tub in the lowest position. The seat height is 21.5" if legs are extended and tub is raised, adjust the dimensions



TOP VIEW



FRONT VIEW DOOR OPEN



Vertical dimensions are with the tub in the lowest position. If legs are extended and tub is raised,



Up to 7" vertical clearance For lifting device

DOOR OPEN & FULLY RECLINED





NOTE:
Tub door should
not be opened
while tub is

Connection Configurations

The RR7-II model has three (3) configuration options. Front, Side, and Island Configuration. The optimum configuration should be selected after reviewing the layout of the spa / bathroom, existing plumbing, drain, and electrical connections,

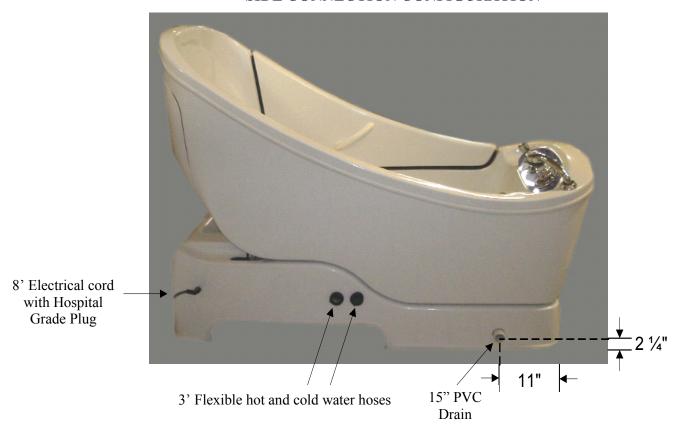
MINIMUM SPACE REQUIREMENT TOP VIEW





Dimensions shown are manufacturer recommended specifications as the minimum space required for proper operation of the RR7-II.

SIDE CONNECTION CONFIGURATION

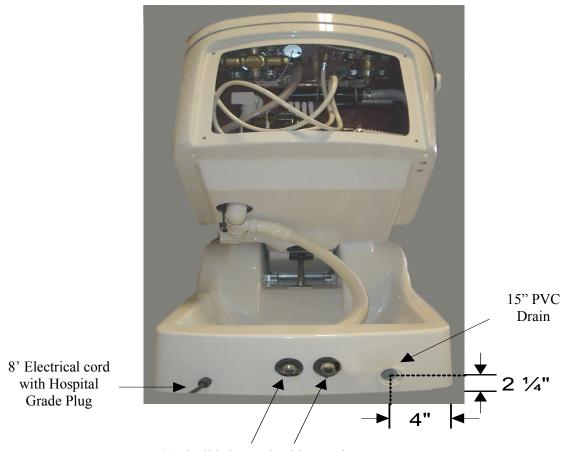




- Unit must be connected to a Ground Fault Circuit (GFCI) outlet
- Drain connection dimensions are from front of base to center and bottom of base to center of 1.5" PVC drain connection.



FRONT CONNECTION CONFIGURATION



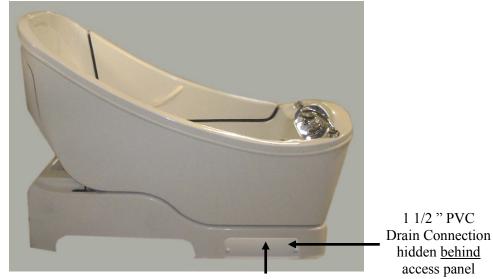
3' Flexible hot and cold water hoses



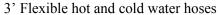
- Unit must be connected to a Ground Fault Circuit (GFCI) outlet
- Drain connection dimensions are from front of base to center and bottom of base to center of 1.5" PVC drain connection.



ISLAND CONNECTION CONFIGURATION



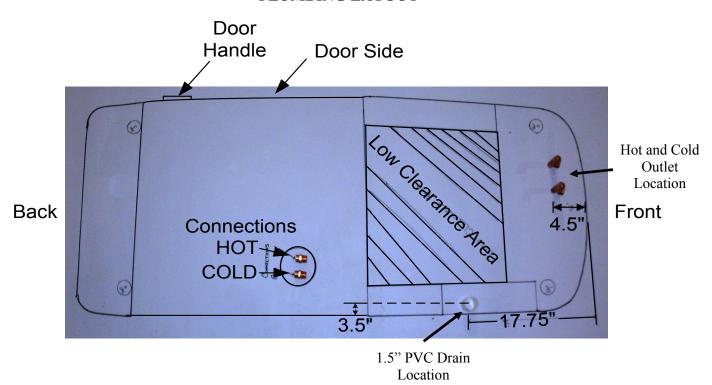
8' Electrical cord with Hospital Grade Plug <u>under</u>





- Unit must be connected to a Ground Fault Circuit (GFCI) outlet
- Drain connection dimensions are from front of base to center and bottom of base to center of 1.5" PVC drain connection.

PLUMBING LAYOUT



Installing the Tub





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 RR7-II is designed to be installed as a freestanding unit. Several items of precaution should be taken during installation:

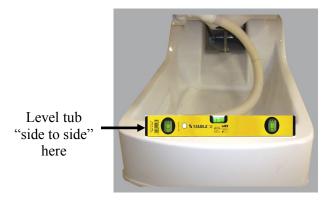
- USE THIS PRODUCT ONLY FOR ITS INTENDED USE AS DESCRIBED IN THESE INSTRUTIONS.
- DURING CONSTRUCTION, THE TUB'S SHELL IS VULNERABLE TO DAMAGE CAUSED BY FALLING OBJECTS, SUCH AS TOOLS AND CONSTRUCTION MATERIALS. DO NOT STAND IN THE TUB DURING INSTALLATION.
- NEVER STORE ANY CONSTRUCTION MATERIALS INSIDE 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.

Step 1: Determine final location and review framework for the tub. Rough-in plumbing and electrical hook-ups must meet building codes and regulations. When installing into an alcove, the tub should slide into the final location without binding. 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.

Installing the Tub (cont'd)

Step 3: Move the tub into the final location. Use a level across the front of the base of the tub. If adjustment is needed, level the unit by turning the six (6) adjustable legs to raise or lower the tub.



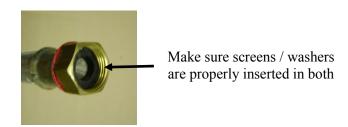


NOTE: The unit is considered freestanding and should <u>not</u> be anchored to the floor. The adjustable legs have anti-skid pads to prevent movement of tub during normal use.



NOTE: If mobile lifts are used for transferring, verify that the lift base clears the plumbing and electrical connections. If possible damage could occur, you must install blocking or a stop to prevent contact between the lift base and the plumbing and electrical connections.

Step 4: Before hooking up the two 3/4 water lines, clean the main hot and cold water supply 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 threaded connections are NOT "hose thread", but rather "National Pipe Thread" (NPT). **The warranty does not cover damage caused by debris in the lines.**



- **Step 5:** Connect the hot and cold water hoses, drain, and electrical connection. Double check all connections for proper fit and installation.
- **Step 6:** Make connection from drain opening on tub to the facility drain.
- **Step 7:** Plug the electrical power cord into the GFCI outlet.
- **Step 8:** Attach any accessories, including shower wand and disinfect hose assembly.
- **Step 9:** Test tub for proper operation. Be sure to clean inside of tub prior to filling unit. Excess debris may damage the air spa jets or gel coat. Check the unit for any leaks.
- **Step 10:** Remove any installation labels and directions. Clean tub with warm water and a non-abrasive cleaner.



NOTE: The thorough inspection and startup of the tub is required before first use. It is the installer's responsibility to check and tighten threaded and drain connections before using tub.

Using the Tub

RR7-II "Atlantic"

Operating and Disinfecting Procedures

Operating Procedures

- Open the door and turn "Cable Drain Knob" counterclockwise to close the drain.
- Turn on water with "Tub-Fill" valve or press the "Auto-Fill" button (if equipped). When "Auto-Fill" is activated, the tub will fill and shut-off automatically when the proper water level is reached in the foot well. * Do not turn on water with "Tub-Fill" valve when utilizing the Auto-Fill function.
- · 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.

- Transfer the resident into the tub and close the door. Turn door "Locking Handle" clockwise to engage latch.
- Recline the tub by using the "Tilt adjust" button. Add an additional 4-6 gallons of water using the "Tub-Fill" valve to achieve optimal submersion or water level.
- To use the "Shower Wand" turn on the "Shower Diverter" valve and hold wand away from resident. Check the water temperature with your hand and "Thermometer" before showering the resident. The "Shower Wand" may be used while filling the tub.
- Use non-foaming bathing solutions and for bath oils, which are ideal for tubs with air spa systems.
- Turn "Cable Drain Knob" clockwise to open the drain. Return tub to the seated position using the "Tilt adjust" button.
- Turn door "Locking Handle" counterclockwise and open the door. Transfer the resident out of the tub.



Air Spa System

To use the "Airspa" feature, push the "Airspa" button located on the control panel.

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.



Drying Cycle (Purge Cycle)

An automatic drying cycle will start 10 minutes after the blower is turned off. Once the purge cycle begins, the Air Spa blower will run for one continuous minute at maximum speed. The Air Spa blower <u>cannot</u> be turned off during the purge cycle, unless unplugged.

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.



TO ORDER THE RECOMMENDED DISINFECTANT FOR YOUR RANE BATHING SYSTEM PLEASE CALL

Using the Tub

Digital Scale (if equipped)

Digital Scale Operation:

- Turn on the scale, press the "ON / ZERO" button. The display will perform a start-up sequence, showing the firmware version (ex. U 4.1) and the current battery voltage (b. 6.0), then settle on some weight.
- Press the "ON/ZERO" pad to zero the display. The display will show the word "ZErO" while the pad is pressed, then will go to 0.0 when the pad is released. If dashed lines are displayed the unit is unstable; please ensure that it is not touching any objects and zero again.
- 3. Place the resident in the tub per the Facilities policy and procedure. Read the resident's weight on the scale display. If the display turned off before lifting the resident, simply press the "ON/ZERO" pad to turn the scale on and read the weight (be careful to press the "ON/ZERO" pad only once to turn the scale on, or the display may be inadvertently zeroed while the resident is in the sling) If the scale is inadvertently zeroed the resident weight will be negative but accurate when resident is removed.
- 4. To change the display unit from lb. to kg or from kg to lb., press and hold the "LB/KG" pad for approximately 3 to 4 seconds. The display will show the "conv" message then blank and the unit annunciator will change from LB to KG or from KG to LB. Release the "LB/KG" pad after the unit annunciator changes.
- To recall the last resident's weight, the scale must first be turned on. Press the center of the "RECALL"
 pad to the left of the "ON/ZERO" pad on the front of the scale. The display will show the message
 "rECL" then alternately flash between the stored weight and the "rECL" message.
- If the battery symbol appears, replace the batteries with AA alkaline batteries. The battery access cover is on the back of the scale.

Calibration:

- Should calibration be necessary, a 25 lb. precision weight is required.
- To enter the calibration mode, first press and hold the "ON/ZERO" pad. While holding the "ON/ZERO" pad press and hold the "LB/KG" pad. After approximately 3 seconds the message on the display will change from "ZErO" to "CAL". Release both pads at this time and the display will show the "C 0" message.
- Make sure the tub is empty and press the "ON/ZERO" pad. The indicator will count down from 8 to 0
 while taking readings and store the zero point. When finished, the indicator will show the "C 25"
 message.
- 4. Place a 25 lb. test weight in the tub and press the "ON/ZERO" pad once again. The indicator will count down from 8 to 0 while taking readings and calculate and store the span calibration. The indicator then automatically returns to the normal weighing mode. Calibration is now complete.

To access a video on how to calibrate a scale, visit www.scalesbyims.com. Video is located under the "support" tab.



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
- 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 $^{\circ}$ 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.

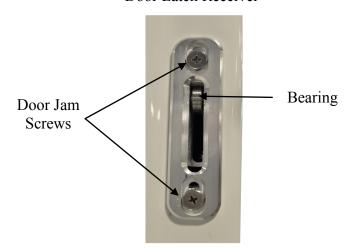
Maintenance and Adjustments

Door Adjustments

If door seal is leaking, the door probably needs adjustment. This can be accomplished by adjusting the slide bearing in the Door Latch Receiver (see Section 8 for location).

- 1. Note the position of the Bearing. Mark the center point on the cover housing with a pencil.
- 2. Loosen the Door Jam Screws with a Phillips screwdriver, and slide the bearing down approximately 1/8" to make the door latch tighter.
- 3. Re-tighten the Door Jam Screws with the Bearing in the new position, latch the door, and re-check for leaks. Repeat steps if necessary.

 Door Latch Receiver

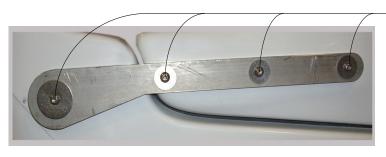




NOTE: Do not adjust the bearing more than $\frac{1/8"}{at a time}$. If the door is adjusted too tight, the door latching mechanism may be damaged.

If door is loose or there are gaps between the seal and opening, the door may need to be adjusted at the hinge.

- 1. Verify that the 4 hinge bolts are tight.
- 2. If bolts are tight but door needs adjustment, have door in closed but not latched and loosen bolts.
- 3. Adjust door by applying pressure to the middle of the door. While pressure is on middle of door pay particular attention to height of left and right sides of door in relationship to top rim of tub. Both the left and right sides of the door should be even or slightly higher than the rim of the tub.
- 4. Re-tighten screws. Verify door operation and test for leaks.



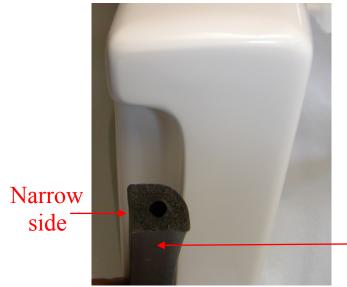
Door Hinge

Door hinge bolts 3/16" Allen Wrench

Maintenance and Adjustments (cont'd)

Contents of Door Seal Kit

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



Wider side



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 De	aler / Distributor	or Rane Bathing	& Accessibility	for periodic u	pdates to
this schedule.			_	•	-	-

Model #		
Serial #		

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

Troubleshooting

Problem / Issue	Check	Action / Solution
	Check door seal	Re-attach door seal if loose or replace if damaged (see Section 6.2)
Door is Leaking	Check door positioning	Adjust door (see Section 6.1)
	Check door latch receiver	Adjust door latch (see Section 6.1)
Door will not open or	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.
close properly	Check door positioning	Adjust door (see Section 6.1)
	Check door latch receiver	Adjust door latch (see Section 6.1)
	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
Water too hot or too cold	Check if hot and cold connections are properly installed	Reverse connections if backwards
Water too not or too cold	Check if water supply dynamic pressures are within 10% of eachother	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	Check knobs	see Section 10
working properly (ie. tub- fill and shower valves)	Check valve stems	Check if damaged or properly tightened (see Section 10)
	Check if plugged into outlet and/or damage to the electrical cord	Plug-in and/or replace the electrical cord if needed
Raise / Lower "Tilt" mechanism	Check if GFCI outlet is working properly	Reset GFCI outlet / breaker
malfunctioning	Check buttons and connections	Replace and/or reattach connectors
	Check Actuator	Contact an Authorized Dealer or Rane Bathing Systems for assistance
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	Check clear tube that goes into the disinfectant bottle	Un-clog the clear tube and/or mesh filter on the end of the tube
working properly	Check disinfectant knob	Tighten if needed (see Section 12)

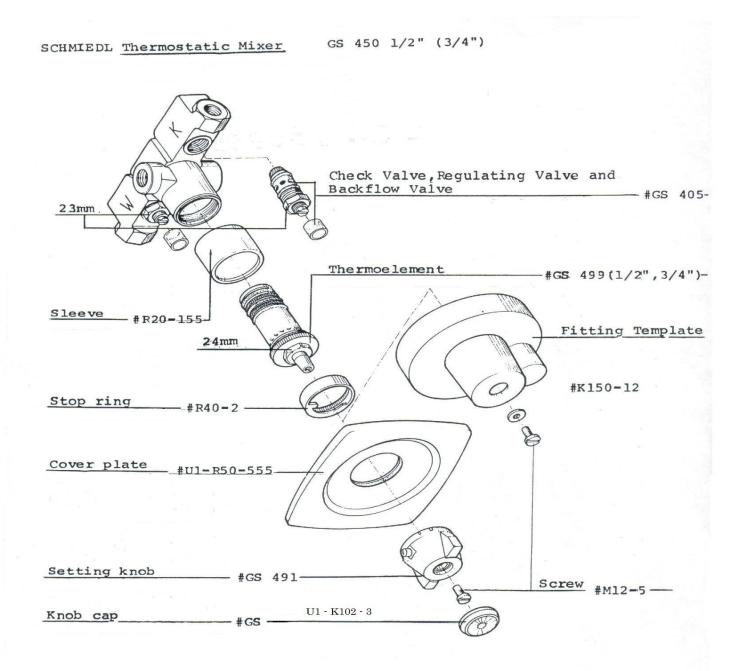
Door Replacement Parts

Door Latch Receiver



<u>#</u>	Part #	<u>Description</u>
1	RR7IIHC	Hinge Cover, acrylic
2	1900	Door Handle (Handle only)
2	RR7MECH	Door Lock Assembly (includes Handle)
3	RR7IID	RR7-II Door, Complete

Thermostatic Mixing Valve



TOOLS NEEDED: SMALL FLATHEAD SCREWDRIVER & LARGE FLATHEAD SCREWDRIVER **HOW TO CALIBRATE THERMOSTATIC MIXING VALVE?**



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 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 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.

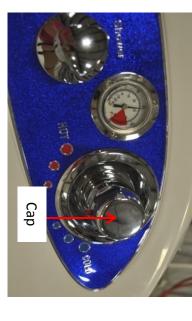


Step 4: Re-install cap. The tub temperature is now calibrated and ready for use.

Thermostatic Mixing Valve (cont'd)

HOW TO REMOVE THERMOSTATIC MIXING VALVE CARTRIDGE?

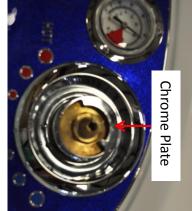
TOOLS NEEDED: SMALL FLAT TIP SCREWDIVER, LARGE FLAT TIP SCREWDRIVER, CRESCENT WRENCH



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

Step 4: Using a Crescent Wrench, turn

nut on mixing valve cartridge counterclockwise to remove.



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)

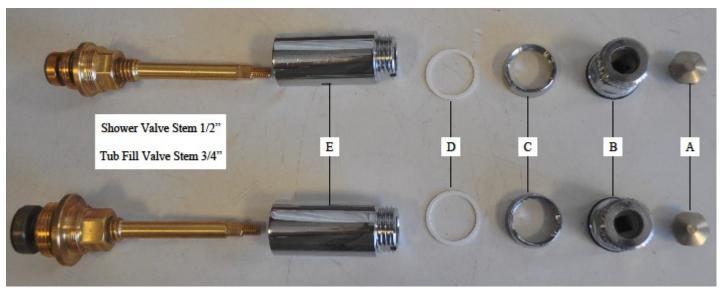


Figure 1





ADT O

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 aprts 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).

TOOLS NEEDED: SMALL FLAT TIP SCREWDRIVER AND SMALL NEEDLE NOSE PLIERS HOW TO REPLACE AN AIR SPA JET ASSEMBLY?

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

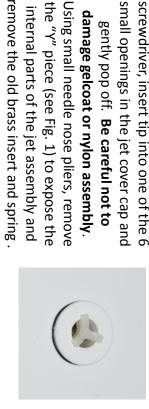
avoid any parts falling into the drain hole or close cable drain to tub drain. Step 2: Place the drain plug over

"Y" piece



small openings in the jet cover cap and screwdriver, insert tip into one of the 6 damage gelcoat or nylon assembly. gently pop off. Be careful not to Step 3: Using a small flat tip

Do not lose or throw out the "Y" piece remove the old brass insert and spring internal parts of the jet assembly and set aside.



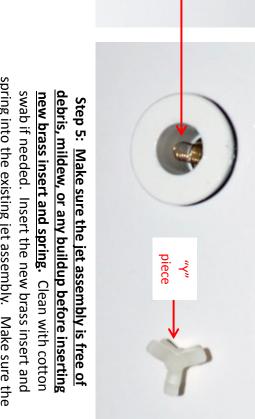


Fig. 1

spring into the existing jet assembly. Make sure the spring is installed directly in the center of the jet assembly.



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

Disinfectant System

HOW TO CLEAN AND/OR REPLACE A DEMA VALVE?

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

RINSE

0FF







Step 2: Remove the knob using a 3/32" Allen wrench. Remove the large nut

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

Assembly and Disinfectant Injector.

push the disinfectant valve system out of the hole, which will allow easy access

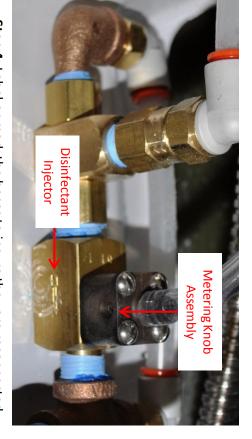
for the repair/cleaning.

holding the 3-way Valve in place with an Adjustable wrench. Simply pull or





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



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

Disinfectant System

Step 7: With hot water, clean the Metering Knob

Valve Ball, and Check Valve O-ring. Remove any

debris or build-up.

Assembly, Check Valve Core w/spring, Check

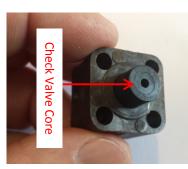




Step 5: Using a flathead screwdriver, remove the 4

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.









out of the Disinfectant Injector. * Be careful not to lose Disinfectant Injector. Pull the Metering Knob Assembly screws that secure the Metering Knob Assembly to the the Metering Knob O-ring.







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

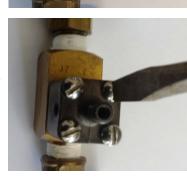
Disinfectant System





Step 9: Reinstall the Metering Knob O-ring first. Reinstall the Metering Knob Assembly to the Disinfectant Injector

and snuggly tighten all 4 screws.



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









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 %"off the end and reinstall.

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).