

# **Installation Guide**

## **安装说明**

### **Whirlpool**

#### **按摩浴缸**

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上海市奉贤区民乐路368号 邮编：201419

## Important Information

- ❑ Observe all local pumping, building and electrical codes.
- ❑ 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.
- ❑ All information is based on the latest product information available at the time of publication. Kohler China Ltd. reserves the right to make changes in product characteristics, packaging, or availability at any time without notice.
- ❑ These instructions contain important care, cleaning, and warranty information-**please leave these instructions for the consumer.**
- ❑ Please provide adequate available space for the bath unit in accordance with rough-in. Arrange the location of drain in advance.
- ❑ Reserve room for access panel. Access panel should be set the bath end that adjoins the pump. Lack of access panel will void the warranty. Provide sufficient ventilation around the access panel to ensure heat dissipation of motor. **NOTE: Preserved channel shall not provide restriction to service and maintenance.**
- ❑ Uncrate and inspect bath for damage. Leave all materials in carton prior to fixture construction to prevent damage or component from missing.
- ❑ Warranty does not cover damage to bath caused in transit or installation.
- ❑ All installations must comply with council and local authority by-laws. It is the responsibility of the installer to ensure that the waste is made watertight by means of silicone sealant or caulking compound.
- ❑ Installer Hazard Notification: Cast iron baths are extremely heavy. Wear appropriate safety equipment when installing these products. Risk of personal injury.

## Important

Powering on the whirlpool system can flush the piping. We suggest flushing your whirlpool system twice a month or more depending upon usage.


- ❑ **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 China Limited.
- ❑ Keep small objects such as bath toys and bathing accessories out of the whirlpool while the pump is operating.
- ❑ **NOTE:** Whirlpool action can cause even a small amount of bubble bath, bath soap, shampoo, or bath oil to foam excessively. For this reason, refrain from using these products during the whirlpool cycle.
- ❑ **NOTE:** Do not use heavy, vegetable-based shampoos or bath oils.



### **DANGER: Risk of injury.**

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 include an increase in the internal body temperature, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include

- failure to perceive heat,
- failure to recognize the need to exit the bath,
- unawareness of impending hazard,
- fetal damage in pregnant woman,
- physical inability to exit the bath, and
- unconsciousness resulting in the danger of drowning.

 **WARNING:** The use of alcohol, drugs, or other medication can greatly increase the risk of fetal hyperthermia.

 **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. Water temperature in the whirlpool should not exceed 40°C.

## Product Notices

### A. Installation Hazard Notification

- ❑ **Risk of fire, electric shock, or injury to Persons.** Read important safety instructions inside this instructions.
- ❑ **Risk of electrical shock.** A licensed electrician should make all electrical connections.
- ❑ **Risk of electrical shock.** Connect only to a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI) or Earth-Leakage Circuit-Breaker (ELCB).
- ❑ **Risk of electrical shock.** Disconnect power before servicing.
- ❑ **Risk of injury or property damage.** Please read all instructions thoroughly before beginning installation, including product information.

### B. Factory-Assembled Features

- ❑ **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 China shall not be liable under its warranty or otherwise for personal injury or damage caused by any such unauthorized.

### C. About Faucet

- ❑ If using a rim-mounted bath faucet, flexible connections between the valves and spout may be required. Confirm adequate mounting, connection space of specified faucet for your installation.
- ❑ Confirm adequate support for the faucet; large faucets may inadvertently used as a means of support .

### D. Electrical Connection

- ❑ The installation must have a GFCI. The GFCI protects against Line-to-Ground shock hazard. Use a dedicated service for the whirlpool, for power supply parameters, please refer to the roughing-in.
- ❑ 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.

### E. Installation Requirement

- ❑ Read the entire installation instruction before beginning the installation.

## Installation Requirements

### A. Tools Required

- Adjustable pipe wrench
- Rule
- Level
- Safety shoes
- Safety glasses
- Square
- Pliers
- Utility knife
- Pencil
- Blade screwdriver
- Phillips screwdriver

### B. Materials Required

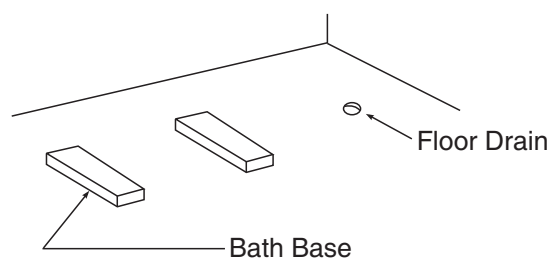
- Plumbers putty
- Wall coverings, as necessary
- Silicone sealant
- Gypsum cement (optional)
- Construction adhesive (optional)
- Protective covering for bathtub
- Nails

## Before You Begin

### A. Subfloor Preparation

Check the flooring under the bath. **Make sure the subfloor is level. It is strongly recommended to prepare waterproof layer for the subfloor!** Make sure the floor will support the combined weight of the bath, water and two bathers.

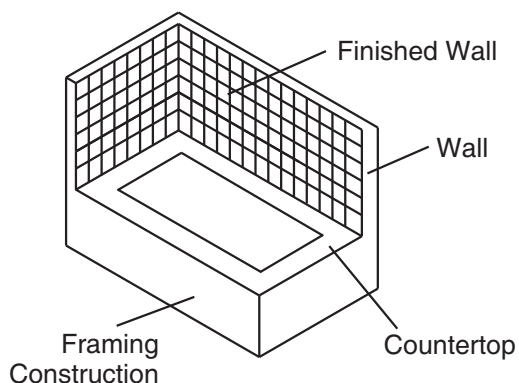
**It is strongly recommended to construct bath base depending on the feet position of your bath. The base height shall depend on the chosen drain.**



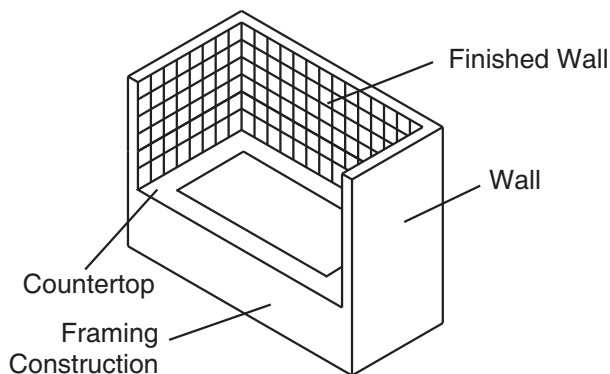
### B. Bath Area Construction Preparation

Possible framing arrangements are illustrated below. Use the framing construction appropriate for your particular bath model. Some modifications may be needed for other types of construction, if preferred. Make sure you allow for access to the pump in the event the unit requires service. The construction should allow the thickness of the sub and finish wall materials.

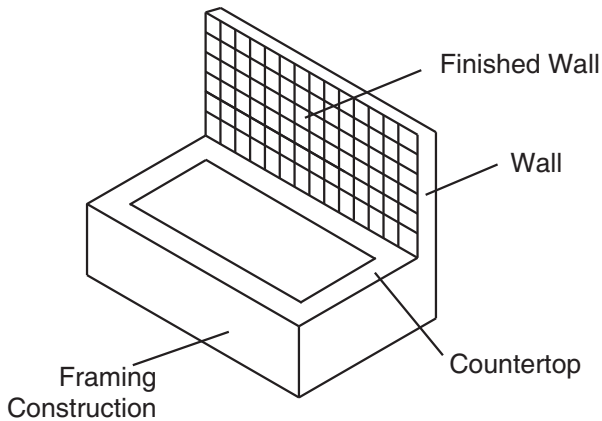
#### 1). Corner Installation



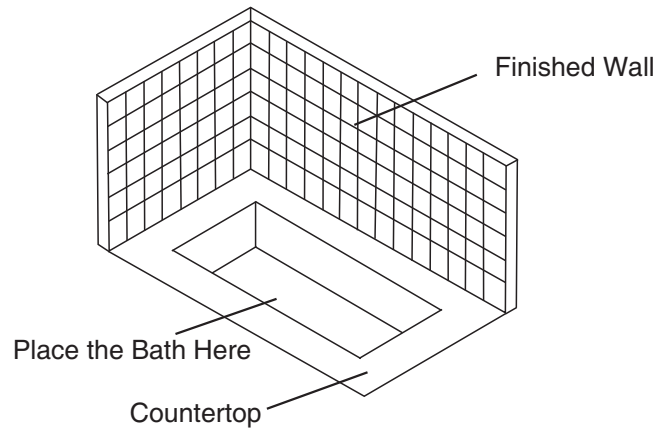
#### 2). Recessed Installation



### 3). Peninsular Installation



### 4). Sunken Installation



## C. Countertop Preparation

Prepare the countertop as per bath outline. Which defines the required dimensions.

## D. Plumbing Preparation

Position inlet supplies and outlet supplies according to rough-in dimensions. Cap the supplies and check for leaks.

## E. Check Massage System of Whirlpool

Plug in bath drain to shut it off. Fill water into the bath until the waterline reaches the height of 25 mm above the highest jet. Wait for a while to check all connections and plumbing for leaks.

## F. Other Preliminary Work

### F1. Acrylic Whirlpool

**NOTE:** The protective film must be removed from around the waste outlet, overflow and water fender prior to installation in order to make a watertight seal at these points possible.

**NOTE:** Position a protective covering or similar material in the bottom of the unit. Be careful not to scratch the bath surface.

**DRILLING:** Small holes can be drilled with a twist drill, but the cutting edge **MUST** be backed off with an oil stone (the sharp edge dulled). Large holes must be drilled with a hole saw. Maximum drill size-12mm. Drill speeds-6mm x 1800 RPM-12 mm x 900 RPM.


**NOTE:** Always drill from acrylic surface.

**CUTTING:** If for any reason the acrylic requires cutting, use a fine tooth hacksaw and proceed with caution. Edges can be smoothed with a second-cut file and medium-fine sandpaper. If the surface of the acrylic should happen to be damaged, it can be restored by polishing with an abrasive cleaner. Deep scratches can be removed by rubbing with 600 grade wet & dry.

## F2. Cast Iron Whirlpool

### Before Installing Unit

#### F2.1 The following installation practices must be followed to avoid any potential damage to the enamel finish.

 **WARNING!!** Failure to follow the manufacturer's recommended installation method may result in damage to the enamel surface.

- ❑ Do not use sharp objects or metal tools when handling the bath, especially around the rim area.
- ❑ Use a clear protective plastic film over tub rim as well as the bottom of tub to safeguard from dirt and silicone during the installation process.
- ❑ For correct installation, bath rim should not come in direct contact with the walls and/or horizontal surfaces to avoid transmission of noise and vibration as well as potential cracks in the enamel finish.
- ❑ The necessary gap between bath rim and the wall is 2 mm horizontally and 4 mm vertically. Refer to figures 1, 2, and 3 above.
- ❑ Before placing setting-in the bath, apply a sanitary quality silicone filler on all surfaces to come in contact with the bath rim.
- ❑ Set the bath in its correct position.

UNIT: mm

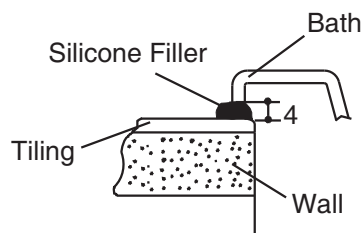


Fig.1

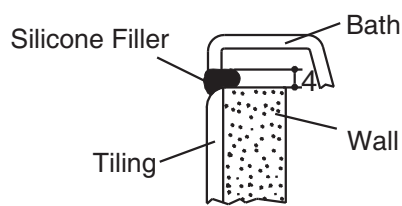


Fig.2

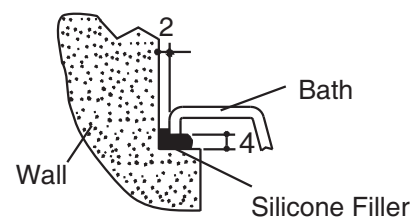


Fig.3

### G. Partially Install Bath Drain

Install the drain on the bath according to the drain manufacturer's instructions.

## Install Fixture and Accessories

### A. Accessory Installation

Please install such accessories (if any) as grip, drain, pillow or towel holder before bath installation. See separate accessory installation instructions for accurate method.

**NOTE:** Pipe access must be installed near pipe for future maintenance.

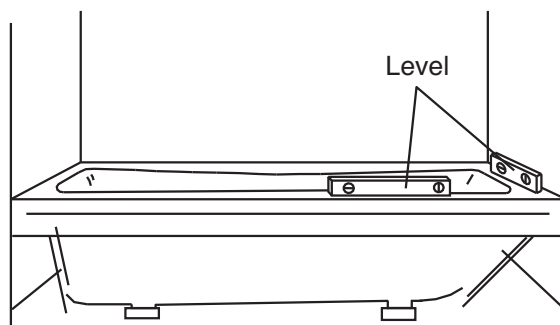
### B. Bath Set-In

**NOTE:** This part includes B1. Acrylic Whirlpool and B2. Cast Iron Whirlpool. Please choose the proper installation steps according to your whirlpool.

#### B1. Acrylic Whirlpool

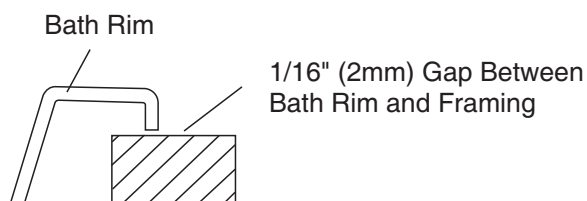
**NOTE:** Do not lift the bath by its plumbing, resting on all support feet.

**NOTE:** Apply a generous amount of fine construction mortar, or similar material, to the support feet and any shims used. Set the bath into the installation. Make sure the unit is horizontally and vertically level, and is resting on all support feet.



**NOTE:** Use adjustable feet (if any) to adjust the bath to level.

**⚠ WARNING:** Do not hang the bath by the rim. Bath rim is shown in the right figure.



#### B1.1 Install the Plumbing

**NOTE:** Avoid damage to the bath bottom and floor as much as possible. Make waterproof treatment to all outlet connections!

- 1). Install the faucet and fittings. Open the hot and cold water valves, and check the supply connections for leaks.

**NOTE:** An access panel will simplify future maintenance.

2). When the bath is securely positioned, connect the drain to the trap. See Fig. A. B. C. D

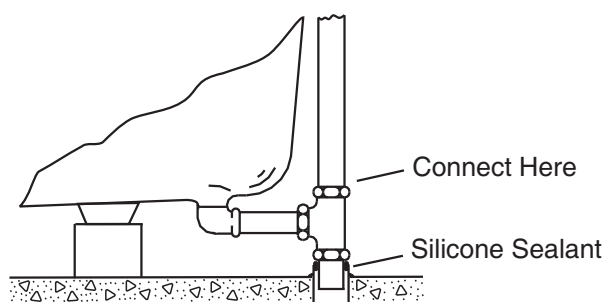


Fig.#A

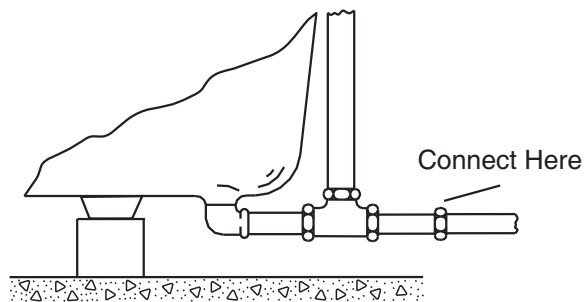


Fig.#B

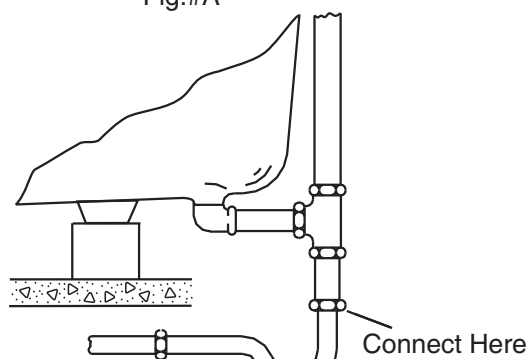


Fig.#C

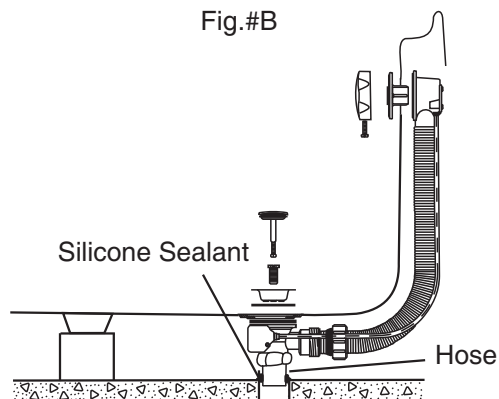
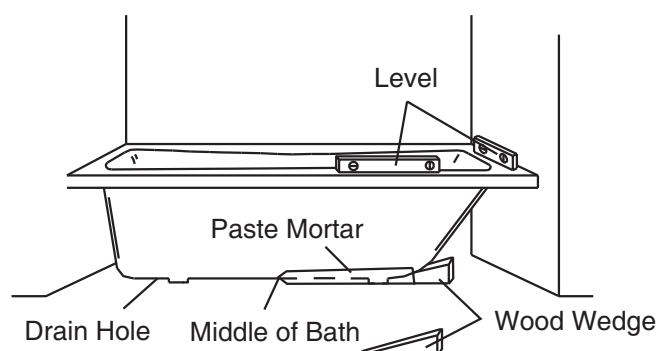


Fig.#D

## B1.2 Through the Floor Drain Bath Installation

Slide the new bath into position to verify the drain location and the stud fit. Cut a minimum hole in the floor for the drain connection. The dimension of the rectangular hole should be big enough for future use and maintenance.



Use 25~30 Kg dry cement and sand mix. Add water to make a paste mortar. Remove the tub. Cover the installation area with the mortar starting from the middle of the tub as shown. The height of the mortar should reach the bottom of the tub.

**NOTE:** Do not clog the drain hole.

Place the tub onto the mortar.

Make sure that the bottom of the tub is pressed into mortar in order to secure the tub. Insert two wood wedges under the tub to support the weight of the tub until the mortar hardens. (Wedges will remain in the mortar.) Frequently check the level of the tub.



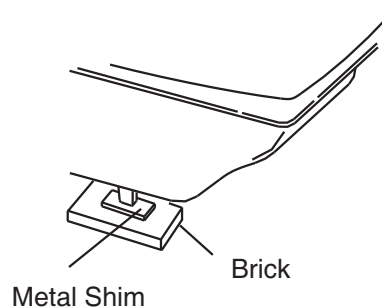
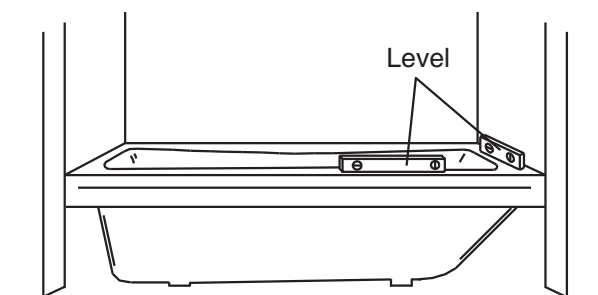
## B2. Cast Iron Whirlpool

### B2.1 Installation of Bath with Adjustable Height

Slide the new bath into position.

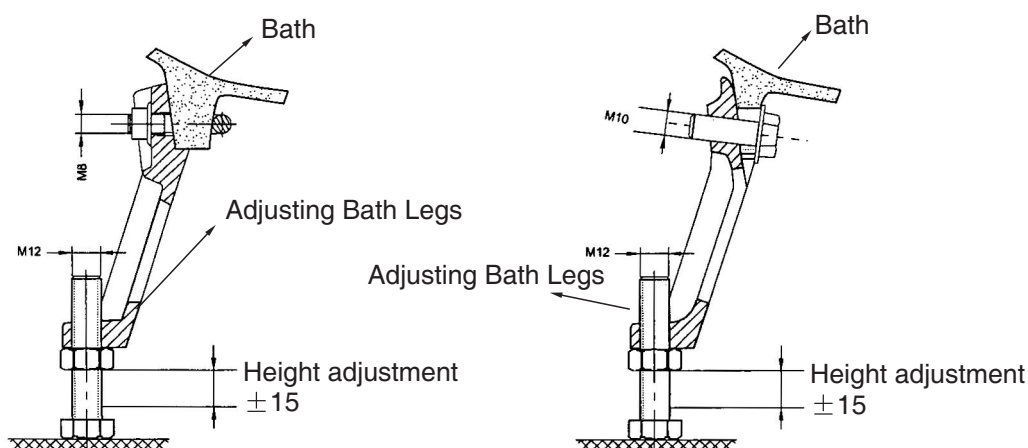
Level the bath by positioning metal shims and bricks under the bath feet and ensure there is enough space for the drain. Attention: the metal shims are necessary to avoid cracking of bricks. Check for level along the top of the side of the bath and across the drain end. The bath may have to be moved in and out of the recess area until it is shimmed properly, if the support feet are not accessible from the back or side.

Adjustable feet can also be used.



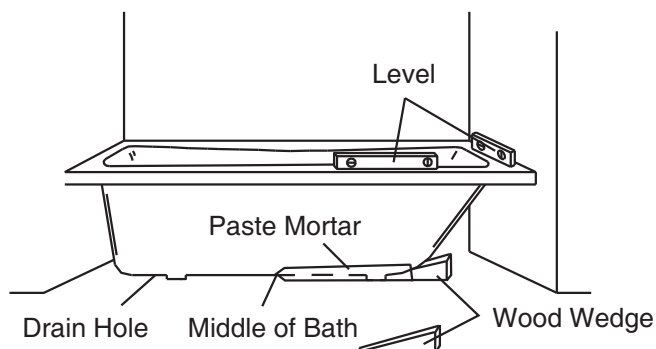
## B2.2 To Install Adjustable Feet

- Do not allow the feet or the trap to scrape the floor during installation, or you could damage the enamel.
- Adjustable legs keep proper level and height on all floors. The adjustment is  $\pm 15$ mm. Do not seal legs to the floor.
- Check for level along the top of the side of the bath and across the drain end.



## B2.3 Through the Floor Drain Bath Installation

Slide the new bath into position to verify the drain location and the stud fit. Cut a minimum hole in the floor for the drain connection. The dimension of the rectangular hole should be big enough for future use and maintenance.



Use 25~30 Kg dry cement and sand mix. Add water to make a paste mortar. Remove the tub. Cover the installation area with the mortar starting from the middle of the tub as shown. The height of the mortar should reach the bottom of the tub.

**NOTE:** Do not clog the drain hole.

Place the tub onto the mortar.

Make sure that the bottom of the tub is pressed into mortar in order to secure the tub. Insert two wood wedges under the tub to support the weight of the tub until the mortar hardens. (Wedges will remain in the mortar.) Frequently check the level of the tub.

## B2.4 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. See fig. A. B.C
- 2). Install the faucet and fittings. 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.

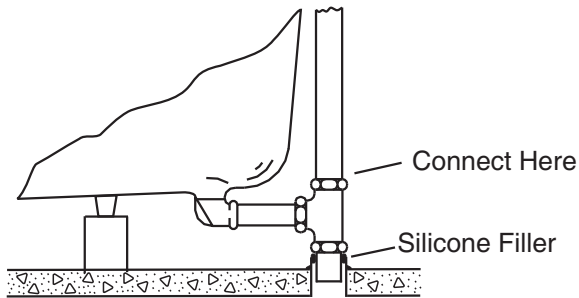


Fig.#A

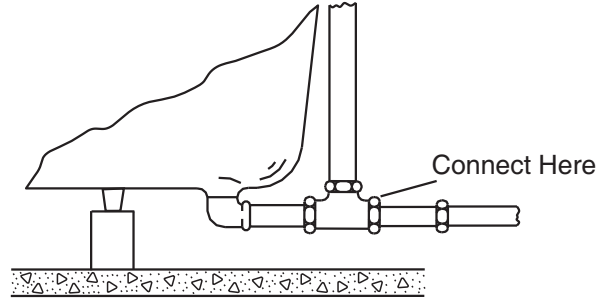


Fig.#B

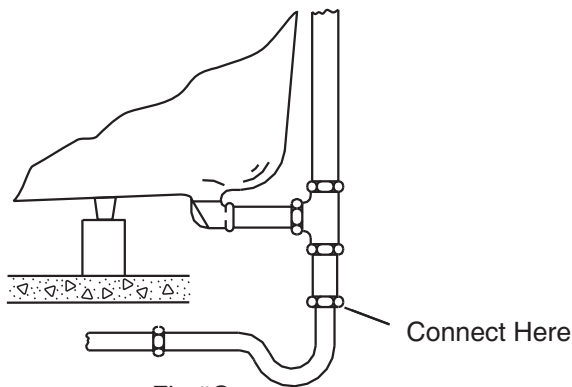


Fig.#C

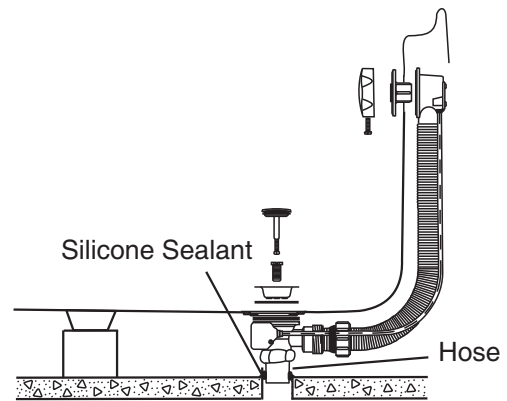
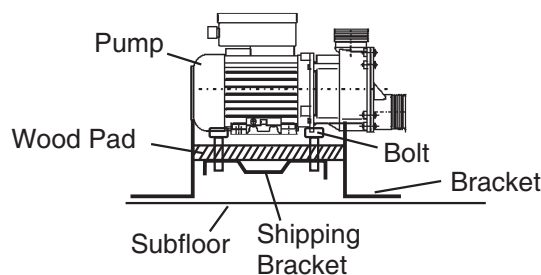


Fig.#D

## B2.5 Remove Fixing Bolts

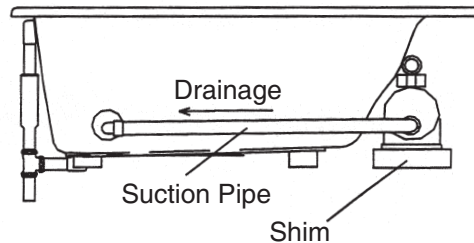
**NOTICE:** This step is necessary to make your Kohler whirlpool operate more quietly.

- 1) Remove the bolts on the bracket. These bolts secure the pump to the whirlpool- mounted shipping bracket. When the bolts and wood pad are removed, the pump base and pump will drop about 5mm until it rests upon the subfloor. If the pump drops more than 5mm, 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.

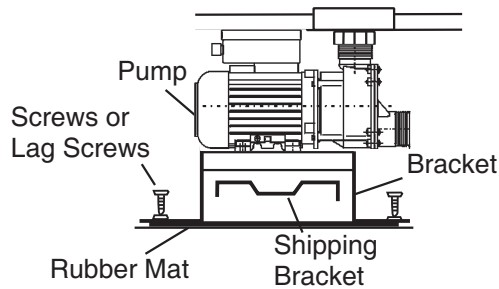


- 2) If the subfloor is level, no adjustment to the pump are necessary. Proceed to Step 3. If the subfloor is not level, slide plywood shims between the pump base and the subfloor, but only high enough to allow water to drain out the suction line when the bath is drained.

**NOTE:** Do not raise the pump higher than it was before you remove the bolts. If the pump is raised too high, it may not prime properly.



- 3) To minimize pump noise and vibration, **be sure the pump bracket is not in direct contact with the shipping bracket after the bolts are removed.** Secure the support bracket to the subfloor with screws and rubber mat (not provided).



### C. To Add Protection Layer

Cover the whirlpool with a layer of cloth or similar material. Take extreme care with operation to avoid scratch on the whirlpool surface.

### D. Electrical Connections

#### D1. Identify Electrical Requirements

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

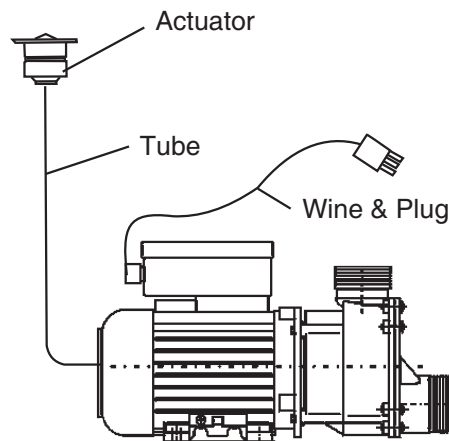
The model number identifies electrical rating. Electrical connections for each model vary.

#### D2. Wiring Information -- Refer to the roughing-in for power supply parameters

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

All wiring of the pump and control has been completed at the factory. A qualified electrician must install a GFCI protected, grounded outlet. Your whirlpool may then be plugged into this outlet. No other load should be on this circuit.

**NOTE:** Be sure the air actuator tubing is securely attached to the pump. Ensure that it is not damaged.



## E. Test run verification

### Water Test Whirlpool and Electronics

Check all electrical connections.

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

Fill in the whirlpool to a level at least 50 mm above the top of the highest jet.

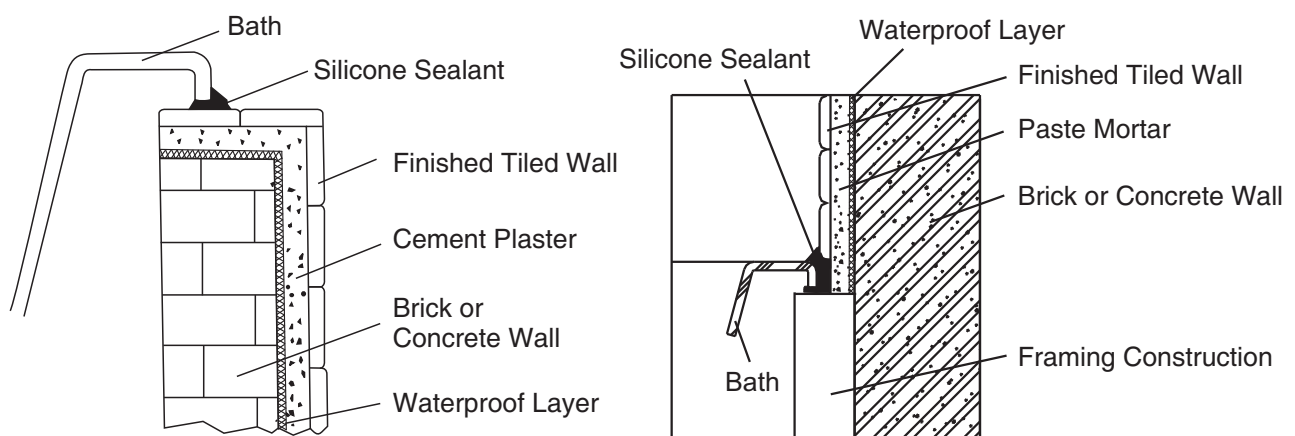
Operate the whirlpool for 5 minutes, and check all whirlpool harness (piping) connections for leaks.

For additional information on whirlpool operation, see Start-up Whirlpool instructions in confirm proper operation section.

## Complete Finished Wall

Complete decoration, such as sticking the tile or marble into place.

It is strongly recommended to use sealant that has been hardened under room temperature.



## Clean-up After Installation

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

Stubborn stains, paint, or tar can be removed with mineral spirits. Do not use cleaners containing solvent. Plaster can be removed by scraping with 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.

## Confirm Proper Operation

### Start-up Whirlpool

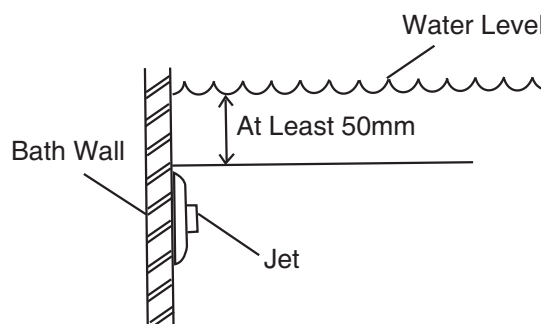
Refer to important information and important.

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 50 mm above the top of the highest jet.

**Water temperature in the bath should not exceed 40°C.**

Please refer to operation instructions or owner's manual for detailed operation procedures.



## Cleaning and Care

### Acrylic Whirlpool:

**Cleaning Acrylic Surfaces:** Do not use abrasive cleansers on any acrylic surfaces, as they will scratch and dull the surface. Wipe out the bath after each use to prevent a build-up of soap and scum.

If the acrylic surface becomes dull, an automotive type rubbing compound \*may be used on the unit, followed by an application of paste wax.

\*We recommended:

Rubbing compound mequiers mirror glaze 28 metal polish (import product) or "green oil".

### **Cast Iron Whirlpool:**

The Safeguard slip resistant surface on this bathtub meets or exceeds the requirements of ASME/ANSI for A112.19.1M slip resistance.

**DANGER!!** Improper maintenance or cleansers may permanently remove the slip resistant surface on Kohler bathtubs.

**NOTICE:** All housekeeping and maintenance employees must be trained in the proper cleaning of Kohler bathtubs. Post a copy of this notice in a readily-visible location.

**DO NOT** use steel wool, wire brushes, metal scrapers or abrasive sponge pads to clean a Kohler bath tub.

**DO NOT** use buffing machines on the slip resistant surface.

**DO NOT** use high alkaline or strong acid cleansers.

**DO NOT** use abrasive cleansers.

- ❑ Use only non-abrasive cleansers and a soft nylon brush to clean the slip resistant surface.
- ❑ When using commercial cleansers, use cleansers with a pH of between three and eight.
- ❑ Follow cleanser manufacturer instructions very carefully.

## 重要信息

- 请遵守当地的卫生管道施工和电气规范。
- 请仔细阅读此说明书以熟悉所需要的工具、材料及安装顺序。遵循适合您的特定安装要求的各项内容，避免昂贵的损失。除了要正确安装外，还应阅读操作及安全说明。
- 所有的资料是按最新出版的产品资料编写而成。科勒中国有限公司保留任何时候无须通知即可改变产品特性、包装或产品可供类型的权利。
- 说明书包括重要的安装、清洁及保养方面的内容，请把这些资料交给用户妥善保管以备将来查询。
- 请根据浴缸结构和尺寸预留相应安装空间，预排落水位置。
- 请预留检修门，检修门应设在按摩浴缸靠近水泵的一端。无水泵维修门，不能获得保修。检修门应通风良好，保证马达散热。注意：预留通道应使维修时不受限制。
- 打开包装箱并检查浴缸是否损坏。未安装浴缸时将所有的材料都留在箱内，以防止损坏或零件丢失。
- 搬运或安装过程中所造成的损坏，不能获得保修。
- 所有安装必须符合行业理事会和地方政府的章程。安装人员有责任保证使用硅胶或填缝材料使水不泄漏。
- 安装人员危险警告：铸铁浴缸非常重，在安装时一定要穿戴合适的安全装备，避免人员受伤。

## 重要事项

运行按摩系统可以冲洗管路，建议每月至少冲洗两次您的按摩浴缸系统，并视使用频率而适当增加冲洗次数。

- 请勿在没有吸水口防护罩的情况下使用本品。
- 请勿在开口处投入或插入任何东西。
- 本产品只限于手册中所指出的用途。请勿使用任何科勒中国有限公司没有推荐的附件。
- 请勿在按摩浴缸水泵运行时，使用在浴缸里玩的小玩具及洗澡用品。
- 注意：按摩浴缸会使极少量的泡泡浴液、浴液、洗发精、或浴油生出大量的泡沫，因此请不要在按摩浴缸运行时，使用这些产品。
- 注意：避免使用以极浓的植物为原料的洗发精和浴油。

### 危险：避免人身伤害。

过热的按摩浴可使人体受到某种应力作用，就像洗热水浴、热淋浴、桑拿浴、或蒸气浴一样。长时间地浸在热水中，可能会引起过热症。过热症的症状包括：体内温度升高、晕眩、嗜睡、困倦和虚弱。所引起的后果包括：

- 丧失对热的察觉；
- 无法意识到有出浴的必要；
- 不知危险即将来临；
- 孕妇的胎儿受到伤害；
- 无力走出浴缸；
- 不知不觉中陷入沉溺的险境。

### 警告：酒类、毒品、和其它药物的使用，可大为增加致命过热症的发生。

### 危险！避免人身伤害。

为减少对人体受伤的可能性，切勿让小孩独自使用本产品。除非他们每时每刻都有大人严格看护。按摩浴的水温不宜超过40°C。



## 产品注意事项

### A. 安装危险警告

- 有起火、触电或人员受伤的危险。请注意说明书内的重要安全指示。
- 有触电的危险。请找合格的电工来进行所有的线路连接。
- 有触电的危险。仅能和由接地故障断路器(GFCI)或漏电断路器(ELCB)保护的电路相接。
- 有触电的危险。连接电路之前先切断电源。
- 有受伤或财物受损的危险。开始安装之前，请先彻底阅读所有说明，包括产品信息。

### B. 由厂家组装的部件

- 如果未经过授权而自行改装，可能造成按摩浴缸在操作上不安全及性能不良。请勿将按摩浴缸的水泵移位或对按摩浴缸系统做任何改装，否则可能对按摩浴缸的性能和安全操作造成严重影响。若由于未经过授权而自行改装造成人员受伤或损害，科勒中国有限公司将不依据担保条例予以负责。

### C. 龙头相关说明

- 如果是在浴缸边缘安装水龙头，建议以软管连接阀体和水龙头，确认安装是否适当，及指定的水龙头连接空间是否足够。
- 确认水龙头的支撑是否稳固：水龙头不能被用为支撑之用。

### D. 电气要求

- 水泵的供电线路上必须安装漏电保护开关(GFCI)并定期进行测试。漏电保护开关可避免线路对地的触电危险，请提供一条专用线路供水泵使用，电源参数请参照尺寸图。
- 测试GFCI时，先按测试键(test)，这时GFCI应切断电源。然后按复位键(reset)，此时应重新供电。如果GFCI不能按这种方式工作，说明存在漏电电流，或此GFCI已被损坏。使用者可能有被电击危险。这时不要使用本产品。断开该产品与电源的连接，并请一位合格的电工来进行修理。

### E. 安装需知

- 开始安装之前，请先阅读整份说明书。

## 安装要求

### A. 所需工具(不随货供应)

- 管道扳手
- 刻度尺
- 水平仪
- 安全鞋
- 安全眼镜
- 直角尺
- 钳子
- 工具刀
- 铅笔
- 平头螺丝刀
- 十字螺丝刀

### B. 所需材料(不随货供应)

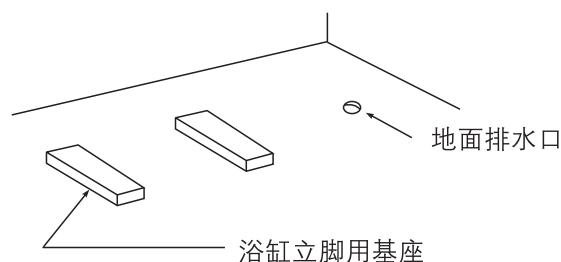
- 管道用油灰
- 墙面保护罩(如需要)
- 密封硅胶
- 石灰水泥(选用)
- 建筑粘胶(选用)
- 浴缸保护套
- 钉子

## 安装之前

### A. 底层地面的准备

检查浴缸下的地面，请确保底层地面水平，对底层地面做防水处理，浴室地面要能承受浴缸、洗浴用水和两名入浴者的全部重量。

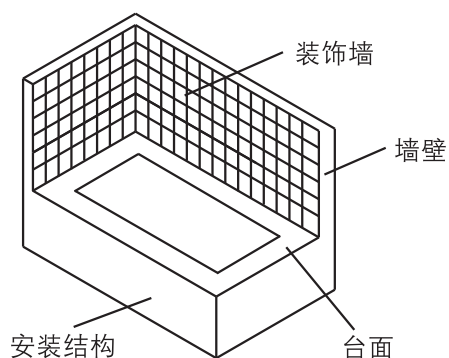
建议：砌好专门安放浴缸的基座。位置视所购买浴缸脚的位置而定。高度应视采用的排水而定。如下图：



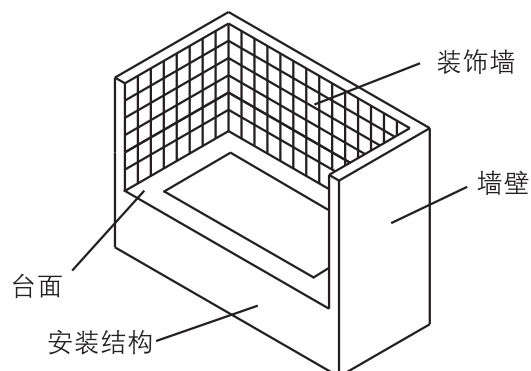
### B. 浴缸安装结构的准备

下图所示为几种常用的安装结构，请采用适合您的浴缸型号的结构。对不同的安装结构方式，也许有必要进行适度调整。请确保按摩浴缸有水泵的一方留有检修门，以方便将来维修。结构的长度应将底墙及装饰墙的厚度考虑在内。

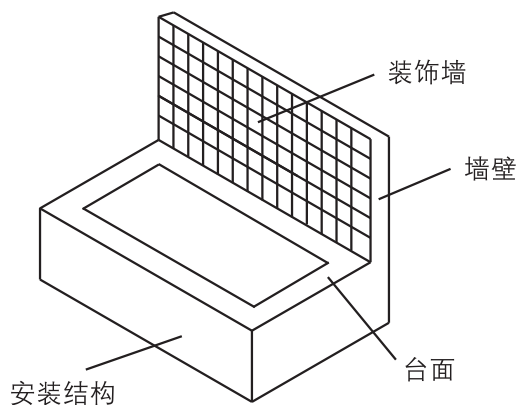
#### 1). 墙角安装



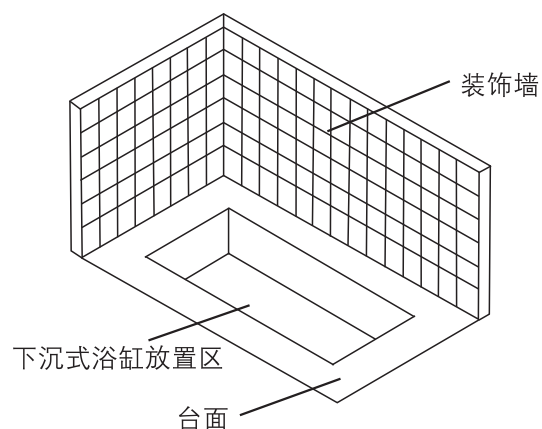
#### 2). 三面靠墙安装



#### 3). 单面靠墙安装



#### 4). 下沉式安装



## C. 台面的准备

根据浴缸的外形准备台面。如果有切割图，请按切割图制备台面，这将提供您安装所需的切割尺寸。

## D. 管道的准备

将进水管道和排水管道按安装尺寸排布，检查进水管道是否漏水。

## E. 检查按摩系统

堵塞排水口。给浴缸注水至高于最高喷头25毫米以上。静置一段时间后仔细检查所有接头和管道有无渗水。

## F. 其他准备

### F1. 压克力按摩浴缸

注意：安装前，必须去除排水口、溢水口及挡水边四周的防护膜，以便进行防水密封处理。

注意：在浴缸表面盖上保护套或类似的材料，小心不要划伤浴缸表面。

钻孔：可用一麻花钻头钻小孔，但切削刃必须用一块油石磨钝。大孔须用孔钻加工。麻花钻头的最大尺寸为12mm，速度为6mm x 1800转/分至12mm x 900转/分。

注意：钻孔要从压克力表面钻向浴缸背面。

切割：如果因故需要切割压克力，请用优质齿型钢锯仔细切割。边缘可用一旧锉刀及中等砂纸磨平。如果压克力表面受损，可用磨蚀性清洁剂抛光，将其恢复。深度刮伤可用600号水砂纸磨平，然后抛光。

### F2. 铸铁按摩浴缸

#### 安装浴缸之前

**F2.1. 必须理解**下列具体安装要求，以避免引起对搪瓷表面任何潜在的损坏。

**⚠ 警告!!** 如果不按照厂家要求的安装方法执行，将会造成搪瓷表面的损坏。

- 在搬运浴缸时，特别是在浴缸边缘附近，切勿使用尖锐的物体或工具。
- 在浴缸边缘及底部盖一层透明塑料布，以防止在安装过程中，污垢及硅胶粘贴在浴缸上。
- 正确的安装方法，应该使浴缸边缘不要与墙壁或水平表面直接相接触，以防止传播噪音和振动，并避免引起搪瓷表面可能的破裂。
- 浴缸边缘与墙壁之间必须在水平方向至少留有2毫米的间隙，在垂直方向至少留有4毫米的间隙。请参考以上图1、图2、和图3。
- 放置浴缸前，在与浴缸边缘相接触的所有表面，涂抹一层高质量的卫生硅胶填料。
- 将浴缸安置在正确的位置上。

单位：毫米

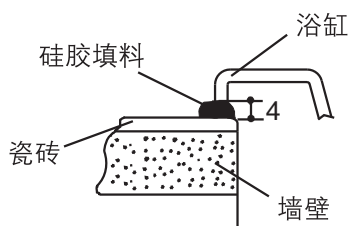


图1

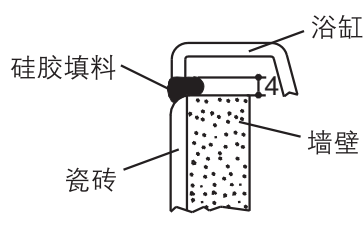


图2

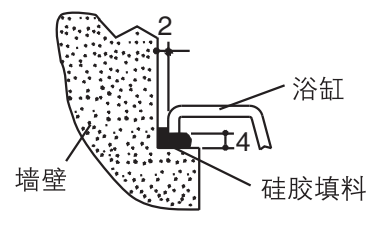


图3

## G. 局部安装浴缸的排水配件

按照厂家说明书，把排水配件部分安装在浴缸上。

## 安装浴缸和配件

### A. 安装配件

如浴缸有其他配件如扶手，排水或枕头、毛巾架等，请在安装浴缸之前进行安装。具体安装方法请见其单独的安装说明书。

注意：必须在靠近水泵的位置设置检修门以便维修。

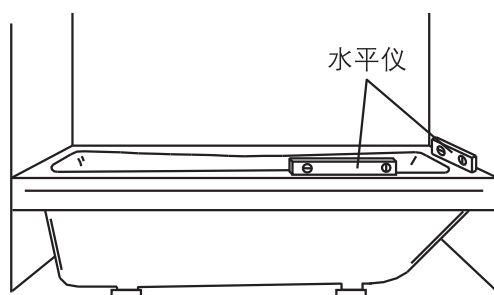
### B. 安装浴缸

注意：此部分分为B1压克力按摩浴缸和B2铸铁按摩浴缸两部分。请根据您的浴缸选择适当的安装步骤。


#### B1. 压克力按摩浴缸

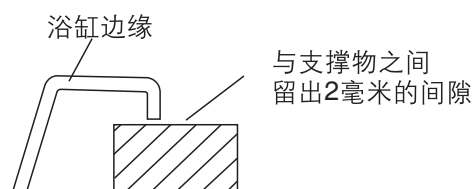
注意：请不要抬着管道部分移动浴缸。

注意：在支脚和垫片上涂足够量的泥灰浆或类似材料，将浴缸放入安装位置。确保浴缸长度方向和宽度方向均水平放置，并且所有重量都均匀地承载在支脚上。



注意：如果浴缸有调整脚，请使用调节脚调整水平。

 **警告：**不要靠边缘将浴缸悬挂。浴缸边缘如右图。



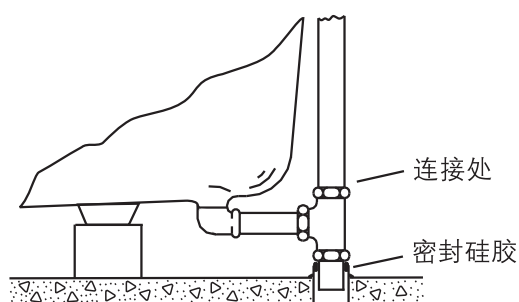
#### B1.1 安装卫生管道

注意：避免损坏浴缸底部和地面，浴缸的所有排水接口都要确保做好防渗处理。

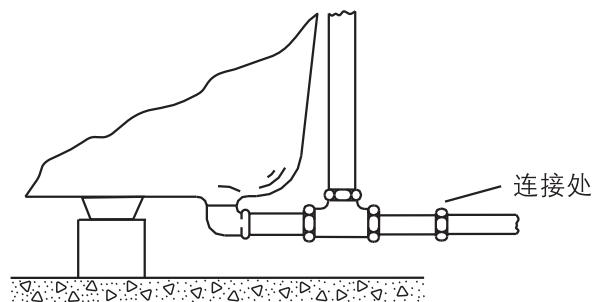
1). 安装水龙头及配件。打开冷水及热水阀门，检查所有给水管接头是否有渗漏。

注意：为方便以后维修，一定要安装一个检修门。

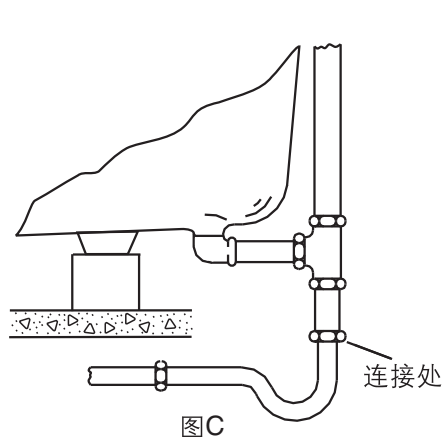
2). 当浴缸固定到位后，将排水管与存水弯相接，如图A、B、C、D。



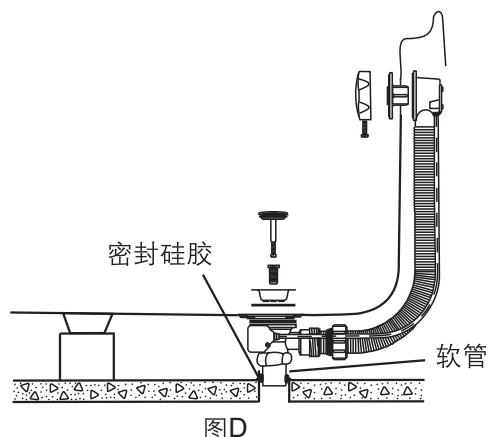
图A



图B



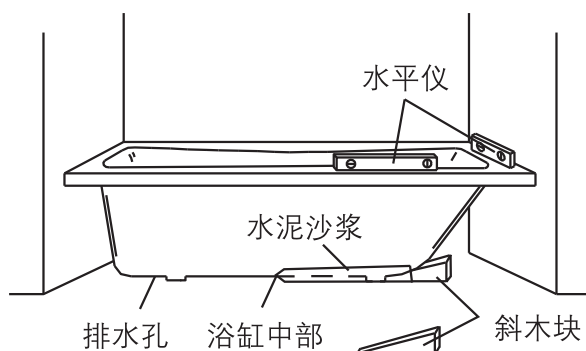
图C



图D

## B1.2 排水管通过地面的浴缸安装方式

将新浴缸放置在安装位置以了解排水孔和浴缸底脚的位置。在地面合适的位置为排水管开出一个长方孔。长方孔的尺寸要使维修和安装不受约束。



用25~30公斤的干水泥及砂，加水调成稠水泥沙浆。将浴缸移出，用水泥沙浆从浴缸中部覆盖至无排水口一端的安装区域，如图所示，水泥沙浆的高度应能与浴缸的底面接触。

注意：避免将排水口堵塞。

将浴缸放置在预先测好的位置。

将浴缸底部紧压在水泥沙浆上以固定浴缸。在浴缸底部插入两个斜木块来支撑浴缸。水泥沙浆干涸后，斜木块还应留存其内。安装时，请随时用水平仪校正浴缸的水平度，使浴缸保持水平。

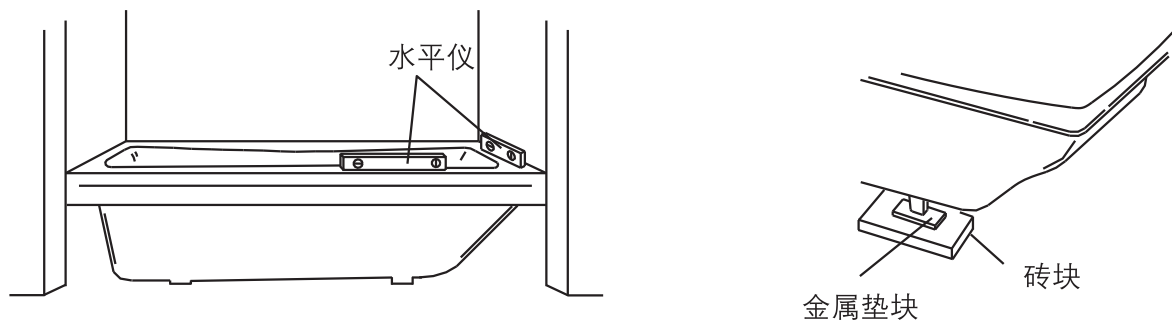
## B2. 铸铁按摩浴缸

### B2.1 浴缸高度可调节的安装方式

将新浴缸放置在安装位置。

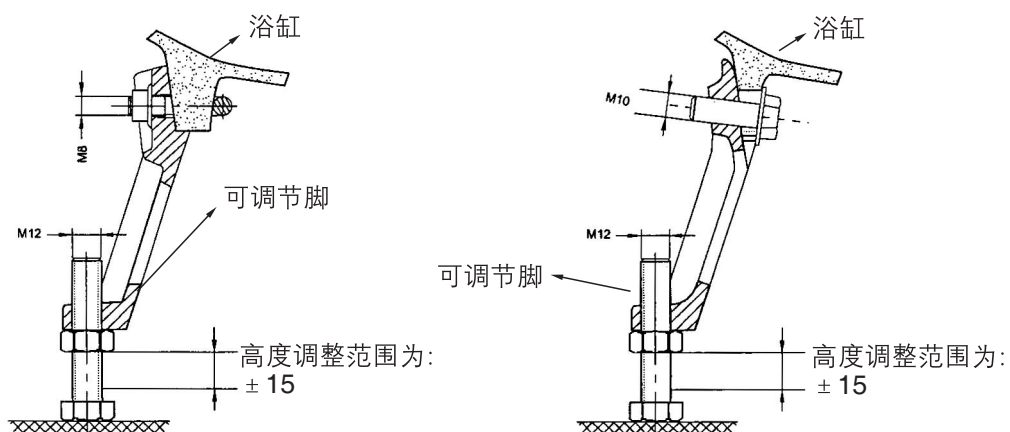
如果有必要，将金属垫块和砖块垫在浴缸支角下以获得合适的高度并保持浴缸水平。注意：必须使用金属垫块，以防止砖块破裂。用水平仪沿浴缸的长短边缘测试。确保浴缸水平放置，并且所有的重量都均匀地承载在浴缸底脚上。如果靠墙的浴缸底脚难以垫到，则需要将浴缸搬出或搬进几次，直到垫好为止。

也可使用可调整脚。



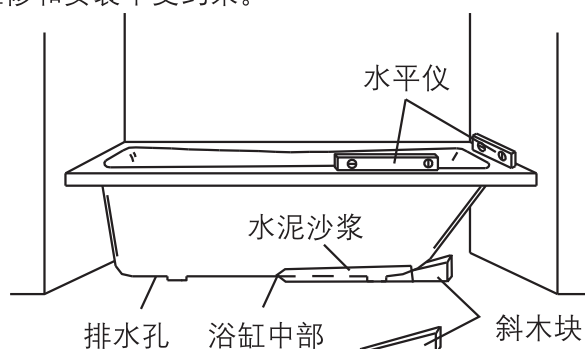
### B2.2 安装可调浴缸脚

- 安装时，浴缸脚或存水弯不可与地面摩擦，否则可能破坏搪瓷面。
- 可调浴缸脚使浴缸与地面保持合适的高度。调节范围为正负15mm。不要在浴缸脚和地面间涂密封胶。
- 确保浴缸水平放置，并且所有重量都均匀地承载在支脚上。



## B2.3 排水管通过地面的浴缸安装方式

将新浴缸放置在安装位置以了解排水孔和浴缸底脚的位置。在地面合适的位置为排水管开出一个长方孔。长方孔的尺寸要使维修和安装不受约束。



用25~30公斤的干水泥及砂，加水调成稠水泥沙浆。将浴缸移出，用水泥沙浆从浴缸中部覆盖至无排水口一端的安装区域，如图所示，水泥沙浆的高度应能与浴缸的底面接触。

注意：避免将排水口堵塞。

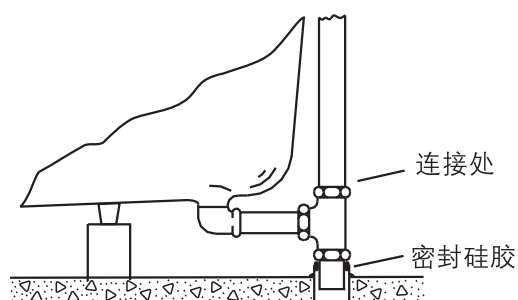
将浴缸放置在预先测好的位置。

将浴缸底部紧压在水泥沙浆上以固定浴缸。在浴缸底部插入两个斜木块来支撑浴缸。水泥沙浆干涸后，斜木块还应留存其内。装置时，请随时用水平仪校正浴缸的水平度，使浴缸保持水平。

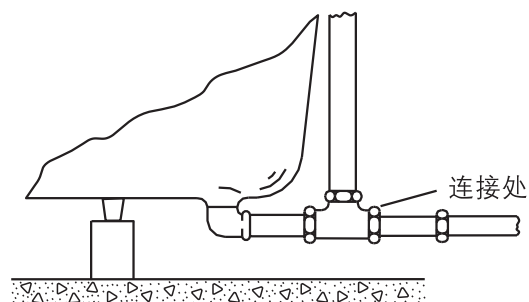
## B2.4 安装卫生管道

⚠ 注意：避免损坏浴缸底部和地面。浴缸的所有排水接口都要确保做防渗处理。

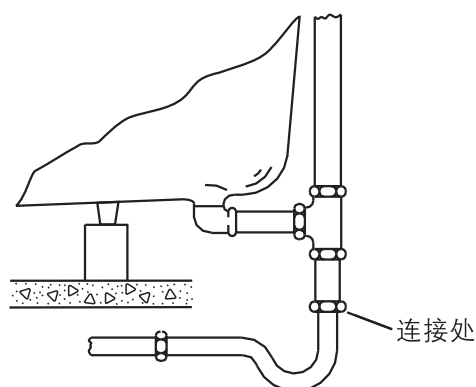
- 1). 当浴缸固定到位后，将排水管与存水弯相接，如图A、B、C。
- 2). 安装水龙头及配件。打开冷水及热水阀门，检查所有给水管接头是否有渗漏。
- 3). 让水流入浴缸，检查排水配件接头是否有渗漏。



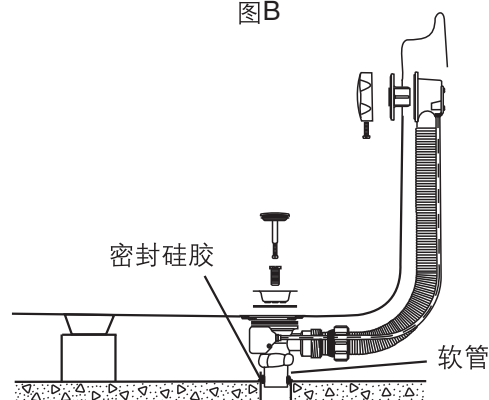
图A



图B



图C

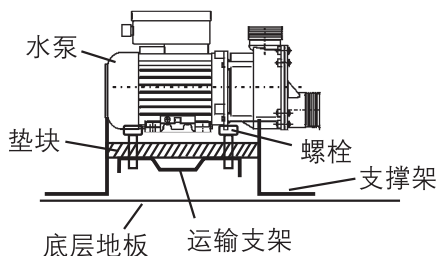


图D

## B2.5 拆卸固定螺栓

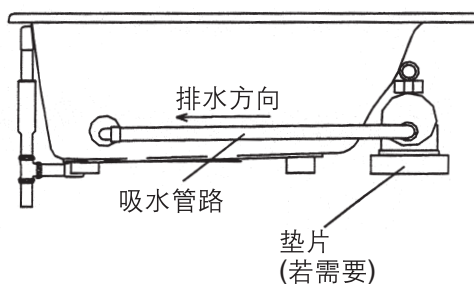
注意：为使您的按摩浴缸工作时更为安静，这个步骤是非常必要的。

- 1) 将支架上的螺栓拧下。这些螺栓用于将水泵固定在按摩浴缸的运输支架上。去掉螺栓并移去垫块后，水泵及其支撑架会下落大约5毫米，直到接触到底层地板为止。若下落超过5毫米，应确保维持适当的斜度(将垫片垫在水泵下)，以使按摩浴缸的水泵通过吸水管路来排水。

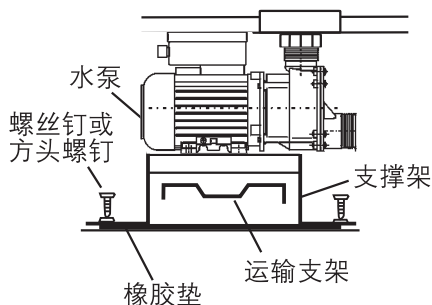


- 2) 如果底层地板已经水平，则不需要调整水泵位置，直接执行步骤3。如果底层地板没有水平，请在水泵支撑架和底层地板之间垫上垫片，其高度只需足够允许水从吸管路排出即可。

注意：不要将水泵垫高到比去掉螺栓之前更高的位置，若水泵位置过高，水泵则可能无法正常地启动工作。



- 3) 为了使水泵的噪音和振动减至最低，请在去掉螺栓后，勿使支撑架与运输支架直接接触。用螺丝和橡胶垫(请自备)将支撑架固定在地面上。



## C. 保护按摩浴缸

在浴缸表面盖上抹布或类似材料。小心不要刮伤按摩浴缸表面。



## D. 电源连接

### D1. 明确电源要求

按摩浴缸水泵的末端标签上印有型号。

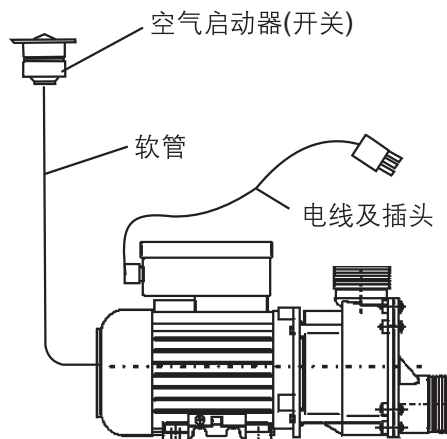
标签上指明电源额定值。不同类型的按摩浴缸，有不同的电路连接方式。

### D2. 布线说明--电源参数参见尺寸图

**⚠ 警告：有触电的危险。**为了减少触电的危险，连接时只能使用适当接地的，并有接地故障漏电保护器保护的插座。请勿去除插头上的接地插腿。请勿使用接地转换器。

水泵的所有接线和控制系统已经由厂家完成。必须找一位合格的电工，安装带有接地故障漏电保护器保护的接地插座。然后将您的按摩浴缸电线的插头插在这个插座上。这条电路上不应再加入其它负荷。

注意：确定空气启动器(开关)的软管固定在水泵上。并确认它没有损坏。



## E. 试运行检查

对按摩浴缸和电子线路进行给水测试

检查所有电源线路的连接。

确定所有和水泵连接的管子都已衔接紧固。

将水放入按摩浴缸，使水位比最高的喷水口至少高出50毫米。

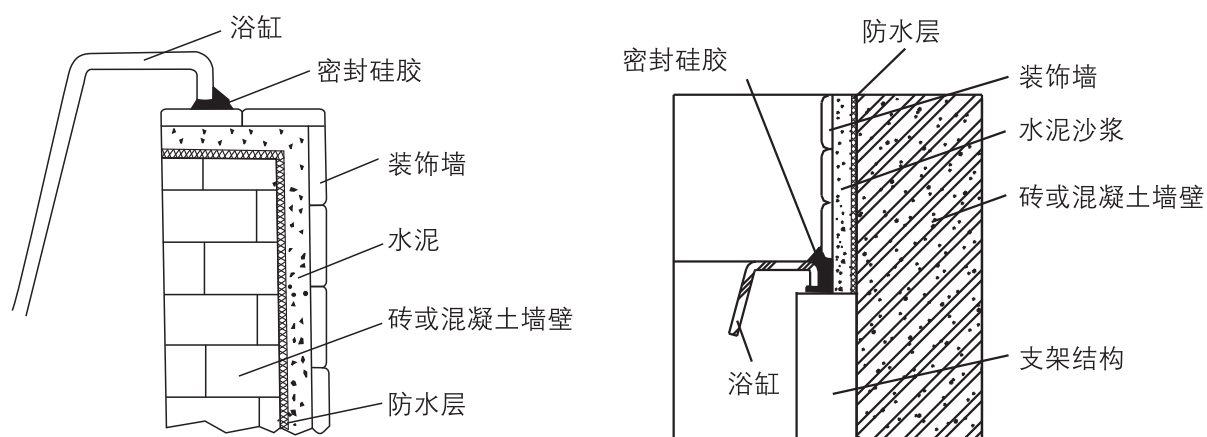
让按摩浴缸运行5分钟，然后检查按摩浴缸的所有管路是否有渗漏。

若需要操作按摩浴缸的进一步详情，请参阅“确认操作正常”章节“启动按摩浴缸”的说明。

## 完成墙壁装修

完成墙壁贴面(如瓷砖或大理石贴面)。

建议：使用常温下硬化的密封胶。



## 完工清理

在安装完成后进行清理时，请勿使用磨损性的清洁用具，以免擦伤浴缸表面，使其失去光泽。使用温水和非腐蚀性的液体清洁剂，清洗浴缸表面。

难以清除的污迹、油漆、或柏油，可用酒精擦净。请不要让含有溶剂的清洁剂。滞留水泥可用薄木刀刮掉。请不要使用金属刮刀，钢丝刷，或其它金属工具。对残留的水泥浆，可用湿布粘些洗衣粉，以提供轻微的研磨作用。

## 确认操作正常

### 启动按摩浴缸

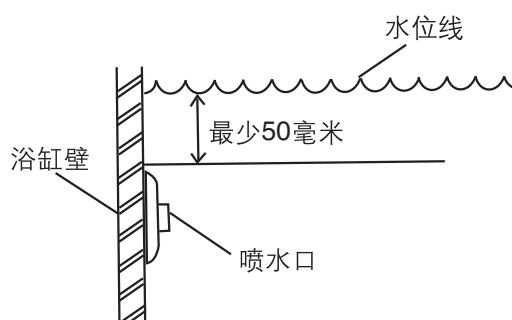
请参阅前面所述的重要信息和重要事项。

请进行以下步骤，以使用户能够安全地享受按摩浴缸的舒适。

- 1) 旋转喷水口使其向下对着底面。
- 2) 按摩浴缸的水位比最高的喷水口至少高出50毫米。

按摩浴缸的水温不宜超过40度(摄氏)。

操作顺序参照《操作说明书》或《用户手册》。



## 清洁和保养

### 压克力按摩浴缸：

清洗压克力表面：请勿在压克力表面使用磨损性的清洁用具，以免擦伤浴缸表面，使其失去光泽。每次使用后，将浴缸擦干，以防止肥皂和污垢沉积。

若压克力表面失去光泽，先用汽车抛光剂\*，然后再用粗腊打亮。

\*我们推荐使用以下2种抛光剂：

- ① Mequiars 镜面光亮28金属上光剂。(进口)
- ② 抛光膏(绿油)。

### 铸铁按摩浴缸：

浴缸的Safeguard防滑表面达到或超过ASME/ANSI A112.19.1M对防滑表面的要求。

**危险！！** 不适当的维护或清洁剂的使用可导致科勒浴缸的防滑表面永久失去。

**注意：**所有的清洁和维修人员都应当进行正确清洗科勒浴缸的培训。请将此注意事项的复印件张贴在显著的位置。

请勿 使用钢丝绒，钢丝刷，金属刮刀或有磨损性的海绵垫清洗科勒浴缸。  
请勿 在防滑表面上使用抛光仪器。  
请勿 使用强碱或强酸性的清洁剂。  
请勿 使用磨损性的清洁剂。

- 请使用没有磨损性的清洁剂和软尼龙刷清洗浴缸的防滑表面。
- 请使用pH值3和8之间的清洁剂(若要使用商业用清洁剂时)。
- 请仔细按照清洁剂生产厂家的说明书进行清洗。