

Installation and Care Guide

Bath Whirlpool Custom Installation

Save These Instructions
Conserver ces instructions
Guarde estas instrucciones

Retain serial number for reference:

Numéro de série du produit:

Número de serie del producto: _____

Français, page "Français-1"

Español, página "Español-1"

THE BOLD LOOK
OF **KOHLER**®

Installation Instructions



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



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

Building materials and wiring should be routed away from the pump body and other heat-producing components of the unit.

Install to permit access for servicing.

A pressure wire connector marked "Earth/Ground" is provided within the wiring compartment. To reduce the risk of electric shock, connect this connector to the grounding terminal of your electric service or supply panel with copper wire equivalent in size to the circuit conductor supplying this equipment.

Pressure wire connectors are provided on the exterior of the junction box or control within this unit to permit connection of a bonding conductor between this unit and all other exposed metal in the vicinity, as needed to comply with local requirements.

An equipment grounding terminal is provided in the field wiring compartment. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply panel with a conductor equivalent in size to the circuit conductors supplying this equipment.

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



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



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



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

NOTICE: Follow all local plumbing and electrical codes. In Canada, install this unit in accordance with the Canadian Electrical Code, Part 1.

*Outside North America, this device may be known as a Residual Current Device (RCD).

Product Information

Electrical Requirements

The installation must have a Class A Ground-Fault Circuit-Interrupter (GFCI) or Residual Current Device (RCD). The GFCI or RCD protects against line-to-ground shock hazards. **Use a 220 - 240 V, 20 A, 50/60 Hz dedicated service for the whirlpool.**

Product Notices



WARNING: Unauthorized modification may cause unsafe operation and poor performance of the whirlpool. This whirlpool has an optional custom pump location feature. If this option was ordered, the pump fittings are in place when you receive your whirlpool. The pump should only be moved to this location. Do not 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.

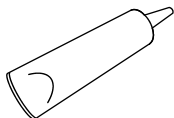
Product Information (cont.)

Features

Components include a pump, heater, control, whirlpool jets, and illuminated keypad.

The whirlpool and piping are factory assembled.

Tools and Materials



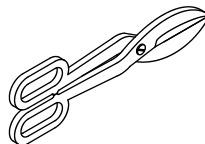
Silicone Sealant



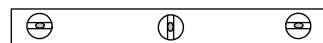
Measuring Tape



Pencil



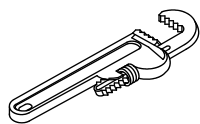
Tin Snips



Level



Safety Glasses



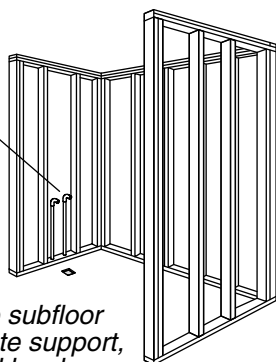
Pipe Wrench

Plus:

- Conventional woodworking tools and materials
- Drop cloth
- Metal shims
- 2x4s

Alcove

Position the rough plumbing.

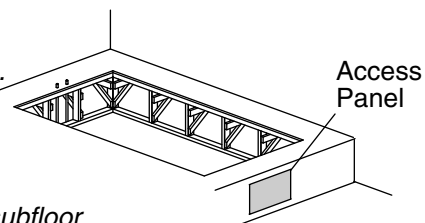


Construct 2x4 stud framing according to the roughing-in information.

Verify that the subfloor offers adequate support, and is flat and level.

Drop-In

Position the rough plumbing.



Construct according to the product dimensions.

Verify that the subfloor offers adequate support, and is flat and level.

1. Preparation



WARNING: Risk of personal injury. This cast iron whirlpool is extremely heavy. Obtain sufficient help to carefully lift and move it.

NOTICE: Measure your product for site preparation. Note the **model number** located on the pump, then visit the product page at www.kohler.com for more information.

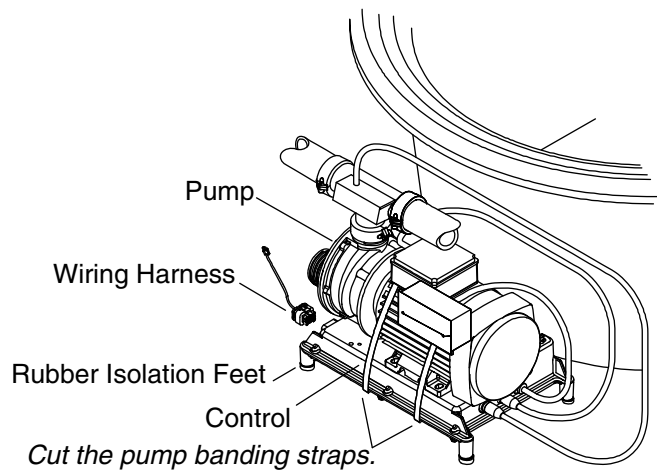
NOTICE: Provide generous, unrestricted access to the pump. You must provide access for servicing the pump and controls. The access must be located immediately next to the pump.

NOTICE: Do not lift the whirlpool by the piping or pump, or use the piping or pump for structural support of the whirlpool. To avoid damage to the whirlpool, lift at the sides of the whirlpool.

NOTICE: Do not support the load weight of the whirlpool by the rim.

NOTE: Drop-in, alcove, or corner installation is possible, depending on the product chosen.

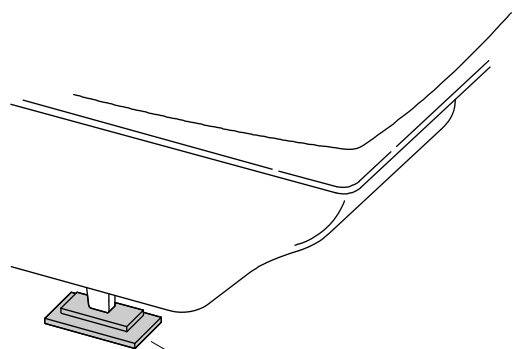
- Carefully unpack and inspect the new whirlpool for damage before installation. If there is damage do not install the whirlpool; contact your dealer.
- Make sure the flooring offers adequate support for your whirlpool, and verify that the subfloor is flat and level.
- Construct 2x4 stud framing.
- Install an access panel for future pump servicing. The access panel must be at least 20" (508 mm) wide by 15" (381 mm) high.
- Install the rough plumbing.
- Install the drain to the whirlpool according to the drain manufacturer's instructions.
- Protect the whirlpool surface by positioning a clean drop cloth in the basin bottom.



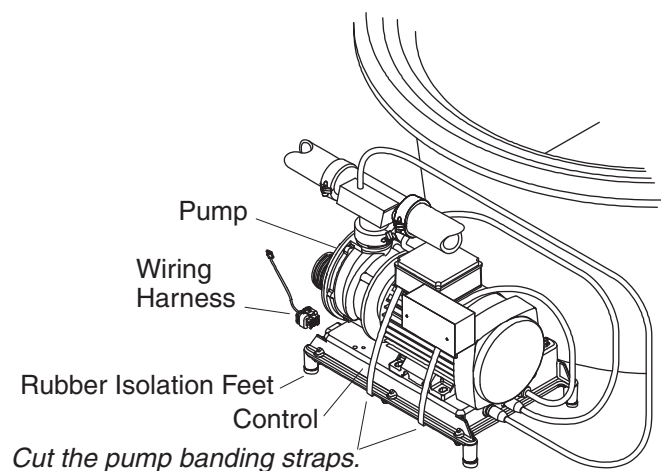
2. Disconnect the Pump

NOTE: Do not cut the whirlpool harness (piping) for this custom installation.

- Disconnect the pump and heater from the shipping location by cutting the two banding straps with a tin snips.
- Move the pump and heater aside.
- Relocate the pump and heater next to the customized inlet/outlet connections of the whirlpool harness. The pump may protrude beyond the rim of the bath.



Level by fitting metal shims under the feet.



3. Install the Whirlpool



WARNING: Risk of personal injury. This cast iron whirlpool is extremely heavy. Obtain sufficient help to carefully lift and move it.

NOTICE: Do not lift the whirlpool by the piping or pump, or use the piping or pump for structural support of the whirlpool. To avoid damage to the whirlpool, lift at the sides of the whirlpool.

NOTICE: Do not support the whirlpool by the rim.

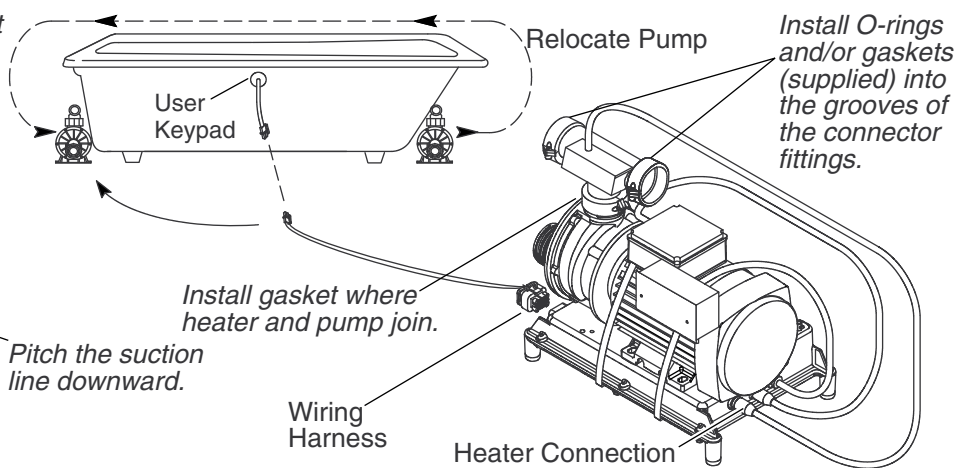
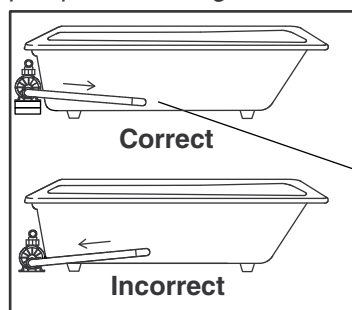
- Carefully move the whirlpool into position.
- Level the whirlpool by fitting metal shims under the feet as needed. Check for level along the rim. Make sure the whirlpool is resting on all four feet.

Install the Plumbing

- Insert the drain tailpiece into the trap. Secure the drain tailpiece to the trap.
- Install the faucet valve.
- Check the drain connections for leakage.
- If needed, install the grab bars according to the instructions.

Remove the plugs from the inlet and outlet piping.

Provide access to the pump for servicing.



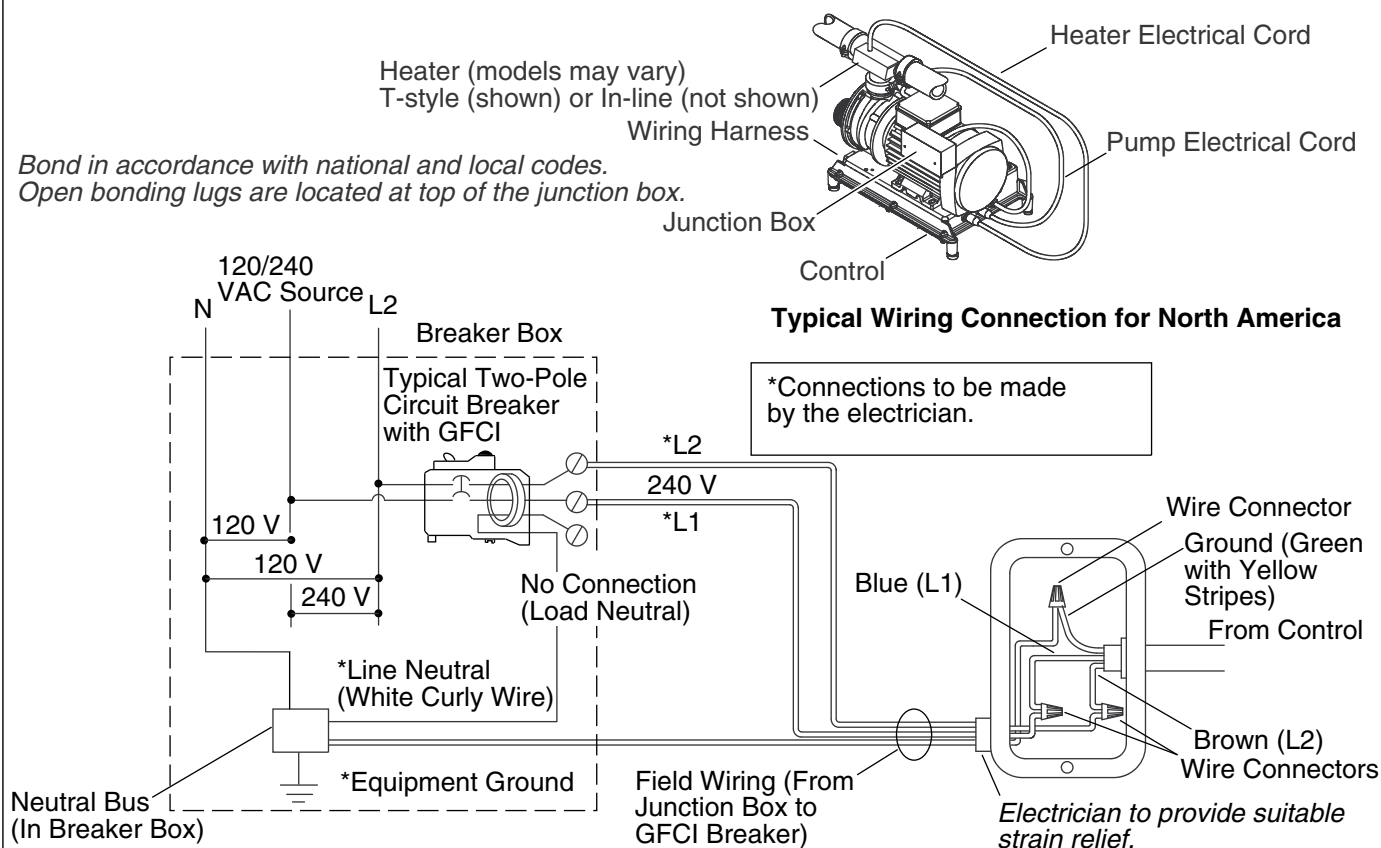
4. Mount the Pump in Custom Location

- Remove all protective packaging from around the whirlpool harness.
- Cut only the cable ties supporting the harness attachment nuts.
- Remove the plugs from the pump inlet and outlet connections.
- Install the supplied gasket in the connection between the heater and pump.
- Install the supplied O-rings/gaskets into the grooves on the inlet and outlet connector.
- Position the pump and control. Make sure the rubber isolation feet remain in place.

NOTE: The pump should rest on the same subfloor, at the same level as the whirlpool feet. Shim the pump if necessary on the subfloor, but make sure the rubber isolation feet are in contact with the floor. The pump should only be high enough to allow water to drain out of the suction line when the whirlpool is emptied.

IMPORTANT! Do not shim the pump more than 1/4" (6 mm). Raising the pump too high will prevent the pump from priming properly.

- Thread the plastic inlet and outlet nuts onto the pump and heater until the O-rings and gaskets make initial contact.
- Securely handtighten each nut, then tighten each nut an additional quarter turn.
- Make sure the whirlpool inlet piping is pitched down and away from the pump.
- If your heater was already installed in the custom location, plug the heater cord into the heater connection on the control by aligning the pins and pressing it into place.
- Locate the solid copper 8-gauge bonding wire on the bracket the pump has shipped on.
- Route the bonding wire back to the pump and control and connect to one of the open bonding lugs on the control box.
- Confirm the user keypad wiring is connected to the wiring harness on the control. Connect the wiring if needed.



5. Make Electrical Connections

NOTE: The product model number is printed on a label on the pump side of the whirlpool bath. This label also identifies the electrical rating of the product. **All whirlpools come equipped with a wiring junction box and are designed to operate between 220 V and 240 V at either 50 Hz or 60 Hz.**



WARNING: Risk of electrical shock. Make sure the power has been disconnected before performing the following procedures.

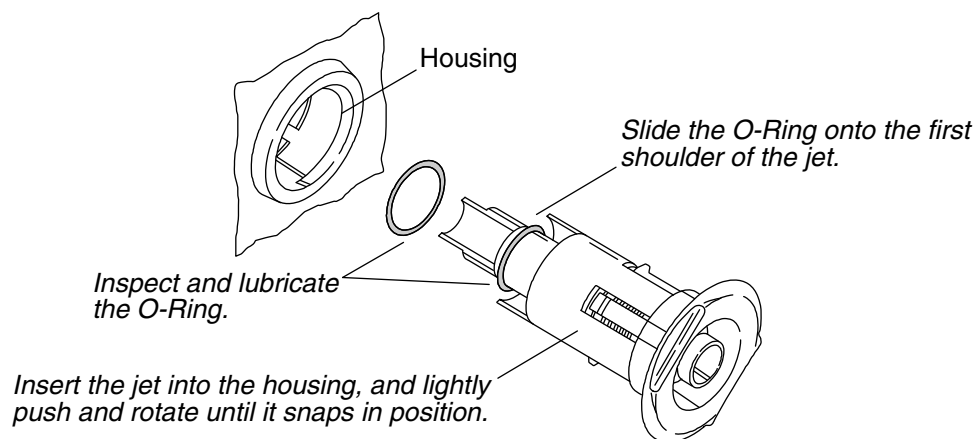


WARNING: Risk of electrical shock. Connect the pump to a properly grounded Ground-Fault Circuit-Interrupter (GFCI) or Residual Current Device (RCD). This will provide additional protection against line-to-ground shock hazard. A 220-240 V, 20 A, 50/60 Hz dedicated circuit is required.

IMPORTANT! The **load neutral** is not used. There should be no connection to the **load neutral** terminal on the Ground-Fault Circuit-Interrupter (GFCI) breaker. The green wire with the yellow stripe is the **equipment ground** and needs to be connected to the neutral bus in the main circuit breaker box.

NOTE: The wiring harness includes an antenna for the optional remote control. Do not alter or damage this antenna during installation.

- Connect service to the junction box. The junction box contains blue, brown, and green with a yellow stripe colored wires and a ground lug
- Follow local electrical codes. Bond in accordance with national and local codes.



6. Install the Whirlpool Trim Kit

Install the Trim Kit

- Install the suction cover and jets according to the instructions packed with the trim kit.

Test Run the Whirlpool

- Fill the whirlpool to a level at least 2" (51 mm) above the top of the highest jet.
- Operate the whirlpool for 5 minutes and check all whirlpool piping connections for leaks. Check for leakage along the front, sides, and back of the whirlpool.
- Turn on each of the whirlpool features and verify proper function. Check for water leakage along the front, sides, and back of the whirlpool.
- For additional information on whirlpool operation, see the "Operating Instructions" section.

Complete the Installation

- Install water-resistant wallboard and all finished wall, deck, and floor materials.
- Apply silicone sealant to seal all areas where the whirlpool and finished wall or deck meet.
- Install the faucet trim.

Clean-up After Installation

- When cleaning up after installation, **do not use abrasive cleansers**, as they may scratch and dull the whirlpool surface. If necessary, use warm water and a liquid detergent to clean the surface of the whirlpool, user keypad, and remote control.
- Remove stubborn stains or paint with turpentine or paint thinner. **Do not allow cleaners containing petroleum distillates to remain in contact with any whirlpool surface for long periods of time.** Remove plaster by carefully scraping with a wood edge. Do not use metal scrapers, wire brushes, or other metal tools. Use a powder-type detergent on a damp cloth to provide mild abrasive action to any residual plaster.

Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

SAVE THESE INSTRUCTIONS

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

Important Safety Instructions (cont.)



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



DANGER: Risk of accidental injury or drowning. To reduce the risk of injury, do not permit children to use this unit unless they are closely supervised at all times.



WARNING: Risk of personal injury. To avoid injury, exercise care when entering or exiting the whirlpool.



WARNING: Risk of electric shock. Do not permit electric appliances (such as a hair dryer, lamp, telephone, radio, or television) within 5' (1.5 m) of this whirlpool.



WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia. Prolonged immersion 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 (37°C). The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include: (a) failure to perceive heat, (b) failure to recognize the need to exit the whirlpool, (c) unawareness of impending hazard, (d) fetal damage in pregnant women, (e) physical inability to exit the whirlpool, and (f) unconsciousness resulting in the danger of drowning.



WARNING: Risk of hyperthermia. People using medications and/or having an adverse medical history should consult a physician before using a whirlpool equipped with a heater.



WARNING: Risk of fetal injury. Pregnant or possibly pregnant women should consult a physician before using the whirlpool.



WARNING: Risk of hyperthermia or drowning. Do not use the whirlpool immediately following strenuous exercise.



WARNING: Risk of hyperthermia or drowning. Water temperature in excess of 100°F (38°C) may cause injury. Test and adjust the water temperature before use.



WARNING: Risk of personal injury or drowning. Do not operate this unit without the guard (cover) over the suction fitting.



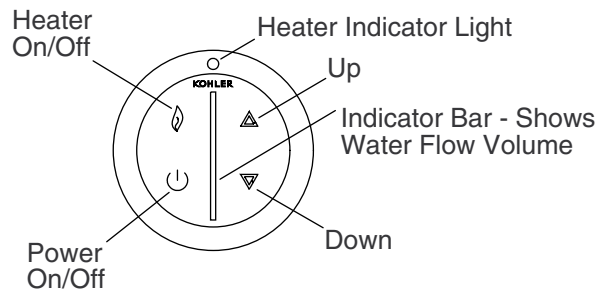
WARNING: Risk of personal injury. Never drop or insert any object into any opening.

Use this whirlpool only for its intended purpose as described in this guide. Do not use attachments not recommended by Kohler Co.

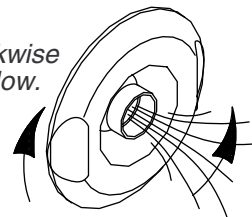
The whirlpool must be connected only to a supply circuit that is protected by a Ground-Fault Circuit-Interrupter (GFCI)*. Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, press the test button. The GFCI should interrupt power. Press the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the whirlpool without the test button being pressed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this whirlpool. Disconnect the whirlpool and have the problem corrected by a qualified service representative before using.

Your new KOHLER whirlpool has been listed by Underwriter's Laboratories, ensuring safety for you and your family. This whirlpool also conforms to rigid ANSI and IAPMO standards set within the plumbing industry.

* Outside North America, this device may be known as a Residual Current Device (RCD).



Turn jet trim clockwise to decrease the flow.



Turn jet trim counterclockwise to increase the flow.

Operating Instructions

All Models

NOTE: A built-in heater helps to maintain the water temperature when the whirlpool is running. If the temperature exceeds 104°F (40°C), the heater will turn off.

- Position the jet nozzles so they face down toward the basin. Turn the jet trim rings fully counterclockwise.
- **Fill the whirlpool to a water level at least 2" (51 mm) above the top of the highest jet.**
- Press the Power icon to turn on the whirlpool. The whirlpool will start at medium flow, and the heater will turn on automatically.
- Adjust the water flow by pressing the up or down icon on the keypad. An indicator bar in the center of the keypad shows the water flow volume.
- Adjust each jet for optimum air/water mixture. Turn the jet trim clockwise to reduce the air flow, and counterclockwise to increase the air flow.
- Press the heater icon to turn the heater off and on. When illuminated, the indicator light shows that the water temperature will be maintained up to 104°F (40°C).
- Press the Power icon a second time to turn the whirlpool off.

NOTE: A built-in timer automatically stops the pump and motor after approximately 20 minutes of operation.

Care and Cleaning

For best results, keep the following in mind when caring for your KOHLER product:

- Always test your cleaning solution on an inconspicuous area before applying to the entire surface.
- Wipe surfaces clean and rinse completely with water immediately after applying cleaner. Rinse and dry any overspray that lands on nearby surfaces.
- Do not allow cleaners to soak on surfaces.
- Use a soft, dampened sponge or cloth. Never use an abrasive material such as a brush or scouring pad to clean surfaces.

For detailed cleaning information and products to consider, visit www.kohler.com/clean. To order Care & Cleaning information, call 1-800-456-4537.

Flush the System

NOTE: Flush your whirlpool system twice a month or more, depending upon usage.

- Turn the jet trim rings fully clockwise to reduce air induction.
- Fill the whirlpool with hot water to a level at least 2" (51 mm) above the highest jet.
- Add 2 teaspoons (10 ml) of a low-foaming, powder automatic dishwasher detergent and 20 ounces (590 ml) of household bleach (5% - 6% sodium hypochlorite) to the water.
- Run the whirlpool for 5 to 10 minutes. Turn off the whirlpool and drain.
- If desired, rinse the bath surfaces with water.
- Rinse the surfaces of the jets, faucet, grab bars, and drain, and wipe them dry with a soft cloth.

Warranty

Kohler Co. warrants the cast iron components of products manufactured after February 10, 2000, to be free of defects in material and workmanship during normal residential use for as long as the original consumer purchaser owns his or her home. Gloss reduction, scratching, staining and alkaline etching of the finish over time due to use, cleaning practices or water or atmospheric conditions, are not manufacturing defects but are indicative of normal wear and tear. This warranty applies only for KOHLER Cast Iron products installed in the United States of America, Canada or Mexico (North America).

If a defect is found in normal residential use, Kohler Co. will, at its election, repair, replace or make appropriate adjustment. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty. Proof of purchase (original sales receipt) must be provided to Kohler Co. with all warranty claims. Kohler Co. is not responsible for labor charges, installation, or other incidental or consequential costs. In no event shall the liability of Kohler Co. exceed the purchase price of the product.

If the cast iron product is used commercially or is installed outside of North America, Kohler Co. warrants the cast iron product to be free from defects in material and workmanship for one (1) year from the date the product is installed, with all other terms of this warranty applying except duration. All other components other than the enameled cast iron carry Kohler Co.'s one-year limited warranty unless otherwise specified.

If you believe that you have a warranty claim, contact Kohler Co., either through your Dealer, Plumbing Contractor, Home Center or E-tailer, or by writing: Kohler Co., Attn.: Customer Care Center, 444 Highland Drive, Kohler, WI 53044, USA. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, color, finish, the date the product was purchased and from whom the product was purchased. Also include your original invoice. For other information, or to obtain the name and address of the service and repair facility nearest you call 1-800-4-KOHLER (1-800-456-4537) from within the USA and Canada, and 001-800-456-4537 from within Mexico, or visit www.kohler.com within the USA, www.ca.kohler.com from within Canada, or www.mx.kohler.com in Mexico.

KOHLER CO. AND/OR SELLER ARE PROVIDING THIS WARRANTY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. KOHLER CO. AND/OR SELLER DISCLAIMS ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states/provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of special, incidental or consequential damages, so these limitations and exclusions may not apply to you. This warranty gives the consumer specific legal rights. You may also have other rights, which vary, from state/province to state/province. This warranty is to the original consumer purchaser only, and excludes product damage due to installation error, product abuse, or product misuse, whether performed by a contractor, service company or the consumer.

This is Kohler Co.'s exclusive written warranty.

Warranty

ONE-YEAR LIMITED WARRANTY

KOHLER plumbing products are warranted to be free of defects in material and workmanship for one year from date of installation.

Warranty (cont.)

Kohler Co. will, at its election, repair, replace or make appropriate adjustment where Kohler Co. inspection discloses any such defects occurring in normal usage within one (1) year after installation. Kohler Co. is not responsible for removal or installation costs. **Use of in-tank toilet cleaners will void the warranty.**

To obtain warranty service contact Kohler Co. either through your Dealer, Plumbing Contractor, Home Center or E-tailer, or by writing Kohler Co., Attn.: Customer Care Center, 444 Highland Drive, Kohler, WI 53044, USA, or by calling 1-800-4-KOHLER (1-800-456-4537) from within the USA and Canada, and 001-800-456-4537 from within Mexico, or visit www.kohler.com within the USA, www.ca.kohler.com from within Canada, or www.mx.kohler.com in Mexico.

IMPLIED WARRANTIES INCLUDING THAT OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. KOHLER CO. AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states/provinces do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of special, incidental or consequential damages, so these limitations and exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state/province to state/province.

This is Kohler Co.'s exclusive written warranty.

Warranty

For Mexico

KOHLER CO.

It is recommended that at the time of purchase, you verify that all accessories and components are complete in this package.

This Kohler product is warranted to be free of defects in material and workmanship for one (1) year from the date of purchase as shown on the invoice or receipt.

1. Kohler Co. will only service its commercialized products through its authorized distributors.
2. To obtain warranty service, please present the invoice and corresponding warranty.
3. Through its authorized distributors, Kohler Co. promises to repair the defective product or provide a new replacement or an equivalent model (in those cases that the model has been discontinued) when the product is beyond repair, without any charge to the consumer.
4. The time of repair will not exceed six (6) weeks commencing on the date the product is received.
5. It is recommended that the consumer save the invoice or receipt as additional protection, as it may substitute the warranty in the case that there is a discrepancy in the validity of the warranty.

EXCEPTIONS AND RESTRICTIONS

The Warranty will not be valid in the following cases:

1. When the product is not operated in accordance with the instructions concerning use and operation set forth in the owner's manual or installation instructions, and when the recommendations and warnings included are not observed.
2. When the product has been modified or dismantled partially or totally; or has been used in a negligent fashion and as a consequence has suffered damages attributable to the consumer, individual, or hardware not authorized by Kohler Co.
3. This warranty does not cover the damages as a result of disaster such as fire or acts of God, including flooding, earthquake, or electric storms, etc. To obtain a list of distributors in your area where you can exercise your rights under this warranty, please call 001-800-456-4537.

KOHLER CO., KOHLER, WI 53044 U.S.A.

IMPORTER:

Warranty (cont.)

INTERNACIONAL DE CERÁMICA, S.A.B. DE C.V.

AV. CARLOS PACHECO NO. 7200

CHIHUAHUA, CHIH., MEXICO C.P. 31060

TEL: 52 (14) 29-11-11

Troubleshooting

NOTICE: This section is for general aid only. A Kohler Co. Authorized Service Representative or qualified electrician should correct any electrical problems. For warranty service, call 1-800-4KOHLER from within the USA and Canada, or 001-800-456-4537 from within Mexico.

NOTE: The product model number is printed on a label on the pump side of the whirlpool bath.

NOTE: For service parts information, visit your product page at www.kohler.com/serviceparts.

Troubleshooting the Whirlpool System

Symptoms	Probable Causes	Recommended Action
1. User keypad does not illuminate when Power icon is pressed or (if applicable) the outer ring is rotated.	A. No power to control. B. GFCI or RCD tripped. C. Wiring harness from user keypad to control is loose, disconnected or damaged. D. User keypad does not work. E. Control does not work.	A. Check wiring and connect power. B. Reset GFCI or RCD. C. Check wiring for proper connections. Replace wiring harness if necessary. D. Replace user keypad. E. Replace control.
2. Motor starts, but all jets are not functioning.	A. Jet is closed. B. Jet not installed correctly. C. Jets are blocked.	A. Rotate jet trim counterclockwise to open. B. Reinstall jet; check for O-ring damage. C. Remove blockage.
3. User keypad is illuminated, but does not respond to icons or outer ring.	A. Control program is locked. B. Wiring harness from user keypad to control is loose, disconnected or damaged. C. User keypad does not work. D. Control does not work.	A. Reset GFCI or RCD. B. Check wiring for proper connections. Replace wiring harness if necessary. C. Replace user keypad. D. Replace control.
4. User keypad indicator bar keeps scanning at power-up.	A. Control program is locked. B. Wiring harness from user keypad to control is loose, disconnected or damaged. C. User keypad does not work. D. Control does not work.	A. Reset GFCI or RCD. B. Check wiring for proper connections. Replace wiring harness if necessary. C. Replace user keypad. D. Replace control.
5. User keypad is illuminated, but pump won't start.	A. Power cord from pump to control is loose, disconnected or damaged. B. Pump does not work. C. Control does not work.	A. Check wiring for proper connections. B. Replace pump. C. Replace control.

Troubleshooting (cont.)		
Symptoms	Probable Causes	Recommended Action
6. Motor runs but pump won't prime (cavitates).	<p>A. Pump is shimmed too high.</p> <p>B. Small air leak at pump inlet.</p> <p>C. Motor/pump does not work.</p> <p>D. Control does not work.</p>	<p>A. Lower pump/control to subfloor level.</p> <p>B. Securely tighten nut(s) on intake side of pump.</p> <p>C. Replace motor/pump.</p> <p>D. Replace control.</p>
7. Pump stops before 18 minutes.	<p>A. GFCI or RCD tripped.</p> <p>B. Suction is blocked.</p> <p>C. Jets are blocked.</p> <p>D. Motor overheated and protection device activated.</p>	<p>A. Identify source of fault, and correct. Reset GFCI or RCD.</p> <p>B. Remove obstruction.</p> <p>C. Remove blockage.</p> <p>D. Check for blockage at suction and/or jets. Remove blockage and allow motor to cool.</p>
8. Pump does not automatically stop after 22 minutes.	A. 20-minute timer inadvertently disabled.	A. See Service Manual.
9. Pump won't turn off when the Power icon on user keypad is pressed.	<p>A. User keypad does not work.</p> <p>B. Control does not work.</p>	<p>A. Replace user keypad.</p> <p>B. Replace control.</p>
10. Pump operates but variable speed feature does not work.	<p>A. Motor/pump does not work.</p> <p>B. Control does not work.</p>	<p>A. Replace motor/pump.</p> <p>B. Replace control.</p>
11. Bath water cools while pump is operating.	<p>A. Water temperature above 104°F (40°C).</p> <p>B. Heater has turned off either manually or automatically.</p> <p>C. Wiring from heater to control is loose, disconnected or damaged.</p> <p>D. Heater does not work.</p> <p>E. Control does not work.</p>	<p>A. Allow bath water to cool.</p> <p>B. Turn heater on.</p> <p>C. Check wiring for proper connections.</p> <p>D. Replace heater.</p> <p>E. Replace control.</p>
12. Noisy operation.	<p>A. Pump banding straps have not been cut.</p> <p>B. Dry or dislodged jet O-ring (squeal).</p>	<p>A. Cut pump banding straps with tin snips.</p> <p>B. Remove jet, replace and lubricate O-ring, and reinstall jet.</p>
13. Remote control (if equipped) does not work.	<p>A. Batteries improperly installed or dead.</p> <p>B. Antenna on wiring harness is damaged.</p> <p>C. Remote control not programmed correctly.</p> <p>D. Remote control does not work.</p> <p>E. Control does not work.</p>	<p>A. Replace batteries.</p> <p>B. Replace wiring harness.</p> <p>C. See remote control Homeowners Guide or whirlpool Service Manual.</p> <p>D. Replace remote control.</p> <p>E. Replace control.</p>