



KOHLER®

Sonata™ Whirlpool with Steam
K-1563-S, K-1564-S

Owner's And Installation Manual

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

IMPORTANT SAFETY INSTRUCTIONS

ATTENTION: INSTALLER AND OWNER

READ AND FOLLOW ALL INSTRUCTIONS



WARNING

When using this unit, basic precautions should always be followed, including the following.



DANGER

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

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

Never drop or insert any object into any opening.

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

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.

A pressure wire connector marked ground is provided within the terminal compartment. To reduce the risk of electric shock, connect this connector to the grounding terminal of your electric service or supply panel with a continuous green insulated copper wire equivalent in size to the circuit conductors supplying this equipment, but no smaller than No. 12 AWG (3.3 mm²).

A pressure wire connector is provided on the exterior of the control box within this unit to permit connection of a No. 8 AWG (8.4 mm²) 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.

SAVE THESE INSTRUCTIONS



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

FOR THE SAFETY OF YOU AND YOUR ENTIRE FAMILY PLEASE READ THE FOLLOWING IMPORTANT SAFETY INSTRUCTIONS BEFORE USING THE WHIRLPOOL. PLEASE POST THE ENCLOSED CARD (ATTACHED TO YOUR WARRANTY CARD) IN A CONVENIENT PLACE WHERE IT CAN BE REFERRED TO BY ANYONE WHO WISHES TO USE THE BATH.

- Keep small objects such as bath toys and bathing accessories out of the whirlpool while the pump is operating.
- **Water temperature in the whirlpool should not exceed 104° F (40° C).** Hot whirlpool baths can put certain stresses on the body, as does any hot bath, shower, sauna, or steam bath. **Prolonged immersions in hot**

water may induce hyperthermia. Symptoms of hyperthermia may include nausea, dizziness, or fainting. Observe a reasonable time limit in the water. If these symptoms occur, leave the bath immediately and cool down. Whirlpool bathing may not be suitable for all persons. If you have a heart condition, high blood pressure, diabetes, circulatory problems, or if you are under the care of a physician, consult your physician before using a whirlpool bath. Failure to do so may result in bodily injury or serious health hazards.

- If you are pregnant, you should consult your physician before using the whirlpool bath. The whirlpool action may prove hazardous.
- **DO NOT** consume alcoholic beverages or take medications or drugs prior to or when using the whirlpool bath. Alcohol and drugs affect mental judgment and inhibit bodily functions such as heartbeat and respiration, resulting in potentially dangerous effects.

- Acrylic surfaces can be slippery when wet. Please exercise caution when entering, leaving, or moving about in the whirlpool bath.
- **DO NOT** use the whirlpool bath if protective covers or screens are not installed on the suction inlet. Foreign objects, including hair, should be kept from the suction inlet as bath water is continuously recirculated throughout the whirlpool system. Failure to screen the suction inlet could block the inlet and result in bodily injury and/or damage to the unit.
- **DO NOT** touch the steam head or brass trim during operation as they are hot.
- It is not recommended that you use the whirlpool and the steam unit at the same time.



Thank you for choosing Kohler. You've purchased the best whirlpool on the market today. Kohler's Sonata with steam Bathing Module is perfect for your remodeling and building needs.

Convenience features. The Sonata offers convenient whirlpool controls with four adjustable whirlpool jets. This whirlpool has been engineered for comfort and safety to give you the secrets to the soothing relief and deep-down enjoyment of whirlpool bathing.

Easy installation. Installation of the Sonata Bathing Module is an easy step-by-step procedure. Please read these instructions carefully to familiarize yourself with the required tools, materials, and installation sequences. Follow only the sections that pertain to your particular installation. This will help you avoid unnecessary expense resulting from improper installation.

Read the manual carefully. Before using your whirlpool, make sure it's installed according to the instructions in this manual. Also, carefully read all important operating, safety, and maintenance instructions.

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

Please complete and promptly return the postage-paid owner's warranty registration card located in this booklet. Your return of this warranty card will allow Kohler Co. to keep you informed of product improvements and will ensure that you receive prompt warranty service in the event it is required. All the information you provide on the warranty card is considered confidential.

All information in this manual is based on 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.



This book has been designed to inform you about the use, care, operation, and installation of your new Kohler Sonata™ with Steam Bathing Module. Please read all the information carefully and familiarize yourself with all aspects of your Kohler whirlpool.

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Weight of whirlpool	325 lbs.
Bathing well basin area	45 x 21"
Bathing well top area	52" x 24"
Water depth to overflow	12-1/2"
Capacity to overflow	53 gals.
Electrical service requirements:	
Whirlpool	120 V., 15 A., 60 Hz.
(Separate circuit required, protected with Class A GFCI)	
Pump	1-speed, 1/2 hp , 120 V., 60 Hz. 8.0 A.
Electrical Requirements:	
5kW Steam Generator	220V/240V, 30A, 60 Hz
(Separate circuit must be provided).	
Module Light	120 V, 60 Hz
(Separate circuit is not required, but Class A GFCI protection is required.)	
Provide access to light fixture.	
Access Panel	20" W x 15" H minimum
Required accessories:	
trim kit	K-9682
When specified:	
drain	K-7162

IMPORTANT: Roughing-in for steam modules is different than that for non-steam modules.

* Unit width is 60", roughing-in for stud frame **MUST** be 60-1/2".

No change in measurements if connected with drain illustrated.
Stud opening tolerance (+1/4"–0"). When fire-rated wall is specified,
stud opening dimensions are to the inside of the wall board.

Units not drilled for supply fittings.

Ground fault circuit protection **MUST** be provided.

Fixture dimensions are nominal and conform to tolerances by ANSI standards (Z124.2)

OPERATING INSTRUCTIONS



Your Kohler Whirlpool Bath promises many hours of massaging relaxation and enjoyment. Turn on the whirlpool jets for a vigorous hydromassage...each jet can be adjusted individually for optimum air/water mixture. A built-in timer automatically stops the motor after 20 minutes of operation. Please perform the following so that you may safely receive the benefits of whirlpool bathing.

TO USE: Fill your whirlpool bath to a water level 1" above the highest jet. The timer automatically cycles off after 20 minutes of operation.

Water temperature in the whirlpool should not exceed 104° F (40° C). Prolonged immersions in hot water may induce hyperthermia. Symptoms of hyperthermia may include nausea, dizziness, or fainting. Observe a reasonable time limit in the water. If these symptoms occur, leave the bath immediately and cool down.

Refer to chart for proper operating sequence.

REFER TO IMPORTANT SAFETY INSTRUCTIONS ON PAGE 2 BEFORE OPERATING THIS WHIRLPOOL.



WARNING!

Whirlpool controls are factory installed. Do not relocate or modify. This could adversely affect safe operation of the whirlpool.

TO	METHOD	OBSERVE
Turn ON whirlpool massage.		
Adjust direction of whirlpool jet.		
Reduce or add air to whirlpool action.		
Turn OFF whirlpool.		
Restart whirlpool after 20-minute cycle is complete.		

THEORY OF OPERATION



Note the recommended location of your whirlpool access panel, as shown in Fig. #1. This access panel **MUST** be provided in order to perform any service to your unit. When reading the information below, you may wish to open the access panel and familiarize yourself with the components of your whirlpool. If you have any further questions concerning the operation of your unit, contact your Kohler dealer.

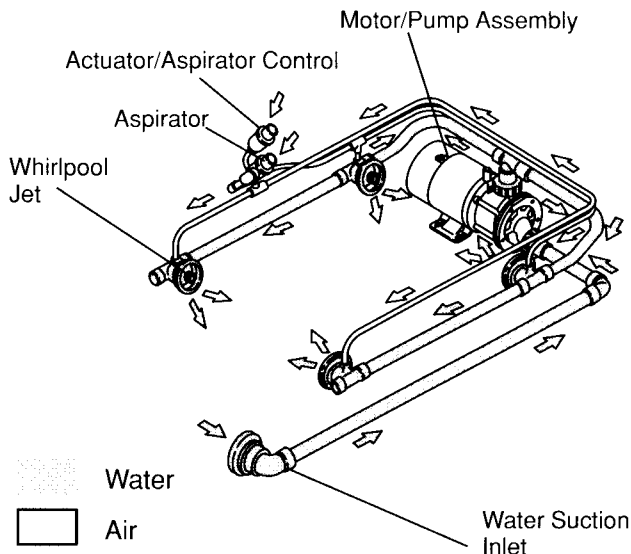
Your new Kohler whirlpool consists of six basic components.

- **The bath**...which acts as a reservoir for water and provides a location for whirlpool action.
- **The air actuator control**, which allows you to turn the whirlpool pump ON and OFF. Pressing the actuator one time sends a signal pulse of air through flexible plastic tubing to a special switch within the power panel.
- **The power panel assembly**, which contains the relay and automatic timer for control of the whirlpool motor and pump assembly. The power panel assembly **MUST** be protected with a Class A Ground-Fault Circuit-Interrupter (GFCI) which is supplied by your installer to prevent electrical line-to-ground shock hazard. **Never bypass the GFCI. If the GFCI trips or the whirlpool is not working properly, DO NOT use the whirl-**

pool. Call a Kohler Authorized Service Representative to repair the problem.

- **The single-speed whirlpool motor and pump assembly**, which provides the power to move the water and create the soothing whirlpool action.
- **The water suction inlet**, which serves as the water intake point of the whirlpool circulation system. The protective cover screen of the suction inlet prevents small objects and hair from entering the whirlpool circulation system.
- **The whirlpool jets**, which are directionally-adjustable and strategically placed for optimum hydromassage.
- **The air aspirator valve**, which allows you to adjust the air flow rate to the whirlpool jets.

Once you fill your whirlpool bath with water, it becomes a self-contained system. A diagram illustrating the typical water and air circulation for your Kohler whirlpool is shown below. Water is drawn from the bath through the water suction inlet located near the bottom of the bath. The water is pulled into the pump and forced back out into the bath through the whirlpool jets located in the bath walls. Air, whose flow rate is adjusted by turning the air aspirator valve knob, is mixed with the water stream at the jets. This cycle continues as long as the motor and pump assembly is operating.



TROUBLESHOOTING GUIDE FOR WHIRLPOOL



The troubleshooting guide below is meant for general aid only. All electrical problems should be corrected by a Kohler Authorized Service Representative or a qualified electrician. For warranty service, contact your dealer, wholesale distributor, or write Kohler Co., ATTN: Consumer Affairs, Kohler, WI 53044. (414) 457-4441.

SYMPTOMS	PROBABLE CAUSES	RECOMMENDED ACTION
Whirlpool does not turn ON.	No power to control. Air control tubing disconnected, loose, kinked, plugged, or damaged. Faulty air actuator control. Faulty power panel assembly or components. Faulty motor and pump assembly.	Set/Reset GFCI breaker. Connect, straighten, clean, or replace tubing. Replace air actuator control. Replace power panel assembly or components. Rebuild or replace motor and pump assembly.
Motor turns ON, but no water is pumping.	Water level in bath is below suction inlet. Suction air leak. Suction inlet blocked. Jets blocked. Pump impeller loose on motor shaft.	Fill bath to proper level. Tighten all clamps and fittings on the suction side of the pump. Remove blockage. Remove blockage. Tighten impeller on motor shaft or replace impeller.
Motor turns, water is pumping, but there is no air injection.	Air aspirator valve is closed. Jet orifice(s) are loose or missing.	Open air aspirator valve. Tighten or replace jet orifice(s).
Whirlpool does not manually turn OFF.	Air control tubing disconnected, loose, kinked, plugged, or damaged. Faulty air actuator control. Faulty power panel assembly or components.	Connect, straighten, clean, or replace tubing. Replace air actuator control. Replace power panel assembly or components.
Whirlpool turns OFF automatically before 18 minutes of operation.	Motor overheated and protection device is activated. GFCI tripped.	Check for blockage at motor vents, at suction inlet, and at whirlpool jets. Remove blockage and allow motor to cool. Refer to installer/dealer.
Whirlpool does not turn OFF automatically after 22 minutes of operation.	Wiring error. Faulty power panel assembly or components.	Refer to installer/dealer. Replace power panel assembly or components.

TROUBLESHOOTING GUIDE FOR STEAM GENERATOR



The troubleshooting guide below is meant for general aid only. All electrical problems should be corrected by a Kohler Authorized Service Representative or a qualified electrician. For warranty service, contact your dealer, wholesale distributor, or write Kohler Co., ATTN: Consumer Affairs, Kohler, WI 53044. (414) 457-4441.

SYMPTOMS	PROBABLE CAUSES	RECOMMENDED ACTION
No steam within 10 minutes of activating steam generator.	Water supply to generator is off. Generator is wired incorrectly. Air line tube is loose or kinked. GFCI is tripped.	Turn water supply on Consult electrician or wiring diagram Connect air line tube to generator and air actuator on back of module. Reset GFCI or check circuit breaker components.
After pushing steam button, no steam emits from unit.	Unit was "ON" and you pushed it "OFF". Length of air line may be too long to	Push steam button again and wait for steam generator to warm up. Shorten tube by cutting off excess at the generator. Replace bleeder tee at generator.



Cleaning Your Acrylic Whirlpool

One of the joys of owning a Kohler acrylic unit is the ease of cleaning—no seams or tight corners for lime or mildew build-up. As with any smooth surface, **AVOID USING ABRASIVE CLEANSERS** on your acrylic whirlpool. Abrasive cleansers will scratch and dull the surface. It also helps if you wipe out your bath after each use to prevent a build-up of soap and scum. If the surface becomes dull, you may use an automotive type rubbing compound on the unit followed by a good application of paste wax. For normal cleaning, use only the cleaners listed below.

- Lysol Deodorizing
- Scrub Free-Kitchen
- Scrub Free-Bathroom
- Scrub Free Pine Fresh
- Lime-A-Way Bath & Kitchen
- Fantastik All-Purpose
- Pine Magic Multi-Purpose
- Spic & Span
- Mr. Clean All-Purpose
- Top Job



CAUTION: Avoid products containing the following chemicals as they will damage the acrylic finish: **Acetone, Ethyl Alcohol, Amyl or Ethyl Acetate, Sodium Hypochlorite, Toluene, Phenol.** Extreme heat such as that generated by cigarettes or port-

able heaters can damage bath surfaces; do not use such items near your whirlpool bath.

Cleaning Your Faucet, Drain & Trim

Clean plated trim, drain, or faucets on your whirlpool bath with a water dampened cloth or soft sponge. Buff dry with a soft cloth. The mild detergents described above to clean bath surfaces are also acceptable. Epoxy coated brass should also be cleaned with a damp cloth or sponge and buffed dry. Always rinse off detergents or soaps with water before buffing dry. Gold should be cleaned **ONLY** by dabbing with a cotton ball or a soft cloth. Treat gold like jewelry. For occasional cleaning of gold, a mild cleaner can be used...but residue must be rinsed off immediately.

Flushing Your Whirlpool System

IMPORTANT!

FLUSH YOUR WHIRLPOOL SYSTEM TWICE A MONTH OR MORE DEPENDING ON USAGE...USE THE FOLLOWING SEQUENCE:

- Adjust jets so there is no air induction.
- Fill bath with hot water to 2" to 3" above the highest jets.

- Add 2 teaspoons of a low foaming dishwasher detergent such as Calgonite or Cascade, and 4 ounces of household bleach, such as Chlorox, to the water.
- Run whirlpool for 10-15 minutes and drain bath.
- Fill with cold water to 2" to 3" above the highest jets and run unit for another 5-10 minutes. Drain bath, and wipe dry with a soft cloth.

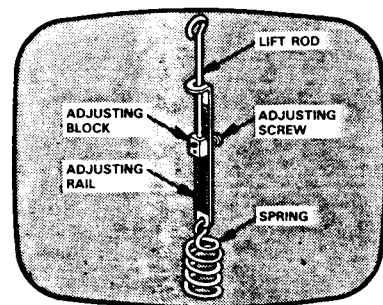
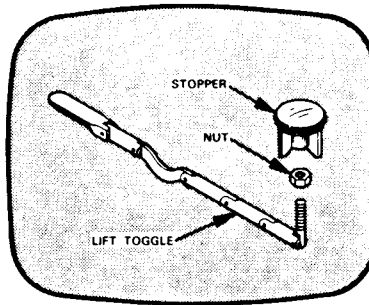
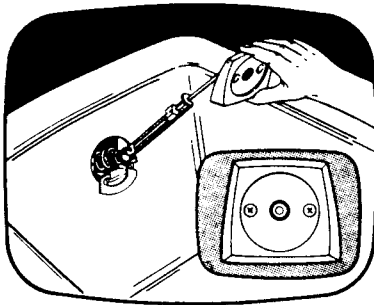
NOTE: Whirlpool action can cause even a small amount of bubble bath, bath soap, shampoo, or body oil to foam excessively. For this reason, refrain from using these products during the whirlpool cycle.

Flushing Your Steam Generator

Your steam generator should be flushed every three months, depending upon water conditions in your part of the country. If unit is used commercially, it must be flushed once per week. **Use the following procedure for flushing Kohler steam generators.**

1. Turn on the steam generator. When unit is running, remove the drain cap.
2. Run the unit for 10–15 minutes until the water is clean.
3. Turn the unit off and replace the drain cap.

ADJUSTING AND CLEANING YOUR KOHLER DRAIN



If your whirlpool is equipped with a Kohler Clearflo drain, it can be adjusted by following this procedure.

1. Adjustment of the drain stopper height is very simple. Drain stopper should rise approximately 3/8" when opened. To adjust, remove stopper and loosen nut below stopper. Raise stopper by turning counterclockwise or lower by turning clockwise.
2. If the drain is still out of adjustment, remove Phillips screw from dial on overflow hood and remove two screws on overflow hood. Pull lift assembly from overflow.
3. Loosen adjusting screw and slide adjusting block up to increase clearance or down to decrease. Tighten adjusting screw and lift assembly.
4. If hair or other debris clogs the drain, the best remedy is to remove the stopper assembly as described in step 1 and clean out the drain by rinsing water through it and removing hair from the lift toggle. If the drain is still clogged, remove the overflow hood as described in step 2 and pull the lift rod out the drain through the overflow hole. See your hardware dealer for the best tools or information for unclogging drains.

WARRANTY



Please take a moment to familiarize yourself with the Kohler Warranty, its benefits, and limitations.

Kohler Co. and its distributors support you with one of the largest Service Networks of its type.

Here's what you need to do if you require service:

FIRST: Contact the dealer or contractor who sold and installed the product. They should be able to solve any problems you may have.

SECOND: If your dealer or contractor cannot solve the problem, they will contact or supply you with the name of the local Kohler Distributor and the:



**KOHLER TECHNICAL
SPECIALIST**

THIRD: If you are unable to obtain warranty service through either your contractor or Kohler Co. distributor, please write us directly at the address below.

FOURTH: Include all pertinent information regarding your claim, including a complete description of the product, model numbers, colors, finishes, and the date the product was installed. Include a description of the problem, and a photocopy of your invoice for the products involved. Also give us the name of the contractor and distributor.

Kohler Co.
Consumer Affairs
Kohler, Wisconsin 53044

LIMITED ONE-YEAR WARRANTY

Kohler plumbing fixtures and fittings are warranted free of manufacturing defects.

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 year after installation. **Kohler Co. is not responsible for installation costs.**

To obtain warranty service, contact Kohler Co. either through your Dealer or Plumbing Contractor or by writing Kohler Co., Attn: Consumer Affairs Department, Kohler, Wisconsin 53044 U.S.A.

IMPLIED WARRANTIES INCLUDING THAT OF MERCHANTABILITY ARE EXPRESSLY LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. KOHLER CO. DISCLAIMS ANY RESPONSIBILITY FOR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so this limitation and exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

This is our exclusive written warranty.

KOHLER CO, KOHLER, WISCONSIN 53044

BEFORE BEGINNING INSTALLATION



THIS SECTION OF THE MANUAL IS INTENDED FOR THE INSTALLER. OWNERS MAY WISH TO REFER TO THIS SECTION TO ENSURE THEIR KOHLER WHIRLPOOL IS INSTALLED PROPERLY OR AS A SOURCE OF INFORMATION.

ATTENTION INSTALLER: PLEASE READ THE FOLLOWING IMPORTANT CONSIDERATIONS! READ ALL INSTRUCTIONS CAREFULLY AND FOLLOW ALL LOCAL PLUMBING AND ELECTRICAL CODES.



WARNING

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



DANGER

RISK OF ELECTRICAL SHOCK. Connect only to a circuit protected by a Ground-Fault-Circuit-Interrupter.

Before installation, make sure proper access is made to the final connections. Grounding is required. **ALL ELECTRICAL CONNECTIONS SHOULD BE MADE BY A LICENSED ELECTRICIAN.**

- **FOR K-1563-S, K-1564-S.** An AC-

CESS PANEL (20" W x 15" H minimum-) 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, through an adjoining wall, or through the ceiling below the pump. **Refer to Fig. #1 in Specifications section.**

- The installation **MUST** have a Class A Ground-Fault-Circuit-Interrupter (GFCI) which will provide additional protection against line-to-ground shock hazard. A 120 V, 15 A, 60 Hz separate circuit is required.
- The automatic timer has been factory-installed to the whirlpool system. No installation is needed.

All information in these instructions is based on 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.

- These Sonata steam units have unique roughing-in requirements separate from other Sonata units without steam generators.
- The light should be installed by a licensed electrician and must be protected by a Class A Ground-Fault

Circuit-Interrupter.

TOOLS REQUIRED:

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

MATERIALS REQUIRED:

- Plumber's putty
- Gypsum plaster
- Water-resistant sealer
- Wall coverings, as necessary
- RTV silicone sealant



WARNING

WHIRLPOOL PUMP AND PIPING ARE FACTORY-ASSEMBLED. 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.

OPERATING THE KOHLER WHIRLPOOL

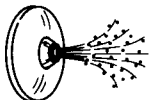
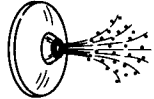


Please read the following so that you may safely receive the benefits of whirlpool bathing. **Refer to owner's manual for further information.**

Fill the whirlpool to a water level 1" above the highest jets. **BE CERTAIN TO FILL WATER TO THE PROPER LEVEL BEFORE OPERATING.**

Water temperature in the whirlpool should not exceed 104° F (40° C). Prolonged immersions in hot water may induce hyperthermia. Symptoms of hyperthermia may include nausea, dizziness, or fainting. Observe a reasonable time limit in the water. If these symptoms occur, leave the bath immediately and cool down.

Refer to chart for proper operating sequence.

TO	METHOD	OBSERVE
Turn on whirlpool massage		
Adjust direction of whirlpool jet		
To add or reduce air to whirlpool action.	Reduce Air  /  Add Air	
To shut off whirlpool.		
To restart whirlpool after 20 minute cycle is complete.		

IMPORTANT SAFETY INSTRUCTIONS

FOR SAFETY PLEASE READ THE FOLLOWING IMPORTANT SAFETY INSTRUCTIONS BEFORE USING THE WHIRLPOOL

- Keep small objects such as bath toys and bathing accessories out of the whirlpool while the pump is operating.
- **Water temperature in the whirlpool should not exceed 104° F (40° C).** Hot whirlpool baths can put certain stresses on the body, as does any hot bath, shower, sauna, or steam bath. **Prolonged immersions in hot water may induce hyperthermia. Symptoms of hyperthermia may include nausea, dizziness, or fainting. Observe a reasonable time limit in the water. If these symptoms occur, leave the bath immediately and cool down.** Whirlpool bathing may not be suitable for all per-

sons. If you have a heart condition, high blood pressure, diabetes, circulatory problems, or if you are under the care of a physician, consult your physician before using a whirlpool bath. Failure to do so may result in bodily injury or serious health hazards.

- If you are pregnant, you should consult your physician before using the whirlpool bath. The whirlpool action may prove hazardous.
- **DO NOT** consume alcoholic beverages or take medications or drugs prior to or when using the whirlpool bath. Alcohol and drugs affect mental judgment and inhibit bodily functions

such as heartbeat and respiration, resulting in potentially dangerous effects.

- Acrylic surfaces can be slippery when wet. Please exercise caution when entering, leaving, or moving about in the whirlpool bath.
- **DO NOT** use the whirlpool bath if protective covers or screens are not installed on the suction inlet. Foreign objects, including hair, should be kept from the suction inlet as bath water is continuously recirculated throughout the whirlpool system. Failure to screen the suction inlet could block the inlet and result in bodily injury and/or damage to the unit.

PREPARATION AND NEW CONSTRUCTION



1. Your new acrylic module is too large to fit through a standard door opening. The unit must be placed within the installation area prior to completion of framing. An optional procedure is to omit studs in one wall or to install studs without nailing, to allow moving the unit in place. When moving the unit avoid flexing the side walls or top to prevent radius cracking. No additional support under the basin area is required when unit is securely nailed into the recess.

2. The light fixture that is installed in the module is the highest point of the unit. The roughing-in of your steam unit must provide access to the lighting fixture if service is required.

3. Carefully uncrate and inspect the whirlpool for damage. Leave whirlpool in carton during construction to prevent damage.

4. In locations where plumbing is adjacent to masonry wall, make provisions for access to connections. Construct separate wall a minimum of 6" from masonry wall. Install furring when back of unit is against masonry wall.

5. Because unit is one piece, drain and overflow connections can't be made by reaching over end of bath. Before installation, provide access to connections. Consider: If units are installed on slab at corner of outside walls, connect to at accessible end or provide access to plumbing connections. Units installed on slab back-to-back against outside walls should be planned for access to plumbing connections. In wood partition construction at least one unit should have access through which the other unit may be reached. In masonry or fire rated partitions, both units must be provided with access to plumbing connections. Units installed on slab in a cluster of four, back-to-back, end-to-end, should be planned with a plumbing wall which provides sufficient clearance for access through plumbing wall from the accessible end. When units are installed on floor covering, a basement, or in locations where drain connections are accessible from below, connections can be easily made from underneath the unit.

6. When fire wall is specified, it should be in place before the unit is installed.

7. If unit is to be installed adjacent to a vertical duct or chase, fire rated gypsum drywall should surround the unit.

8. The variety of installations possible with this unit may require framing other than described in this manual.

9. Refer to Specifications section.

Refer to Figs. #1. Construct an access panel according to specifications. Make sure existing plumbing corresponds to new bath. Bath should be installed as a recess installation.

10. NEW INSTALLATION.

Position plumbing according to rough-in dimensions. Cap supplies and check for leaks. **REPLACEMENT INSTALLATION.** Disconnect drain at trap. Remove old wall material. **Slip boards under old tub feet to protect floor and slide old tub out of recess as illustrated in Fig. #2.**

11. Refer to Fig. #3

Construct a recess with a header that is square vertically and horizontally in accordance with roughing-in dimensions (Fig. #1) for the unit. **Do not nail header with 1" x 2" brace to stud frame until after the module is positioned in the recess.** Install a 1" x 2" brace and toe plate around the recess opening as shown.

NOTE: A 5" diameter opening in the floor should be provided to permit clearance for drain connection. Locate dimensions shown in Fig. #3.



CAUTION: Make sure that the unit is within the installation area before final framing is completed. THE UNIT WILL NOT FIT THROUGH A STANDARD DOOR OPENING.

4. **FOR REPLACEMENT INSTALLATIONS,** check flooring under bath and repair if necessary.

5. **IF EXTRA GRAB BARS ARE SPECIFIED,** provide 2 x 6 bridging or attachment at specified positions. Refer to grab bar manufacturer's instructions.

MAKE SURE BOTH CONNECTIONS TO THE PUMP ARE SECURELY TIGHTENED.

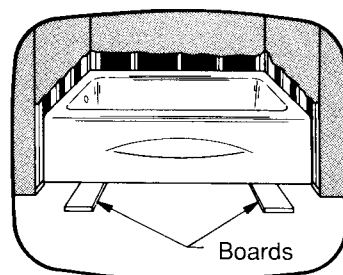
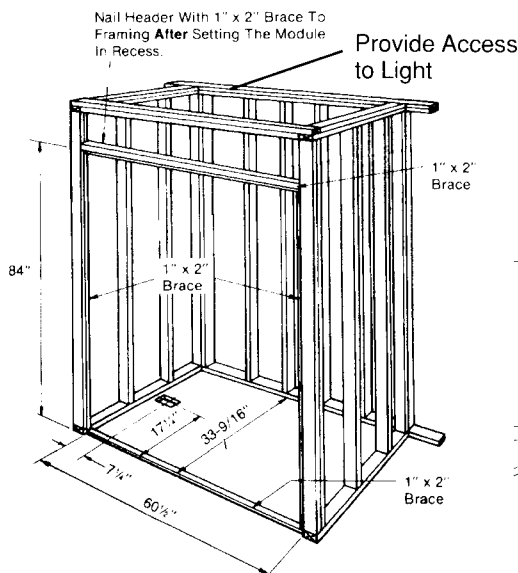


Fig. #2



NOTE: Provide access for steam generator.

Fig. #3

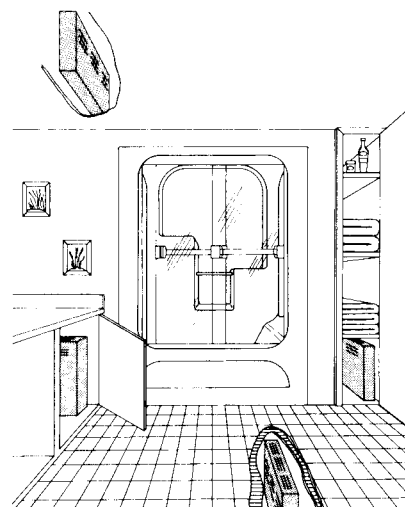


Fig. #4

INSTALLING THE WHIRLPOOL



1. Layout the location of holes for supply or mixing valves on the back of unit. Drill a 1/4" diameter pilot hole at each location marking for the fittings.

Refer to Fig. #5.

2. **Refer to Fig. #6.** For multiple installations where supply fittings are accurately located during rough plumbing, a template made of lightweight plywood and containing all pilot holes can be used to locate holes on the back of this unit.

3. **Refer to Fig. #7.** Drill holes required to size using a hole cutting saw FROM THE FINISHED FACE OF THE UNIT.

4. Install 1" x 4" board to unit sides as shown using screws. Holes are pre-drilled for screws. Clean bath recess thoroughly. Slide unit into recess. Be careful not to damage unit. **Refer to Fig. #8.**

5. **Refer to Fig. #9.** Plumb unit in two directions as shown. Shim if necessary. Make sure that the bottom of the unit is firmly supported against floor. Use shims if necessary. **NO ADDITIONAL SUPPORT IS NECESSARY.**

CAUTION: WHEN MOVING THE UNIT, DO NOT FLEX OR DAMAGE MAY OCCUR.

6. Attach unit to 1 x 2 brace and toe plate previously installed around the rough opening of the recess.

7. **Refer to Fig. #9.** Use #6 large head galvanized nails or #8 x 1" sheet metal screws across the top, bottom, and up both sides.

8. **Refer to Fig. #10.** Strap supply connections and finish connections on drain. Provide an access for future maintenance of plumbing.

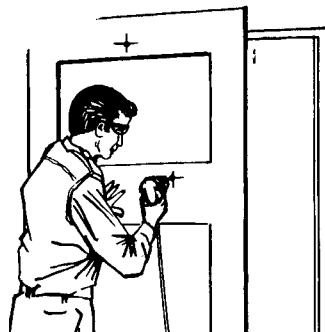


Fig. #5

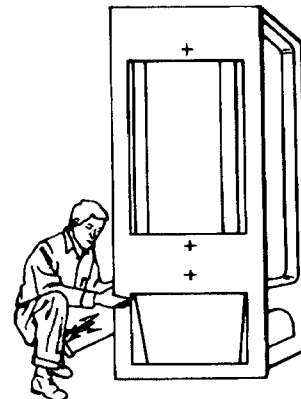


Fig. #6

Nail Header with 1" x 2" Brace to framing after setting module in recess

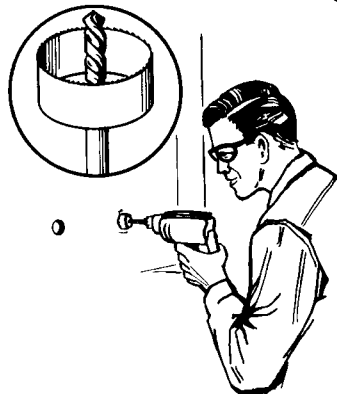


Fig. #7

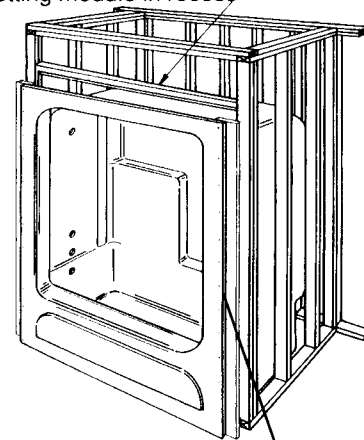


Fig. #8 Screw 1" X 4" Board Into Each Side Flange Using Holes Provided

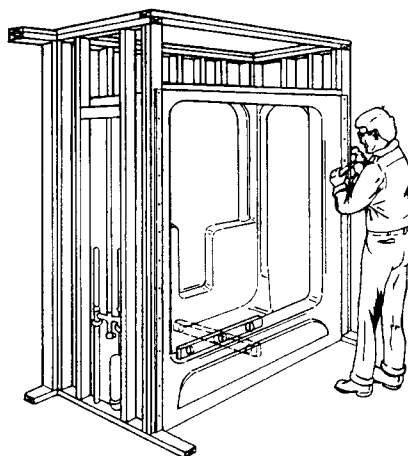


Fig. #9

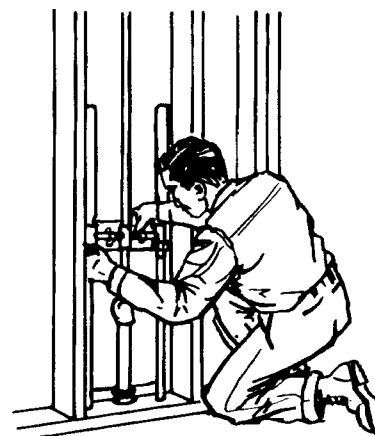
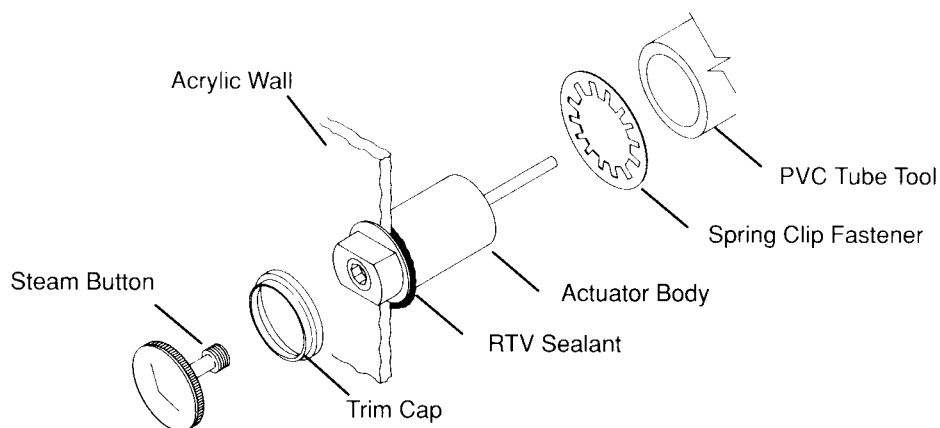


Fig. #10

INSTALLING THE AIR SWITCH ACTUATOR



IMPORTANT: YOU MAY INSTALL THE STEAM GENERATOR ON/OFF AIR SWITCH BEFORE THE UNIT IS SLID INTO THE RECESS. MAKE SURE THE AIR SWITCH DOES NOT INTERFERE WITH ANY STUDDING. IT MAY BE NECESSARY TO PROVIDE AN ACCESS TO INSTALL THE ACTUATOR AFTER THE MODULE IS NAILED IN. READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. **Refer to figure above.** Insert actuator body through the pre-drilled hole from the inside of the module.
2. Apply a small amount of RTV sealant to the back side of the hole. Slip the spring clip fastener onto the rear portion of the actuator body. Use the PVC tube tool (provided) to force the fastener snugly against the back side of the module.
3. Push the trim cap onto the actuator body from the inside of the module.

4. Insert and thread the steam button into the actuator body until it is hand tight.



CAUTION: Before enclosing module, make sure the tube from the actuator is on tightly. also make sure the other end of the tube is accessible for final connection to the steam generator. Access should be provided to actuator knob if service is required.

ELECTRICAL CONNECTIONS – WHIRLPOOL



A licensed electrician should make all field wiring connections.



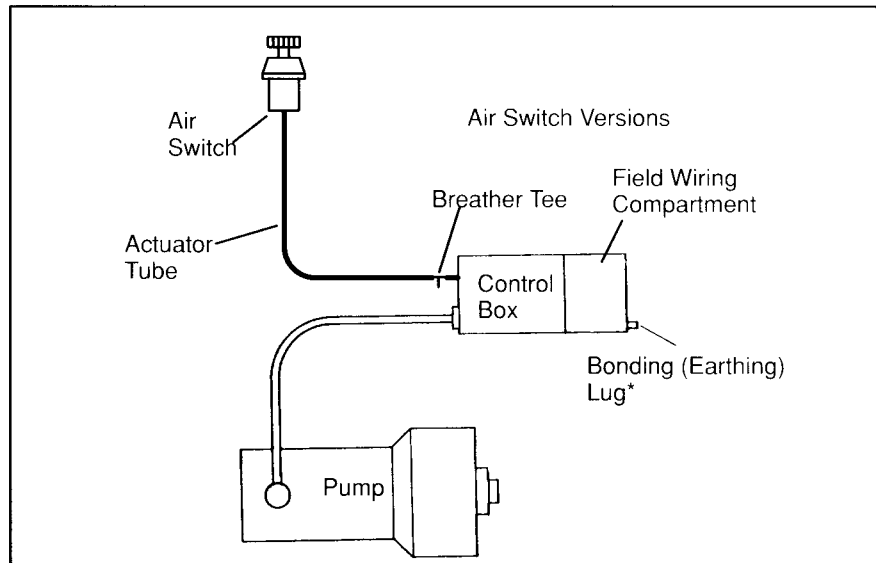
WARNING

RISK OF ELECTRICAL SHOCK! Make sure the power has been disconnected before performing the following procedures. Refer to **IMPORTANT SAFETY INSTRUCTIONS**.

1. Refer to Figs. #11, and #12. The whirlpool controls and system have been prewired at the factory. A licensed electrician should make a routine service connection to the field wiring compartment of the control box containing black and white wires and ground lug.
2. Provide a separate equipment grounding conductor for the inside grounding lug. Ground **MUST NOT** be connected to any current-carrying conductor except at the main service breaker box (per National Electrical Code, Article 250-61-b). A 120V 15 A separate circuit is required.

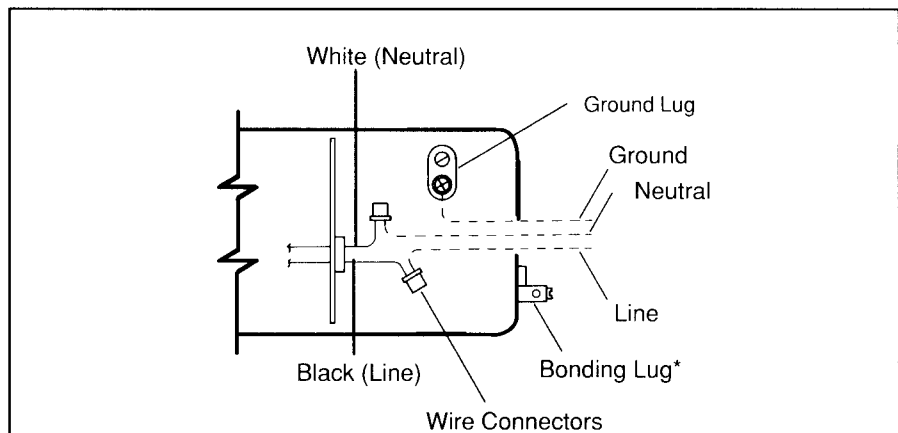


CAUTION: All services must have a Class A Ground-Fault Circuit-Interrupter (GFCI) which will provide additional protection against line-to-ground shock hazard. A separate service is required for the whirlpool.



Whirlpool without heater

Fig. #11



Field Wiring Detail 120 V, 60 Hz Whirlpool

Fig. #12

* For bonding in accordance with National and Local Codes

STEAM BATH GENERATOR INSTALLATION



General Information

Kohler steam generators are for permanent installation and electrical connection. The generators come completely assembled, tested, and inspected ready for installation.

IMPORTANT: The pressure relief valve is shipped inside the steam generator cover. Remove the four sheet metal screws on the front cover. Remove the front cover being careful not to disturb any wires. Take out the pressure relief valve and put it in a safe place. Replace the cover and fasten with the same four screws.

All wiring should be performed by a qualified licensed electrical contractor and the plumbing by a competent mechanical contractor. It is important that the proper size generator is used. Your steam bath or shower has been sized by Kohler Co. at the factory for optimal performance. **For further specifications, refer to ELECTRICAL INFORMATION CHART in these instructions.**

Room Preparation

The Kohler steam generator is to be used with your Sonata Bath or whirlpool module that is specifically designed as a steam room. The gap between the doors should be sealed with the door seal included with your module. The

door seal is affixed against the shower door frame inside your module and is also available as Kohler service part #67968. **A room exhaust fan is recommended to help remove excess steam from the bathroom.**

Mounting the Generator

1. The Kohler steam generator can be located almost anywhere that is convenient and accessible for servicing. It is recommended that the steam generator be not more than 10 feet from the steam room. The area selected should be dry and ventilated to ensure maximum longevity of the equipment. Some suggested locations are under the vanity, in a closet, in the attic, in the basement, etc. **Refer to Fig. #3.**
2. Attach the Kohler steam generator to the wall with round head sheet metal screws.

IMPORTANT: The unit will not operate properly unless it is mounted in an upright position and perfectly level.

ALL PLUMBING SHOULD BE PERFORMED BY A QUALIFIED PLUMBING CONTRACTOR.

Plumbing Installation

1. **Refer to Fig. #23.** Run a 1/4" copper water line between the nearest water line (preferably hot) and the water intake fitting on the steam generator. For best performance, provide a

shut-off valve and filter located close to the generator. The generator has a 1/4" compression fitting to accommodate the 1/4" copper tubing. When tightening this fitting, use two wrenches to prevent strain on the water intake solenoid valve.

2. The steam head has been pre-installed at the factory and requires a 1/2" copper steam line from the generator to the module. **DO NOT INSTALL A SHUT-OFF VALVE ON THIS LINE.** It is suggested that the steam generator be installed at a level slightly lower than the steam head to ensure proper operation. Install a union close to the generator so that the unit will be easy to remove if it requires servicing. Insulate the copper tubing if the steam line is in an area where the temperature is more than 10 feet away from the module.

IMPORTANT: Flush water supplyline before final hook-up.

Electrical Connections

All wiring should be installed by a qualified electrical contractor. The installation must be protected with a Class A Ground Fault Circuit Interrupter (GFCI).

1. Provide a supply circuit of the size and type as indicated in the chart below. Attach the supply line to the generator through the knock out provided on the upper left side of the generator.

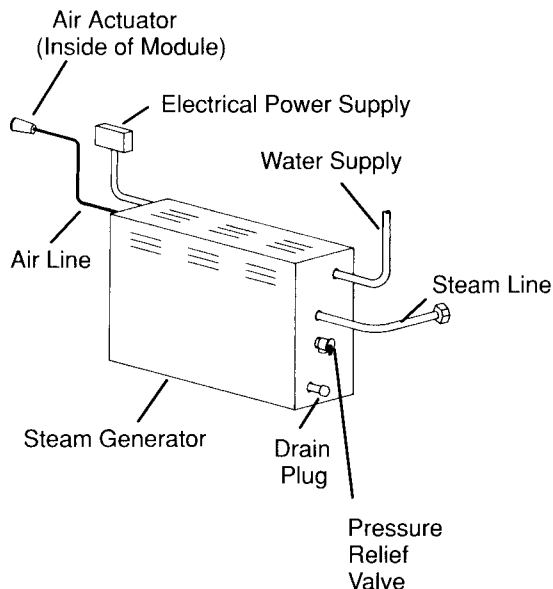


Fig. #13

ELECTRICAL INFORMATION CHART

Steam Generator No.	A.C. Voltage	Phase	Watts	Amps	Minimum Supply Wire (Copper)
67992	240	1	2000	9	14 AWG
67996	240	1	4000	17	10 AWG
67997	240	1	5000	21	10 AWG

STEAM GENERATOR HEAT UP TIMES

Model	Steam Generator No.	Approx. Time to See Steam	Approx. Time for Unit to Fill with Steam
36" Shower	67992	15 Minutes	30 Minutes
48" Shower	67996	9 Minutes	20 Minutes
60" Bath/ Shower	67997	7 Minutes	15 Minutes

STEAM BATH GENERATOR INSTALLATION CONT'D

Make connections to the terminal block L1 and L2. Provide ground wire according to electrical codes.

2. A self controlled, 20 minute timer is incorporated into the steam generator. Make the connection from the generator to the air actuator with the air line included with the steam module. Cut this tube to length for your particular installation.

Wiring Instructions – All Models

1. Refer to Fig. #15. Provide a 240 volt, 1 phase power circuit. Use copper wire suitable for at least 75. C.

NOTE: GROUND STEAM GENERATOR AS REQUIRED BY GOVERNING CODES.

2. Make sure to attach air line to generator at the hose barb fitting. Run this line to the air actuator mounted on the steam module. Cut to length if necessary.

Optional Tank Flushing System Installation

1. Refer to Fig. #14. This optional system is used to flush all sediments out of the tank. This hook-up should be used in all commercial applications and in residential installations that have higher than normal water sediments.

2. Remove the 1/2" cap from the lowest nipple on the steam generator. Attach a 1/2" ball valve (not supplied) and install an exit pipe to a drain **as shown in Fig. #14.**

3. To flush system, turn on the generator and open the ball valve. The unit will drain, but the elements will not engage. After 15 minutes, close the valve. The unit is now flushed and ready for operation.

Operating Instructions

BEFORE USING THE STEAM BATH BE SURE THAT BOTH THE POWER CIRCUIT TO THE GENERATOR AND THE WATER SUPPLY ARE ON.

FOR YOUR SAFETY, KOHLER STEAM UNITS FEATURE A STEAM ACTUATOR WITH A 20-MINUTE TIMER. DEPENDING UPON CONDITIONS, IT MAY BE NECESSARY TO PRESS THE STEAM ACTUATOR MORE THAN ONCE TO PRE-HEAT THE UNIT ON INITIAL START-UP. IF YOUR UNIT IS NOT HOT ENOUGH AFTER 20 MINUTES, SIMPLY PRESS THE BUTTON AGAIN FOR FULL STEAM CAPABILITY.

1. Push the air actuator button inside the module. The module should be filled with steam vapor within minutes. The self-contained timer limits operation to 20 minutes. Push the steam button

during operation to shut the unit off. Push the steam button again to reset the timer and resume another 20 minutes of operation.

2. Enter the module and close the door securely to prevent steam from escaping. Be careful to avoid the area close to the steam head as it is hot! If the steam has entered the module, push the steam button and wait.

3. If your module has a showerhead, you can enjoy an invigorating experience by taking a warm shower while in the steam.

NOTE: The self-contained timer controls the 20 minute maximum time that the generator will operate. However, you can turn the timer control off at any time during your steam bath by pressing the steam button before the automatic timer shuts the generator off.

4. After the steam bath a WARM shower will relax you before retiring. Conversely, a COLD shower taken after a steam bath will refresh you.

5. To remove steam from your bathroom after a steam bath, turn on the cold water. Cold spray will quickly condense the steam mist and turn it into water.

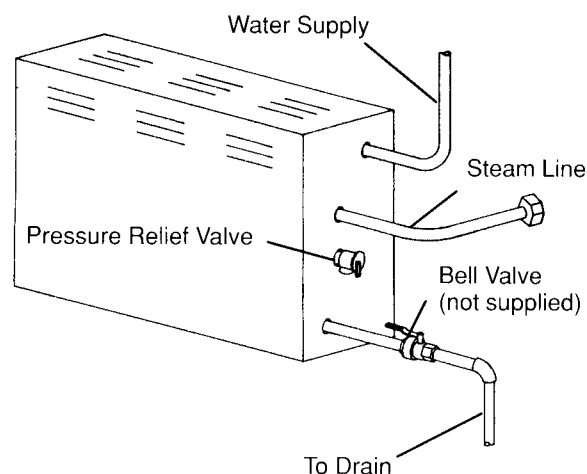


Fig. #14

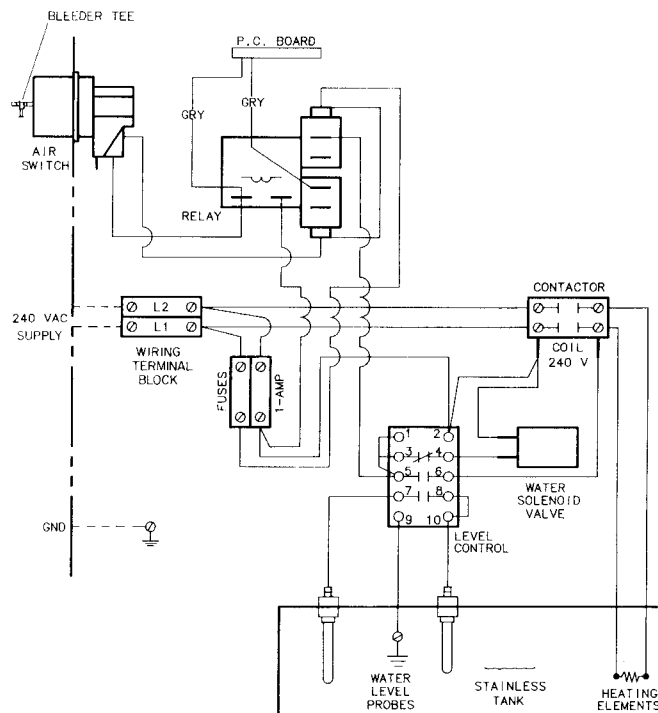
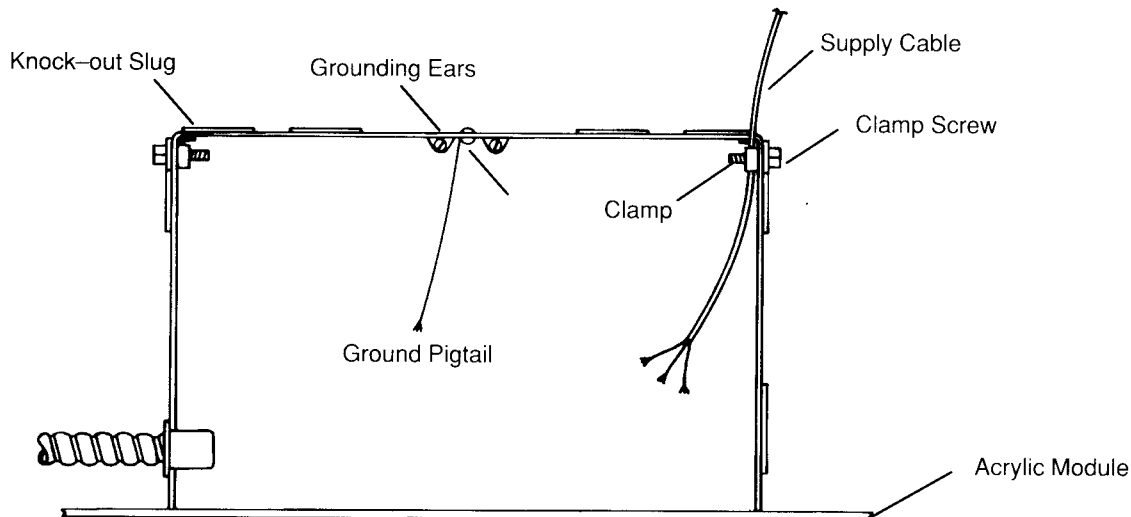


Fig. #15

LIGHT FIXTURE ELECTRICAL CONNECTIONS



The light fixture has been factory installed to the unit. Electrical connections should be made by a licensed electrician. The light fixture does not need a separate circuit but must be protected by a Class A Ground-Fault Circuit-Interrupter (GFCI). Read the instructions in this section carefully to connect the light fixture.

National Electrical Code Requirements

WARNING

FIRE HAZARD: Recessed portions of housing, other than at points of support shall be placed at least 1/2" from combustible material. Thermal insulation shall not be installed within 3 inches of the recessed housing, junction box, or ballast. Do not install insulation above the fixture, as to en-

trap heat, and prevent the free circulation of air.

2. Underwriter's Laboratories and National Electrical code requirements: Do not use a light bulb exceeding 60 watts.
3. Use of this lighting fixture with dimmers, timing controls, energy saving devices, special security switching, and other devices could create a safety hazard. Obtain professional advice prior to using this lighting fixture with other devices.

 **CAUTION:** Read instructions carefully and turn electricity off at main fuse box before beginning installation.

3. Remove cover plate from junction box. Remove one small knockout slug in top of box at either end. Loosen clamp screw and insert non-me-

tallic cable down between clamp and junction box. Tighten clamp screw, to secure cable. Connect ground wire to pigtail, inside top of junction box, or with a #8-32 nut and bolt to grounding ear inside of box. Connect white fixture wire to white supply wire. Connect black fixture wire to black supply wire. Use U.L. listed wirenuts to make connections. Replace cover plate.

8. From inside the unit, install light bulbs (60 watts or smaller) and diffuser.

IMPORTANT: Be sure to install diffuser gasket provided. It prevents water spray from entering fixture.

IMPORTANT: Light fixture must be protected by a class A Ground-Fault Circuit Interrupter. Electrical installation should be done by a licensed electrician

FRAMING AND INSTALLING FINISH WALL MATERIAL



1. To prevent damage, protect the inside of the bath. **CONSTRUCTION DAMAGE IS NOT COVERED UNDER WARRANTY!**

2. Refer to Fig. # 16 and #17. Install drywall as shown for either flush or recessed installation. **For flush installations**, install drywall around bath as shown in Fig. # 16 to hide the edge of module. Trim should also be installed along the bottom apron edge of the bath. **For recessed installations**, install drywall around the bath as shown in Fig. # 17 hide the edge of the module.

IMPORTANT: BEFORE COVERING THE FRAMING, PERFORM THE FOLLOWING: Open hot and cold valves and check all supply connections for leaks. Fill the bath to the overflow and check overflow and drain connections for leaks. Operate whirlpool for 5 minutes and check all connections.

3. Mud tape, and finish drywall. Caulk all openings around valves and outlets with plumber's putty.
5. Install all finished faucet and drain trim according to manufacturer's instructions. Any extra grab bars or towek bars can now be installed through the module walls and fastened in place directly to bridging previously installed. Screws, bolts, and backing should be selected to properly secure the grab bars. Follow manufacturer's directions.
6. Grab bars can also be installed directly to the module, providing the proper fastening device is selected to securely attach the bar to the unit. Manufacturer's suggestions concerning grab bar installation must be carefully followed.
6. Shower rod should now be installed above the unit and positioned so that the shower curtain hangs inside of the bath.

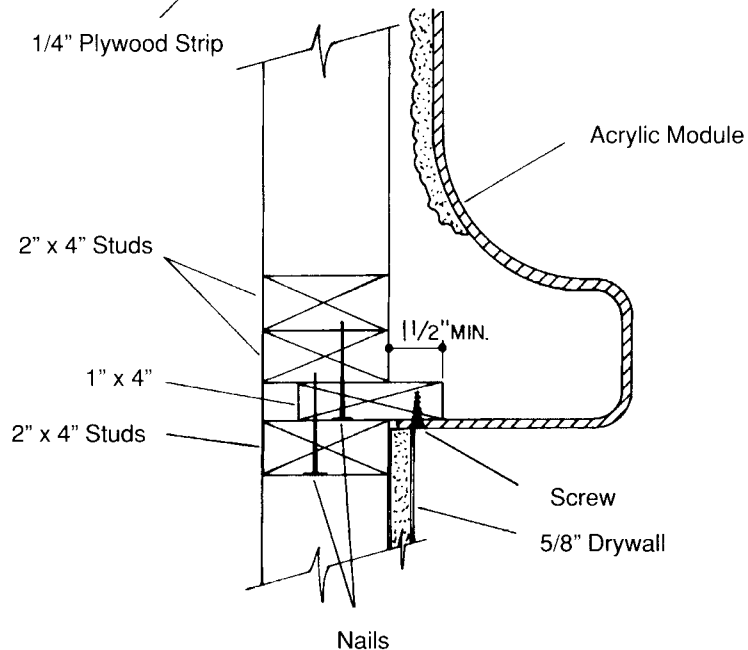
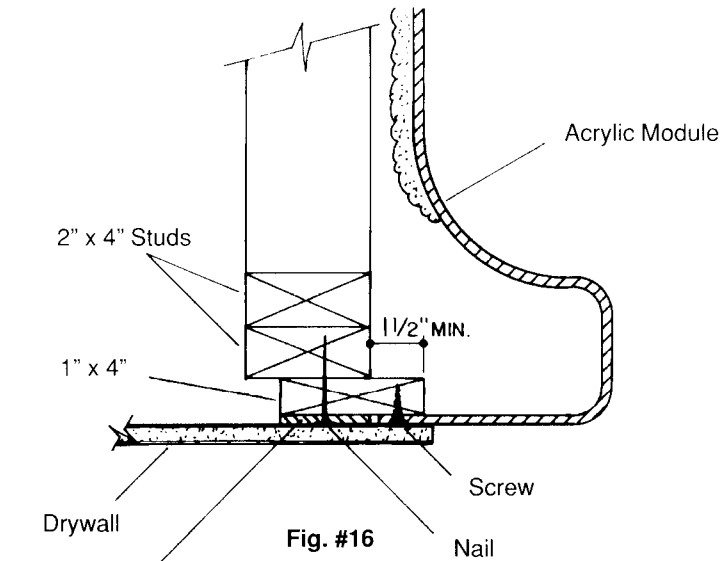
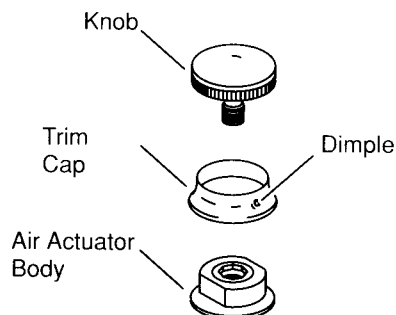


Fig. #17

INSTALLING THE TRIM KIT

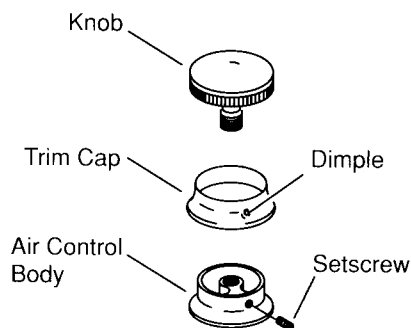


1. AIR ACTUATOR CONTROL Refer to Fig. #18. Place ring of silicone sealant around base of air actuator body. Install trim cap over air actuator body to the bath surface. The sealant should form a seal between the rim cap and bath surface. Wipe of any excess sealant. Screw knob into air actuator body until hand-tight.



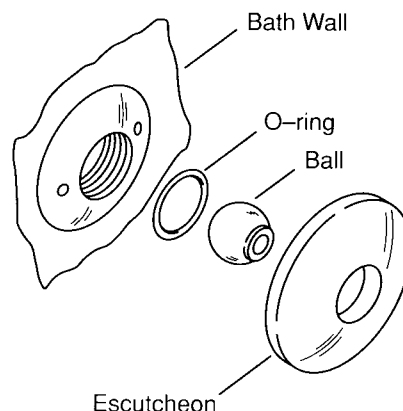
**Air Actuator Control
Fig. #18**

2. AIR ASPIRATOR VALVE. Refer to Fig. #19. Screw setscrew into air control body, leaving several threads exposed. Place trim cap loosely over air control body. DO NOT press down on trim cap. Screw knob into air control body about eight turns. Carefully tighten setscrew until it bottoms, then back it off 1/4 turn. Check knob for proper installation by turning it counterclockwise until it stops. The knob should NOT unscrew from air control body. If knob does unscrew repeat procedure again, increasing number of turns in by 1/2-turn for each time the steps are repeated, until the knob no longer unscrews from the body. Line up dimple in trim cap with setscrew hole in air control body. Carefully push trim cap onto air control body.



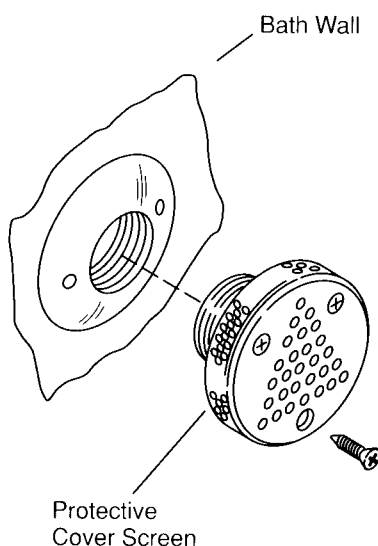
**Air Aspirator Valve
Fig. #19**

3. WHIRLPOOL JET ASSEMBLY: Refer to Fig. #20. Insert rubber O-ring into jet housing in bath wall. With the larger diameter hole of the adjustable ball facing the jet housing, insert the ball into the housing. Screw escutcheon plate over ball into the jet housing until hand-tight. **DO NOT OVERTIGHTEN.** Repeat above steps for each of the remaining jets.



**Whirlpool Jet Assembly
Fig. #20**

4. WATER SUCTION INLET: Refer to Fig. #21. Screw protective cover screen into water suction inlet housing until hand-tight. **DO NOT OVERTIGHTEN.** Tighten one long screw on cover. Should cover require removal, this screw **MUST** be removed before cover is removed.



**Water Suction Inlet
Fig. #21**

INSTALLING THE SHOWER DOOR



Shower doors are standard equipment for this steam unit. The frame has been installed at the factory and only the glass panels and towel bars need to be added. If you are adding the optional K-9894 accent strips in the header and towel bars, loosen the screws holding the frames in place, insert the accent strip and retighten the screws. Apply a bead of RTV should be applied around the inside perimeter of the door frames. Apply a bead of RTV around the inside perimeter of door frames. Follow the instructions below for shower door installation:

1. Designer glass panels should be installed so the pattern faces the inside. Attach hanger brackets (A) 1-1/2" from both edges of the glass on the interior panel and the exterior panel #6-32 x 1/2" round head screws (D) as shown in Fig. #22. Mount the rollers (B) in the center of the brackets slot using a #8 x 3/8" hex head screw (E). Note the opposite directions of the hanger brackets, forming exterior and interior doors. Lift the interior panel into position with the rollers engaging the roller slot in the header. Repeat for the exterior panel.
2. If panels are not parallel to the wall jams, remove the panels and adjust the rollers (B) up or down to compensate (Refer to Fig. #23). Install the guide (G) with a #6 x 1/2" pan head screw (F) onto the curb as shown in Fig. #40.
3. Press a trim ring (K) over the base of each of the four acrylic towel bar brackets (J) and attach to the towel bar clamps (L) using two #10-24 x 1/2" flat head screws (M) as illustrated in Fig. #24. Force a towel bar into one of the brackets. At the center of the exterior panel press the clamp (with towel bar attached) and the rubber pad (T) over the glass. Install the remaining clamp, locking the towel bar into place between the two brackets.
4. Position the interior panel closest to the showerhead to ensure maximum watertight integrity. Attach the remaining towel bar assembly to the interior door.
5. Refer to Fig. #25. Caulk the ends of curb and interior of the wall jams. Also caulk the interior of the curb.

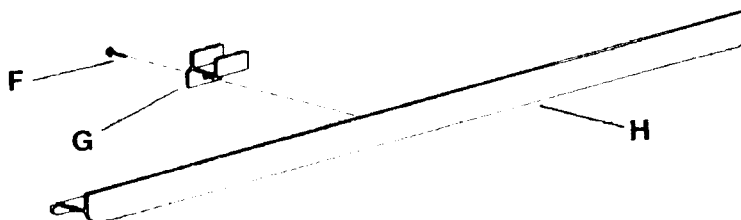


Fig. #22

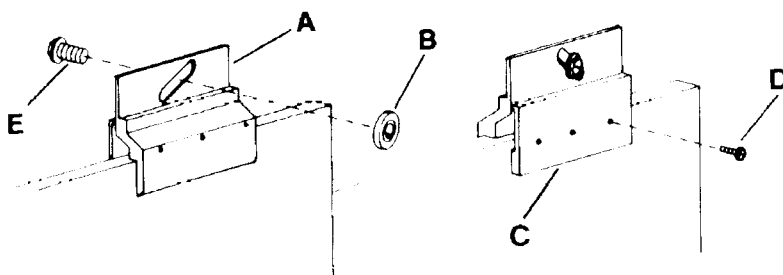


Fig. #23

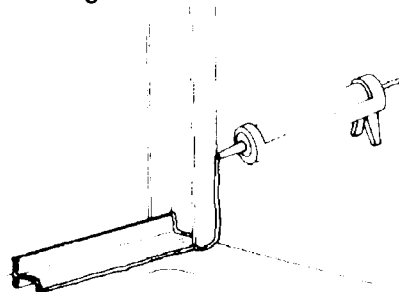


Fig. #24

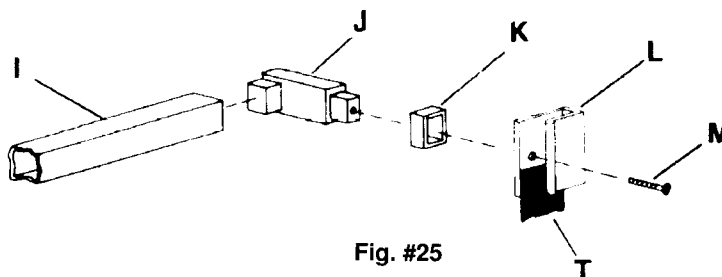


Fig. #25

DOOR SEAL INSTALLATION



1. Refer to Fig. #26. TO PREVENT STEAM FROM ESCAPING BETWEEN THE GLASS PANELS, A DOOR SEAL HAS BEEN INCLUDED WITH YOUR STEAM MODULE. Measure and cut the seal to fit your installation. The seal should run the full length of the glass panel. Cut the seal in two pieces to accommodate the towel bars.

2. Install the seal on the edge of the inner door so that the flexible wiper touches the glass panel on the outside track. Carefully push seal onto the glass edge, tapping very lightly with rubber mallet if necessary

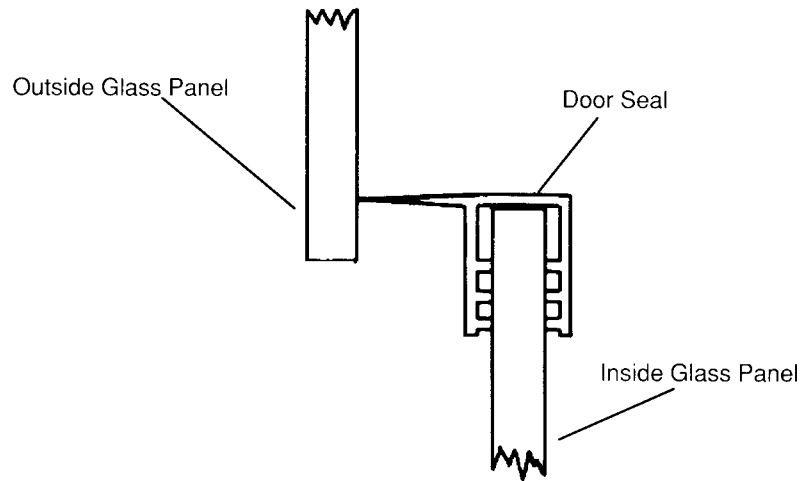


Fig. #26

CLEAN-UP AFTER INSTALLATION



When cleaning up after installation, **DO NOT USE ABRASIVE CLEANERS** as they may scratch and dull the unit surface. Use warm water and one of the liquid detergents 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 TEAK 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. One of the powder-type detergents may be used on a damp cloth to provide mild abrasive action to the residual plaster

