



## MODERN LIFE 明莱

### INSTALLATION INSTRUCTIONS

#### 安装说明书

### SKIRTED TOUCHLESS CLASS FIVE ONE-PIECE TOILET

#### 免触式五级旋风连体座便器

S-TRAP 305mm K-77739T-TFSL

S-TRAP 400mm K-77740T-TFSL

## BEFORE YOU BEGIN

- 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 in these instructions is based upon the latest product information available at the time of publication. Kohler China 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 instructions for the consumer.**

## 安装之前

- 请小心详阅本指引。以便熟悉所需工具、材料及安装程序。请遵照适用的章节来安装你的座便器，以避免由于安装不当而导致不必要的损失。除了有关正确的安装方法之外，还务请详阅所有操作及安全指引。
- 本指引所载之一切资料，均以印刷时所有之最新产品情况为基础，科勒中国保留权利随时更改产品特性、包装或供应情况，恕不另行通知。
- 本指引也包含了有关护理、清洁及保养等重要资料 - 请交予用户保存。

## ORDERING INFORMATION

MODERN LIFE Skirted Touchless Class Five  
One-piece Toilet 305mm .....K-77739T-TFSL  
Includes MODERN LIFE Slim Quiet-close  
Toilet Seat.....K-77380T  
MODERN LIFE Skirted Touchless Class Five  
One-piece Toilet 400mm .....K-77740T-TFSL  
Includes MODERN LIFE Slim Quiet-close  
Toilet Seat.....K-77380T

## 订购资料

明莱免触式五级旋风  
连体座便器305mm .....K-77739T-TFSL  
含明莱超薄缓降  
座便器盖板.....K-77380T  
明莱免触式五级旋风  
连体座便器400mm .....K-77740T-TFSL  
含明莱超薄缓降  
座便器盖板.....K-77380T

## NOTES

- Observe all local plumbing and building codes.
- Shut off the water supply.
- Seat post holes are on 140mm centers.
- Ensure that the new drain has the correct roughing-in dimension. This toilet has a 305/400mm roughing-in dimension. **See Roughing-in.**
- Closet flange must be 305/400mm on-center from wall.
- Carefully inspect the new fixture for any sign of damage.
- For new construction, refer to the dimensions in installation step for locating the shut-off valve.
- Fixture dimensions are nominal and conform to tolerances established by ASME Standards (A112.19.2-2013).
- This product complies with GB 25502-2017. Water Efficiency Grade 1.

## 注意

- 遵守当地所有给排水及建筑规定。
- 先关掉水源。
- 盖板孔中心间距140mm。
- 请确保污水管的坑距尺寸正确。本型号坑距为305/400mm(请参阅尺寸图)。
- 座便器法兰盘中心必须距离墙壁305/400mm。
- 小心检验新的座便器是否有损坏的迹象。
- 若为新安装工程，请参看安装步骤中的尺寸标示以定位止水阀。
- 部件尺寸为标定值，误差符合美国ASME标准(A112.19.2-2013)。
- 本产品符合GB 25502-2017。水效等级1级。

No.2 KOHLER ROAD, SANSHUI CENTRAL INDUSTRIAL PARK, LEPING TOWN, SANSHUI DIST., FOSHAN, GUANGDONG, PRC POST CODE 528137  
广东省佛山市三水区乐平镇三水中心工业园区科勒大道2号 邮编: 528137

8# MENGSHAN RD, ECONOMIC DEVELOPMENT ZONE OF HUANTAI, ZIBO, SHANDONG, CHINA POST CODE: 256410  
山东省淄博市桓台经济开发区蒙山路8号 邮编: 256410

1322811-T01-C

**⚠ WARNING: Risk of personal injury or product damage:** Handle vitreous china products very carefully. Vitreous china can break and chip if you overtighten bolts and nuts.

**⚠ WARNING: Risk of external leakage.** The fill valve nut has been factory-tightened to design specifications. If re-tightening is required, wrench tighten one turn past finger tight .

**⚠ 警告：**提防身体受伤或产品破裂。请小心处理釉面陶瓷产品。不可把螺母和螺栓上得过紧，以免产品破损或崩裂。

**⚠ 警告：**有向外渗漏之危险。注水阀螺母在出厂时已上紧以符合设计规格，如需再上紧，可用手上紧后再以板钳上紧一圈。

## TOOLS AND MATERIALS REQUIRED (Not supplied)

- 254mm (10") adjustable wrench
- 305mm (12") pipe wrench
- Metal file (file cut)
- Tape measure
- Tubing cutter
- Level
- Hacksaw
- Putty knife
- Screwdriver
- Toilet gasket (wax seal)
- Toilet supply shut-off valve, 10mm(3/8") recommended

**NOTICE:** If the existing toilet does not have a supply shut-off valve below the tank, install one before installing the new toilet.

## 所需工具及材料（不随货供应）

- 254mm 活动板钳
- 305mm 喉管板钳
- 锉刀
- 卷尺
- 切管刀
- 水平尺
- 钢锯
- 涂油灰刀
- 螺丝刀
- 座便器垫圈（蜡封）
- 座便器供水管止水阀，以10mm为准

**注意：**如果现有座便器的水箱下方没有止水阀，须在安装新座便器前装妥止水阀。

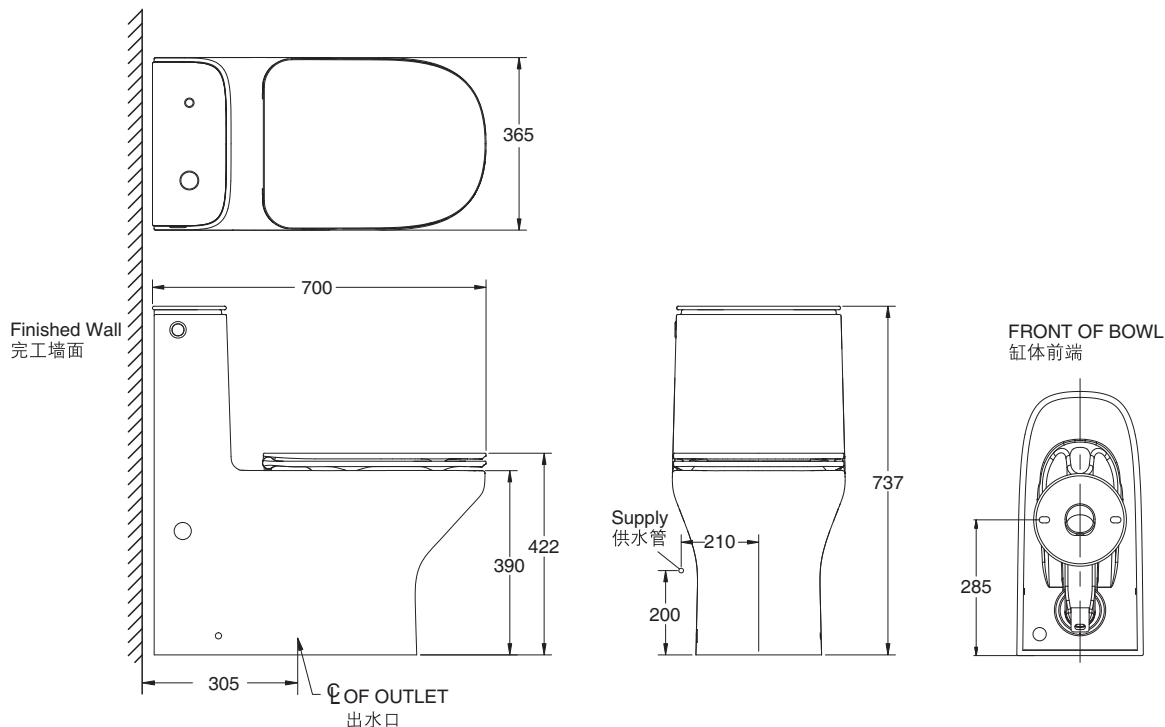
## ROUGHING-IN

## 尺寸图

Reference Value  
参考值

Unit: mm  
单位: 毫米

### K-77739T-TFSL



## K-77740T-TFSL

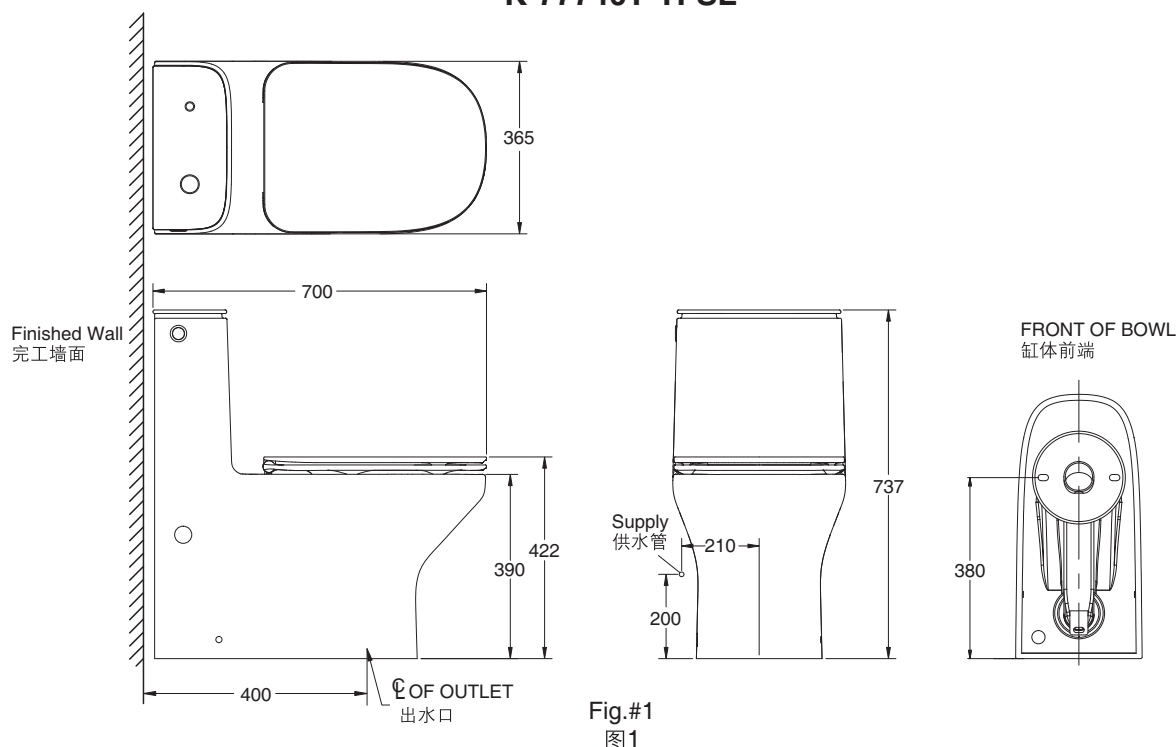


Fig.#1  
图1

Kohler reserves the right to change marked dimensions without prior notice.  
科勒公司保留随时变更图中标示尺寸的权利，无需另行通知。

## INSTALLATION

## 安装

### TO REMOVE EXISTING TOILET

### 拆除旧座便器

Turn off the water supply. Flush the toilet, and use a sponge to remove the remaining water from the tank and bowl. Disconnect the supply shut-off valve (if present), and remove the old tank and bowl.

关掉供水源，给座便器冲水，用海绵吸去座便器内的剩余水份，卸下供水管止水阀(如果有)，移开旧水箱和座便器。

Remove the old gasket from the floor and the closet flange with a putty knife. Remove the old T-bolts and discard them.

用涂油灰刀拆除地上的旧密封垫圈及座便器法兰盘，拆除及扔掉旧的T型螺栓。

**NOTICE:** if the new toilet is not installed immediately, temporarily stuff a rag into the closet flange.

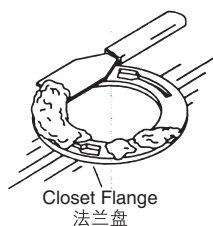


Fig.#2  
图2

注意：如果不能即时安装新座便器，请用碎布暂将法兰盘堵住。

**NOTICE:** Do not use white cement or high lime content cements to install this toilet. The expansion of cement due to a rise in temperature may make the toilet crack or cause damage. Kohler is not responsible for any damage caused by installation with the use of cement.

注意：安装本座便器时切勿使用白水泥或高石灰含量之水泥，因水泥的热膨胀可能使座便器的脚部挤破或损坏。科勒对所有因水泥安装而引致的座便器破裂恕不负责。

### TO INSTALL SUPPLY SHUT-OFF VALVE

### 安装供水管止水阀

Install the supply shut-off valve so it is 200mm above the finished floor line, and 160mm to the left of the closet flange centerline.

安装厕所供水管止水阀，使之离地线200mm，也离法兰盘中心线左210mm。

The centerline of the supply shut-off valve outlet should extend 67mm from the finished wall. Install the supply shut-off valve with the outlet vertical.

供水管止水出口管应凸出完工墙67mm；安装止水阀应以出口管垂直为合。

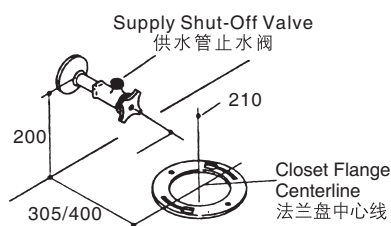
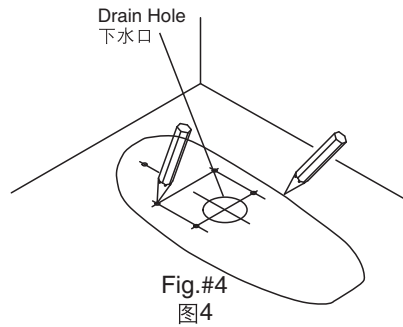


Fig.#3  
图3

## TO INSTALL BOWL

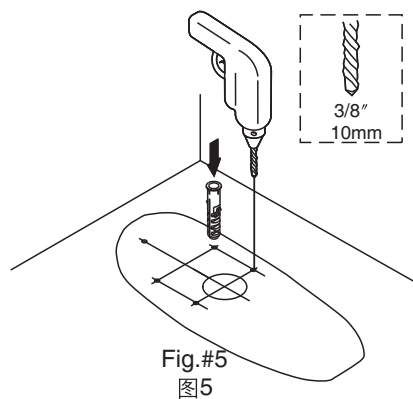
Position the template and align with drain hole.

Mark down the position of foot and 5 holes.

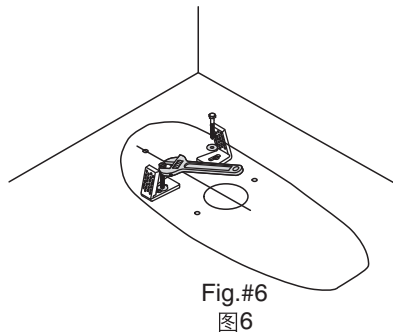


Drill holes on ground with the drill of 10mm (3/8"), then insert anchor to holes.

**CAUTION:** Please make sure there is no water pipe or spool under the 5 holes to be drilled.



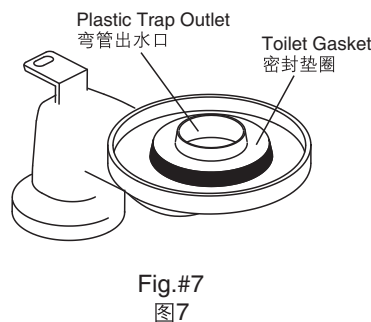
Install brackets.



Firmly press the toilet gasket onto the toilet outlet of plastic trap.

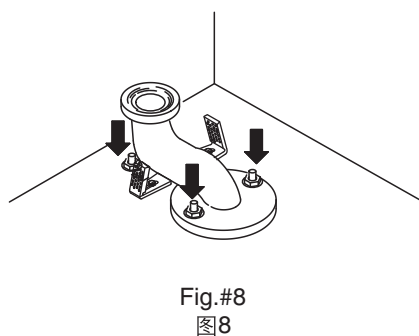
**NOTE 1:** Wax ring type toilet gasket should not be installed at temperatures less than 21°C.

**NOTE 2:** If you are using a toilet gasket with an integral plastic sleeve, make sure the gasket is positioned with the sleeve facing away from the toilet.



Install plastic to ground and mounted with 3 set of bolts(not supplied) firmly.

**NOTE:** Must use the toilet installation gasket ring (not supplied) to seal the area where the waste pipe contacts the construction section to avoid leakage.



## 安装座便器

将安装模版放置在地面上，并对齐下水口。

划出脚部轮廓线及五个孔的位置。

用10mm的钻头在地面上钻孔，然后插入螺栓套管。

**警告：**钻孔前请确保5个孔位下面无水管或者线管。

安装支架。

将密封垫圈紧套于弯管出水口。

**注意1：**如使用蜡封式密封垫圈，室温不应低于摄氏度21°C。

**注意2：**如所使用的密封垫圈附有内式塑料套，则此垫应朝外放置。

安装弯管于地面上，并用3组螺栓(不随货供应)上紧。

**注意：**必须用座便器安装密封圈(不随货提供)来密封排污管和安装面排污口的连接，防止漏水。

Slide the hose guide onto the hose, with the flared end last. Slide the two inserts into the flared end of the hose guide.

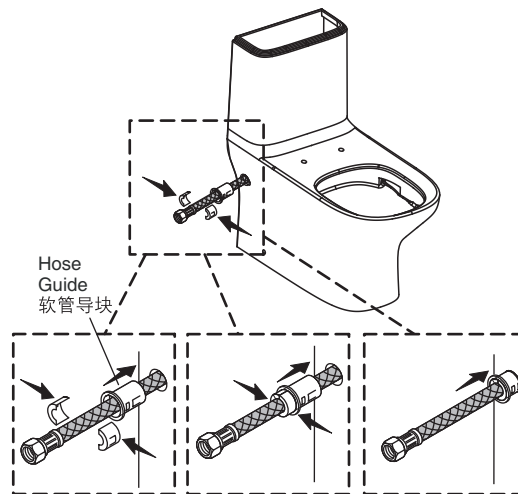


Fig.#9  
图9

将软管导块套在软管上，展开面朝内。将两个插块合拢，套在缸体进水口末端。

Carefully align and lower the bowl. Apply weight to the bowl rim to let the outlet insert into plastic trap.

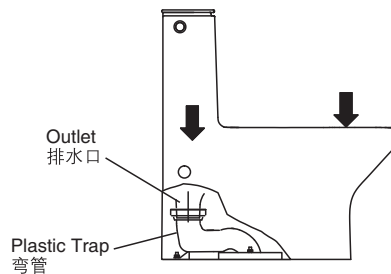


Fig.#10  
图10

小心对准并将座便器向下放置。同时将座便器边缘向下压，以使排水口插入弯管中。为了要达到最佳的效果，请在安装时确定座便器是否水平。

Carefully thread the screws into the brackets, until toilet is secure. Alternately tighten left and right sides to prevent pulling the toilet off center. Install cap to cover screw. **Do not overtighten.**

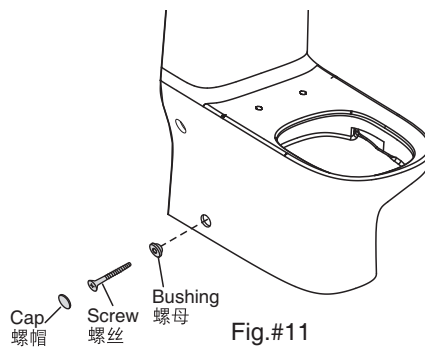


Fig.#11  
图11

小心的将螺丝旋入支架中直到座便器完全固定。左右交替旋紧以免座便器偏离中心。安装螺帽。

请勿过度旋紧。

Apply caulk around base.

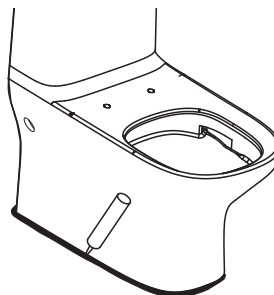


Fig.#12  
图12

在座便器底座周围打上硅胶。

## TO CONNECT WATER SUPPLY

\* Flexible hose (not provided) are recommended to connect the supply line to the fill valve. If you use a rigid connection(not provided), take care not to apply side forces to the bottom of the fill valve. Be sure the rigid connection must be fit with supply line completely to prevent damage shank by forced connection.

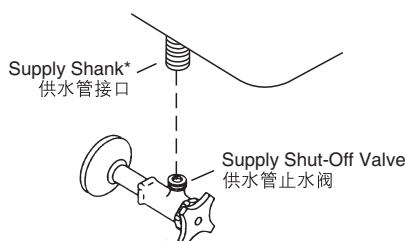


Fig.#13  
图13

## 连接供水管止水阀

我们建议使用软管(不随货供应)来连接供水管与座便器进水阀。如果您使用硬管(不随货供应)连接的话, 连接时要注意不要在进水阀的底部施加横向压力, 并注意硬管必须与供阀口完全吻合, 以免强行连接日后会损坏接口。

**IMPORTANT:** Before turning on the supply valve for the first time, follow the steps below to clear sand, debris and rust from the system:

注意: 第一次打开供水阀之前, 请按下列步骤清理阀门组件里的砂石、碎屑及铁锈:

Make sure water supply is off. Remove valve END by rotating it 1/8 turn counterclockwise.

关掉供水源, 以逆时针方向旋转1/8圈, 拆除阀帽。

While holding a container over the uncapped VALVE to prevent splashing, turn water supply on and off a few times. Leave water supply off.

用杯子盖好无遮盖的阀门组件以防溅水, 然后反覆开关水源数次, 最后关掉水源。

Replace END by engaging lugs and rotating 1/8 turn clockwise. **Make certain the top is turned to the locked position. Valve may not turn on if top is not fully in the locked position.**

重新盖上阀顶部份, 顺时针旋转阀帽1/8圈上好, 阀帽必须旋转至对准上锁的位置, 否则可能无法打开注水阀。

Turn on water supply. Check that water level is at the marked water line.

打开水源, 查核水位是否达到水位线。

Install the tank lid and the seat. Use the supplied hardware pack for seat. Periodically check for leaks for several days following the installation.

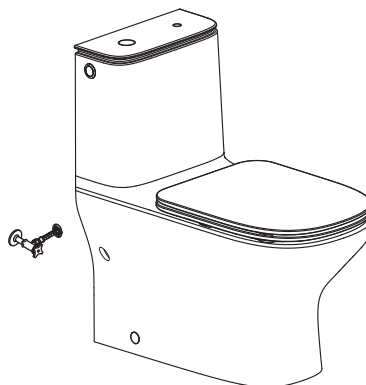


Fig.#14  
图14

安装水箱盖和盖板。使用附带的盖板安装组件包进行安装。安装后定期检查漏水情况。

## INSTALL THE BATTERIES



**CAUTION: Risk of property damage:** Do not use lithium ion batteries with this product. Exposing lithium ion batteries to water can result in a fire.

**NOTICE:** When the batteries are low, the unit will beep 3 times when activated. Replace the batteries when this happens. The malfunction caused by low battery is not due to quality problems. Replace the battery and ensure that the battery is fully charged before proceeding.

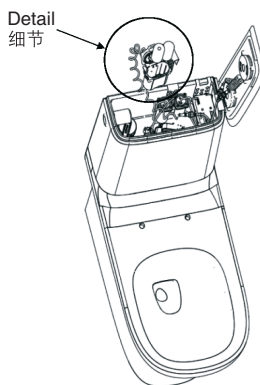


Fig.#15  
图15

## 安装电池



**警告: 性能破坏风险:** 请勿在本产品上使用锂电池。锂电池遇水可能起火。

注意: 当电池电量低时, 每次感应时发出3声“嘀 嘀 嘀”的声音。出现该情况时, 请更换电池。由于电池电量低造成的产品功能不正常, 不属于质量问题。请更换电池、确保电池电量充足后, 再进行操作确认。

- Open the tank lid and place it properly.
- Take the battery box out of the tank and dry it.
- Open the battery box lid, and install the batteries according to the positive and negative markings.
- Install the battery box lid and buckle it tightly.
- Install the battery box back into the tank.
- Install the tank lid.
- Open the fill valve again, waiting for water to fill the tank.
- Check for leaks.
- Flush the toilet repeatedly using the sensing system. Check whether the touchless full- and partial-flush sensor can open the drain valve for flushing normally. Sensitive range of the sensors: within 60mm above the sensing area of the tank.
- Press the manual button to check whether it can open the drain valve for flushing normally.

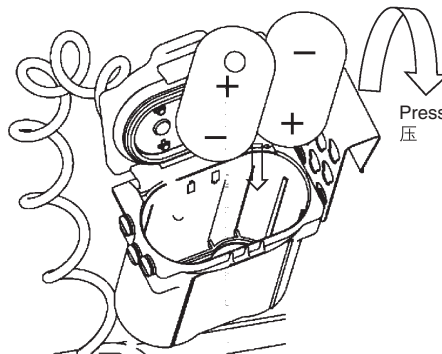


Fig.#16  
图16

- 打开水箱盖并妥善放置水箱盖。
- 将电池盒从水箱中取出并擦干。
- 打开电池盒盖，按照电池正负极标记安装电池。
- 盖上电池盒盖并扣紧。
- 将电池盒装回到水箱中。
- 盖好水箱盖。
- 重新开启进水阀，等待水注满水箱。
- 检查是否存在渗漏。
- 反复使用感应系统冲马桶，感应大小冲是否能正常打开排水阀冲水。感应器敏感点范围：水箱盖感应区域上方60mm范围内。

- 按压手动按钮是否能正常打开排水阀冲水。

**NOTICE:** If you are unable to activate the sensor immediately after installing the tank lid, wait a minimum of 5 minutes for the sensor to be calibrated.

- Hold your hand within approximately 60mm above the sensor.
- The toilet will flush.
- Consult the troubleshooting chart for operation or performance issues.

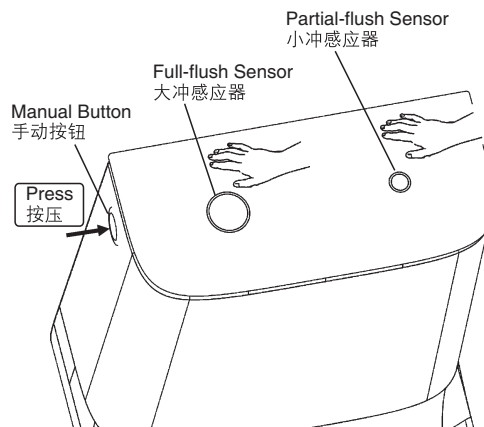


Fig.#17  
图17

**注意：**如您在安装水箱盖之后不能立即启动感应器，则至少等待5分钟，以便感应器进行校准。

- 将手保持在感应器上方约60mm范围内。
- 马桶将冲水。
- 操作或性能问题可查阅故障诊断。



## TROUBLESHOOTING CHART

SYMPTOMS	CORRECTIVE ACTION
1. Poor Flush	<ul style="list-style-type: none"> <li>A. Adjust the tank water level to match the waterline.</li> <li>B. Fully open the water supply shut-off valve.</li> <li>C. Clear obstructions from the trapway, jet, or bowl rim holes.</li> <li>D. Clear obstructions from the waste line.</li> <li>E. Check whether the batteries are low.</li> </ul>
2. No Flush	<ul style="list-style-type: none"> <li>A. Reconnect the chain to the trip lever or flush valve.</li> <li>B. Adjust the chain assembly to remove excessive slack.</li> </ul>
3. The fill valve turns on/off by itself without the toilet being flushed, or it runs allowing water to enter the tank.	<ul style="list-style-type: none"> <li>A. Adjust the chain for proper slack so the seal is not held off the flush valve seat.</li> <li>B. Clean or replace the seal if it is worn, dirty, or misaligned with the flush valve seat, or if the flush valve seat is damaged. Replace the flush valve seal or flush valve.</li> <li>C. Clean the fill valve seat/seat washer of debris, or replace the piston/seat washer assembly.</li> <li>D. Remove the tank and tighten the flush valve nut if flush valve gasket is leaking. Do not overtighten. If leakage continues, replace the gasket.</li> <li>E. Adjust the tank water level if it is too high.</li> </ul>
4. Tank takes excessive time to fill.	<ul style="list-style-type: none"> <li>A. Fully open the water supply shut-off valve.</li> <li>B. Clean the valve inlet, valve head, or supply line. Flush the lines.</li> </ul>
5. There is excessive noise when the tank is filling.	<ul style="list-style-type: none"> <li>A. Partially close the water supply shut-off valve if the water pressure to the toilet is too high. Check the toilet performance following any such adjustment.</li> <li>B. Remove dirt or obstructions from the valve head. Flush the lines.</li> </ul>
6. Nothing happens when I try to activate the sensor.	<ul style="list-style-type: none"> <li>A. Confirm the batteries are correctly installed.</li> <li>B. Confirm the batteries have a charge.</li> <li>C. Check whether the signal cables of the sensor and the air pump box have come loose.</li> </ul>
7. After the sensor is activated, I hear a beep, but the toilet does not flush.	<ul style="list-style-type: none"> <li>A. Does the battery box hanging on the rear of the tank press on the wire rope of the drain valve? If so, relocate the box.</li> <li>B. Check whether the air tube connecting the airbags box and the air bump box has come loose.</li> </ul>
8. The sensor is not sensitive enough.	<ul style="list-style-type: none"> <li>A. Confirm that your hand is within 60mm above the sensor.</li> </ul>
9. The toilet flushes when I am sitting on it.	<ul style="list-style-type: none"> <li>A. Are you leaning back and bumping the tank lid? Moving the tank lid may cause the toilet to flush.</li> </ul>
10. The toilet flushes when opening the seat cover.	<ul style="list-style-type: none"> <li>A. Does the seat or lid strike the tank lid when they are opened? Moving the tank lid may cause the toilet to flush.</li> <li>B. Is your hand within 60mm above the sensor when the toilet cover is open? When your hand is within 60mm above the sensor, the flush will be activated.</li> </ul>
11. After the manual button is pressed, the flush is weak or does not flush.	<ul style="list-style-type: none"> <li>A. Is the button pressed quickly and until fully depressed?</li> </ul>
<b>IMPORTANT:</b> Use only genuine Kohler parts as shown to avoid property damage.	



## 故障处理表

现象	处理措施
1. 冲水效果不佳。	A. 调节水箱水位至水位线。 B. 完全开启供水管止水阀。 C. 清除存水弯，喷头和缸体冲水孔内的堵塞物。 D. 清除污水管内的堵塞物。 E. 确认电池是否电量低。
2. 无冲水。	A. 重新连接冲水链至冲水把手或冲水阀。 B. 调节冲水链组件防止过松。
3. 未注水时注水阀自行开/关，或注水阀运转不停，水箱注水不停。	A. 调节冲水链至适当松紧度使垫圈不离开冲水阀座。 B. 如果垫圈磨损，变脏或未对准冲水阀座，或者冲水阀破损时，更换冲水阀密封圈或冲水阀。 C. 清除注水阀座以及垫圈阀座中的脏物，或更换活塞/阀座垫圈组件。 D. 如果冲水阀垫圈漏水，则拆下冲水阀座，清洗阀座和垫圈后，重新安装。如仍发生漏水现象，则更换垫圈。 E. 如果水箱水位太高，则相应作出调整。
4. 水箱注水需时过长。	A. 完全开启供水管止水阀。 B. 清洁注水阀进水口，阀帽或供水管。冲洗供水管。
5. 水箱注水时噪音过大。	A. 如果座便器内水压过高，则关小供水管止水阀。做过此类调节后，检查座便器的使用状况。 B. 清除阀帽内的脏物或堵塞物。冲洗供水管。
6. 当尝试启动感应器时无反应。	A. 确认电池安装正确。 B. 确认电池有电。 C. 确认感应器与气泵盒信号线是否松脱。
7. 感应后，听见“滴”声，但马桶不冲水。	A. 确认电池盒挂在水箱后壁上是否压到排水阀钢丝绳？如是，请移动位置避开。 B. 确认气囊盒与气泵盒连接的气管是否松脱。
8. 感应器敏感点不足。	A. 确认手在感应器上方 60mm 范围内。
9. 当我坐在马桶上时，马桶冲水。	A. 是否后仰，碰到水箱盖？水箱盖移动可能导致马桶冲水。
10. 打开马桶盖时，马桶冲水。	A. 当打开马桶圈或马桶盖时，是否碰到水箱盖？水箱盖移动可能导致马桶冲水。 B. 打开马桶盖时，手是否在感应器的上方 60mm 范围内？当手在感应器 60mm 范围内会感应冲水。
11. 按压手动按钮后，马桶冲水较弱或不冲水。	A. 确认按钮是否快速按压及按压到底？
<b>重要：</b> 仅可使用图中所示的科勒公司原装配件以防产品损坏。	

## IMPORTANT CONSUMER INFORMATION 用户须知

### CONSUMER RESPONSIBILITIES

If you live in a hard water area, make certain that the holes in the toilet rim are kept clean to ensure proper bowl flushing. Toilet bowl cleaners should be used at least once a week. Use a long-handled brush to clean the rim holes, and to clean as far into the trap as possible to prevent mineral deposits from forming.

Most toilet bowl cleaners are not harmful to the vitreous china surface of the toilet bowl. Please follow the bowl cleaner manufacturer's instructions carefully.

Do not use abrasive cleaners or solvents.



**WARNING: Risk of property or product damage.**

Do not use in-tank cleaners. Products containing chlorine (calcium hypochlorite) can seriously damage fittings in the tank. This damage can cause leakage and property damage.

Kohler Company shall not be responsible or liable for any damage to these tank fittings caused by the use of cleaners containing chlorine (calcium hypochlorite).



**CAUTION: Don't use any cement while installing the toilet.** Heat expansion of the toilet may damage the feet of the toilet. Kohler will not be responsible for any damage because of using cement.



**WARNING: Risk of product damage.**

Do not throw into the toilet what is easy to block it, such as newspaper, paper pilch, sanitary towel. Do not bump the vitreous china with great force to prevent it from damaging and leaking. Do not use the product in the water below 0°C.



**CAUTION:** Please do not use hard materials (like scouring pad) to clean product surface, especially the product logo.

### 用户责任

如果你居住地方的水质是硬性，你必须保持冲水孔清洁，令座便器冲水正常。每星期应最少使用座便器清洁剂清洁一次，用长把手的刷子清洁冲水孔，并尽量伸入排污管洗刷，防止矿物质积聚。

大多数马桶清洁剂对座便器表面是无害的。请认真遵循马桶清洁剂制造商的指示来操作。

请勿使用腐蚀性清洁剂或溶剂。



**警告：提防楼宇受损或损坏产品。**请勿使用水箱内用清洁剂。含氯（次氯酸钙）的清洁剂会严重破坏水箱配件，从而引起渗漏，或对楼宇结构造成损坏。

科勒公司对此类因使用氯(次氯酸钙)而引致的水箱装置损毁，概不负责。



**警告：在安装本座便器时切勿使用任何水泥。**因为水泥的热膨胀可能使座便器的脚部挤破或损坏。科勒对所有因为水泥安装而引起的座便器破裂恕不负责。



**警告：提防损坏产品。**请不要向便器内冲入新闻纸、纸尿垫、妇用卫生巾等容易堵塞的物品。请不要用重力撞击陶瓷，以防止破损漏水。

不要在0°C以下的水环境中使用。



**警告：**请勿使用钢丝球等硬质材料擦洗产品表面，特别是产品商标处。