

THE BEST BATH OR SHOWER EXPERIENCE? THE ONE NOBODY INTERRUPTS.

Thank you for buying an American Standard bath or shower product.

We're so grateful you did, and you will be too. Not just while you're waking up each morning, but also every time a dirty gardener, sweaty soccer player, or muddy dog gets cleaned up. How do we know? Just like you, we've lived with that same beautiful chaos called life for almost 150 years. We believe that while every home should appreciate in value, we never forget the sentimental value that grows from enjoying life in the heart of home—your kitchen and bath. That's why we love your stories and ideas; they help us innovate with products that make your life easier.

Or, visit **americanstandard-us.com/bathroom/massage-tubs** to watch video, view/download installation manuals or learn more about your product.

Have a question or need help on install?

For questions or help on installation call us at **800 442-1902**.

For a copy of our warranty in additional languages,
please visit Americanstandard.com

American Standard

OWNERS MANUAL

Mainstream® 60 x 32 Whirlpools

2948LC-RHO.020 / 2948LC-LHO.020

2949LC.020

INSTALLATION INSTRUCTIONS

Thank you for selecting American Standard – the benchmark of fine quality for over 150 years. To ensure this product is installed properly, please read these instructions carefully before you begin. Certain installations may require professional help. Also be sure your installation conforms to local codes.

INSTALLATION PREPARATION

- Please unpack carefully and identify all parts needed for installation by using the Box Contents page as a reference. Inspect the product and report any damages or missing parts immediately to customer care by calling 800-442-1902.
- Mainstream Whirlpool dimensions are nominal and meant for a standard 60" (1524 mm) alcove. Alcove sizes may vary based on stud and wall material thickness. Please double check your measurements prior to starting your install.
- Wear protective equipment during installation to avoid injury.
- Please keep these instructions for after care and customer service details.



WARNING: PRODUCT IS HEAVY AND REQUIRES TWO PEOPLE FOR INSTALLATION.










BEFORE YOU BEGIN

Inspect your product thoroughly before installing. Take extra care in handling surfaces of the bath and use only non-abrasive cloths to avoid scratching. Observe all local plumbing and building codes.

IMPORTANT SAFETY INSTRUCTIONS

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

READ AND FOLLOW ALL INSTRUCTIONS!

-  **WARNING: Risk of personal injury.** Do not permit children to use this unit without adult supervision.
-  **WARNING: Risk of personal injury.** Do not operate this unit without the guard over the suction fitting.
-  **WARNING: Risk of electric shock.** Do not permit electrical appliances (hair dryer, telephone, radio, etc.) within 60 inches (1524mm) of this unit.
-  **WARNING: Risk of hyperthermia and possible drowning.** People using medications and/or having adverse medical history should consult a physician before using this product.
-  **WARNING: Risk of personal injury.** Do not overfill unit before entering. Entering tub when filled more than 2/3 can cause overflow and slippery conditions. Exercise caution when entering and exiting.
-  **WARNING: No Food or Alcoholic Beverages.** Use of your bathtub immediately after meals is not recommended. Avoid alcohol consumption before or during bathing. Alcoholic beverages can cause drowsiness or hyperthermia resulting in loss of consciousness or even drowning.
-  **WARNING: Pregnancy.** If you are or think you may be pregnant, consult your physician before using the bathtub.

Never drop or insert any object into any opening.

Use this unit only for its intended use as described in this manual. Do not use any attachments not recommended by American Standard.

The unit must be connected only to a supply circuit that is properly protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should 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 to the bathtub without the test button being pushed, a ground current is 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 licensed electrician before using.

A pressure wire connector is provided on the exterior of the motor unit to permit connection of a no. 8 AWG solid copper bonding conductor between this unit and all other electrical equipment and exposed metal in the vicinity, as needed to comply with local requirements. To reduce the risk of an electric shock, connect this connector to the grounding terminal of your electric service or supply panel with a conductor equivalent in size to the circuit conductors supplying this unit.

SAVE THESE INSTRUCTIONS

RECOMMENDED TOOLS AND MATERIALS

Installation steps will indicate which tools should be used with associated letter



Level

A



Tape Measure

B



Slip Joint Pliers

C



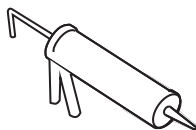
Screwdriver

D



Pipe Wrench

E



Caulking Gun

F



Safety
Equipment

G

Standard
Woodworking Tools

H

MATERIALS

Roofing Nails

Putty

Caulking (waterproof)

1 x 4 Stringers

Drop Cloth

Cement, Plaster, Grout or Mortar

GENERAL INSTALLATION INFORMATION

IMPORTANT

Carefully uncrate and inspect your new bath for any shipping damage. If such damage is found, report it to your vendor immediately. After inspection and during installation, protect the bath from construction damage. **Before installation, and before enclosing with wallboard, tile, etc., the bath must be filled with water and operated to check for leaks that may have resulted from shipping damage or mishandling.** Do not make modifications to the whirlpool system or remove pump from factory mounting. This could adversely affect the safety and performance of the whirlpool and void the warranty. Do not handle or move the whirlpool by the pump, motor, or piping system. Fittings are not provided with the bath and must be ordered separately. Framing and enclosing materials are provided by others.

For electrical requirements, refer to section titled "Whirlpool Electrical Installation Instructions".

Check for availability of optional American Standard wall tiling bead (required for recess installation). Protect all finished surfaces of the whirlpool during construction and installation using a drop cloth.

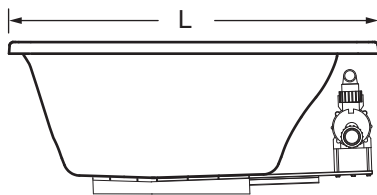
⚠ WARNING: DO NOT LIFT WHIRLPOOL BY THE PIPING HARNESS AT ANY TIME.

American Standard

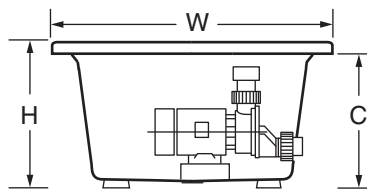
LIST OF OPTIONAL COMPONENTS

Description	Model Number	Required Components (Not Included)	Optional Components (Not Included)		
		Drain (White)	Safe-T-Heater	Apron Kit	Tile Bead Kit
Mainstream® 60 x 32 6 Jet Whirlpool, Drop-In	2949LC.020	1699500.020	9075.120.000	9260.018.020	751755-100
Mainstream 60 x 32 8 Jet Whirlpool, RHO	2948LC-RHO.020	1699500.020	9075.120.000		751755-100
Mainstream 60 x 32 8 Jet Whirlpool, LHO	2948LC-LHO.020	1699500.020*	9075.120.000		751755-100

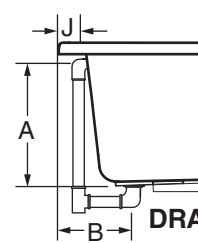
SPECIFICATIONS



SIDE VIEW



END VIEW



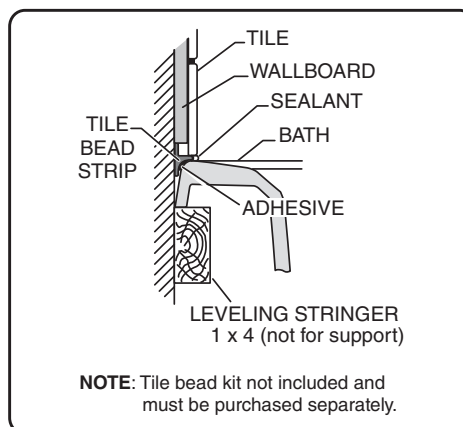
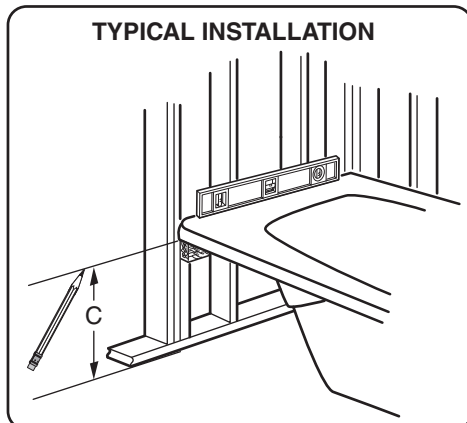
DRAIN / OVERFLOW

Description	Dimensions L-W-H	Drain / Overflow	Height to Underside of Deck: C	Cut Out Pier G x F	Rough-In Recess E x D	Tub Edge to Centerline Overflow: J	Weight with Water / Floor Loading	Product Weight	Apron / Mounting	Heater Ready for Field Installation	Gallon to Overflow	Whirlpool Operating Volume
2949LC.020	L 1524 mm (60") W 832 mm (32-3/4") H 502 mm (19-3/4")	A 438 mm (17-1/4") B 216 mm (8-1/2")	C 464 mm (18-1/4")	1485 mm (58-1/2") X 794 mm (31-1/4")	1529 mm (60-3/16") X 794 mm (31-1/4")	67 mm (2-5/8")	524 lb. (237 kg) 43 lb./sq.ft. (213 kg/sq.m)	65 lb. (30 kg.)	Optional	Optional	55 gal. (208 l.)	47 gal. (155 l.)
2948LC-RHO.020	L 1524 mm (60") W 813 mm (32") H 521 mm (20-1/2")	A 485 mm (19-1/8") B 266 mm (10-1/2")	C 515 mm (20-1/4")	N/A	1529 mm (60-3/16") X 774 mm (30-1/2")	73 mm (2-7/8")	675 lb. (306 kg)/ 54 lb./sq.ft. (262 kg/sq.m)	92 lb. (42 kg.)	Included	Optional	70 gal. (265 l.)	39 gal. (148 l.)
2948LC-LHO.020	L 1524 mm (60") W 813 mm (32") H 521 mm (20-1/2")	A 485 mm (19-1/8") B 266 mm (10-1/2")	C 515 mm (20-1/4")	N/A	1529 mm (60-3/16") X 774 mm (30-1/2")	73 mm (2-7/8")	675 lb. (306 kg)/ 54 lb./sq.ft. (262 kg/sq.m)	92 lb. (42 kg.)	Included	Optional	70 gal. (265 l.)	39 gal. (148 l.)

Table 1

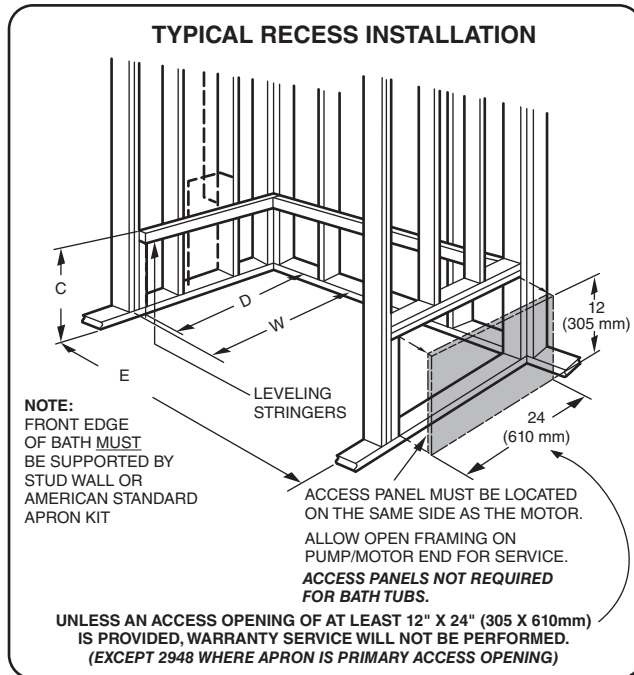
INSTALLATION AND FRAMING INSTRUCTIONS

FIGURE 1

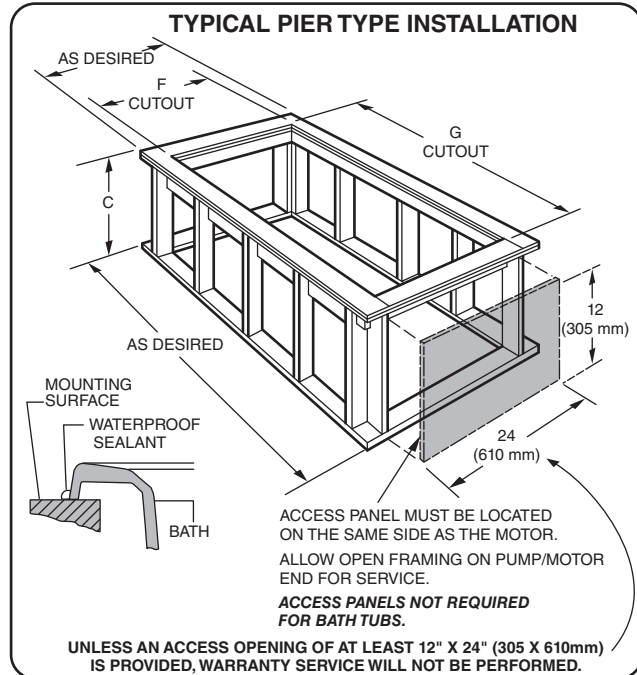


The variety of installations possible for this whirlpool may require framing procedures other than those shown. Locate studs as needed. Ensure roughing-in dimensions are proper, plumb and square. Provisions must be made in all installations for an access opening for servicing the pump and controls. It is strongly recommended that an additional opening be provided for access to the drain components.

- 1a.** Position the whirlpool into the installation opening and level the deck in both directions. On models 2948LHO/RHO, shim the integral support feet if necessary. Mark the final position of the underside of the deck by tracing a line on to the studs (see Figure 1).
- 1b.** Remove the whirlpool and attach a 1 x 4 stringer to the studs, with the top of the stringer touching the traced line.
 ⚠ The rim of the bath **must not** support weight.
- 1c.** Install drain components to the whirlpool following the drain installation instructions. Before replacing your whirlpool for final installation, be certain that an opening has been provided in the sub-floor for the drain. See the roughing-in drawing and Table 1 for suggested opening size (shadowed) and location dimensions. The drain/overflow of the bath extends below the bottom of the bath. Note that this requires a cutout in the floor.
 ⚠ The floor structure beneath the bath must be able to support a total weight of bath, water, and bather. Refer to Table 1 on page 5 under total weight for your model.



FOR E & D DIMENSIONS SEE **TABLE 1** ON PAGE 5.



FOR G & F DIMENSIONS SEE **TABLE 1** ON PAGE 5.

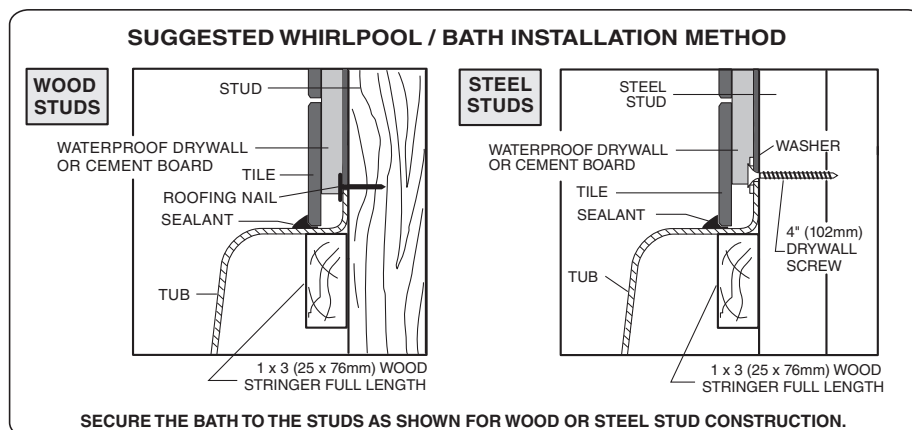
This bath must be supported along its entire bottom. Use mortar as bedding material (do not use sand or foam). Apply enough mortar to support the complete bottom of the bath. After the mortar has been poured, and before it sets, position whirlpool or bath within recess until the rim is leveled against the leveling stringers (see "Typical Recess Installation") shown above.

⚠ The rim of the bath **must not** support weight. Allow the mortar material to completely harden before applying weight to the rim or bottom of the bath. Any finish material such as tile or wall board must be self-supporting if it contacts the deck of the bath.

2948LHO/RHO Replace whirlpool and re-shim the integral support feet, shimming the entire length of the support feet. Secure the shims using construction adhesive, silicone, mortar or equivalent materials. While not a necessity, the use of a foundation base consisting of cement, mortar, or grout will help provide a solid and secure installation.

⚠ The rim of the bath **must not** support weight. If foundation base is used, allow the bedding material to completely harden before applying weight to the rim or bottom of the bath. Any finish material such as tile or wall board must be self-supporting if it contacts the deck of the bath.

TYPICAL FLANGE MOUNTING DETAIL



WHIRLPOOL ELECTRICAL INSTALLATION INSTRUCTIONS

All wiring must be performed by a licensed electrician in accordance with the national electrical code and all other applicable codes.

⚠ WARNING: When using electrical products, basic precautions should always be observed, including the following:

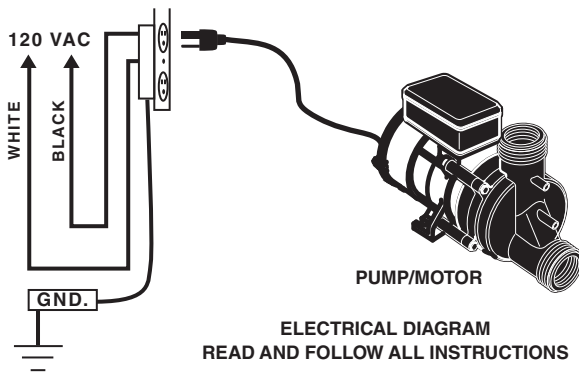
- 3a. DANGER: RISK OF ELECTRIC SHOCK!** Connect only to a circuit protected by a ground-fault circuit interrupter.
- 3b.** Grounding is required. The unit should be installed by a licensed electrician and grounded.
- 3c.** Permit access for servicing motor as noted.
- 3d.** All building materials and wiring should be routed away from the pump body and heater (if equipped).

GFCI CIRCUIT REQUIREMENTS:

The whirlpool should be installed on a 120 vac, 15 amp dedicated GFCI circuit.

The circuit should be hard-wired from the electrical power supply panel. The circuit must be a three (3) wire circuit from the electrical supply panel. A grounded neutral wire and a third wire, earth ground, are essential.

Optional heater requires a separate 15 amp maximum GFCI circuit.

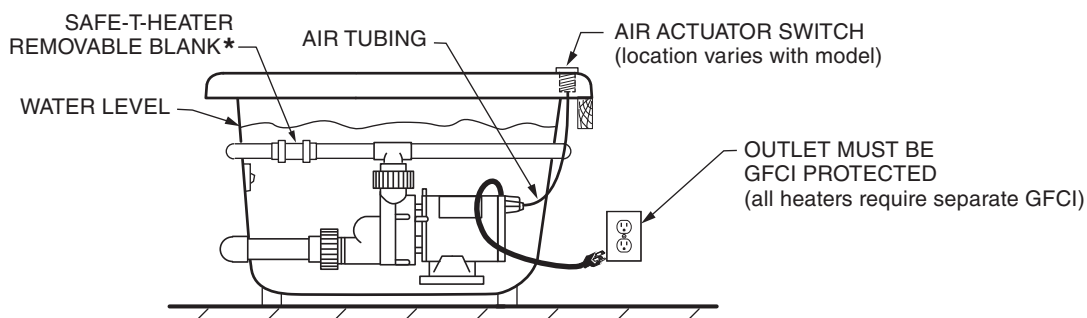


WIRE SELECTION GUIDE

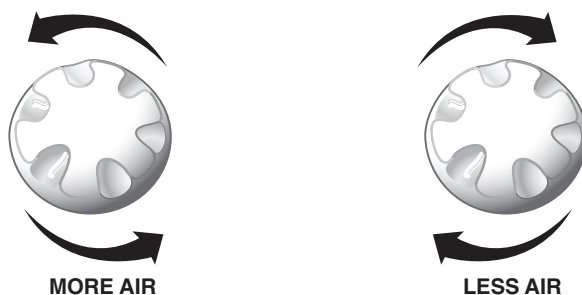
Wire Length	Maximum distance from fuse box to motor			
	50'	100'	150'	200'
115V Power Line				
Wire Size (AWG)	12	10	8	8

The sizes shown on this chart are recommendations for copper conductors only. Always follow local and national electrical codes.

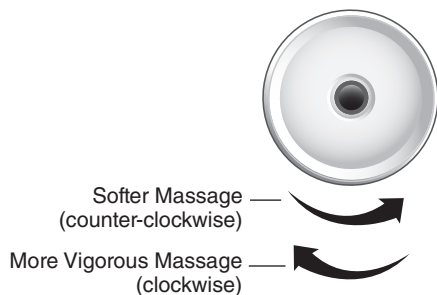
FUNCIONAMIENTO



Air Volume Control Adjustments



Adjustable Flow



NOTE: Each whirlpool is shipped from the factory with an air actuator on/off switch and pump with attached power supply cord. **OPERATING THE SYSTEM WITHOUT WATER (DRY RUNNING) WILL CAUSE PUMP DAMAGE AND VOID THE WARRANTY.** Always fill the whirlpool before operating the pump. The air switch is mounted either on the deck or side wall of the tub.

4a. Fill the Whirlpool: Water level must be at least one inch (25mm) above the highest jet for proper operation. (See diagram above)

Do not fill whirlpool more than 2/3 full prior to the user completely immersing themselves into unit.

4b. Start Whirlpool: Push on center of button. Button will depress and whirlpool will start.

4c. Stop Whirlpool: Depress and release button and whirlpool will stop.

4d. Air Volume Control Adjustments: Water turbulence is determined by the amount of air mixed with the water. Rotate the air volume control counterclockwise for more turbulence--clockwise for less.

4e. Adjustable Flow: The water flow action may be adjusted from vigorous to soft by rotating the nozzle counterclockwise for vigorous and clockwise for soft.

NOTE: You may balance the air volume control and nozzle adjustment for the most desirable condition.

DRAIN CONNECTION AND SYSTEM TEST

Using recommended drain assembly, connect whirlpool drain to waste line in accordance with the drain assembly instructions. Tighten all drain joints securely. Check the pump couplings and make sure they are hand-tight. Clean the whirlpool and fill with water to a point 2" above the top of the highest jet. Recheck the pump couplings and make certain that they are not leaking. (Although the pump couplings are factory tightened and inspected, some loosening may have occurred during transit.) Make sure the whirlpool is connected to the electrical supply and turn the whirlpool on. Check for leaks around all piping connections while the whirlpool is running.

POST INSTALLATION CLEAN-UP

Remove all construction debris from bath. Tile grout can be removed with a wooden popsicle stick or tongue depressor. Do not use wire brushes or any other metal implement on bath surface. Post installation clean-up generally can be completed using warm water and liquid dishwashing detergent. Stubborn dirt or stains may be removed using granular Spic and Span® mixed with water. Painter's naphtha can be used to remove excess adhesives and/or wet oil-base paint.

AFTERCARE AND CLEANING

The high gloss surface is resistant to impact and chemicals and will retain its lasting luster with proper care and maintenance.

Always fill the tub with temperate water. Excessively hot water may cause surface damage.

Clean after use with a mild liquid household detergent cleaner. Do not use Lestoil®, Lysol® Disinfectant (spray or concentrate), or Lysol Basin, Tub and Tile Cleaner, Windex, Mr. Clean®, Dow® Disinfectant Bathroom Cleaner, or cleaning products in aerosol cans. For occasional, more concentrated cleaning efforts Lysol Non-Abrasive Bathroom Cleaner works extremely well.

HARSH CHEMICALS SHOULD NEVER BE USED ON ACRYLIC SURFACES.

Do not use wire brushes, knives or sharp objects to remove stains, cigarette tar deposits, or other surface blemishes.

Abrasive cleaners or powders must not be used, since they will dull the surface. If the glossy surface loses its sheen, dulled areas can be restored by rubbing with a white "automotive type" polishing compound and waxing with a "liquid wax."

Do not wax areas where you walk or stand.

Do not allow nail polish remover, acetone, dry cleaning fluid, paint remover or other solvents to come into contact with the surface.

Clean the surrounding surface immediately after using caustic drain cleaners.

Burning cigarettes will damage the surface.

Should damage to the fixture occur, repairs can be made quickly and easily. Your distributor or builder can provide details.

Do not permit drain cleaner to enter the circulation system.

CIRCULATION SYSTEM CLEANING-PURGING PROCEDURES

STEP 1. Once every month purge and clean the circulating system. Fill whirlpool with warm water and add two teaspoons of dishwasher detergent and one-half cup of house hold bleach.

STEP 2. Activate whirlpool system in accordance with operating instructions or two minutes.

STEP 3. Drain and refill whirlpool with cool water and circulate for additional five minutes.

STEP 4. Drain whirlpool completely.

WARRANTY

ACRYLIC WHIRLPOOLS LIMITED LIFETIME WARRANTY

AS America ("American Standard") warrants to the original consumer purchaser that it will, at its option, repair or replace this whirlpool or any of its parts that are found by American Standard, in its sole judgment, to be defective under normal residential use and maintenance so long as it is owned by the original consumer purchaser.

This warranty shall only become effective upon receipt by American Standard of a completely filled out Warranty Registration Card evidencing proof of purchase.

THIS WARRANTY SHALL BE VOID IF THE ACCESS PANEL TO THE WHIRLPOOL IS COVERED IN ANY MANNER CONTRARY TO THE INSTALLATION INSTRUCTIONS. In no event will American Standard be liable for the cost of repair or replacement of any installation materials including but not limited to tiles, marble etc.

This limited warranty DOES NOT COVER the following:

1. Defects or damages arising from shipping, installation, alterations, accidents, abuse, misuse, lack of proper maintenance and cleaning as directed in the owner's manual and use of other than genuine American Standard replacement parts, in all cases whether caused by a plumbing contractor, service company, the owner or any other person.
2. Deterioration through normal wear and tear and the expense of normal maintenance.
3. Commercial application.
4. Options and accessories. American Standard's limited warranty on these items is one year for parts only and excludes labor. This one year limited warranty covers accessories manufactured by American Standard (e.g. aprons, drains, grab bars, heaters, trim kits) against defects of material or workmanship. Warranty coverage begins on the date the accessory was originally purchased by the owner.
5. Postage or shipping costs for returning products for repairs or replacement under this limited warranty and labor or other costs incurred in connection with product removal or installation under this limited warranty.
6. ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, ALL OF WHICH ARE HEREBY EXPRESSLY DISCLAIMED. Some States do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR PURPOSE INTENDED, ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. Some States do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you.
7. Responsibility for compliance with local code requirements ARE EXCLUDED FROM THIS WARRANTY. (Since local code requirements vary greatly distributors, retailers, dealers, installation contractors and users of plumbing products should determine whether there are any code restrictions on the installation or use of a specific product.) This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

WHIRLPOOL HEATER ONE YEAR LIMITED WARRANTY

If inspection of this AS American, Inc. ("American Standard") plumbing product, within one year after its initial purchase, confirms that it is defective in materials or workmanship, American Standard will repair or, at its option, exchange the product for a similar model.

This warranty applies only to the original purchaser and installation of these products.

This limited warranty does not apply to local building code compliance. Since local building codes vary considerably, the purchaser of this product should check with a local building or plumbing contractor to insure local code compliance before installation.

This warranty shall be void if the product has been moved from its initial place of installation; if it has been subjected to faulty maintenance, abuse, misuse, accident or other damages; if it was not installed in accordance with American Standard's instructions; or if it has been modified in a manner inconsistent with the product as shipped by American Standard.

American Standard's option to repair or exchange the product under this warranty does not cover any labor or other costs of removal or installation, nor shall American Standard be responsible for any other incidental or consequential damages attributable to a product defect or to the repair or exchange of a defective product, all of which are expressly excluded from this warranty. (Some states or provinces do not allow the exclusion or limitation of implied warranties, so this exclusion may not apply to you.)

This warranty gives you specific legal rights. You may have other statutory rights that vary from state to state or from province to province, in which case this warranty does not affect such statutory rights.

OBTAINING WARRANTY SERVICE If you believe that you have a warranty claim, contact American Standard, either through an authorized AS America, Inc. dealer or re-seller, by writing to the addresses below, or visiting the website below:

UNITED STATES

American Standard Brands
30 Knightsbridge Road, Suite 301
Piscataway, New Jersey 08854
Attention: Director of Customer Care
For residents of the United States,
warranty information may also be obtained
by calling the following toll free number:
(800) 442-1902
www.americanstandard.com

CANADA

LIXIL Canada, Inc.
5900 Avebury Rd.
Mississauga, Ontario
Canada L5R 3M3
Toll Free: (800) 387-0369
www.americanstandard.ca

MEXICO

American Standard B&K Mexico
S. de R.L. de C.V.
Via Morelos #330
Col. Santa Clara
Ecatepec 55540 Edo. Mexico
Toll Free: 01-800-839-1200
www.americanstandard.com.mx

PLEASE COMPLETE AMERICAN STANDARD WARRANTY REGISTRATION PROCESS AND SAVE THIS WARRANTY INFORMATION IMPORTANT:

Registration of the shower doors must be completed for this warranty to become effective. Your registration will make it easier to contact you in the event of a product recall.*

INSTRUCTIONS: Register your shower doors at www.americanstandard.com. Please save your proof of purchase (sale receipt). If you need assistance or do not have access to our website, please contact American Standard Customer Care at: (800) 442-1902. An American Standard representative will assist in completing the warranty registration.

*In California, your warranty rights remain intact even if you do not complete the registration process.

THIS WARRANTY IS NOT TRANSFERABLE FROM ORIGINAL CONSUMER PURCHASER.

American Standard

TELL US WHAT YOU THINK!



Please leave us a product review or story at **americanstandard.com/reviews**



Great Tub

03/13/2018 06:52:29 CDT American Standard Bathtubs Saver 60 Inch by 34 Inch Integral Apron Bathtub, Left Hand Drain

Love the tub. It is very roomy and would definitely buy it again. Our old tub cracked so we got this one to replace it. This one feels like it is more durable and not as flimsy as the last one.

Register your warranty and sign up for an idea-filled newsletter at **americanstandard.com/warranty**.

Find installation videos at **youtube.com/americanstandard**.

≡ WANT MORE INFO?

For questions or help call us at **800-442-1902**,
or visit **americanstandard.com**