## TOTO

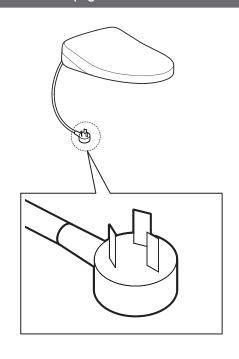
自动感应隐藏式水箱安装说明书 Installation Instruction for Auto-function Concealed Cistern

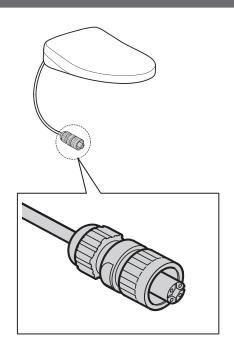
WH173BAT (系列) WH172AAT (系列) WH173BAT series WH172AAT series WH173SGAT

### 致施工人员的重要通知 Important Notice for Installers

因安装的卫洗丽不同,墙壁开孔位置有所差异。 关于详情请确认第13页。

The positions of the holes to drill in the wall vary depending on WASHLET being installed. Please check page 13 for details.





执行标准: GB/T 26730-2011 STANDARDS: GB/T 26730-2011

请将说明书保留备用 PLEASE KEEP THE INSTRUCTION MANUAL FOR LATER USE

563414-1 2019.3

### 安全注意事项(为了安全起见,请务必遵守下列事项)

Safety Precautions (Be sure to follow them for safety sake.)

#### △ 重要提示:

- 1. 隐藏式水箱功能: 蓄水、进排水阀容器、壁挂式便器支架, 使用功能体现在隐藏式水箱工作面板说明书中;
- 2. 此说明书只提供隐藏式水箱安装相关内容。
- 3. 在澳大利亚地区安装时请遵循AS/NZS 3500系列标准或者当地标准.
- 4. 安装必须符合当地标准。

#### Important:

- 1. Functions of the concealed cistern: storage water, inlet and outlet calve vessel, frame of wall-hung toilet, The function reflected in the actuator panel instructions.
- 2. This instruction manual only supports the installation of the concealed cistern.
- 3. For Australia, the installation has to be in accordance with AS/NZS 3500 series of Standards and/or local standards.
- 4. The installation has to be in accordance with the local standard.

请务必在施工之前认真阅读该说明书,并按照说明书的内容进行正确安装。 请务必遵守安全方面的警告及注意事项。



表示如果无视此标志而误操作时, 有可能造成人员重伤或死亡。



表示如果无视此标志而误操作时, 有可能造成人身伤害或财产损失。

应安装漏电开关

或用绝缘变压器。

硅胶

电源插头

#### 图标举例



此图表示绝对不能做的「禁止」内容。



换气扇或换气口

/0.6m 以

██此图表示必须「强制」实行的内容。

### 警告

- ●因为本产品是电器产品,请不要安装在容易被水泼到或是湿度高的地方。 在浴室内使用时,请安装换气扇或换气口使浴室保持良好的空气流通。 请务必在离浴缸 0.6m 以外安装本产品。
- ●请按如下要求设置电源配线用插座。(否则可能会导致火灾或触电。)
  - a. 请在插座的电路上安装漏电开关或用绝缘变压器 (1.5kVA以上,3kVA以下)进行保护。
  - ※若未做上记 a. 项的配线施工时,请务必委托承包该施工的电工商
- ●请确实进行接地线的接地处理, 务必接至地线上。
  - (若未正确地进行接地工程,发生故障或 漏电时可能会导致触电)
  - 注:作为接地线请务必使用接地电阻为 100 Ω以下, 直径为 1.5mm 以上的铜线。
    - ※若未进行接地处理时,请务必委托承包该施工 的电工商。
- ●务必遵循当地标准并将电源线牢固插入插座。 (否则可能会导致火灾或触电。)
- 请务必将本产品连接至冷水供给部分。(否则可能会导致烫伤或机器故障)

在浴室内使用之场合

请确认电源插头已使用硅胶进行了防水处理。

- ●如未进行防水处理,可能会导致火灾或触电。
- ※若未进行防水处理时,请务必委托承包该施工的电工商。
- ●请勿直接让产品受冲击。否则产品破损而可能会导致受伤、物品损坏或漏水。
- ●搬运产品本身时,请务必手持框架。若手持其他部位而搬运的话,因产品破损而可能会 导致受伤或物品损失和漏水。



必须遵守

- ●请勿安装在室外以及有斜坡的壁面或振动激烈的场所。
- 否则会造成安装不稳定而可能脱离掉落,导致受伤,甚至于人员死亡
- ●往卫洗丽供水时, 请勿使用除自来水或可供饮用的井水(地下水)以外的其他水源。
- (否则可能会导致皮肤发炎等。)
- ●请勿使用本地标准以外的其他电源。(否则可能会引导致火灾或触电。)





●施工时,请严格按照施工说明书来正 确地进行。

(如未正确安装,可能会导致漏水。)



- 请勿在打开止水栓的状态下拆下给水滤网排水栓。 (否则,水会喷出。)
- 请勿折弯或压坏给水软管。 (否则可能会导致漏水。)





Be sure to read through this installation manual before installation work and install the product properly according to the descriptions of this manual. Be sure to follow the warnings and cautions for safety sake.



This indication means the case where there is a possible danger which may result in death or serious injury if the WARNING product is used improperly.



This indication means the case where there is a possible damage which may result in injury or only physical damage if the product is used improperly.

Symbol example



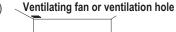
means the actions that must not be performed—"Prohibited"



means the actions that must be performed—"Forced"

### **WARNING**

- Do not install this product in a place exposed to water splash or humid place. When using the product in the bathroom, provide a ventilating fan or ventilation hole so that air in the bathroom flows well. Install the product more than 0.6m away from the bath tub.
- Mount the outlet for electric wiring in the manner as follows: (Otherwise, fire or electric shock may be caused.) a. Install a ground-fault interrupter or insulation transformer (higher than 1.5kVA, lower than 3kVA) in the outlet circuit. \* If the wiring work as shown in a. above has not been made, ask the installer for the work.
- Connect the ground wire to the place where it can be connected securely. (If the ground wire is not connected, electric shock may be caused in case of trouble or ground leakage.) Note: For grounding, use copper wire having the diameter of more than 1.5mm and grounding resistance of less than 100 ohm.





If the ground wire has not been connected, ask the installer for the connection.

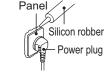
- Be sure to follow the local standard and plug the electric cord firmly in the outlet. (Otherwise, fire or electric shock may be caused.)
- Be sure to connect this product to the cold water supply section. (Otherwise, burn or trouble with equipment may be caused.)

Install a ground-fault interrupter or insulation transformer.

When using the product in the bathroom

Make sure that the electric plug is waterproofed by silicon rubber.

- If it is not waterproofed, fire or electric shock may be caused. \* If it is not waterproofed, ask the installer for waterproof work.
- Do not give direct impact to the product. Otherwise, the product may be broken, resulting in injury, physical damage or water leak.
- Be sure to hold the frame when carrying the product body, If you hold other part, the product may be broken, resulting in injury, physical damage or water leak.





- Do not install the product in open air, on slanted wall or in a place exposed to thumping vibration. Otherwise, installation becomes unstable and the product may fall down to cause injury or death as the case may be.
- Do not use other than tap water or well water (underground water) as supply water to the Washlet. (Otherwise, skin irritation, etc. may be caused.)
- Do not use other power supply than the local standard. (Otherwise, fire or electric shock may be caused.)

### **CAUTION**



 Perform the installation work surely and properly according to the installation manual. (Improper installation may cause water leak.)



- Do not remove the water drain valve w/supply water filter while the water shutoff valve is open. (Otherwise, water may gush out.)
- Do not bend or crush the water supply hose. (Otherwise, water leak may be caused.)

### Cleaning and waste disposal

- 1、请使用清水或稀释的中性清洁剂(如洗洁精等)擦拭和清洁水箱面板,杜绝用腐蚀性强的清洁剂(如:去 污粉、涂料稀释剂、苯等)或铁丝球进行擦拭,以免腐蚀并破坏面板的美观。
  - Use water or dilute mild detergent (such as dishwashing detergent) to scrub and clean the surface, Never use strong corrosive detergent (such as cleanser, paint thinner, benzene and so on) or wire ball to scrub, and to avoid corroding the surface of the product.
- 2、如果您需要废弃本产品,请勿将其作为一般生活垃圾处理,请依照法规经由独立的回收体系进行合适的处 理、恢复和回收。

Please dispose of this product in accordance to the local waste disposal laws and regulations.

### Table of contents

安全注意事项 Safety Precautions	 P.2
简易故障判断及处理方式 Self diagnosis and troubleshooting	 P.4

ĺ			
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	Installation instructions		
	维修保养		P.17
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## 简易故障判断及处理方法 Self diagnosis and troubleshooting

### △ 温馨提示:

以下表格的问题点的处理方法中有注明(针对用户)的,用户可以参照自行解决。如果解决不了,严禁未经指 定的非专业人士进行自行拆解和维修,需及时联系相应的专业人士解决,避免问题扩大化或产生不必要的麻烦 和损失。

#### ∠! Note:

Users may fix the problems on their own if the corrective action is to be taken by the user according to the chart below. Non-professionals are prohibited from disassembling and repairing the product. Please contact the relevant professionals for futher troubleshooting to avoid aggravating the problem.

常见故障	原因	处理方法
	1、入户总进水总阀未开启或停水。	1、打开进水总阀或联系物业解决
		(针对用户)
	2、水箱进水角阀未打开。	2、打开水箱进水角阀
   水箱无法进水		(针对专业人员)
<b>小相儿/</b> 丛近小	3、进水阀浮筒有异物卡住或进水阀传动构	3、检查进水阀并排除异物
	件使得浮筒无法正常下落。	(针对专业人员)。
	4、排除以上原因,依然无法进水。	4、更换进水阀
		(针对专业人员)。
	1、水箱出水口、排水阀底座周围有异物	1、清理水箱内部的异物
	(砌墙时不小心掉进去的砂浆、小石块	(针对专业人员)。
	等),造成排水阀无法很好的密闭。	
- 大笠女北天郎	2、面板调节螺杆外露部分偏长,面板装上	2、调整面板调节螺杆的位置
水箱有水不断	后造成排水阀止水胶垫固定在某一位置	(针对专业人员)。
流到马桶里 	上,无法密闭。	
	3、在水箱里面的面板调节螺杆偏长,顶到	3、剪短调节螺杆
	水箱内部的编织软管或其水箱箱体上,	(针对专业人员)。
	有时会无法回位。	

Common faults	Possible causes	Corrective actions
	Household water supply has not been turned on or has been cut off.	Turn on the household water supply or contact the relevant personnel (To be done by the user).
Water does not	2. Angle valve has not been turned on.	Turn on the angle valve     (To be done by professionals only).
flow into the tank	Residuums in the inlet valve causing the float device to not operate properly.	Check the fill valve and remove the residuum (To be done by professionals only).
	4. None of the above.	Change the inlet valve     (To be done by professionals only).
	Flush valve seal is not completely closed due to residuums around the outlet of the cistern and flush valve (sand or debris lodged in during installation).	Remove the residuums in the cistern (To be done by professionals only).
Water is constantly running into	<ol> <li>The exposed part of the panel's adjust screw is too long, which resulting the rubber of flush valve can not fixed in a certain position and can not sealed.</li> </ol>	Adjust the position of the panel's screw (To be done by professionals only).
the bowl.	The part of panel's adjusting screw in the cistern is too long, which may get stuck in the soft pipe or cistern body and unable to return sometimes.	To cut back the adjust screw     (To be done by professionals only).

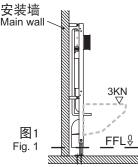
# ATION INSTRUCTION FOR CONCEALED CISTERN

### 重要提示:

- 1. 安装前请仔细阅读说明书, 本公司不承担因安装 人员未按说明书要求施工所造成的损失.产品中包 含润滑剂, 安装便器时选用.
- 2. 在支架安装前,应先确认安装位置,并根据室内装 修的总体策划确定装修完成后的地坪面FFL,在安装 墙上划出FFL线,并始终以此作为高度0的基准线. (见图1)



- 1. Please read through this Instructions carefully prior to installation, and our company shall not be responsible for any loss caused by not installating according with this Instructions. Lubricants are provided for the installation.
- 2. Please confirm the FFL according to the overall indoor fitment method. Line out the FFL on the wall and always regard FFL as datum line of 0 height. (refer to Figure 1)

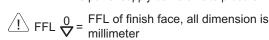




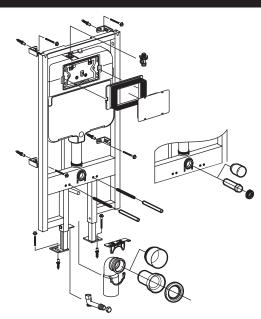
- 2. 3. 在安装支架前,请确认所安装墙壁是承重 墙,墙壁厚度在80mm以上,且当300kgf以 上的力施加于完工后的便器前端时,墙壁应 能承受这股拉力。
- 注: 1. 请在贴瓷砖前安装本产品; 所有的尺寸单位 为毫米.
  - 2. 图示零件若与实物不符, 请以实物为准.
  - 3. 应根据当地的规定而进行电源的配线处理。
  - 4. 电源箱为现场筹备品.



- /!\ 3. Please confirm the wall is the main wall, the thickness exceed 80mm and it can bear more than 300kgf strength when the strength act on the front of toilet bowl.
- Note: 1. Please install the frame before paving the tiles. The dimensional unit is millimeter.
  - 2. As the parts images are for illustrative purposes only, please refer to the actual product if it varies from the parts images.
  - 3. As for the wiring of power supply, be sure to follow the local standard.
  - 4. The power supply box is on-site procurement item.



### **Accessories List:**

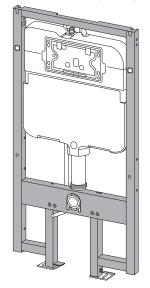


### 包装确认 Included Parts

仔细检查,确保包装中的配件齐全:

Check to make sure you have all these parts from the package:

墙内水箱(支架) In Wall Tank (Carrier)



包装1中的配件

Parts in Bag 1



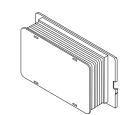
排水管 挡泥堵头 Outlet Pipe Mud Guard



进水管 挡泥堵头 Inlet Pipe Mud Guard



安装说明书 Installation Manual

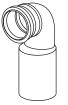


预留推板 Push Plate Rough In



定位片 Installation Template

包装2中的配件 Parts in Bag 2



排水管 Outlet Pipe



上支架 Upper Bracket



螺釘(6) Lag Screw (6)



法兰管 Flange Pipe



Inlet Pipe

Parts in Bag 3

∠ 密封套 Seal Gasket



螺纹柱(2) Threaded Mounting Stud (2)



膨胀塞(6) Anchor (6)



扎带 Cable Tie



包装3中的配件

螺母(2) Nut (2)



垫片(2) Washer(2)



柱头螺栓法兰(2) Stud Bolt Flange (2)



盖子(2) Cap(2)

Parts in Bag 4



润滑海绵 Lubricated Sponge



螺栓(4) Bolt (4)

Bolt (4)

下支架

Lower

Bracket

螺栓(4)

⑨ 螺母(4) Nut (4)



墙脚固定块 Angle Fixture



进水角阀 Angle Valve



包装4中的配件

Parts in Bag 5



分歧管 Branch Pipe



堵头 Plug

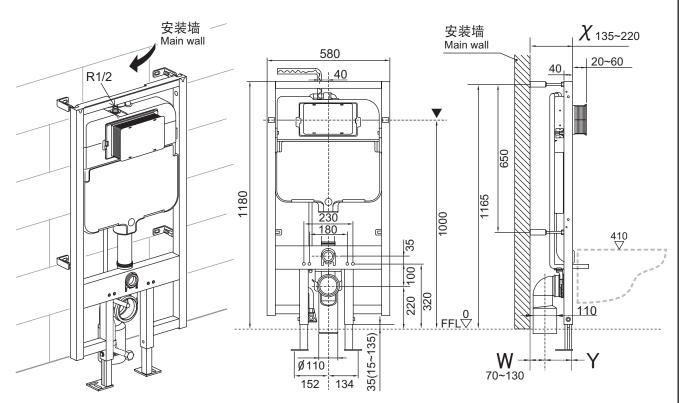


螺栓(3) Bolt (3)

### 安装前的注意事项 Before Installation

#### 基本尺寸及供水管道铺设:

Dimensions and Supply Pipe-laying



χ	W	Υ	摆动45度* 45° swinging*
200~220	70~90	130	0
180~220	70~110	110	
155~215	70~130	85	-
135~195	70~130	65	-

要求排水管中心到安装墙面的距离 (W)在70~130之间.

Please make sure W is between 70 to 130.

- \* 参见第8页"安装方法"
- \* Refer to page 8 for Installation Procedure

### 安装方法 Installation procedure

#### 符号和意思:

Symbols and their meanings



: 需要目视确认。

Visual confirmation required.



: 标识位置。 Mark the location.

水平确认 Horizontal

:需要水平确认。

Horizontal confirmation required.



: 请卷起封胶带。 Wrap the sealing tape.



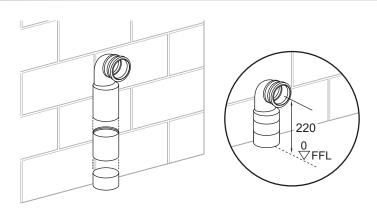
:需要垂直确认。

Vertical confirmation required.

### Installation procedure

### 安装排水管:

Install the discharge pipe



### 安装墙脚固定块、调整地板固定支架:

Install Angle Fixture and adjust floor-fixing bracket



水平确认 Horizontal



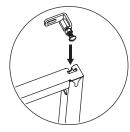


 $\chi$  < 170时螺栓长度为75mm

 $\chi$  <170: Bolt length of 75 mm

垂直确认 Vertical

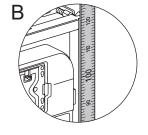
A 安装墙脚固定块。 Install Angle Fixture.



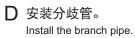






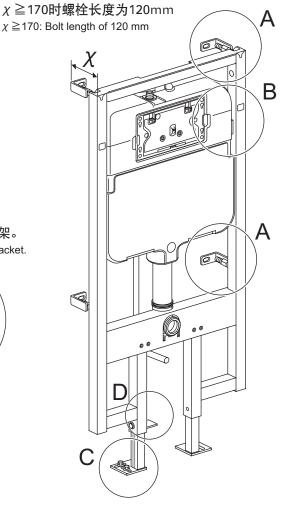


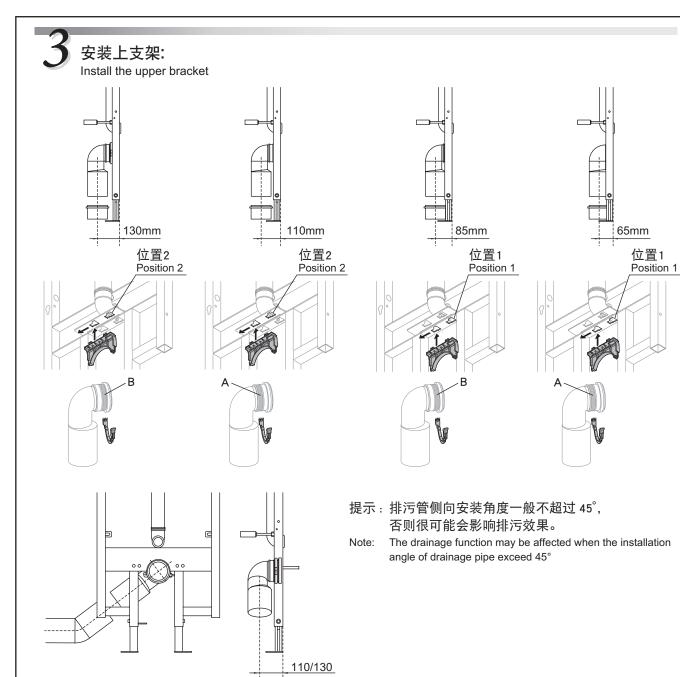












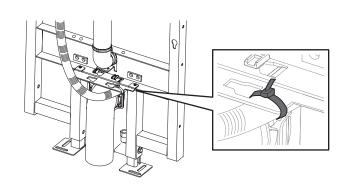
## 4

### 固定供电电缆(绝缘锁):

Secure the power supply cable (wire band)

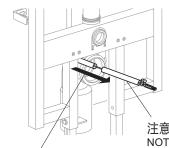
#### 如下图所示拉出供电电缆的波纹管。

 $\mbox{{\sc Pull}}$  the power supply cable from the corrugated pipe, as shown in the figure below.

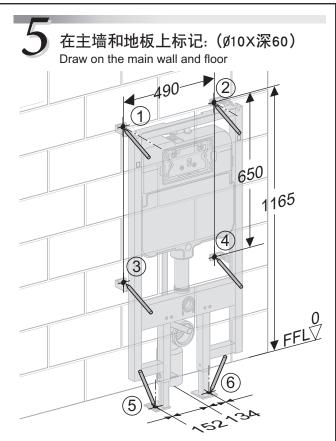


#### 将波纹管固定在墙壁厚度+10mm的位置。

Use provided cable tie to secure the power supply cable in place with an additional 10mm extended from the finished wall.



墙壁厚度+10mm +10 mm the wall thickness 注意:请勿卸下防护软管。 NOTICE: Do not remove the protective tube.



# 膨胀螺栓的使用方法:





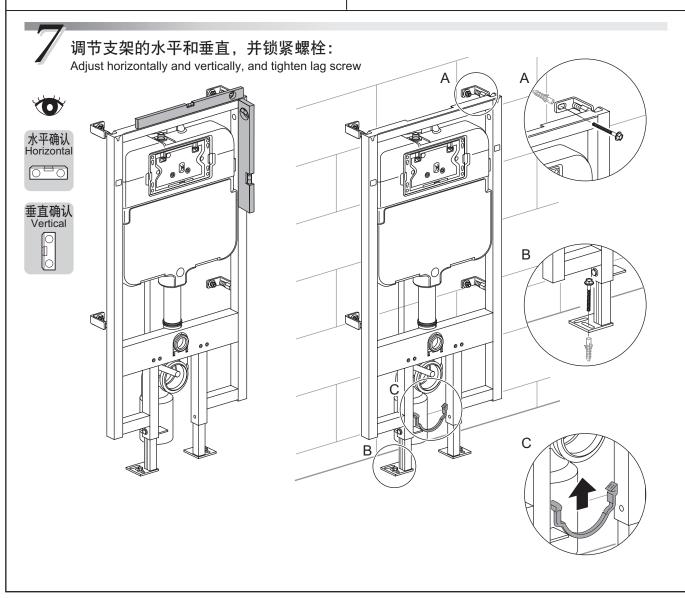
深60mm Depth 60 mm

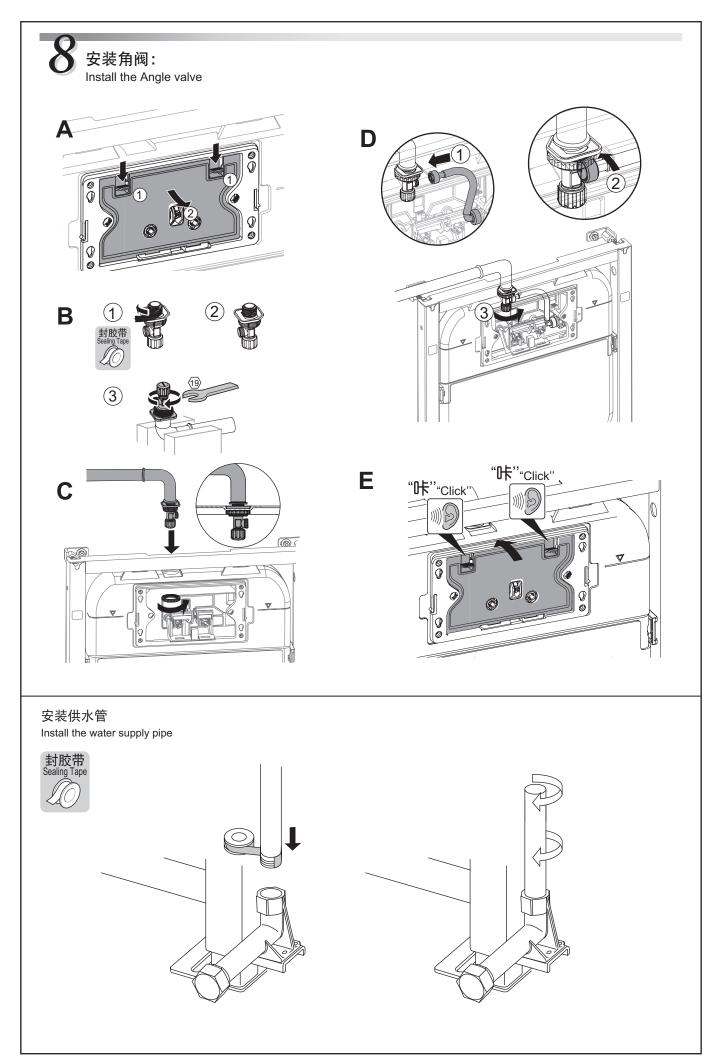
#### 步骤说明:

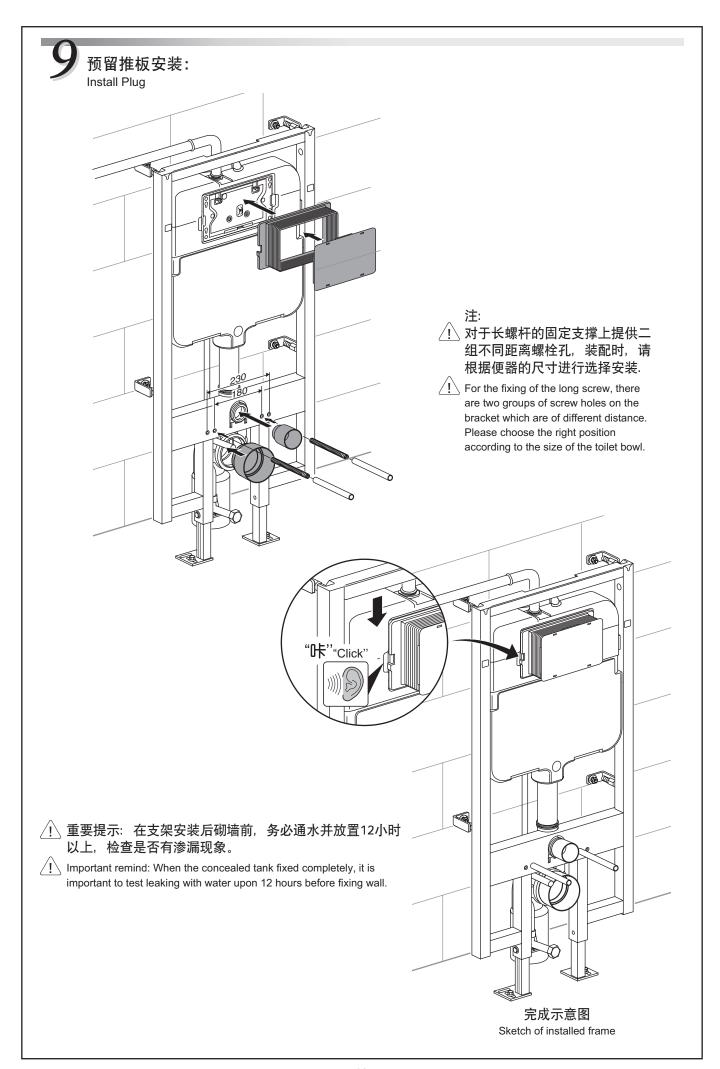
- 1. 钻孔 Ø10X深60;
- 2. 装入膨胀螺栓;

As shown on picture:

- 1. Drill Ø10\*60;
- 2. Insert anchor;





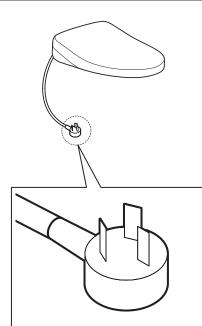


## 10



### 因安装的卫洗丽不同,墙壁开孔位置有所差异。

The positions of the holes to drill in the wall vary depending on WASHLET being installed.



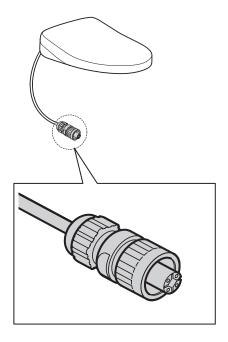
电源插头形状可能随国家/地 区不同而有差异。请确认现 有的电源插头的形状能否保 证正常安装。

Power plug shape may vary by country. Please confirm which Power plug shape you have for correct installation.



如果是配有插座插头的卫洗丽, 请前往第14页。

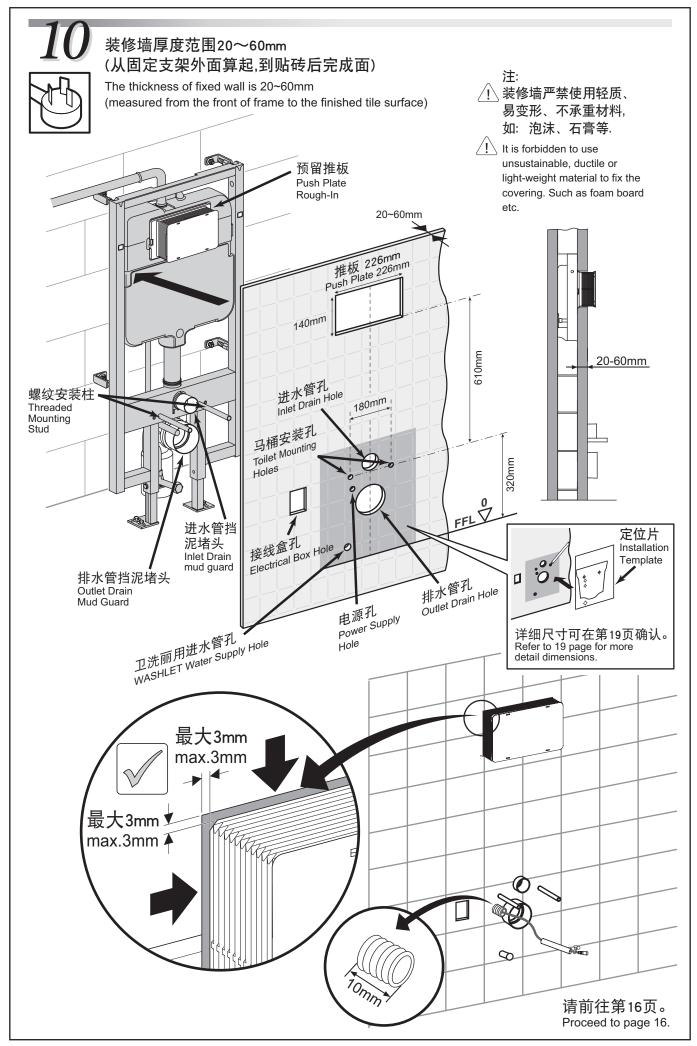
For WASHLET with an attached outlet plug, proceed to page 14.

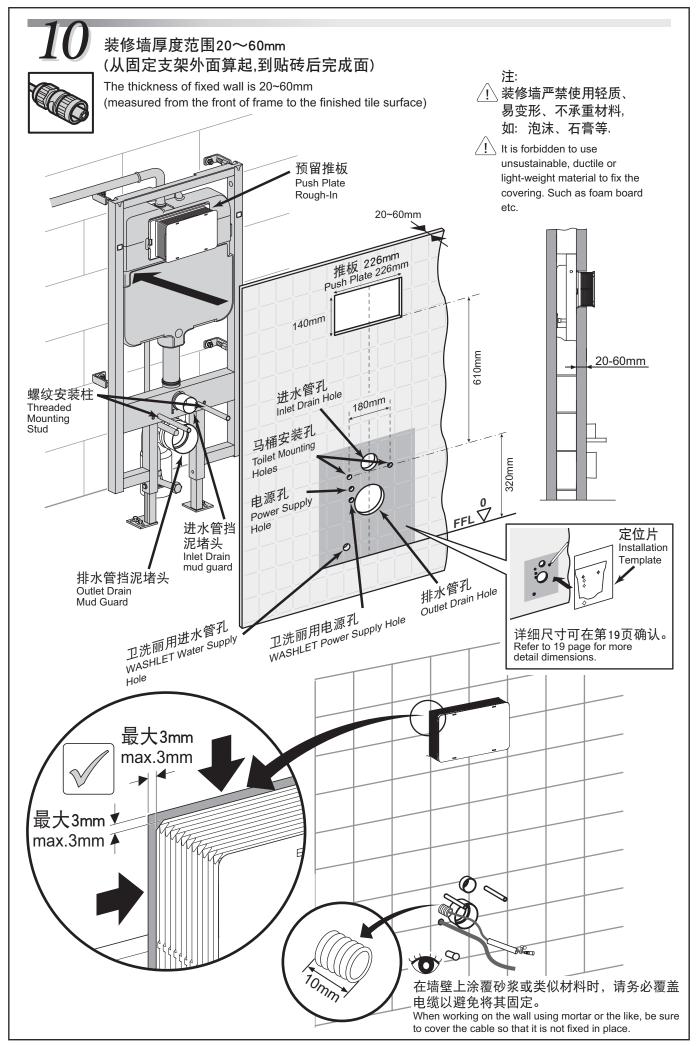




如果是配有上述插头的卫洗丽, 请前往第15页。

For WASHLET with the above plug attached, proceed to page 15.



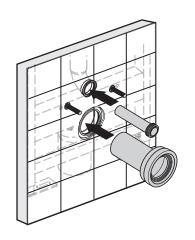




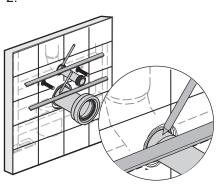
安装坐便器: Install the toilet



1.



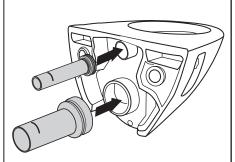
2.



将直管分别插入冲水管和排水管到 位,并画线标识.

Set Straight Pipes into Flush Bend and Drain Bend properly, and marks lines.

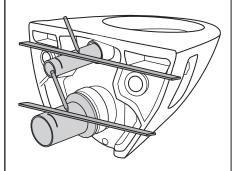
3.



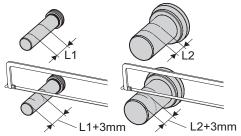
分别在两根直管橡胶垫上抹上润滑 油,再插入便器.

Add lubricant onto the Rubber Gaskets of two Straight Pipes and set them into Bowl.

4.



5.



冲水直管所画线标识之间L1; 排水直管所画线标识之间L2. 如图切割直管.

L1 is the distance of two marks on Flush Straight Pipe, and L2 is that of two marks on Drainpipe Straight Pipe.

Cut Straight Pipe just as shows.

6.

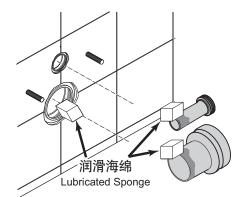
将锯短的两管管口端面打磨倒 角(如图), 并去除毛边.

Chamfer and trim the cutting edges on the shortened Straight pipes (as shows).

7.

如图画线标识.

Mark lines as shows.



取出带有硅油海绵在直管与弯管的结合处 抹上硅油.

Take out the sponge with silicon oil and smear it on connecting edges of Straight Pipe and Bends.

便器类型





请进入步骤9.

Proceed to step 9.



请按照便器附带的施工说明书 进行安装.

Install according to the Installation Guide enclosed with the toilet bowl.

配件用于安装抽水马桶。请参 见抽水马桶安装手册。

The parts are used for installing toilet bowl. Please see the installation manual of toilet bowl.

螺母(2) Nut (2)







柱头螺栓法兰(2)

盖子(2)

## 维修保养

Servicing procedures

#### 冲洗阀的维护及更换、自动冲洗单元的更换

Servicing and / or Replacing the Flush Valve, Replacing the Auto Flush Unit

1.



拆下并拉出防溅罩。

Remove the splash guard and pull it out.



按住拉手拆下驱动件。

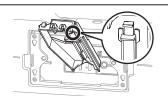
Push on the tab to remove the actuator.



将冲水阀的两根拉杆倾斜至右侧。

Tilt the two pull-up rods of the flush valve to the right.

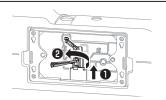
7.



拉紧图中所示拉手拆下压紧支架。

Remove the hold-down bracket by pulling on the tab indicated.

9.



拉起冲水阀, 旋转拉杆。

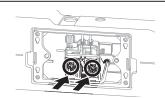
Pull the flush valve up, and rotate the rods.

11.

冲水阀另一端的橡胶件可以拆下进行清洁或更换。

At the other end of the flush valve, the rubber piece can be removed for cleaning or to be replaced.

2.



关闭水箱中的进水角阀,然后按下驱动件上的按钮进 行冲水。

Close the shutoff valve in the tank, and then push the button on the actuator to flush the water.

4.



拆下冲洗阀的电缆和固定支架的金属线软管。

Disconnect the cable from the flush valve and wire tube from the hold-down bracket.

6.



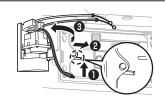
拆下自动冲洗单元的中继线束。

※请注意拆下的电线不要沾水。

Remove the relay harness from the auto flush unit.

\* Make sure that the cord does not get wet after removing it.

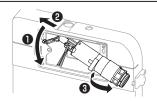
8.



一边抬起自动冲洗单元的卡扣,一边向右滑动。

Pull the snap fastener on the auto flush unit up as you slide it to the

10.



拉出时旋转整个装置。

Rotate the whole unit as you pull it out.

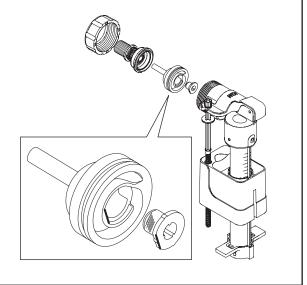
按照与上述相反的步骤操作,便能将零件安装回水箱。

To install the parts back into the tank, do the reverse order.

#### 清洁进水阀滤嘴

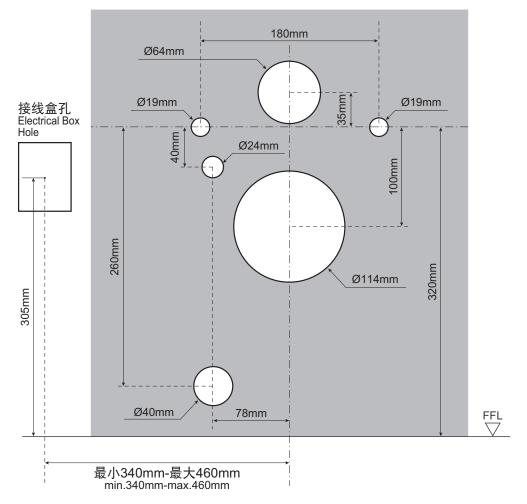
Cleaning the Filter of the Fill Valve

- 1. 按上述操作,关闭进水角阀,然后拆下进水阀。
- 2. 如图所示,拆开进水阀,然后用水清洗过滤网,或者 用刷子清除污物。
- 3. 按照与上述相反的步骤操作,便能将进水阀安装回原来的位置。
- 1. Close the water shutoff valve, and then remove the fill valve as described above.
- 2. As shown in the figure, disassemble the fill valve, and then either clean the filter with water or use a brush to clean any dirt from it.
- 3. To install, follow the procedure in reverse to return the fill valve to its original position.

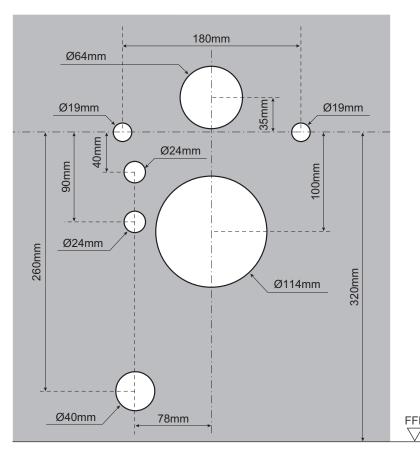


# 墙壁面板详细尺寸。 Detail dimensions for wall Panel.









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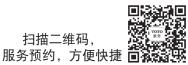
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