



Maestro™ Bath Whirlpools: K-842-H K-845-H

INSTALLATION INSTRUCTIONS



IMPORTANT SAFETY INSTRUCTIONS

ATTENTION INSTALLER: INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

READ AND FOLLOW ALL INSTRUCTIONS

SAVE THESE INSTRUCTIONS



WARNING: When using this unit, always follow basic precautions, including the following:



WARNING: RISK OF ELECTRICAL SHOCK.

The unit must be connected only to a circuit that is 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, press the test button. The GFCI should interrupt power. Press the reset button. Power should be restored. If the GFCI fails to operate in this manner, there is a ground current flowing or the GFCI is defective. **The possibility of an electric shock may exist. DO NOT use this unit.** Disconnect the unit and have the problem corrected by a qualified licensed electrician.

Grounding is required. The unit should be installed and grounded by a qualified service representative.

A pressure wire connector is provided on the pump to permit connection of a 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.



DANGER: RISK OF INJURY.

Hot whirlpool baths can put certain stresses on the body, as do any hot bath, shower, sauna, or steam bath. **Prolonged immersions in hot water may induce hyperthermia.** Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6° F. The symptoms of hyperthermia include an increase in the internal body temperature, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include: (1) failure to perceive heat, (2) failure to recognize the need to exit the bath, (3) unawareness of impending hazard, (4) fetal damage in pregnant women, (5) physical inability to exit the bath, and (6) unconsciousness resulting in the danger of drowning. **Warning:** The use of alcohol, drugs, or other medication can greatly increase the risk of fatal hyperthermia.

DO NOT operate this unit without the guard on the suction fitting.

Never drop or insert any object into any opening.

Use this unit only for its intended use as denoted in this manual. DO NOT use attachments not recommended by the Kohler Co.

Install to permit access for servicing.



DANGER: RISK OF INJURY. To reduce the risk of injury, do not permit children to use this unit unless they are closely supervised at all times.

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INTRODUCTION

Please read these instructions carefully to familiarize yourself with the required tools, materials, and installation sequences. Follow the sections that pertain to your particular installation. This will help you avoid costly mistakes. In addition to proper installation, read all operating and safety instructions.

The variety of installations possible with this bath may require framing procedures other than those described in this manual.

All information in this manual is based upon the latest product information available at the time of publication. Kohler Co. reserves the right to make changes in product characteristics, packaging, or availability at any time without notice.

Identify and record the model and serial numbers below (found at the pump end of the bath):

Model No. _____ Serial No. _____ Date of Manufacture _____

1. ROUGHING-IN: K-842-H, K-845-H

A. ORDERING INFORMATION

Applicable product:		
With grip rail drillings	K-842-H	shown
Without grip rails	K-845-H	not shown
Accessories/hardware:		
Jet trim kit	K-9695	required
Drain	K-7161-AF	recommended
Adjustable feet	K-1172	optional
Grip rails (K-842 only)	K-9621	required
Vinyl tiling-in bead*	K-1179	optional
*Use K-1179 vinyl bead when wall material contacts any top surface of bath.		

B. REQUIRED ELECTRICAL SERVICE

Dedicated branch circuit required, protected with Class A Ground-Fault Circuit-Interrupter (GFCI):	
Pump/control	120 V, 20 A, 60 Hz

C. PRODUCT INFORMATION

Fixture*:	basin area	top area	weight
Bathing well	47" x 21"	57" x 25"	410 lbs.
	water depth	capacity	
To overflow	13"	55 gal.	
* Approximate measurements for comparison only.			

Pump	HP	V	Hz	A
2-speed	1	120	60	16.5

D. INSTALLATION NOTES

Pump is supplied with a grounding-type plug-in cord. Locate the outlet behind the whirlpool, and within 24" of the pump.

Read the entire installation instruction before beginning the installation.

ROUGHING-IN NOTES

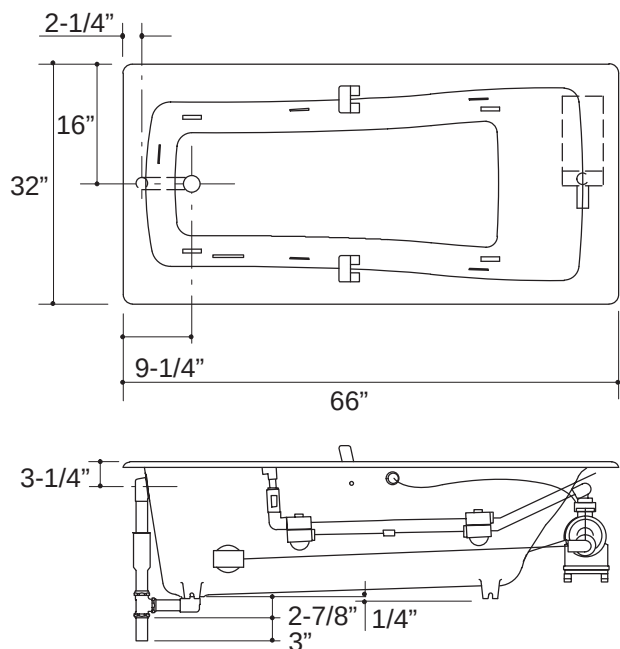
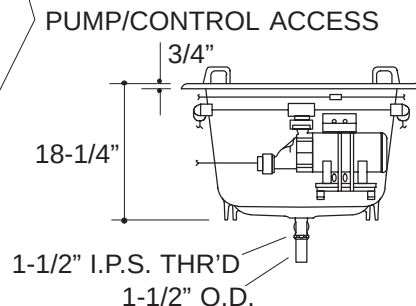
Fixture dimensions are nominal and conform to tolerances in ANSI/ASME Standard A112.19.1.

No change in measurements if connected with drain illustrated.

Cut-out 64-1/2" x 30-1/2"

Minimum access panel:

Pump/control 20" W x 15" H required



1.25>132

2. PRODUCT NOTICES

A. INSTALLER HAZARD NOTIFICATION



DANGER: Risk of fire, electric shock, or injury to persons. Read important safety instructions on inside front cover of these instructions.



WARNING: Risk of electrical shock. A licensed electrician should make all electrical connections.



WARNING: Risk of electrical shock. Connect only to a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI).



WARNING: Risk of electrical shock. Disconnect power before servicing.



WARNING: Risk of injury or property damage. Please read all instructions thoroughly before beginning installation, including the following Product Requirements.

NOTICE: Follow all local plumbing and electrical codes.

B. FACTORY-ASSEMBLED FEATURES

Factory installed components include pump with integral heater, control, and switch. No installation is needed.

The whirlpool pump and piping are factory-assembled.



WARNING: Unauthorized modification may cause unsafe operation and poor performance of the whirlpool. Do not relocate the whirlpool pump, or make other modifications to the whirlpool system, as this could adversely affect the performance and safe operation of the whirlpool. Kohler Co. shall not be liable under its warranty or otherwise for personal injury or damage caused by any such unauthorized modification.

3. PRODUCT REQUIREMENTS

A. SUMMARY OF KEY REQUIREMENTS

- Install unit to a level subfloor.
- Provide properly dimensioned framing.
- The whirlpool can be installed in a corner. Recess or sunken installation is also possible.

B. PLUMBING SPECIFICATIONS

If using a rim-mounted bath faucet, flexible connections between the valves and spout may be required. Confirm adequate mounting and connection space of specified faucet for your installation.

Confirm adequate support for the faucet; large faucets that may be inadvertently used as a means of support are not appropriate or safe for this installation.

C. PRODUCT INSPECTION

Carefully unpack the whirlpool, remove the protective tape, and inspect the unit for damage. Leave all materials in the carton during construction to prevent damage.

NOTICE: Make sure both union connections to the pump are securely tightened.

D. CONNECTIONS AND SERVICE ACCESS

Before installation, ensure proper access to the final connections.

NOTICE: Provide unrestricted service access to the pump. An access panel must be constructed to allow for sufficient clearance for servicing the pump or controls. The access panel must be located at the pump end of the whirlpool.

E. ELECTRICAL REQUIREMENTS

The installation must have a Class A Ground-Fault Circuit-Interrupter (GFCI). The GFCI protects against line-to-ground shock hazard. Use a 120 V, 20 A, 60 Hz dedicated service for the whirlpool.

4. INSTALLATION REQUIREMENTS

A. TOOLS REQUIRED

- Conventional woodworking tools
- Arc pliers or 14" pipe wrench
- Rule
- Level
- Safety shoes
- Safety glasses
- Square
- Screwdriver
- Pliers
- Utility knife
- Tin snips

B. MATERIALS REQUIRED

- Plumbers putty
- Wall coverings, as necessary
- Silicone sealant
- 2x4's
- Drop cloth
- Nails

C. CLEARANCE REQUIREMENTS

Check the roughing-in and room dimensions to provide adequate available space for the bath unit.

D. NEW OR REPLACEMENT INSTALLATION REQUIREMENTS

This unit can be installed in new or existing bathrooms.

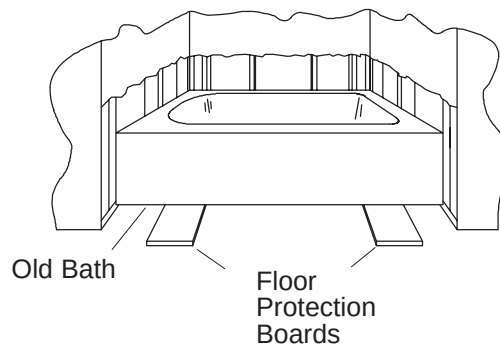
For new installations: Position the plumbing according to the roughing-in on Page 4. Cap the supplies, and check for leaks.

For replacement installations: Remove the old bath. Remove the old wall material, and remove any old floor covering from the area. Remove any old plumbing that does not conform to roughing-in requirements.

5. SITE REQUIREMENTS

A. OLD BATH REMOVAL

Disconnect the drain at the trap. Remove the old wall material. **Slip boards under the old bath feet to protect the floor** and slide the old bath out of the recess as illustrated.



B. SUBFLOOR PREPARATION

Check the flooring under the bath, and make repairs as needed. Make sure the subfloor is level.

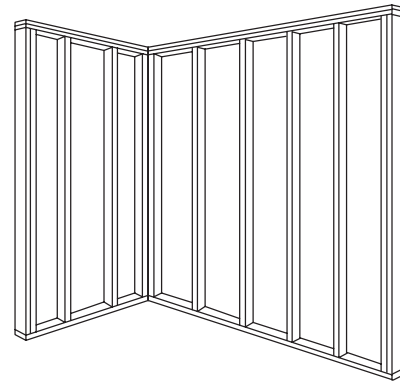
C. STUD POCKET PREPARATION

Construct a minimum 2x4 recess designed for your particular installation. Make sure you allow for access to the pump in the event the unit requires service. When constructing the framing, allow for the thickness of sub and finish wall materials.

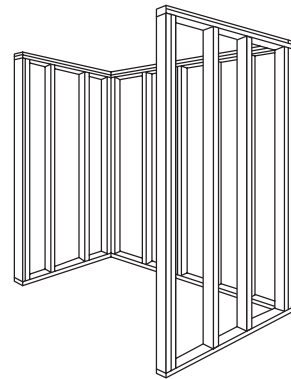
If an apron wall without a ledge is desired, the finished apron wall surface must be 1/16" under the bath rim.

The whirlpool can be installed in a corner. Recess or sunken installations are also possible. Steps 1. through 3. below illustrate suggested stud construction. Modifications may be needed for other types of construction.

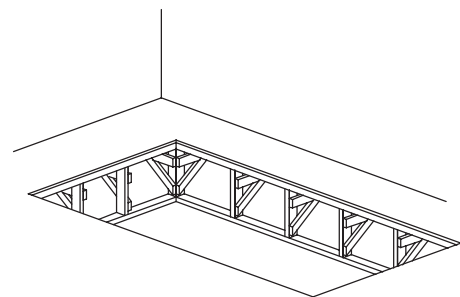
1. **Corner Installation:** The suggested stud construction is illustrated.



2. **Recess Installation:** The suggested stud construction is illustrated.



3. **Sunken Installation:** Refer to Roughing-In notes on Page 4 for cut-out details. Make sure the whirlpool is supported by the supporting feet on the bottom of the whirlpool. **Do not hang the whirlpool by the rim.**



D. PLUMBING PREPARATION

Position the plumbing according to the roughing-in dimensions. Cap the supplies, and check for leaks.

6. BEFORE INSTALLING UNIT

A. TILING-IN BEAD INSTALLATION

An optional tiling-in bead is recommended for the side of the whirlpool that contacts the wall. This bead prevents water from seeping between the whirlpool and the wall. Refer to Ordering Information located in the Roughing-In section on Page 4.

Install this bead now. Refer to the installation instructions packed with the tiling-in bead.

B. PARTIALLY INSTALL BATH DRAIN

Install the whirlpool drain according to the drain manufacturer's instructions. Do not connect the trap at this time.

C. PROTECT WHIRLPOOL UNIT

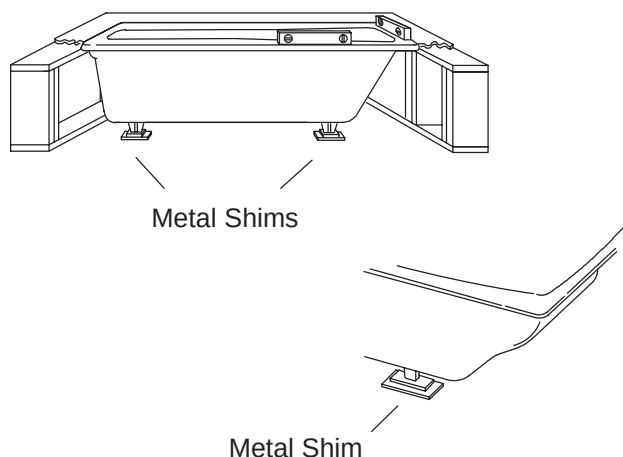
Position a drop cloth or similar material in the bottom of the unit. Be careful not to scratch the surface of the product.

7. INSTALL THE WHIRLPOOL

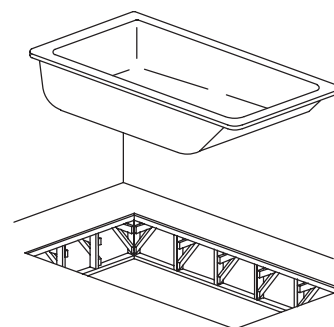
A. WHIRLPOOL SET-IN

CAUTION: Risk of product damage. Do not use the piping or pump for structural support or positioning.

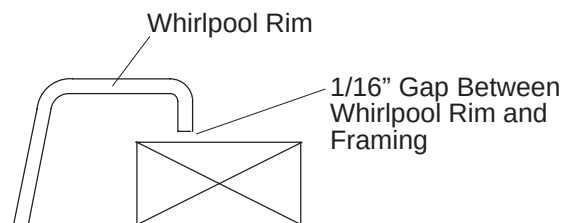
Option For Corner or Recessed Installation: Slide the new whirlpool into position. Insert the drain tailpiece into the trap. Level the whirlpool by placing metal shims under the whirlpool feet, as needed. The whirlpool must be level and resting on all four feet. Check for level along the top and the end of the whirlpool, and across the drain side. The whirlpool may need to be moved in and out of the recess until it is shimmed properly if the feet are not accessible from the back or side.



Option For Sunken Installation: Set the bath into the sunken installation. Make sure the unit is level and resting on all support feet. Insert the drain tailpiece into the trap. Apply a bead of silicone sealant under the rim of the unit.



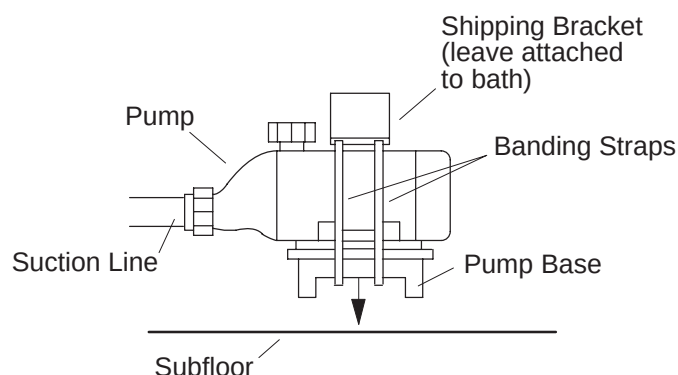
CAUTION: Risk of product damage. Do not hang the unit by the rim.



B. PUMP BANDING STRAP CUT

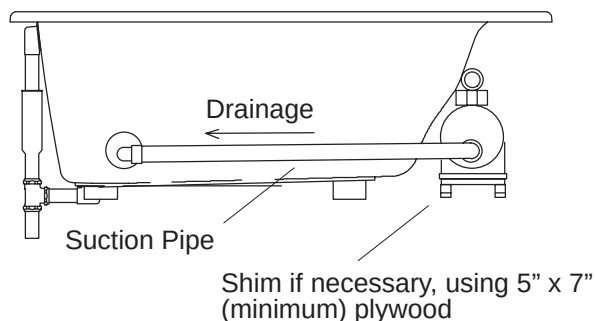
NOTICE: This step is necessary to make your Kohler whirlpool operate more quietly.

1. Use tin snips to cut the two banding straps. These banding straps secure the pump to the whirlpool-mounted shipping bracket. When the banding straps are cut, the pump base and pump will drop about 1/2" until they rest on the subfloor. If the pump drops more than 1/2", be sure the proper pitch is maintained (with shims under the motor) to allow the pump to drain through the suction line when the whirlpool is drained.

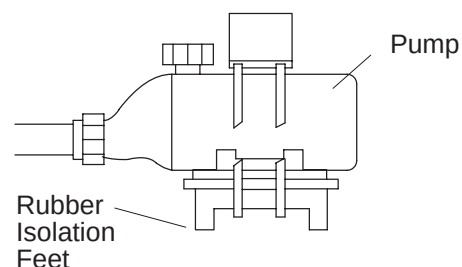


2. If the subfloor is level, no adjustments to the pump are necessary. Proceed to Step 3. If the subfloor is not level, slide plywood shims between the pump base and the subfloor, but only high enough to allow water to drain out the suction line when the bath is drained.

NOTE: Do not raise the pump higher than it was before you cut the banding straps. If the pump is raised too high, it may not prime properly.



3. To minimize bath noise and vibration, be sure the pump is not in direct contact with the shipping bracket after the banding straps are cut. The pump base contains rubber isolation feet to reduce pump noise and vibration.

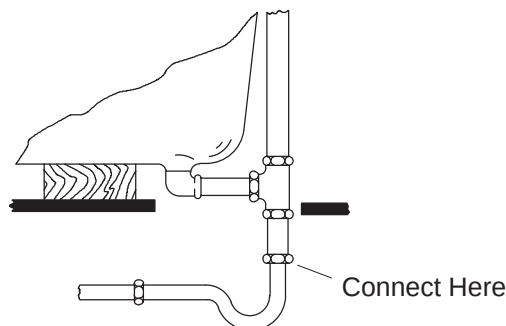


C. INSTALL PLUMBING

CAUTION: Risk of damage to bath bottom and subfloor. Ensure a watertight seal on the bath drain connections.

1. When the bath is securely positioned, connect the drain to the trap.

NOTE: An access panel will simplify future maintenance.



2. Install the faucet valving and spout tee. Open the hot and cold water valves, and check the supply connections for leaks.

3. Run water into the bath, and check the drain connections for leaks.

8. INSTALL GRIP RAILS

Refer to the installation instructions packed with the grip rail kit when installing the grip rails.

9. ELECTRICAL CONNECTIONS

A. IDENTIFY ELECTRICAL REQUIREMENTS

The model number is printed on a label at the pump end of the whirlpool.

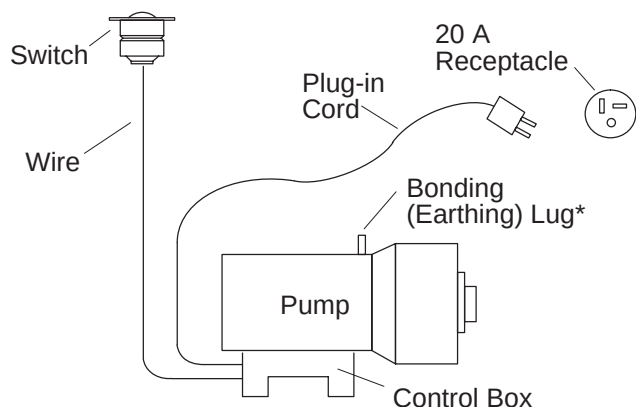
The label identifies electrical rating.

B. WIRING INFORMATION – 120 V, 60 HZ – 2-SPEED PUMP (UL LISTED) MODELS

WARNING: Risk of electrical shock. To reduce the risk of electric shock, connect only to a properly grounded, grounding-type receptacle, protected by a Ground-Fault Circuit-Interrupter (GFCI). Do not remove the plug's grounding pin. Do not use a grounding adapter.

Your Kohler whirlpool bath is equipped with a cord and plug. All wiring of the pump and control has been completed at the factory. A licensed electrician must install a GFCI-protected, 120 V, 20 A, grounded outlet. Your whirlpool may then be plugged into this outlet. No other load should be on this circuit. Locate the outlet behind the whirlpool, and within 24" of the pump.

* For bonding in accordance with national and local codes.



10. WATER TEST WHIRLPOOL AND ELECTRONICS

Check all electrical connections.

Make sure all pipe connections to the pump are securely tightened.

Fill the whirlpool to a level at least 2" above the top of the highest jet.

Operate the whirlpool for 5 minutes, and check all whirlpool harness (piping) connections for leaks.

For additional information on whirlpool operation, see Start-Up Whirlpool instructions on Page 12.

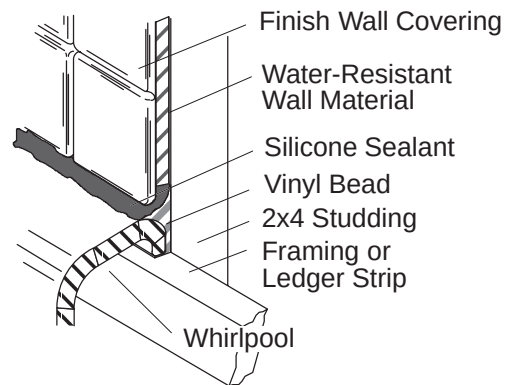
11. COMPLETE FINISH WALL



CAUTION: Risk of product damage. Do not support the weight of the bath by the rim.

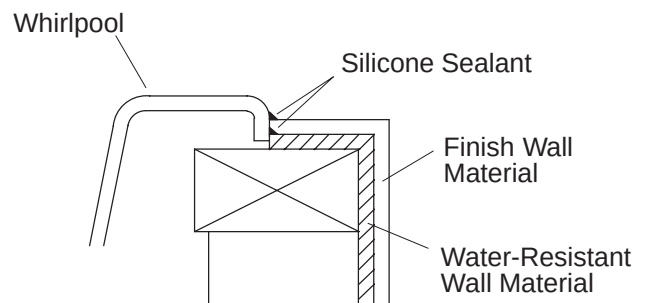
Protect the whirlpool surface. Make sure the vinyl bead is attached securely to the sides being built into the wall. Cover the framing and walls with water-resistant wall material.

Tape and mud the water-resistant wall material. Seal the wall material and joints under the whirlpool rim. Install the finish wall material. Seal the joints between the whirlpool rim and the finish wall using silicone sealant. RTV (Room Temperature Vulcanizing) sealant is recommended.



For installations that do not use a vinyl bead, cover the framing with water-resistant wall material as shown. Seal the joints between the whirlpool rim edge and the wall material with silicone sealant.

Tape and mud the water-resistant wall material. Install the finish wall to the water-resistant wall material as shown. Seal the joints between the whirlpool rim and the finish wall material with silicone sealant.



12. COMPLETE INSTALLATION

A. INSTALL HANDLES AND SPOUT

After the deck is finished, attach the handles and spout to complete the faucet installation according to the faucet manufacturer's instructions.

B. INSTALL WHIRLPOOL TRIM KIT

Refer to the installation instructions packed with the trim kit when installing the jet or suction trim.

13. CLEAN-UP AFTER INSTALLATION

When cleaning up after installation, **do not use abrasive cleansers** as they may scratch and dull the bath surface. Use warm water and a liquid detergent to clean the surface.

Stubborn stains, paint, or tar can be removed with turpentine or paint thinner. **Do not allow cleaners containing petroleum distillates to remain in contact with whirlpool surfaces for long periods of time.** Plaster can be removed by scraping with a wood edge. Do not use metal scrapers, wire brushes, or other metal tools. A powder-type detergent may be used on a damp cloth to provide mild abrasive action to the residual plaster.

14. CONFIRM PROPER OPERATION

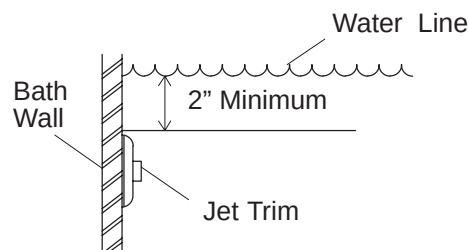
A. START-UP WHIRLPOOL

Refer to Important Safety Instructions on Page 2.

Please perform the following so the owner can safely receive the benefits of whirlpool bathing.

1. Rotate the jets so they are facing down toward the basin.
2. Fill the whirlpool to a water level at least 2" above the top of the highest jet.

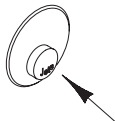
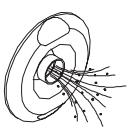
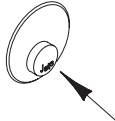
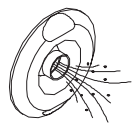
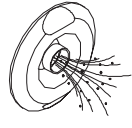
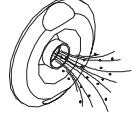
Water temperature in the bath should not exceed 104°F (40°C).



B. OPERATING SEQUENCE

Refer to the chart at right for the proper operating sequence.

1. Turn on the whirlpool jets. Adjust each jet for optimum air/water mixture.
2. A built-in timer automatically stops the motor after approximately 20 minutes of operation.
3. A built-in heater automatically maintains the water temperature while whirlpool bathing.

TO	METHOD	OBSERVE
Turn on high speed whirlpool massage and heater.		
Turn on low speed whirlpool massage and heater.		
To add air and water to the whirlpool action, rotate trim ring counterclockwise. To reduce air and water, turn it clockwise.		
Shut off whirlpool.		
Restart whirlpool after 20 minute cycle is complete.		

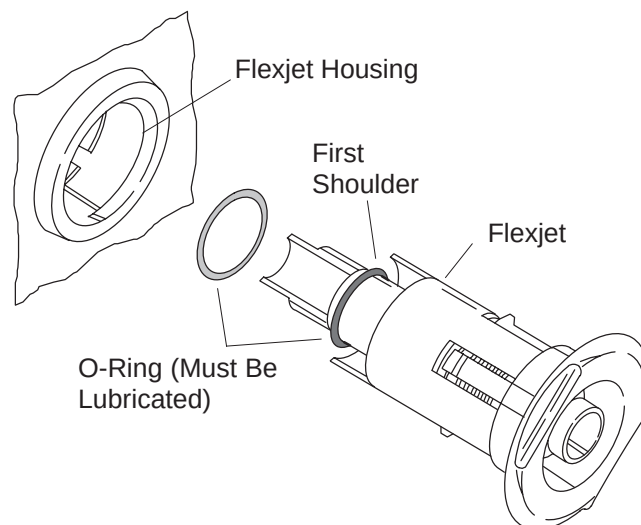
15. TROUBLESHOOTING PROCEDURES

A. FLEXJET INSTALLATION

NOTE: The Flexjet O-ring must be correctly positioned, must be lubricated, and must be in good condition to permit easy rotation and proper operation.

1. Install the O-ring onto the **first shoulder** of the Flexjet. Lubricate the O-ring with silicone lubricant to prevent noisy operation of the Flexjet.
2. Insert the Flexjet into the housing, and lightly push and rotate the Flexjet until it snaps into position. **Do not force the Flexjet.**

NOTE: When installed correctly, the Flexjet should turn smoothly both clockwise and counterclockwise.



B. TROUBLESHOOT WHIRLPOOL SYSTEM

This troubleshooting guide is for general aid only. A Kohler Authorized Service Representative or a qualified electrician should correct all electrical problems. For warranty service, contact your dealer or wholesale distributor.

SYMPTOMS	PROBABLE CAUSES	RECOMMENDED ACTION
1. Whirlpool does not start/stop.	A. No power to pump/control.	A. Set/Reset GFCI; check wiring to pump/receptacle.
	B. Jets are blocked.	B. Remove blockage.
	C. Switch disconnected from pump/control box.	C. Reconnect switch to pump/control box.
	D. Switch faulty.	D. Replace switch.
	E. Faulty circuit board.	E. Replace circuit board inside pump/control box.
	F. Faulty motor/pump assembly.	F. Replace motor and pump.
2. Motor starts, all jets are not functioning.	A. Jet is closed.	A. Rotate jets counterclockwise to open.
	B. Trim kit installed incorrectly.	B. Reinstall trim kit, checking for damage to O-ring.
3. Whirlpool stops automatically before 18 minutes.	A. GFCI trips.	A. Identify source of fault and correct.
	B. Suction blocked.	B. Remove obstruction.
	C. Jets are blocked.	C. Remove blockage.
	D. Motor overheated and protection device activated.	D. Check for blockage at motor vents. Remove blockage and allow motor to cool. Check for suction blockage. Remove blockage and allow motor to cool. Check for jet blockage. Remove blockage and allow motor to cool.
	E. Faulty circuit board.	E. Replace circuit board inside pump/control box.
4. Whirlpool does not automatically stop after 22 minutes.	A. Faulty circuit board.	A. Replace circuit board inside pump/control box.
5. Pump does not prime.	A. Pump shimmed too high.	A. Lower pump/control to subfloor level that bath is resting upon.
6. Noisy operation.	A. Pump straps have not been cut.	A. Cut straps with tin snips.
	B. Jet squeals due to dislodged jet O-ring.	B. Remove jet, replace and lubricate O-ring on valve body, and reinstall jet.

