

LAUREL MOUNTAIN WHIRLPOOLS

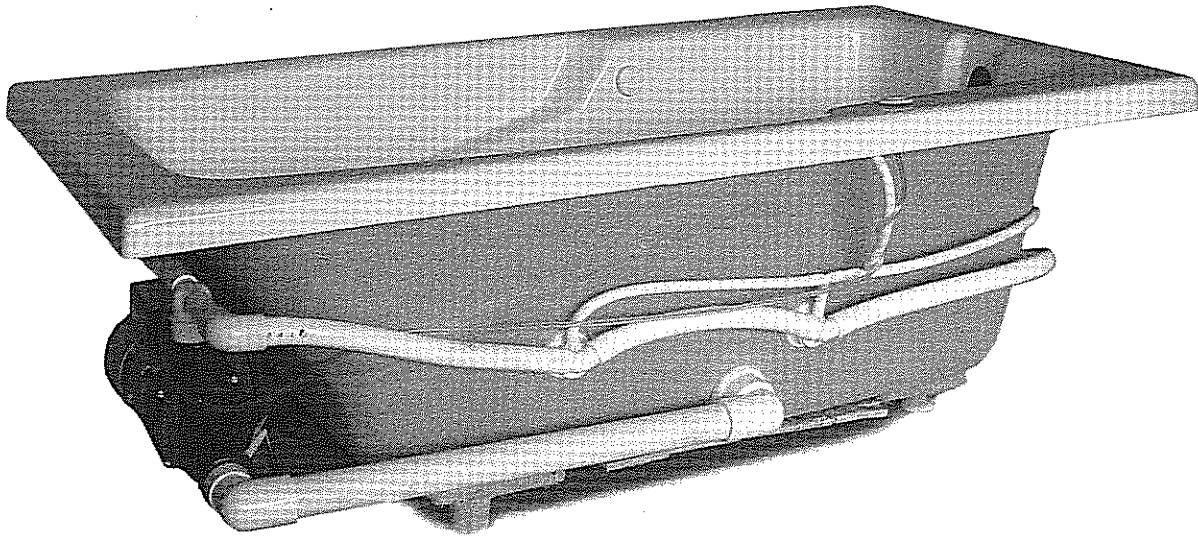
ACRYLIC WHIRLPOOL BATH

OWNER'S MANUAL

INSTALLATION

OPERATION

MAINTENANCE



IMPORTANT WARNING:
READ THIS MANUAL CAREFULLY
PRIOR TO INSTALLATION

THIS UNIT HAS BEEN THOROUGHLY INSPECTED AND WATER TESTED FOR LEAKS IN OUR PLANT PRIOR TO PACKING. BECAUSE OF POSSIBLE ON-THE-JOB CONDITIONS, DO NOT INSTALL UNTIL MAKING A FINAL WATER TEST.

 **UL** US
LISTED
#E157308

FEATURES AND OPTIONS

4: AIR VOLUME CONTROL
(2 PROVIDED)

5: PUMP JETS

3: OFF/ON
AIR SWITCH

2: OPTIONAL
INLINE HEATER
(WITH MOLDED PLUG)

1: WATER PUMP
(WITH MOLDED PLUG)

6: PUMP SUCTION
FITTING (1 PROVIDED)

DIAGRAM A

NOTE:
ALL ITEMS ARE FACTORY
INSTALLED COMPONENTS

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Bath Shells are fabricated from cast, high quality, gleaming sheets of durable acrylic. The non-porous surface is impervious to stains, grease or grime associated with surface finishes of conventional porcelain and/or gelcoat fiberglass. Properly installed and with the care suggested on the following pages, your LAUREL MOUNTAIN WHIRLPOOL BATH will retain its original high luster and offer you trouble-free operation for a lifetime.

WARNING: BUILDING MATERIALS AND WIRING SHOULD BE ROUTED AWAY FROM THE PUMP BODY OR OTHER HEAT-PRODUCING COMPONENTS OF THIS UNIT.

INSTALLATION INSTRUCTIONS

WARNING: WHEN USING ELECTRICAL PRODUCTS, BASIC PRECAUTIONS SHOULD ALWAYS BE FOLLOWED.

GROUNDING IS REQUIRED: The unit must be installed by a Qualified Service Representative and Grounded.

Followed carefully, the following points will result in an easy, trouble-free installation of your new Laurel Mountain Whirlpool, Inc. bath. Any deviations, additions and/or deletions from the prescribed installation of the whirlpool system, pump or bath without prior written approval of our Customer Service Department will void the warranty covering this product.

SPECIFICATIONS

- Your unit will arrive as ordered--as specified by Laurel Mountain Whirlpool, Inc., in all of its literature and as described by its Sales Representatives and Distributors.
- Construction materials shall be as presented; i.e., of cast acrylic shells reinforced with a mixture of processed chopped glass in a polyester resin applied to the underside of the shells. Rigidity factor is reached by shape and thickness of this material.
- Floors of bathtubs are reinforced in the factory by installing a wood sub floor and rigid support legs. Legs are designed to give uniform support to the tub floor.
- Baths meet or exceed load-bearing and impact resistance requirements of the listed standards without evidence of crazing or cracking and with minimal deflection when installed in accordance with Laurel Mountain Whirlpool, Inc. printed instructions.
- Whirlpool equipment shall be completely 100% factory installed with a pump/motor assembly--vinyl tubing--air controls, venturi-type jets and approved suction fittings, and any options ordered.
- Each Laurel Mountain Whirlpool, Inc. unit bears our company logo, a registered serial number or the Standard Building Code as well as a certification of a recognized National Testing Laboratory which has found our products to have complied with requirements set forth by the American National Standards Institute and Underwriters Laboratory.

LABELS AND PLACARDS

WARNING: LABELS AND PLACARDS ARE PROVIDED AS A REMINDER OF SOME IMPORTANT FEATURES, "DO'S" AND "DON'TS" OF OPERATION AND SERVICING. LABELS AND PLACARDS MUST NEVER BE REMOVED FROM THE UNDERSIDE OF TUB.

BEFORE INSTALLATION . . . Inspect your Laurel Mountain Whirlpool, Inc. Bath thoroughly upon receiving it. Check it immediately for a possibility of freight damage. In the event damage has occurred, make a notation on the carrier's bill of lading.

DO NOT remove the bath from its shipping container until you are ready to pre-test and install. When opened, cut some of the shipping cardboard to fit in the bottom of the tub to help protect the floor surface. **DO NOT LIFT** the tub out of the box by its plumbing.

- One of the many phases of quality assurance at our plant, prior to shipping, is an exhaustive water test to ensure water-tight operation. Enroute, rough freight handling could conceivably have loosened a connection. Place the tub in an area where it may be drained after testing it. Fill it and operate with water to the overflow and then allow to sit for fifteen minutes. Inspect all fittings, apertures and connections for the possibility of leaks.
- Examine the bathtub thoroughly. Any defect must be discovered and reported **AT THIS TIME** in order to qualify for our warranty coverage.
- All connections, electrical and plumbing **MUST** be made by qualified electricians and plumbers. They can assure you that the installation will conform to all applicable local codes as well as securing necessary permits for the installation.
- Please regard all warning labels attached to the bath. **DO NOT LIFT** by any portion of the plumbing--or stand in the unit during installation--serious damage may occur to the unit.

FRAMING-IN INSTRUCTIONS

The dimensions in our literature may vary slightly in the actual product measurement. Therefore, installation measurements should be made directly from your bathtub.

IMPORTANT: The entire weight of the tub cannot be supported by the rim. The tub must be supported by the base and sub-floor.

IMPORTANT: For best installation results, it is suggested to install the unit using a mortar bed or equivalent material.

When you install the drain fitting, you will find it protrudes below the bottom of the tub. Allow clearance in the sub-floor for this dimension.

Place the unit in its desired location, check the tub and sub-floor for level, if not level, place wood shims between sub-floor and support legs to bring to a level position. Mark stud wall underneath the tub's return lip. Remove unit from position and install a 1x stop to stud wall for lip to rest on to prevent deflection.

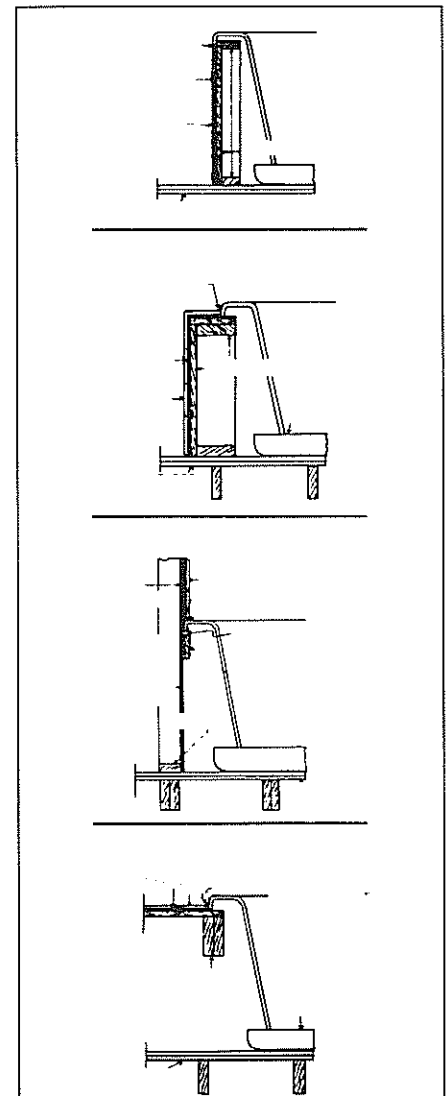
Check your unit at this time to see if any wiring should be completed prior to further installation. (See wiring instructions.) If the floor

is out of level, the tub support legs will have to be shimmed. We suggest setting the tub into a bed of concrete.

If all is level, reposition the unit in the desired location.

Since a great variety of installations are possible with this Whirlpool Bath, special framing procedures may have to be employed. A ledge under the rim, or an apron without a ledge, may be constructed as required. Where installation is planned against a wall, install the tub against the studs as indicated, adding blocking below the rim to prevent deflection or movement of the tub, but insuring that the tub is not supported in any way by the blocking.

The opening should be 1" smaller than the specified rim dimensions when placing the unit in a platform floor or cut out installation.



A 1" integral up-flange is available on certain models. These units should be placed in a pre-measured studded pocket. Pre-drill holes through flange to align with studs. Use screws to secure to studs. NOTE: Do not attempt to nail directly through flange. Always pre-drill holes.

In each installation, an access panel must be provided near the final pump location for servicing the pump and power panel. This access may be through the wall or platform apron. In the case of a sunken installation, access may be through the ceiling below the bathtub.

OPTIONAL: POP-OUT SKIRT INSTALLATION

NOTE: The skirt is to be installed immediately after the plumbing and electrical work have been completed. Do not wait until the drywall has been completed, as the skirt is the same length as the tub.

1. Remove pop-out panel from skirt frame. Do not use metal objects to pry off the panel. (See diagram.)
2. Place skirt frame under tub rim into correct placement.
3. Mark top and bottom inside of skirt frame at center.
4. Remove skirt frame.
5. Place 1x or 2x vertical support at center of tub, just touching inside marks from skirt frame.
6. Place skirt frame back under tub.
7. Anchor ends of skirt frame to studs through corner bead and anchor bottom of skirt frame to the sub floor.
8. Place pop-out panel on skirt frame.
9. Finish drywall--flooring.

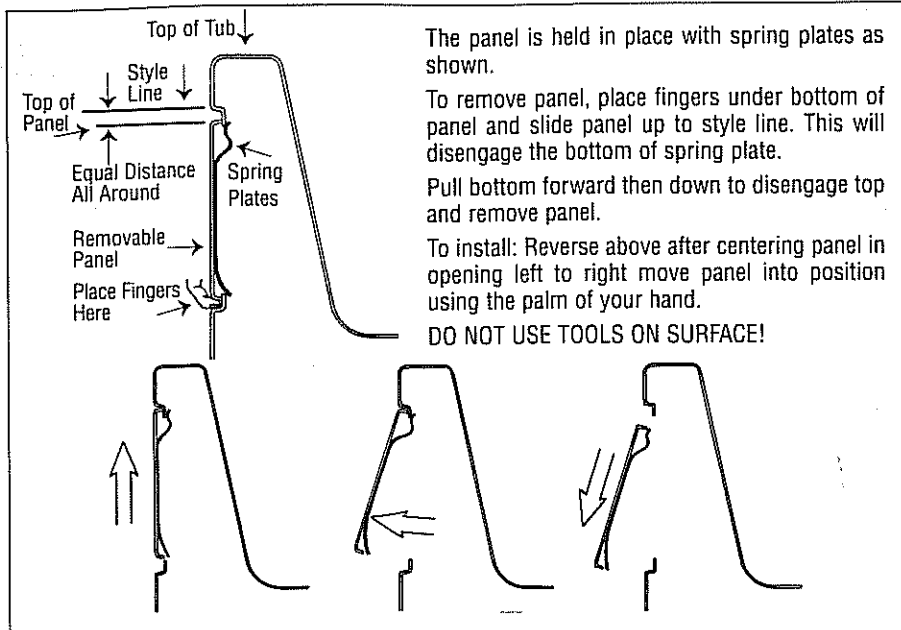
WIRING INSTRUCTIONS

Rough in the wiring on a single 120VAC, 20 AMP, GFCI protected dedicated circuit for each accessory installed on the tub.

WARNING: ALL ELECTRICAL CONNECTIONS MUST BE MADE BY A LICENSED CERTIFIED ELECTRICIAN IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE STATE AND LOCAL CODES AND PROCEDURES.

DANGER: ALL CIRCUITS CONNECTED TO THIS UNIT MUST BE EQUIPPED WITH GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION. IT IS THE TUB INSTALLER'S RESPONSIBILITY TO WIRE THE CIRCUIT WITH (GFCI) PROTECTION.

All Whirlpool Systems and Inline Heaters are equipped with a molded plug on the end of a power supply cord.



Install a separate, dedicated 120VAC, 20 AMP GFCI protected electrical wall plug outlet inside the access panel for each accessory equipped on the tub.

EXAMPLE: If the tub is equipped with a whirlpool system only, then one GFCI wall plug outlet is necessary. If the tub is equipped with both whirlpool system and an inline heater then two separate circuits with GFCI wall plug outlets are required.

NOTE: Count the number of accessories before installing the GFCI wall outlets.

NOTE: The power supply cords equipped with on each accessory are only 2½ ft. long so locate the GFCI wall outlet within 1½ ft. of the intended accessory.

DANGER: DO NOT splice a longer cord to the power supply cord and DO NOT connect to an extension cord.

The connection for each accessory is completed simply by inserting the molded plug into the intended GFCI wall outlet.

IMPORTANT WARNING:

ALL POWER SUPPLIES MUST BE DISCONNECTED BEFORE SERVICING.

OPTIONAL: INLINE HEATER WIRING (See Diagram A-2)

IMPORTANT: Electric inline heaters are controlled by a "pressure switch," which is pre-plumbed into the heater. This switch allows the heater to operate only when there is sufficient water flowing through the system. DO NOT BYPASS THE SWITCH. This option is equipped with a molded plug on the end of a power supply cord. Check your local codes, simply install a 120VAC, 20AMP GFCI protected dedicated circuit wall outlet to within 1 ½ feet from the heater unit. Plug the cord into

the outlet.

This option is designed to MAINTAIN temperature, but, will increase the temperature of the water in the system to the factory preset high limit switch of 104 degrees F over an extended period of time. The high limit cannot be increased adjusting the heater thermostat. The heater is operated by a pressure switch. Every time the bath is turned on the heater will automatically turn on to MAINTAIN water temperature. The heater tube will not feel hot until temperature of water is hot, as the flow of cooler water will keep the jacket cool.

WARNING: ALL BATHTUBS EQUIPPED WITH AN INLINE HEATER REQUIRES TWO DEDICATED CIRCUITS. ONE FOR THE WHIRLPOOL SYSTEM AND ONE FOR OPTIONAL INLINE HEATER.

PLUMBING INSTALLATION

Install fill valves and spout in the desired locations. Be sure that the spout is long enough to clear the interior rim of tub. If installing filler valves on deck of tub, be sure that you have enough clearance for connections of valve to tub and water connections before drilling or cutting into tub.

NOTE: Seal the joints under the tub rim and against the wall with a water resistant seal.
NOTE: Install a standard 1½ in. trap to drain and overflow.

Before proceeding, make a final operational check by filling the tub with water to the overflow and operate for approximately 5 minutes. Leave the water in the bath for 30 minutes, check the connections for leaks during and after operation.

NOTE: Complete the installation with a desired trim material on the back wall, side walls, and down exposed interior walls.

OWNER'S INSTRUCTIONS

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS

OPERATING INSTRUCTIONS

LAUREL MOUNTAIN WHIRLPOOL, INC. WILL NOT BE HELD RESPONSIBLE FOR WATER DAMAGE OF ANY KIND IN CONNECTION WITH THE INSTALLATION AND/OR OPERATION OF ONE OF OUR WHIRLPOOL BATHS.

WARNING: PROLONGED PERIODS IN HOT WATER MAY INDUCE HYPOTHERMIA.

Of the description of the causes, symptoms, and effects of hypothermia as follows: Hypothermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6degrees F. The symptoms of hypothermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hypothermia include:

- Failure to perceive heat,
- Failure to recognize the need to exit the spa or tub,
- Unawareness of impending hazard,
- Fetal damage in pregnant women,
- Physical inability to exit the spa or tub, and
- Unconsciousness resulting in the danger of drowning.

WARNING: THE FOLLOWING ARE BASIC INSTRUCTIONS FOR THE SAFE USE OF YOUR WHIRLPOOL BATH. READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY.

WARNING: ALL JETS MUST BE COMPLETELY SUBMERGED BELOW WATER BEFORE STARTING THE PUMP.

WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hypothermia.

- DANGER . . . Children should be supervised by an adult at all times when they are in or around this unit.
- Use this unit for its intended use ONLY as described in this manual. The manufacturer does not recommend using any attachments not specifically approved in this manual.
- DO NOT insert any objects into any of the openings.

- THIS UNIT MUST NOT BE OPERATED WITHOUT THE GUARD OVER THE SUCTION FITTING.

- Never use options not installed by manufacturer.

- The installer MUST supply a Ground Fault Circuit Interrupter (GFCI) when making the installation. This offers necessary protection to your unit and should be tested periodically. To test, simply push the TEST BUTTON. Power should be interrupted. Push the RESET BUTTON. Power should be restored. If not, DO NOT USE THE UNIT as this indicates that there is a ground current flowing and that a possibility of ELECTRIC SHOCK exists. DISCONNECT the unit at once and call in a qualifying electrician before further operation.

CLEANING INSTRUCTIONS

Before using the whirlpool bath, the system should be thoroughly cleaned and disinfected. DO NOT USE ABRASIVE CLEANERS ON THIS HIGH-GLOSS ACRYLIC FINISH. Use a non-abrasive cleaner and rinse THOROUGHLY after cleaning.

- Fingernail polish remover can be used to remove labels from surface of tub.
- Close the air controls to prevent excessive foaming. To close air controls turn knobs clockwise.
- Fill the tub to 2" above the highest jet with water.
- Add 2 teaspoons of low sudsing automatic dishwashing detergent along with no more than 4 ounces of a household bleach to the water.
- Operate for 5 to 10 minutes.
- Drain the tub--fill it with water--operate for 5 minutes, then drain.
- When using your whirlpool, fill it the way you would any conventional bathtub, but use moderation in experimenting with small amounts of shampoo or soap products. **Avoid excessive foaming.** We do not recommend the use of bath oils or bubble baths in this product. DO NOT START THE WHIRLPOOL PUMP UNTIL THE TUB IS FILLED WITH WATER.

1. Fill the tub with the desired temperature water to approximately 2" above the highest jet.
2. Turn on the whirlpool pump. This will start the whirlpool action.
3. Turn off the pump to stop the whirlpool action.
4. Drain and rinse the tub after use.

AIR VOLUME CONTROLS

(See Diagram A-4)

These two knobs are to control the amount of air induced into the jet stream of water. Turn them clockwise to stop air; counterclockwise to increase air induction. (Note: Addition of air does not slow the volume or decrease the pressure of water; however, a softening effect of water is felt.)

STANDARD AIR SWITCH PUMP

(See Diagram A-3)

Simply push the button located on the deck of the tub.

WARNING: DO NOT OPERATE THE PUMP WITHOUT WATER AS DAMAGE MAY OCCUR!!

CARE AND CLEANING

Your whirlpool bath has an acrylic finish and will retain its high luster for years with proper care. Never use an abrasive cleaner or pad to clean your whirlpool. Always use a soft cloth or sponge along with a spray liquid non-abrasive bath cleaner/disinfectant. On the metal trim, use only a soft cloth and warm soapy water. Rinse and dry as with any highly polished metal fixture.

CODE LISTINGS HAVE BEEN OBTAINED AS FOLLOWING:

Products are tested and listed by many code authorities including UNDERWRITERS LABORATORIES FILE #E157308, NAHB, and IAPMO. Products meet or exceed all known code authorities.

**LAUREL MOUNTAIN
WHIRLPOOL, INC.
LIMITED WARRANTY**

This Laurel Mountain Whirlpool, Inc. bath is warranted to the original consumer purchaser to be free from defects in material and workmanship for the following period:

The bathtub is warranted for a period of five(5) years.

The plumbing system (including pump) is warranted for a period of three(3) years.

This warranty is made to the original consumer purchaser and shall be effective from the date of purchase as shown on purchaser's receipt.

Laurel Mountain Whirlpool, Inc. will repair or replace (at its option) any unit which proves to be defective in material or workmanship under normal use and service, having been properly installed. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY MADE BY LAUREL MOUNTAIN WHIRLPOOL, INC. AND IS LIMITED TO THE DURATION OF THIS WARRANTY. LABOR CHARGES AND/OR DAMAGE INCURRED IN INSTALLATION, REPAIR OR REPLACEMENT AS WELL AS INCIDENTAL AND CONSEQUENTIAL DAMAGES CONNECTED THEREWITH ARE EXCLUDED AND WILL NOT BE PAID BY LAUREL MOUNTAIN WHIRLPOOL, INC.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty is void for any damage to the whirlpool bath due to abuse, misuse, neglect, accident, improper installation, any use violative of instructions furnished by us, or modification or repair not authorized in writing by Laurel Mountain Whirlpool, Inc.

TROUBLE SHOOTING—PROBLEM, CAUSE, SOLUTION CHART

PROBLEM	CAUSE	SOLUTION
AIR SWITCH BUTTON Won't depress/sticks	<ul style="list-style-type: none"> • Debris in body of button. 	Remove trim ring and plunger. Clean interior, lubricate with small amount Of vasoline or marine grease.
Pump Altering of pump location VOIDS warranty	<ul style="list-style-type: none"> • Won't start. • Motor hums. • Not priming. 	<p>Check to see if on/off switch or pneumatic switch is ON. Check circuit breaker. Check wiring. Check to see if both ends of Plastic air switch tube are Connected.</p> <p>Check for binding of motor shaft or obstruction in pump. Manually rotate motor shaft to see that shaft turns freely.</p> <p>Check to see if highest jet is clogged. Check to see that water is at a high enough level for pump to prime. Check for air leak in suction line - slightly loosen pump union and then retighten by hand. Check for obstruction in piping system.</p>
Leaks	<ul style="list-style-type: none"> • Pump o-Ring or seal. • Pump Unions. • Pipe to Jet. 	<p>Call dealer.</p> <p>Loosen pump unions and inspect O-ring for proper sealing. Retighten.</p> <p>Call dealer for repair.</p>