



MODERN LIFE 明莱

INSTALLATION INSTRUCTIONS

安装说明书

TOUCHLESS FLOOR STANDING URINAL 3L

落地式自动感应小便器(3L)

K-21842T(直流)/K-21842T-C05(交流)

TOUCHLESS FLOOR STANDING W/ELECTROLYZED WATER 1L/AC

落地式除菌自动感应小便器(交流) (1L)

K-21842T-WEW

TOUCHLESS FLOOR STANDING W/ELECTROLYZED WATER 3L/AC

落地式除菌自动感应小便器(交流) (3L)

K-21842T-EW

TOUCHLESS FLOOR STANDING W/ELECTROLYZED WATER & IOT 1L/AC

落地式除菌自动感应小便器(交流) (1L) 云智能版

K-21842T-WXEW

BEFORE YOU BEGIN

安装之前

- 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.**
- Observe all local plumbing and building codes.
- Carefully inspect the new urinal for damage.
- Site preparation may require additional tools and hardware.
- Fixture dimensions are nominal and conform to tolerances established by ASME Standards (A112.19.2-2018).
- The product complies with GB/T 6952-2015.



CAUTION: Risk of personal injury or product damage. Handle with care. Vitreous china can break or chip if the product is handled carelessly.

- 请通读本说明书，以便了解所需工具、材料及安装程序。请遵照相关章节进行安装，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说明。
- 本说明书所含一切资料，均以印刷时所有的最新产品为准，科勒中国保留随时更改产品特性、包装或供应情况的权利，恕不另行通知。
- 本说明书也包含了有关护理、清洁及保养等重要资料 - 请交予用户保存。
- 遵守当地所有给排水及建筑规定。
- 仔细检查新的小便器是否损坏。
- 准备场地可能要求附加工具和硬件。
- 部件尺寸为标定值，误差符合美国ASME标准(A112.19.2-2018)。
- 本产品符合GB/T 6952-2015。



警告：可能有人身伤害或产品损坏的危险。小心处理，若有所马虎，陶瓷件可能碎裂。

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RECOMMENDED TOOLS AND MATERIALS (NOT SUPPLIED)

所需工具及材料(不随货供应)

- | | |
|---|--|
| <ul style="list-style-type: none"> • Open end/adjustable wrenches • Tape measure • Basin wrench • Pipe wrench • Square • Level • Pliers • Socket wrench with sockets • Screw driver • Seal tape • Connection wire • Wire cutter • Insulation tape • Bushing • Drill • Sealant | <ul style="list-style-type: none"> • 开口/活动扳钳 • 卷尺 • 梅花扳钳 • 管扳手 • 直角尺 • 水平尺 • 老虎钳 • 管钳子 • 十字螺丝刀 • 生料带 • 连接线 • 剥线器 • 绝缘胶布 • 电工套管 • 冲击钻 • 密封胶 |
|---|--|

SPECIFICATIONS

规格

Model	K-21842T(DC w/o Electrolyzed Water 3L)
	K-21842T-C05(AC w/o Electrolyzed Water 3L)
	K-21842T-WEW(AC with Electrolyzed Water 1L)
	K-21842T-EW(AC with Electrolyzed Water 3L)
	K-21842T-WXEW(w/Electrolyzed Water & IOT AC 1L)
Power	DC power unit 4 "AA" size alkaline batteries (Batteries For Largess)
	AC/DC transformer input AC 220V 50/60Hz (Sold Separately)
	AC/DC Switch Power input AC 220V 50/60Hz
Liter per flushing	Water pressure at 0.18~0.55 MPa: Average no more than 1L Water pressure at 0.1 MPa: no more than 1L
	Water pressure at 0.18~0.55 MPa: Average no more than 3L Water pressure at 0.1 MPa: no more than 3L
Temperature	Environmental temperature: 1 to 55℃
Starting pressure	0.05Mpa~0.86MPa
Sensing distance	70 cm away from sensor
Testing time	About 4 seconds
Flushing Mode	Dual flushing (3L)
	Flushing after used (1L)

Note: the sensing distance in the table is measured with a 30x30cm² board as the reflecting surface.

- Sterilized water (refers to the tap water containing hypochlorite generated by chlorine ions after ionization): wash bowl surface by sterilized water generated within working cycle, reduce bacteria growth on the urinal surface.
- Different water quality might cause different sterilization effect.
- K-21842T-WXEW contains a wireless transmission module with the model approval code: CMIIT ID:2018DP2230.

型号	K-21842T (直流) (3L)
	K-21842T-C05 (交流) (3L)
	K-21842T-WEW(智感除菌) (位置指示灯) (交流) (1L)
	K-21842T-EW(智感除菌) (位置指示灯) (交流) (3L)
	K-21842T-WXEW(云智能) (智感除菌) (位置指示灯) (馨香陶瓷) (交流) (1L)
电源	直流电源盒 4节5号碱性电池(AA × 4)
	交流电源盒 输入电压 220V AC 50/60Hz
	开关电源 输入电压 220V AC 50/60Hz
冲洗水量	水压为 0.18~0.55MPa时, 平均不大于1L 水压为0.1MPa时, 不大于1L
	水压为 0.18~0.55MPa时, 平均不大于3L 水压为0.1MPa时, 不大于3L
使用温度	环境温度: 1 ~ 55℃
启动压力	0.05Mpa~0.86MPa
感应范围	距感应探头70cm以内
检测时间	约4秒
冲洗方式	两段冲洗 (3L)
	使用后冲洗 (1L)

注：表中感应范围距离的测定是30x30cm²平板为反射平面。

- 电解水（是指水电解装置电离自来水中的氯离子生成含次氯酸的水）：在电解水工作周期内产生的电解水冲洗便器表面，减少其表面的细菌生长。
- 各地水质不同可能导致除菌效果不同。
- K-21842T-WXEW包含型号核准代码为：CMIIT ID:2018DP2230的无线发射模块。

ROUGHING-IN

尺寸图

* Recommended dimensions for installation only, please adjust according to actual situation.

*仅为建议安装尺寸，客户可根据实际情况调整。

Reference Value
参考值

Unit:mm
单位：毫米

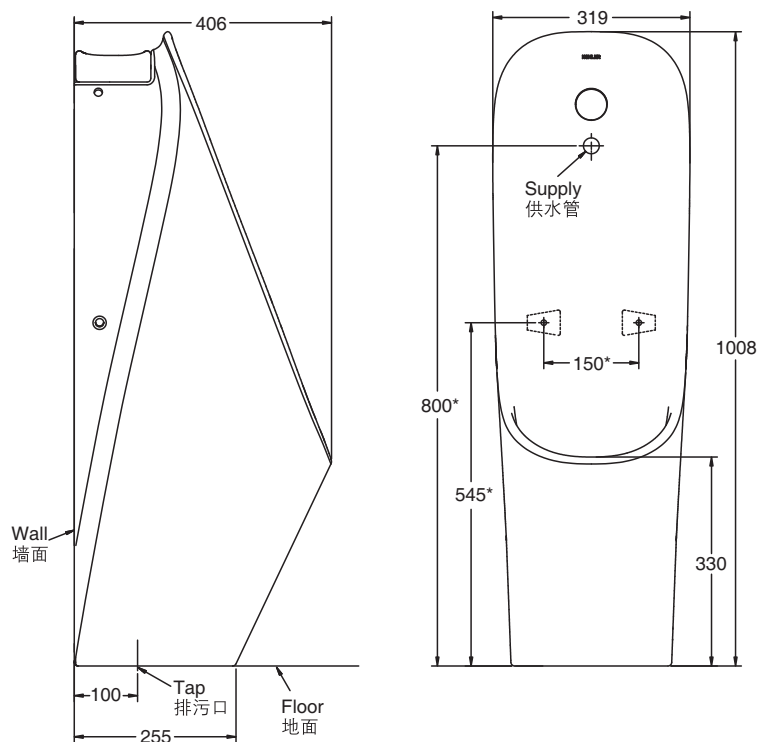


Fig.1
图1

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。

Notice: To ensure an effective flush performance, strongly recommended inner diameter of water supply (including water meter, valve, etc.) is no less than 25mm, and supplied water pressure (sensor inlet dynamic pressure) is 0.18MPa ~0.55MPa.

注意: 为保证有效冲洗, 推荐供水管路(包括水表、阀等)内径不小于25mm, 推荐供水水压(冲洗器进水口流动水压): 0.18MPa ~0.55MPa。

PREPARE THE SITE

NOTE: If a pre-existing waste pipe will be used and will result in an acceptable rim height (refer to the rough-in dimensions), follow the retrofit installation instructions.

For Retrofit Installations

- Turn the water supply line off, remove the existing urinal, then cap off the water supply line inside the wall.

For New Installations

- Install waste pipe as necessary to conform to the roughing-in dimensions.

准备场地

注意: 如果现存的排水管可以使用, 边缘高度符合要求(参考尺寸图), 则参照更换安装说明安装。

对于更换安装

- 关闭水源, 移除现有的小便器, 然后封住墙内的供水管线。

对于全新安装

- 如有必要, 根据尺寸图安装排水管。

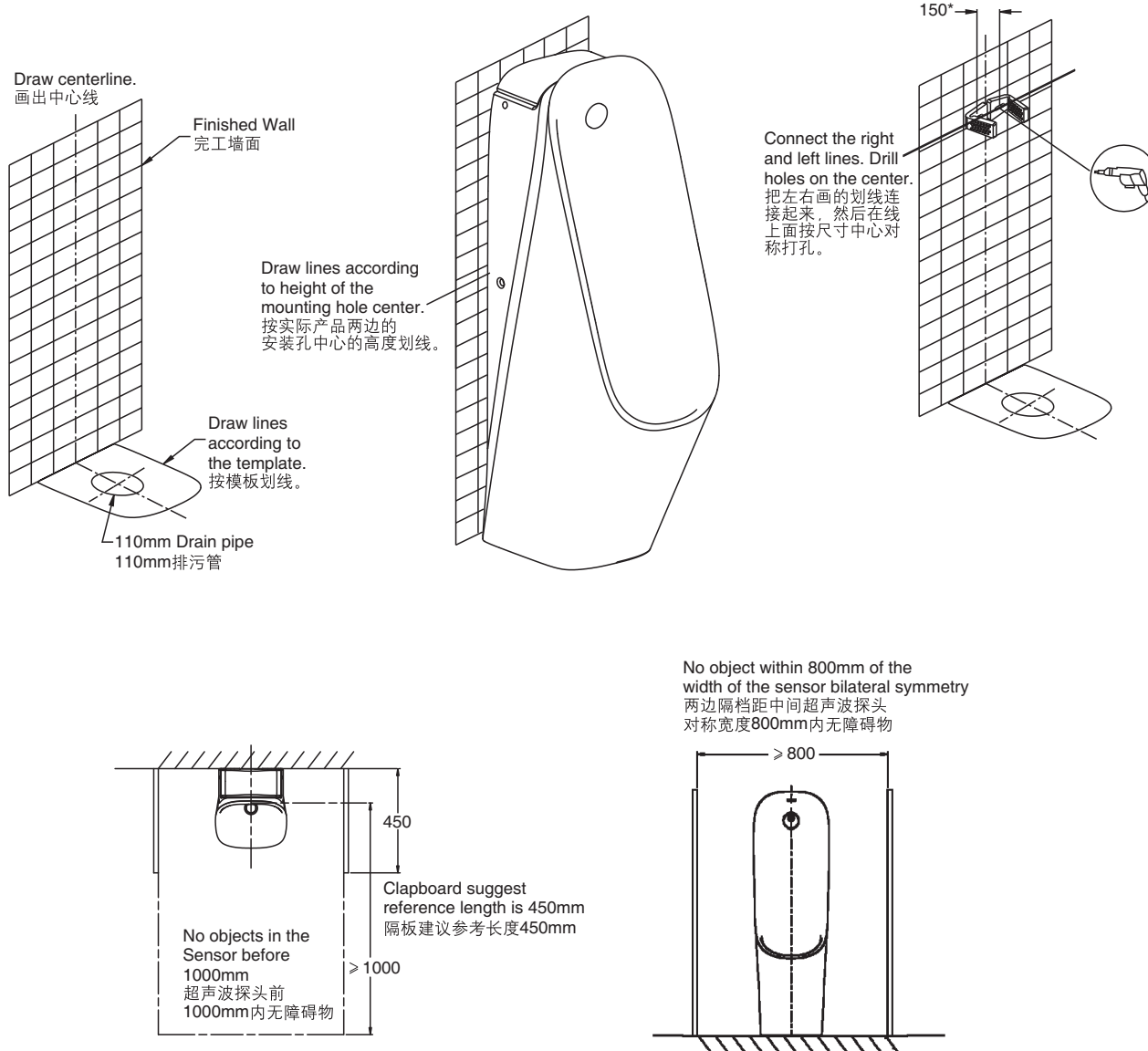


Fig.2
图2

Electronic Components Installation

Electronic components are pre-installed in factory.

电器件安装

此部分出厂前已经安装。

INSTALLATION

安装步骤

Install and uninstall the sensor controller

拆装感应控制盒组件

- Install the sensor controller box.
- Install the screw.
- Connect the sensor wire.

- 装感应控制盒。
- 锁紧螺丝。
- 连接感应线路。

Install and uninstall the Fixture, Valve Assembly

拆装支架阀体组件

Unscrew the screws on the Fixture, Valve Assembly. Remove the Fixture, Valve Assembly from the urinal by moving it.

将支架阀体组件上的紧固螺钉拧松，便可将支架阀体组件从小便器上取下。

Install DC Power Unit

安装直流电源盒

- Take out battery case assy., and loosen the screws (17). Place 4 AA batteries into the battery case according to negative and positive electrode marks on the battery case cover (18). Tighten the screws on the battery case cover (18).

NOTE: do not mistake the battery electrodes, and do not use the new and used batteries together.

- Then insert the battery pack in the battery box bracket, connect each colored connector to the corresponding connector of the same color.

- 取出电池盒组件，旋松螺钉(17)，按电池盒盖(18)上的正负极标示装入4节5号电池，紧锁电池盒盖(18)的螺钉(17)。

注意：电池极性不能装反，新旧电池不能混用。

- 然后把电池盒插入电池盒支架中，将相同颜色接插件分别连接。

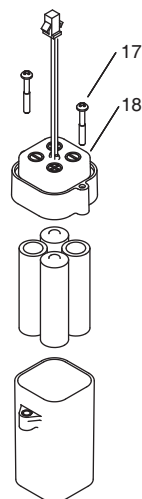
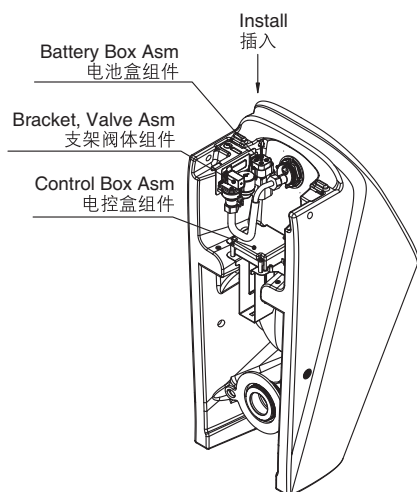


Fig.3
图3

Power Connection

1. Please directly reference to install DC Power Unit when installing K- 21842T (DC).
2. Please match K-16305T-NA AC power unit when installing K-21842T-C05. The way of installation is as below:



CAUTION:

- a. Do not connect 220V AC Power supply to DC wiring terminal.
- b. Do not damage the covering of AC power unit or remove screws to avoid leakage.
- c. Outlet of AC power unit upward prohibited.

A. Fig.6: AC power unit connect way:

AC power unit is connected to electric control box by connection wire.

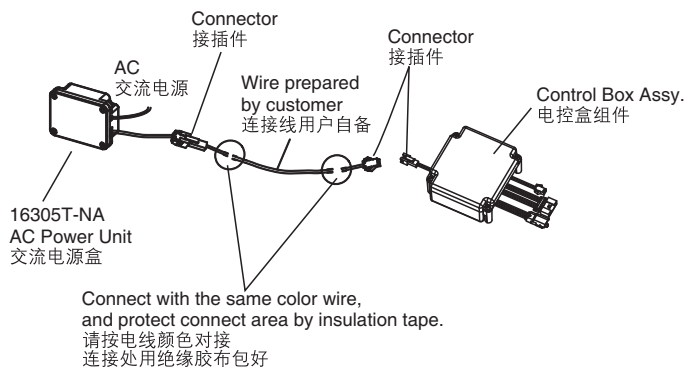


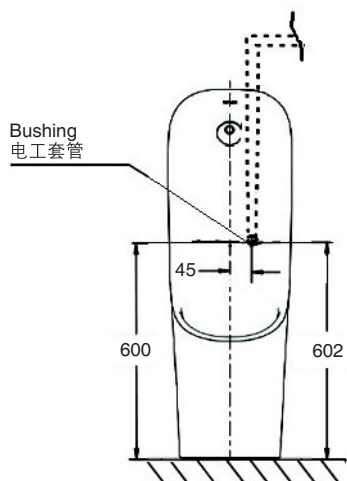
Fig.4
图4

- B. When installing the power unit in the bracket, please layout bushing according to Fig.5 and thread wire through the bushing.

Fig.5: Connection sketch while installing power unit in the bracket.



CAUTION: One AC power unit can supply one sensors at most.



AC Power Unit 交流电源盒组件

AC Power 交流电源

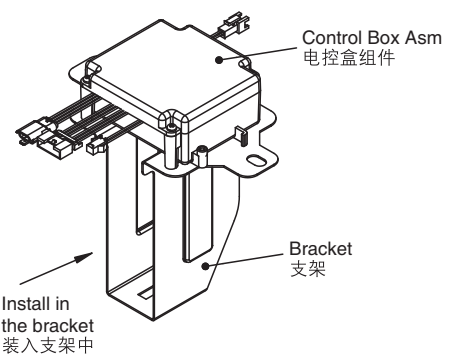


Fig.5
图5

连接电源

1. 安装直流系列K- 21842T时请直接参考安装直流电源盒。
2. 安装交流系列 K-21842T-C05请另购选配K-16305T-NA交流电源盒，安装方式如下：

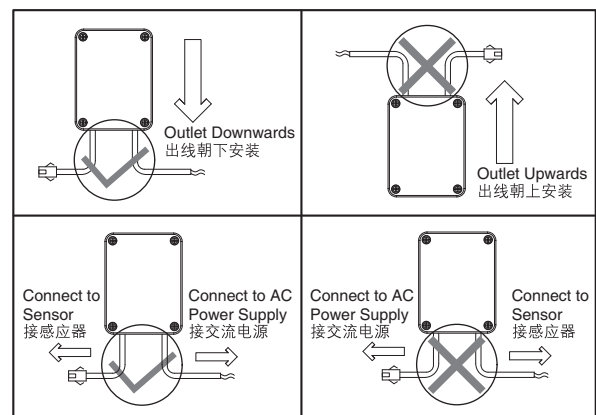


警告：

- a. 禁止将220V交流电源接入直连接线端。
- b. 安装时严禁损伤交流电源盒外壳或移开交流电源盒盖螺丝。
- c. 禁止将交流电源盒出线朝上安装。

A. 图6：交流电源盒连接方式：

交流电源盒通过连接线与电控盒相连。



- B. 将电源盒放在支架中，如图示安装电工套管，管内装入电线。

图5：交流电源盒安装在支架中的连接示意图。



警告： 一个交流电源盒最多可连接一个感应器。

3. AC/DC Switch Power connect way (for K-21842T-WEW/K-21842T-EW/K-21842T-WXEW):

3. 开关电源连接方式(K-21842T-WEW/K-21842T-EW/K-21842T-WXEW适用):

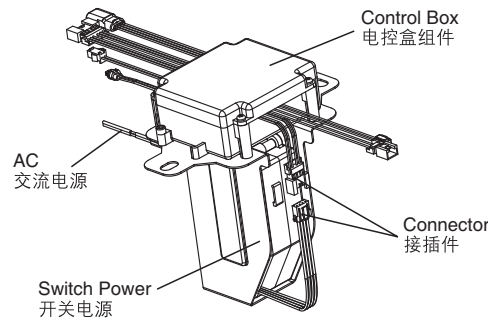


Fig.6
图6

⚠ Notice:

- Keep the connector away from water.
- Don't mistake the direction of inlet and outlet.
- Do not connect the DC output of AC power unit to AC power supply.
- Do not connect to power supply while installing. Connection line is not supplied. AC connection wire with insulating sleeving is recommended. Wire of which the nominal section area of conductor is not less than 0.5mm^2 is also recommend. DC connection line use wire of which the nominal section area is not less than 0.3mm^2 . It is cut according to acted installation requirements (The length of cut wire is recommended less than 10m).
- The head AC power supply must be protected with appropriate fuse.
- Please confirm the AC power supply and water supply should be shut off before maintaining the products with AC power related.

⚠ 注意:

- 不要让电线接插件接触水。
- 不要将进出水方向弄错。
- 不可将交流电源盒的直流输出端与交流电连接。
- 安装时不要向电源盒供电。连接线请用户自备，建议交流电源线采用导体标称截面积 $\geq 0.5\text{mm}^2$ 的电线，直流连接线采用导体标称截面积 $\geq 0.3\text{mm}^2$ 的电线，电线长度根据实际安装需要自行裁剪（建议连接线长度小于10m）。
- 交流电的总电源必须有合适的熔断丝加以保护。
- 维修时必须断开交流电源并关闭水源。

Install urinal

- Check the regulator, see Fig.7.

安装小便器

- 检查节流器，确保节流器还在里面，见图7。

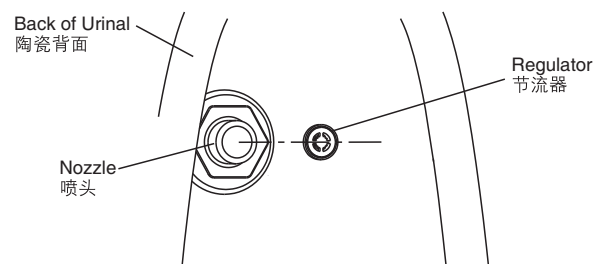


Fig.7
图7

2. Connect inlet pipe: Connect to the corner valve.
3. Install flange (see Fig.8, optional for purchase). Put the urinal against wall and align the bottom with the lines drawn.
4. Insert the screw through the screw hole (see Fig.9) Into the L-shaped fixing block. Tighten the screw.
5. Apply silicone sealant between the urinal and the wall.

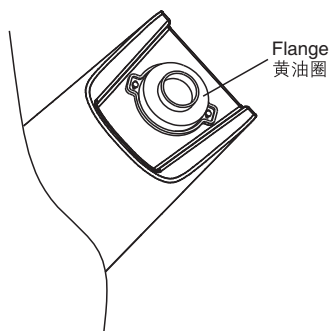


Fig.8
图8

2. 连接进水管：连接到角阀上。
3. 小便器装上黄油圈(见图8，客户自己选购)，然后把小便器底部对齐划线放好，背部靠墙。
4. 再把螺钉穿过安装孔(见图9)打在L形固定块上。然后上好。
5. 小便器和墙的间隙打上玻璃胶。

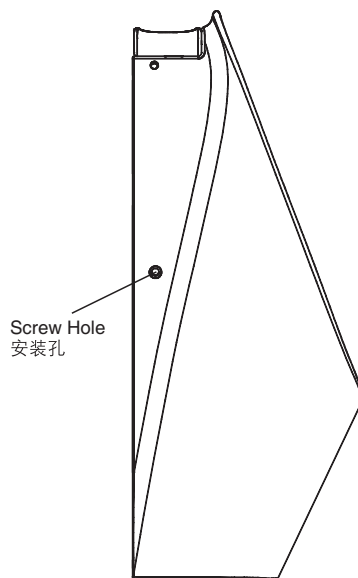


Fig.9
图9

Install Urinal Cover

See Fig.#10

1. Open urinal cover lock package and remove contents. Fix hook and screw as shown.
2. Put urinal cover on the urinal.
3. Use supplied locking tool to install and tighten the screw.
4. Check that the urinal cover is properly locked.

NOTE: Using a 5/8" wrench, assemble and tighten nut, washer and lock nut on both sides of urinal.



CAUTION: Risk of chipping or breaking urinal. Do not overtighten screws on urinal.

安装小便器盖

请参阅图10

1. 打开小便器盖包装，并取出所有物品。如图所示，分别安装挂钩和套筒螺丝。
2. 把小便器盖置于小便器上。
3. 用所附的工具安装并锁紧螺丝。
4. 检查并确保小便器盖锁好。

注意：在小便器两侧，用5/8"板钳组装并拧紧螺母。



警告：小便器有破损和崩裂的危险。不要将螺丝上得过紧。

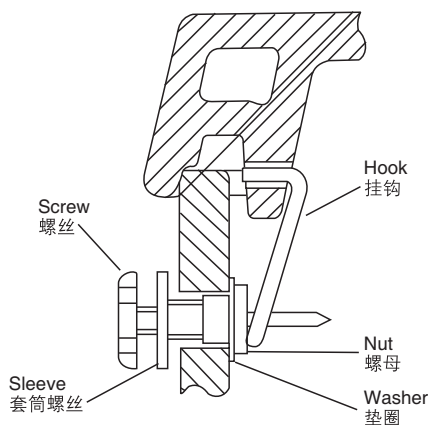


Fig.10
图10

Install fragrance porcelain (for K-21842T-WXEW only)

1. Insert the scent top into the plug.
2. Take out the tube. Fill fragrance into the tube. Do not overfill to avoid overflow.
3. Insert the plug into the tube.
4. Insert the tube into the hole on the urinal cover.

Caution: Be careful when filling fragrance into the tube. Do not drop it onto the electrical components to avoid short circuit and malfunction.

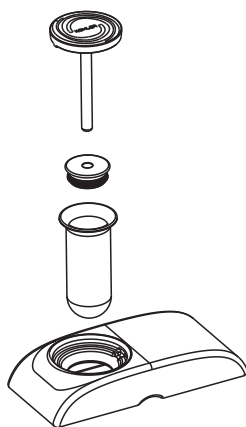


Fig.#11
图11

馨香陶瓷安装(仅适用于 K-21842T-WXEW)

1. 将馨香陶瓷插入胶塞。
2. 取出透明管，香水注入透明管中。请勿注入太多，以免插入馨香陶瓷时溢出。
3. 将胶塞插入透明管。
4. 将整套馨香陶瓷组件小心放入小便器盖的通孔中。

警告：添加香水时，请勿将香水滴落于电器元件上，否则可能会导致电器元件短路、故障。

USER'S GUIDE

使用说明

Notice: The first 2 minutes with power is the standby time for adjusting sensing distance. Persons or subjects should avoid standing before the sensor (See Fig.2). The sensor will not flush during.

注意：刚通电2分钟内为自动调节感应范围的待机状态，感应器前方避免有人站立或有其他物体(参见图2)。在该时间内感应器不冲水。

Electrolyzed Water

The urinal will take a flush Electrolyzed Water every two hours. If the urinal is used during flushing, the electrolysed water will stop.

智感除菌

每间隔2小时冲洗一次。如果冲洗过程中有用户使用小便器的话，电解水会停止工作。

Deodorizing Flushing

The urinal will take a flush automatically when it's used 3 or 4 times in 2 minutes.

防臭冲洗

当2分钟内连续3-4人以上使用时，小便器自动冲洗一次。

Replacement of Batteries

When the batteries run out, please remove the Battery Box Assembly by following the battery installation steps and then replace the batteries.

电池更换

当电池耗尽时，参照电池安装步骤，取下电池盒组件，并更换电池。

MAINTENANCE

维护保养

Clean the Filter Screen

If the flushing volume declines sharply after installation or used for a long time with no cause from water pressure, the filter may need a wash. Please operate as following steps: Remove the fixed cap and take out the filter, clean the filter and then reinstall it.



- Caution:**
- a. Turn off the water supply and power supply before cleaning the filter.
 - b. Avoid damaging or losing the filter during cleaning.

清洗过滤装置

初装或使用较长时间后，如发现出水量明显变小，而非水压原因，可进行以下操作：

将固定盖拆下，取出滤网，刷洗干净后重新装入即可。



- 警告：**
- a. 清洗前，请先关闭水源，切断电源。
 - b. 清洗滤网过程中防止滤网变形损坏或丢失。

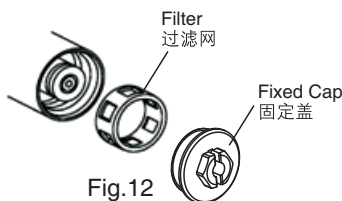


Fig.12
图12

TROUBLESHOOTING

Please make following checks before repair:

Symptoms	Probable causes	Corrective actions
No flushing	1. No power or mistake connected. 2. Out of electricity. 3. Sensor no working.	1. Check the power connect. 2. Replace batteries. 3. Check connector connect or Replace sensor.
No flushing or poor flushing	1. Adjusting bolt not fully open 2. Low water pressure. 3. Filter is obstructed.	1. Open the adjusting bolt. 2. Improve water supply. 3. Clean the filter.
No flashing	1. The small hole of valve core is blocked. 2. The filter of valve core is blocked.	1. Clean the small hole of valve core with thin steel wire. 2. Wash the filter of valve core with a brush.
Light indicator no bright	1. No power or mistake connected. 2. Position Light broken.	1. Check the power connect. 2. Replace Light indicator.
Buzzer alarm	1. Out of electricity(the buzzer will sound every 2s). 2. Battery low voltage(the buzzer will sound every 6s).	1. Replace batteries. 2. Replace batteries.

故障排除

请在委托修理前做以下检查:

现象	可能原因	处理方法
不出水	1. 无电源或接线有误。 2. 电池耗尽。 3. 感应探头不工作。	1. 检查电源连接。 2. 更换新电池。 3. 检查感应探头接插件连接或更换新的感应探头。
出水较差	1. 调节栓未完全打开。 2. 水压太低。 3. 过滤装置脏堵。	1. 打开调节栓。 2. 改善供水情况。 3. 清洗阀芯滤网。
不停水	1. 阀芯小孔堵塞。 2. 阀芯滤网脏堵。	1. 用细钢丝清理阀芯小孔。 2. 清洗阀芯滤网。
位置指示灯不亮	1. 无电源或接线有误。 2. 位置指示灯损坏。	1. 检查电源连接。 2. 更改新的位置指示灯。
蜂鸣器报警	1. 电池耗尽 (蜂鸣器会每隔2s响一声)。 2. 电池低压 (蜂鸣器会每隔6s响一声)。	1. 更换新电池。 2. 更换新电池。

IMPORTANT CONSUMER INFORMATION 用户须知

CONSUMER RESPONSIBILITIES

Do not directly flush the sensor with water. The sensor is an electronic instrument.

Keep the sensor clean.

Do not use eradicator, abrasive powder or oil, acid or alkali liquid detergent.

Do not spray air freshener, disinfectant or other kinds of odious removing, cleaning organic liquid to the sensor directly.

Urinal is designed for use with potable water.

Avoid water that includes a lot of contaminants or acid/lakali water and impure water.

When AC power unit is connected to 220V AC power supply, corresponding protective measures should be taken.

Please confirm no water penetration at the connection area of AC wire, and the connection area is not easy to be affected by damp.

用户责任

感应器为电子器具，请勿直接用水冲洗。

保持感应探头清洁。

禁止使用去污粉、研磨粉及油类、酸性类、碱性类清洁剂。

禁止直接对感应探头喷洒空气清新剂、消毒液或其他除臭、清洁类有机溶剂。

使用水源为自来水或可供饮用井水。

避免使用含有杂质较多或带有酸、碱性的处理水或未加工处理的水。

将交流电源盒接入220V电源时，应采取相应的防卫措施。

应确保交流导线连接处无水渗入以及不易受潮。

Don't connect power unit to AC power supply until the sensor installation is finished.

The head AC power supply must be protected with appropriate fuse.

Please confirm the AC power supply and water supply should be shut off before maintaining the products with AC power related.


All electrical connection must be compliance with related regulation and codes.

All installation staff should be well familiar with installation instruction.


If you live in a hard water area, make certain that the holes in the toilet rim are kept clean to ensure proper 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 urinal. 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 cleaners inside the wash basin. Products containing chlorine (calcium hypochlorite) can seriously damage fittings in the urinal. This damage can cause leakage and property damage.

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

 **WARNING:** Never spit phlegm and throw stub or something else into the urinal.

 **WARNING: Risk of product damage.**
Do not throw into the urinal what is easy to block it, such as newspaper, paper pilch.
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.

务必在感应器安装完毕后，才向交流电源盒供电。

交流电的总电源必须有合适的熔断丝加以保护。

维修交流供电型的产品时，必须首先断开交流电源并关闭水源。


所有电路连接必须符合相关规范和条例要求。

所有参与安装人员都必须熟知安装说明。


如果你居住地方的水质是硬性，你必须保持冲水孔清洁，令小便器冲水正常。每星期应最少使用厕所清洁剂清洁一次，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。


大部份厕所清洁剂都不会损坏小便器表面的釉面陶瓷，但烦请遵照厕所清洁剂生产商指示小心进行。

请勿使用腐蚀性剂或溶剂。


 **警告：**提防楼宇受损或损坏产品。请勿使用小便池内用清洁剂。含氯(次氯酸钙)的清洁剂会严重破坏小便器附件，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)而引致的小便器附件损毁，概不负责。

 **警告：**请勿往小便器内吐痰、扔烟蒂等杂物。

 **警告：**提防损坏产品。
请不要向小便器内冲入新闻纸、纸尿裤等容易堵塞的物品。
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。