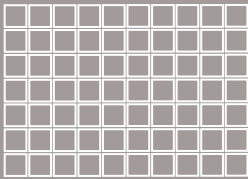
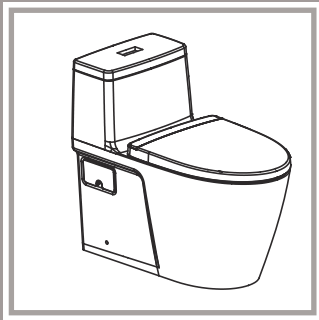


连体座便器安装说明书

39315000
99.0567.031/ECN 235920/11.15

安装说明书



感谢阁下选用我们的产品……我们的产品多年来一直是优良质量的标志。为了有助于安装顺利进行，请您在开始安装之前仔细阅读这些指南，也请查阅推荐的工具和材料表；小心打开您的新产品。

⚠ 警告：易碎产品。小心轻放以避免产品破碎和人身伤害。

注意：图片可能与真实产品不符（请以实物为准）。

所有的安装程序必须严格遵从当地的卫浴和建筑法规条例。

备注：此安装说明书只针对座厕部分的安装予以简要说明，水箱配件及盖板的安装请分别参见相应的安装说明书。

使用注意事项

- 1、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。
- 2、请不要用重力撞击陶瓷，以防止破损漏水。
- 3、不要在零摄氏度以下水的环境中使用。

用
使
来
将

推荐工具和材料（客户自备）

油泥刀	可调扳手	鲤鱼钳	十字型螺丝起子
扳手	水平尺	钢锯	一字型螺丝起子
冲击钻	矽胶	卷尺	

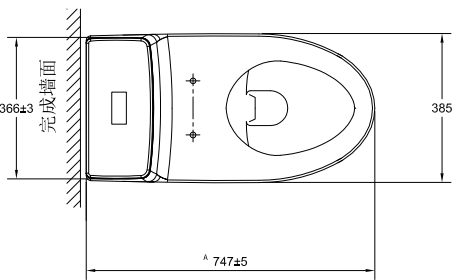
基本尺寸

每种型号的产品都提供了尺寸图。
注意：该产品尺寸图仅供参考，产品具体尺寸可能在公差范围尺寸内有所变化。

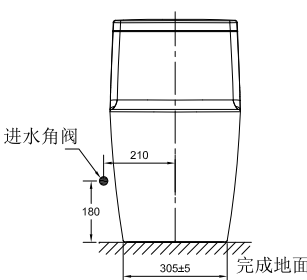
用水量： 3/4.5 升
额定用水效率等级：1级
标准号： GB25502-2010

单位：毫米

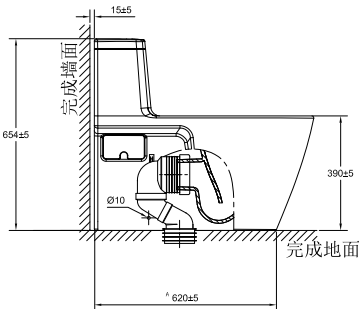
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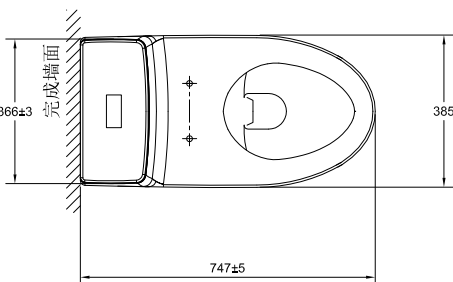
顶视图



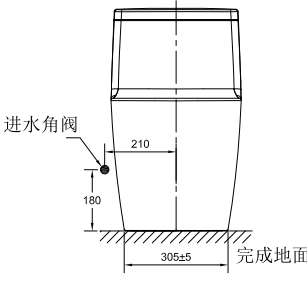
前视图



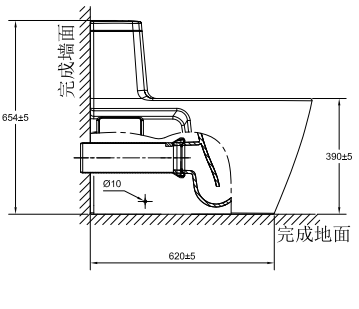
侧视图



顶视图

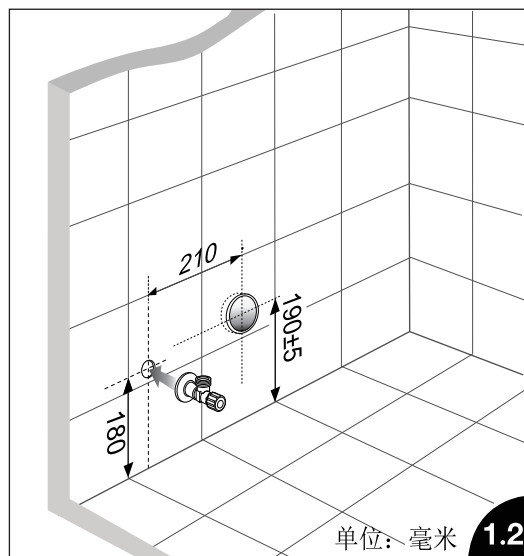
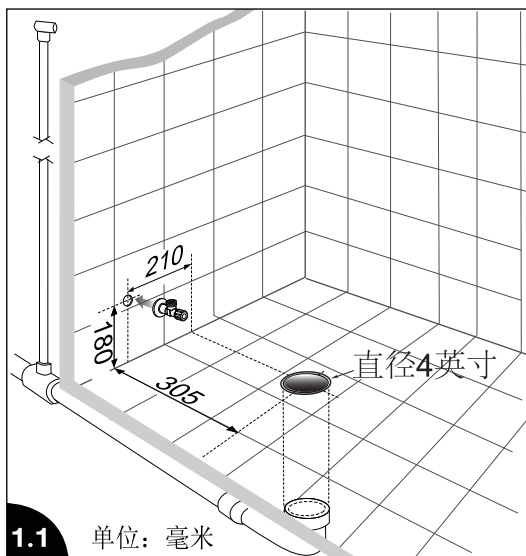


前视图



侧视图

管道与进水角阀分布图



进水角阀：

进水角阀的联接尺寸为直径1/2英寸。

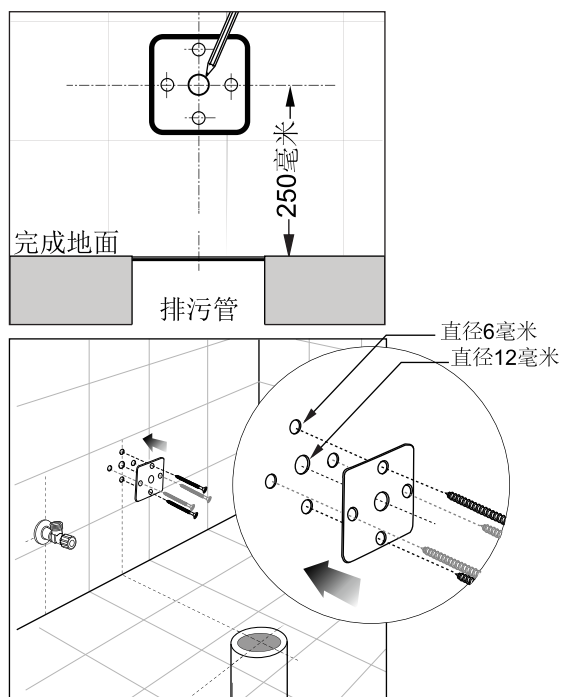
排污管（图1.1/1.2）：

内径102毫米的标准管，安装时，注意排污管必须安装成一定的倾斜度（每100厘米有2厘米的倾斜度）。

排气孔：

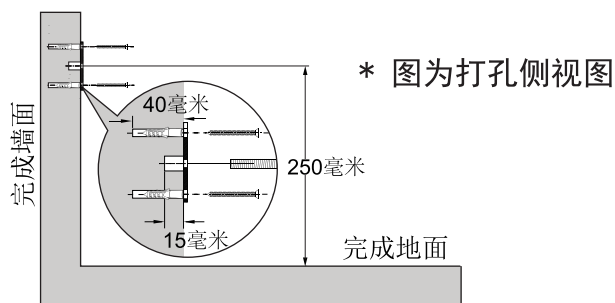
不得小于直径1-1/2英寸，必须与排污管相连。

安装墙面固定装置



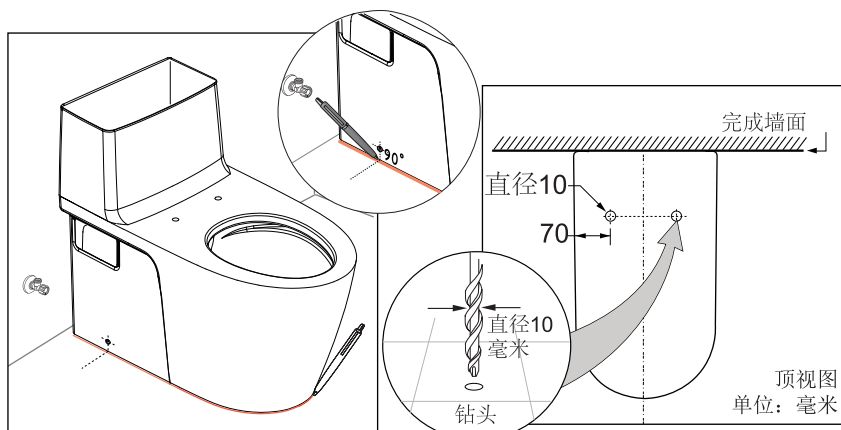
2.1 在墙面的指定位置安装支撑板。

2.2 在墙面的标注位置打孔并固定支撑板。

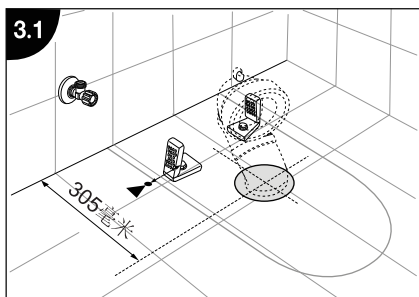


3

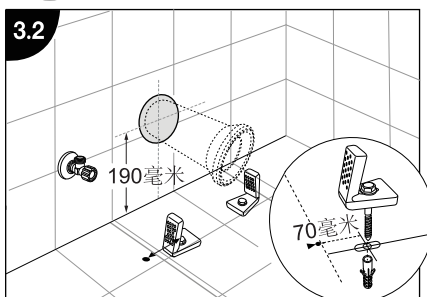
安装地面固定装置



3.1



3.2



将座厕放到地面上,并沿座厕底部边缘作标识以便于打孔。

安装底排排污管请参考图 3.1。

安装横排排污管请参考图 3.2。

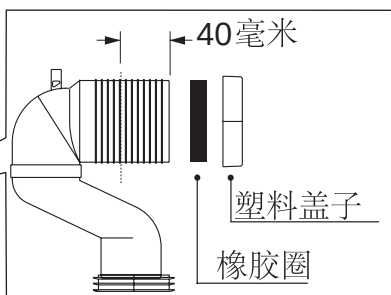
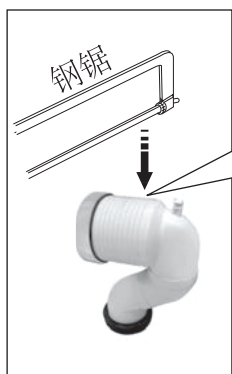
用直径为10毫米的钻头在地面标注位置打孔,并按图示安装地面固定装置。

4

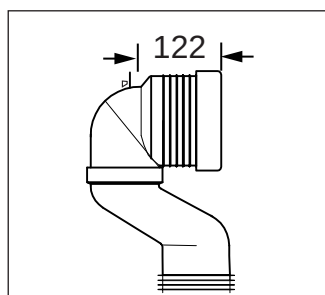
安装墙面固定装置

请如下图剪切多余的弯管部分。

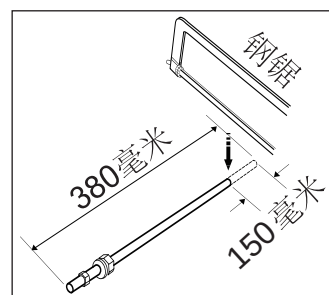
305毫米坑距弯管的切割



此图为排污管切割之前。



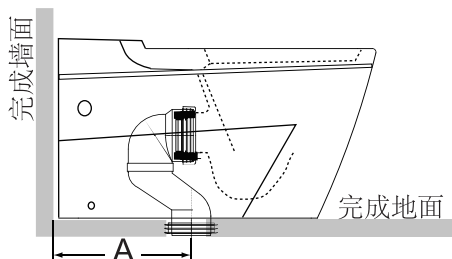
此图为排污管切割之后。



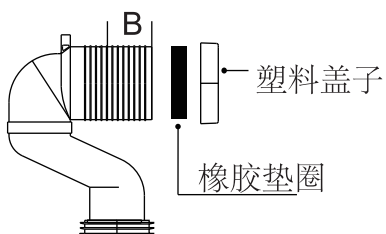
此图为只支撑杆的切割数据。

墙面连接装置的计算方法

其他坑距的弯管切割



A = 排污管底部圈面中心距到墙面的距离。
B = 排污管接头切割部分的长度。
C = 支撑杆切割部分的长度。



- 图为排污管切割图。

如果，265毫米<A的长度<305毫米。

$$B = 40 - (305 - A)$$

$$C = 150 + (305 - A)$$

如果，305毫米<A的长度<325毫米。

$$B = 40 + (A - 305)$$

$$C = 150 - (A - 305)$$

注意：

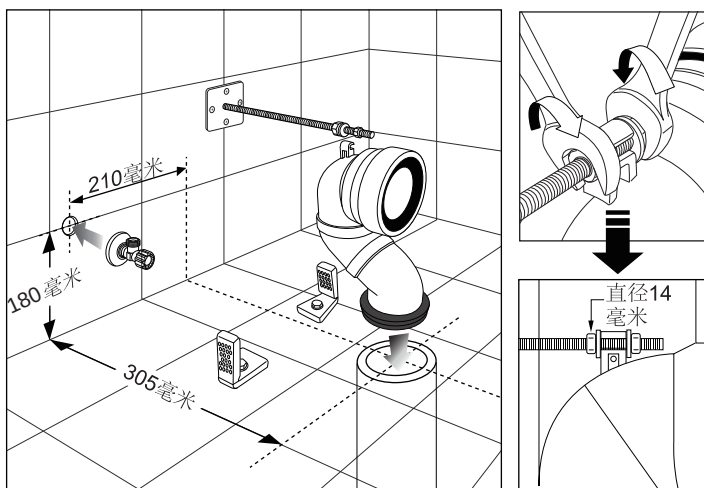
如果A的长度大于340毫米，那么墙面到水箱之间的距离将会很大。



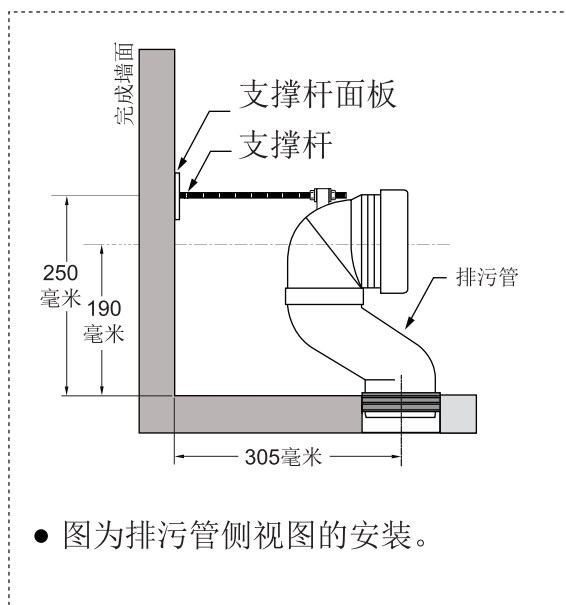
- 图为支撑杆切割图。

5

安装排污管以及支撑杆装置



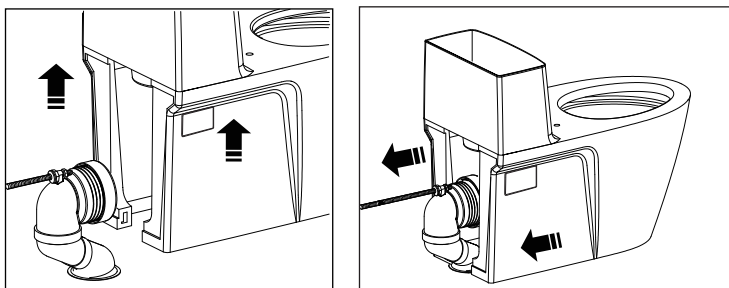
图为排污管的安装。



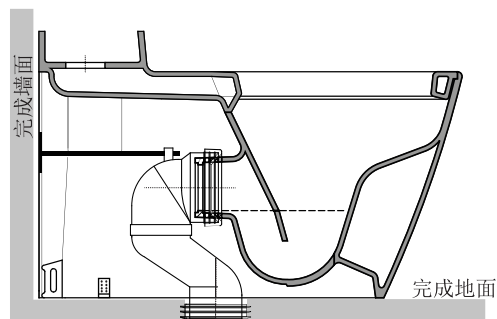
- 图为排污管侧视图的安装。

6

安装座厕



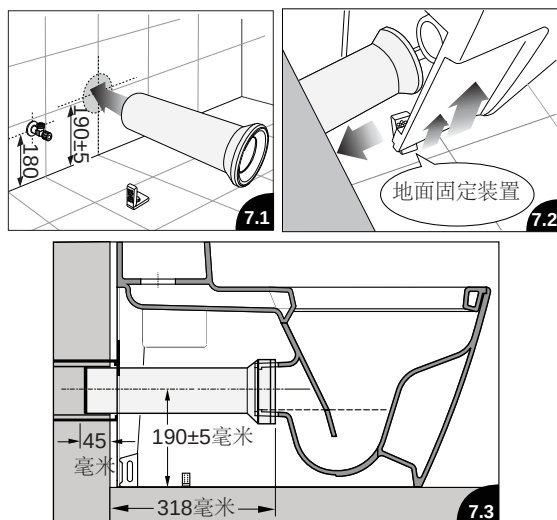
如图所示，轻微提起座厕，同时将弯管接口连接到座厕排污孔，请务必确保两者吻合。



图为座厕安装的侧视图。

7

安装横排管道



如图7.1和7.2的建议尺寸将排污管插入墙面管道孔内。

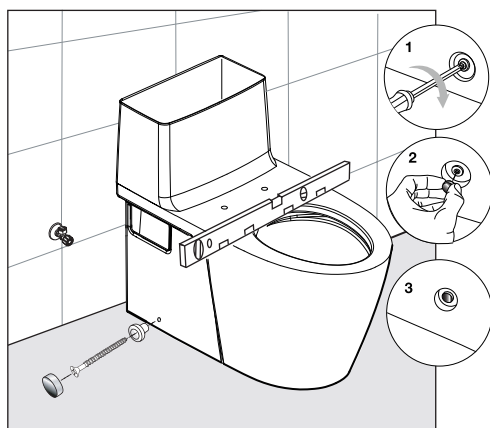
注意：

如果有必要，可以在排污管与墙面接口处涂一圈PVC胶（不提供）使其密封性能更好。

将座厕向排污管方向移动，使其出口与排污管连接。

8

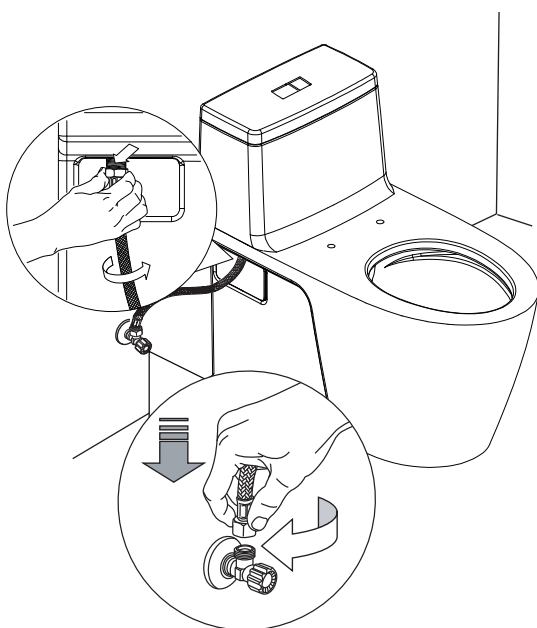
固定座厕 / 检测水平



先用水平尺检查其水平，然后用提供的螺丝按图示将座厕固定到地面上。

9

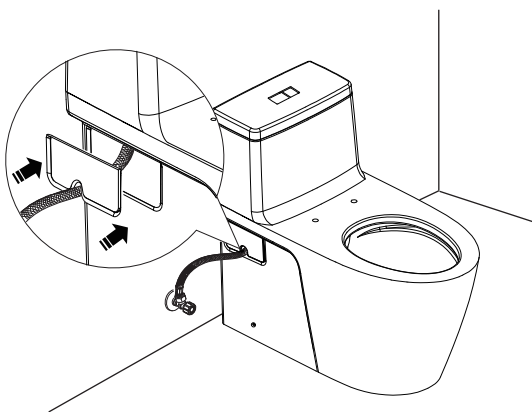
连接水箱的供水软管



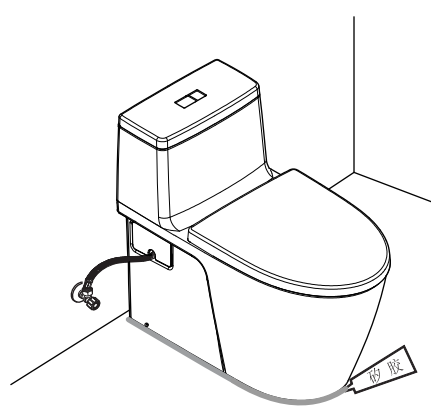
将供水软管连接到供水角阀上。

注意：

在连接供水软管和角阀之前先关闭水源。



将侧盖魔术贴与陶瓷魔术贴相粘接。



- (1) 将供水软管连接到供水角阀上。
- (2) 按照盖板安装说明书安装座厕盖板。
- (3) 在座厕底部边缘涂上矽胶。

注意：矽胶不在提供范围内。
严禁使用水泥固定座厕。
 矽胶的干燥时间不低于24小时。

一般故障排除指南

问题描述	潜在原因	解决办法
1. 冲水不良	a. 水位线比要求的低 b. 冲水阀拍盖关闭过快或没打开 c. 冲水按钮或手柄损坏需更换 d. 水压过低 e. 座厕排污水道或排污管堵塞 f. 使用水箱清洁剂有沉淀物 g. 楼房无管道排气孔	a. 重新调整水位至正确水位线 b. 检查有无脏物附着在出水阀拍盖 c. 更换 d. 正常水压必须高于20psi e. 清理堵塞 f. 清理水箱，停止使用水箱清洁剂 g. 安装管道排气孔
2. 漏水	a. 水位过高，高于水件溢水口 b. 关闭进水角阀，若水仍不断渗入座厕，检查出水拍盖是否变形，或橡胶密封不良 c. 关闭进水阀，水位线低于水件溢水口，若水仍不断渗入座厕，进水阀止水阀内可能有脏物 d. 控制出水阀拍盖装置，收得太紧导致拍盖无法关严 e. 冲水阀手柄式按钮需更换	a. 重新调整水位至正确水位线 b. 更换或调整橡胶密封圈或根据需要更换出水阀 c. 关闭进水阀，卸下进水阀塑料帽，清洁后重新安装或更换止水阀阀芯 d. 更换出水阀 e. 更换
3. 进水管漏水	a. 安装不良 b. 水压过高	a. 根据安装说明重新安装 b. 水压不得超过80psi

保 养 和 清 洁

当您清洁座厕时，请使用温和的肥皂水，然后用清水清洁并使用软布擦干。避免使用洗洁精、消毒剂，避免在气雾剂容器内清洁产品。杜绝使用颗粒状的清洁粉末或者在座厕上放置粗糙的座垫。一些浴室的化学药品和化妆品可能有害于座厕的光洁。

⚠ 警 告

不要在水箱内使用清洁剂，含氯（次氯酸钙）的清洁剂会严重破坏水箱内的装置，从而引起渗漏或楼宇结构损坏。公司不会对由于使用此种含氯（次氯酸钙）的清洁剂而损坏水箱内装置负责或赔偿。

Pure Freude an Wasser



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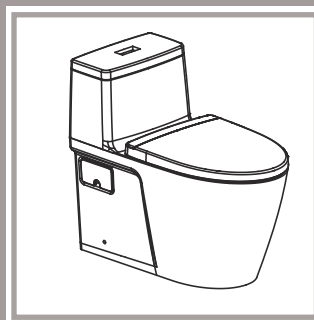
Far East Area Sales Office:
+65 6311 3600
info@grohe.com.sg

VORTEX OP TOILET

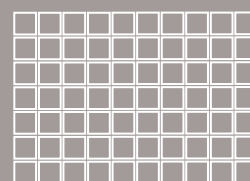
39315000

99.0567.031/ECN 235920/11.15

Installation Manual



GROHE



Thank you for selecting our products which have been the benchmarks of fine quality for years. To help ensure that the installation process will proceed smoothly, please read these instructions carefully before you begin. Also review the recommended tools and materials in the list, carefully unpack and examine your new plumbing fixture.

ALL INSTALLATION PROCEDURES MUST COMPLY IN STRICT ACCORDANCE WITH APPLICABLE LOCAL PLUMBING AND BUILDING CODES.

Remark : This installation manual is only for installing the ceramic parts. For the tank or seat & cover installation, please refer to its respective manual.

RECOMMENDED TOOLS AND MATERIALS

Putty Knife

Adjustable Wrench

Channel Lock Pliers

Tape Measure

P plumber's Putty
or Caulking

Phillips Screwdriver

Pipe Wrench

Drill

Hacksaw

Level

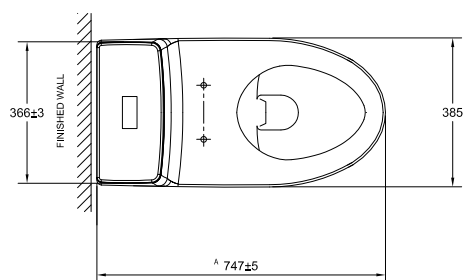
Regular Screwdriver

PRODUCT DIMENSIONS

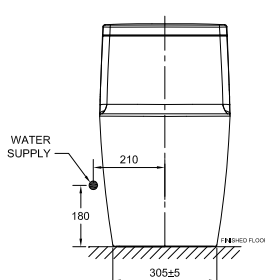
Dimension diagrams are provided for each model.

Unit : mm

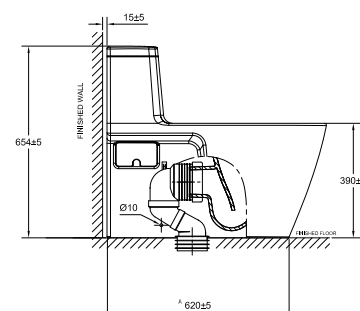
Note: dimensions are nominal and may vary within the range of manufacturing tolerances.



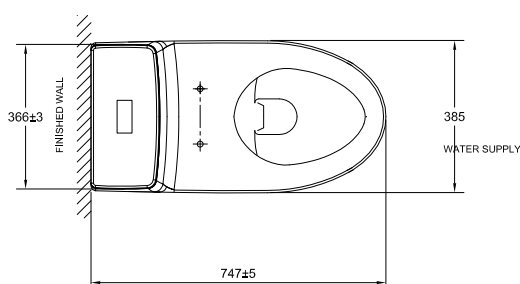
TOP VIEW



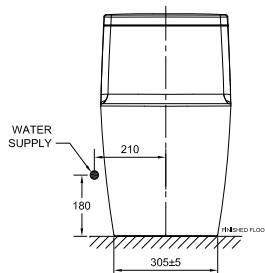
FRONT VIEW



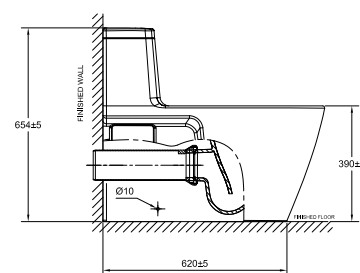
SIDE VIEW



TOP VIEW

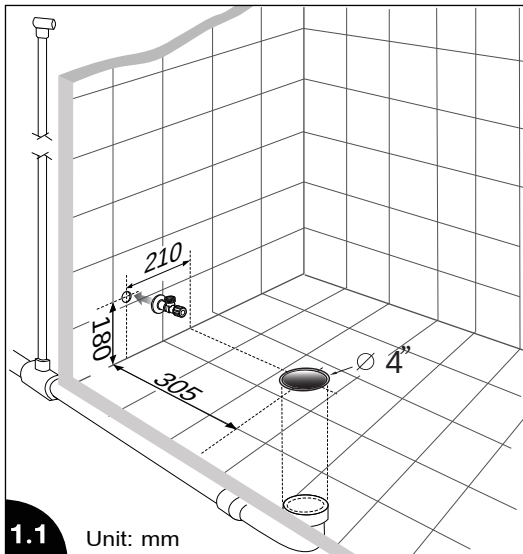


FRONT VIEW

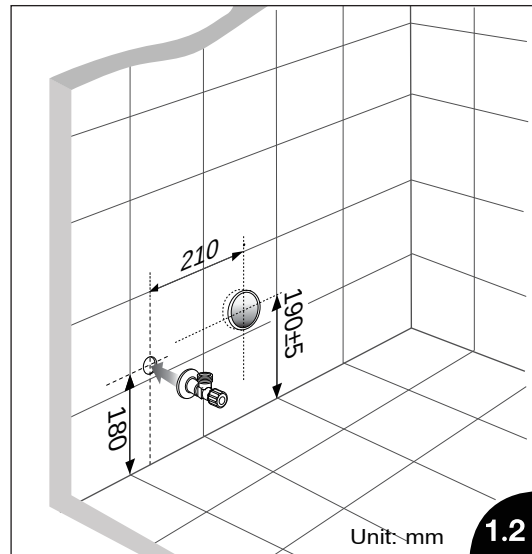


SIDE VIEW

PIPING PREPARATION AND CONNECTING WASTE PIPE AND WATER SUPPLY VALVE



1.1 Unit: mm



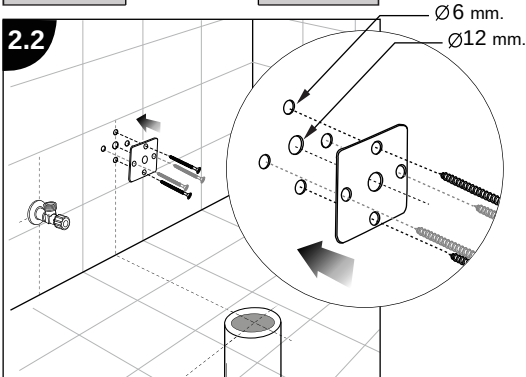
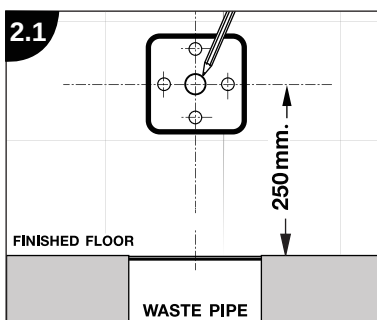
Unit: mm 1.2

WATER SUPPLY PIPE : Connecting size $\varnothing \frac{1}{2}$ "

WASTE PIPE (Fig.1.1 / 1.2) : Size 4" (PVC. pipe class 8.5 or a regular pipe with an internal diameter of 102 mm.) at the connecting point with the toilet and a gradient of 2 cm. per 100 cm.

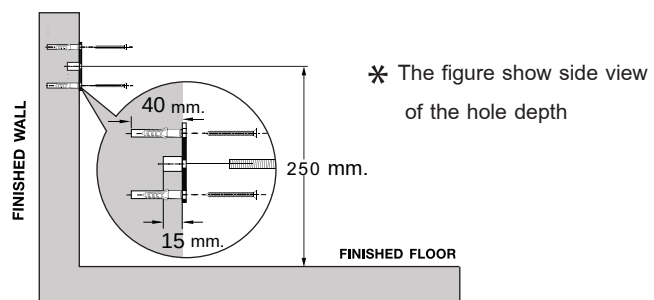
AIR VENT : Size not smaller than $\varnothing 1 \frac{1}{2}$ " and must be connected directly to the waste pipe.

INSTALL THE STRUT BY WALL FIXING



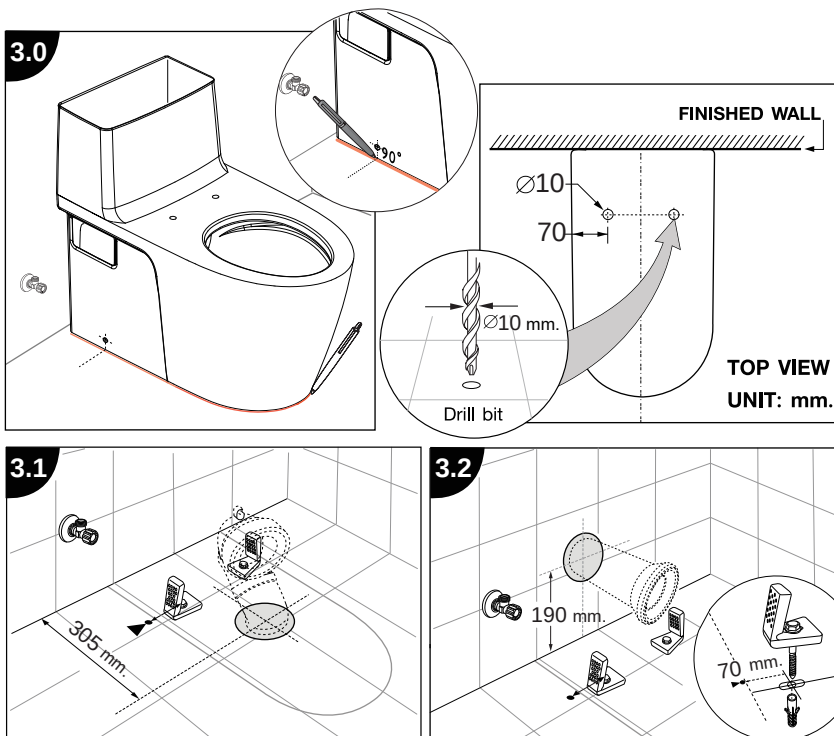
2.1 Install the strut plate in the wall on the specified location.

2.2 To drill the specified location of the strut plate in the wall.



* The figure show side view of the hole depth

FLOOR FIXING SET INSTALLATION



3.0) Set properly the VC. on the floor, mark the fixing hole 90° into the floor.

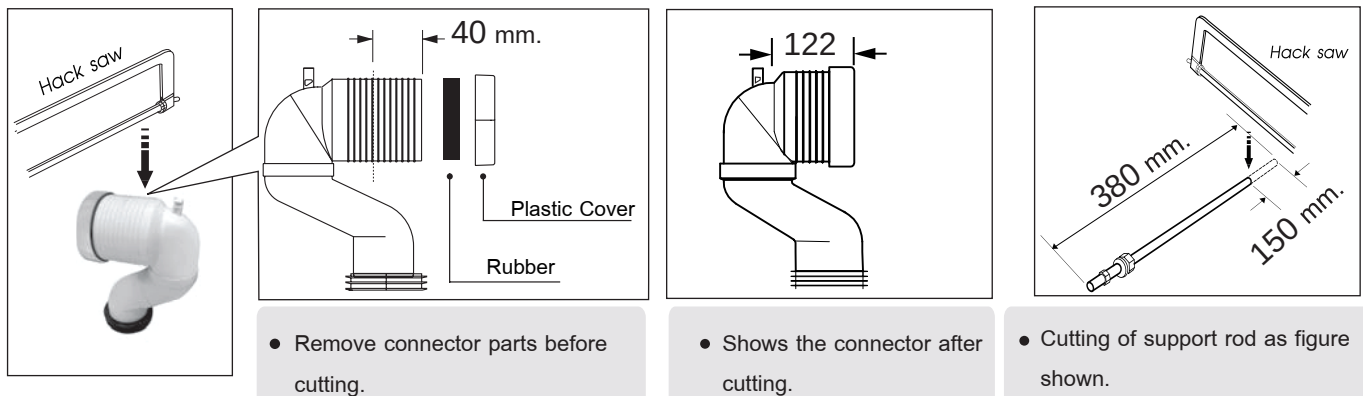
3.1) For connector follow the dimension shown in the figures 3.1.

For connector follow the dimension shown in the figures 3.2 and mark the location to be drilled.

3.2) Using 10 mm. $\varnothing$ masonry drill bit, bore the specified holes in the floor by following dimensions shown in the figures.

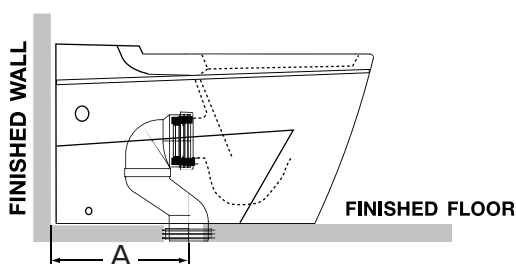
CUTTING OF PLASTIC CONNECTOR

CUTTING GUIDE ROUGHING-IN 305 MM.



CUTTING OF PLASTIC CONNECTOR

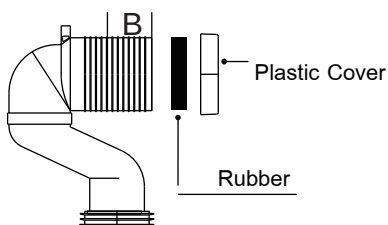
CUTTING GUIDE IN CASE THE ROUGHING-IN IS NOT ON 305 MM.



A = Length to trap way dimension to the wall.

B = Length of the connector to cut out.

C = Length of rod the connector to cut out.



- It shows the connector before cutting.



- It shows the rod strut before cutting.

- In case length of "A" is less than 305 mm. but not lower than 245 mm.

$$B = 40 - (305 - A)$$

$$C = 150 + (305 - A)$$

- In case length of "A" is greater than 305mm. but not over than 340 mm.

$$B = 40 + (A - 305)$$

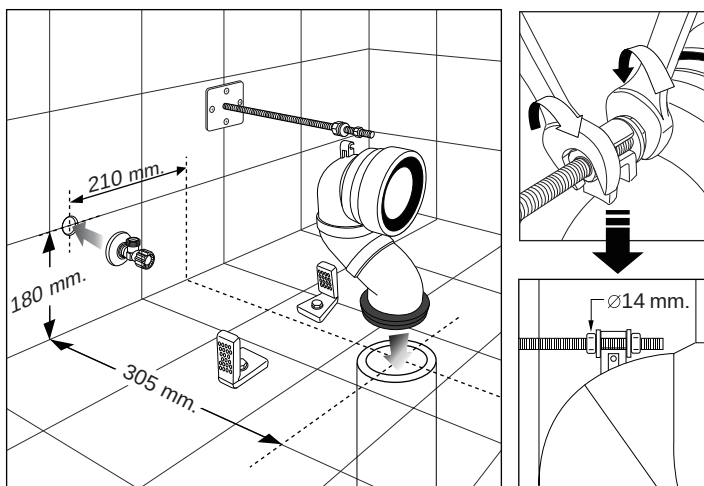
$$C = 150 - (A - 305)$$

Remark :

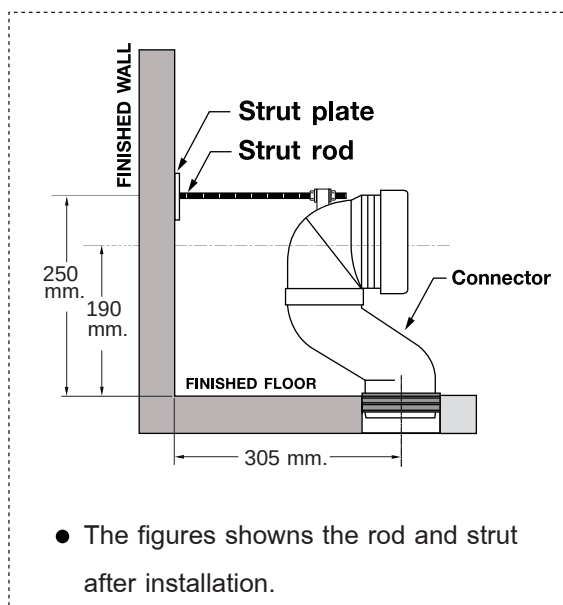
- Length of "A" is less than 245 mm. can not do installation.
- Length of "A" is greater than 340 mm. big space will occurred from wall to tank.

5

INSTALL THE ROD WITH THE PLATE STRUT AND TOGETHER WITH WASTE CONNECTOR

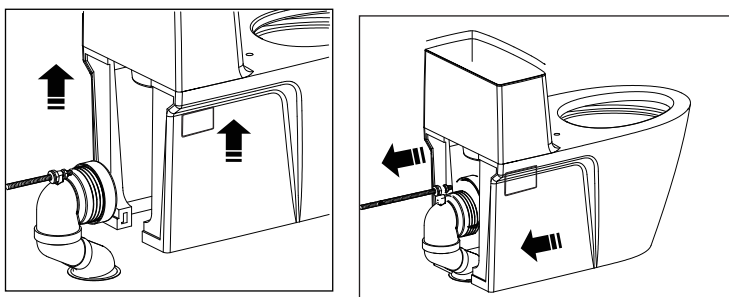


The figures shown the rod of strut with waste connector.

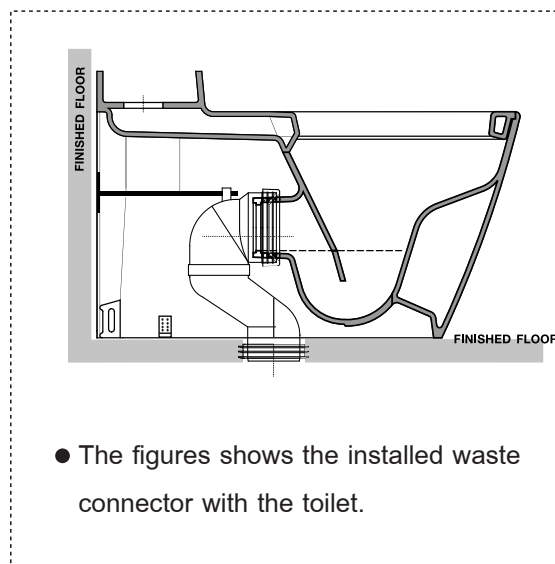


6

TOILET INSTALLATION

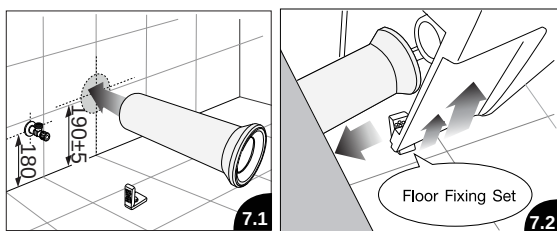


- Lift the VC and aim the outlet into the connector's opening then gently push the VC towards the wall until connector and VC fits properly.



7

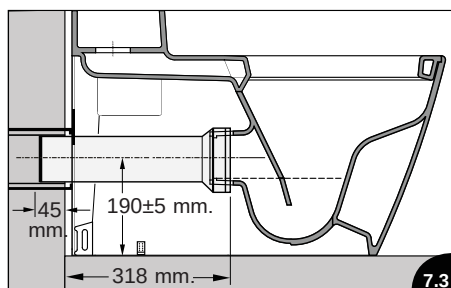
INSTALLATION THE PLASTIC CONNECTOR INTO THE WALL (P-TRAP)



7.1) Insert the plastic connector into the waste pipe on the wall up to protruding length of 318 mm. as shown in figures 7.3

NOTE :

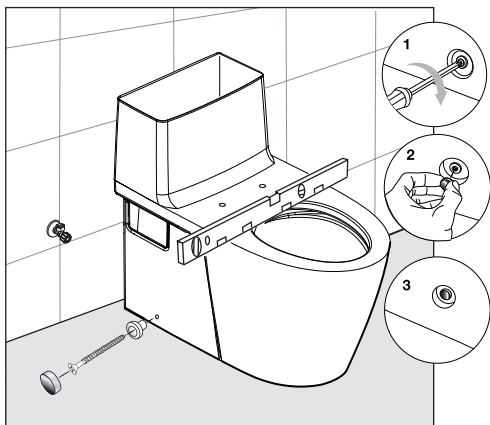
(If necessary, apply PVC cement solvent (not supplied) around the end tip of plastic connector to be fitted with the waste pipe to strengthen the connection joint between waste pipe and plastic connector)



7.2) Lift the VC and aim the outlet into the connector's opening then gently push the VC towards the wall until connector and VC fits properly.

8

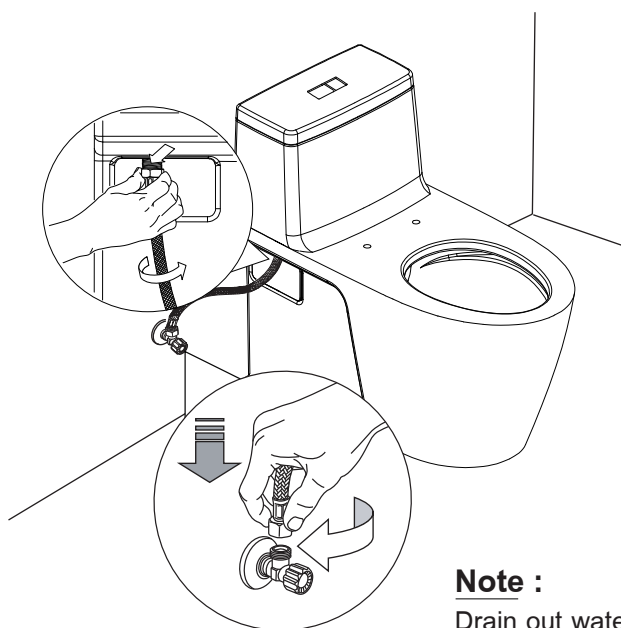
FIX THE TOILET / CHECK LEVEL



- After the above installation, check level of the toilet.
- Using the floor fixing screw set fix the toilet on the floor.

9

WATER SUPPLY ASSEMBLING



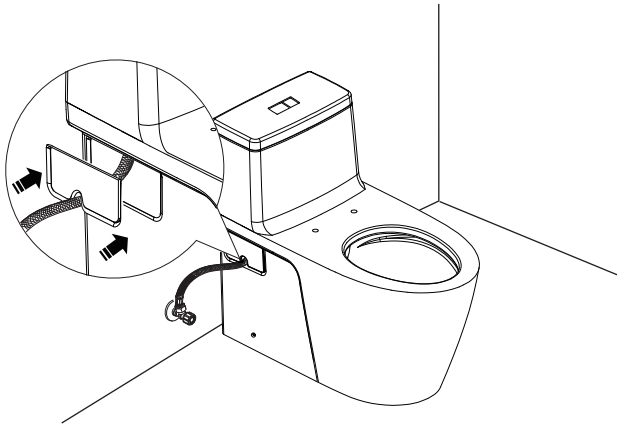
- Attach the water supply hose properly unto the water control valve as figured shown, and then tighten snugly by hand. Attach the water supply hose properly to the stop valve by turning clockwise.

Note :

Drain out water from pipe before fixing stop valve and water supply house.

10

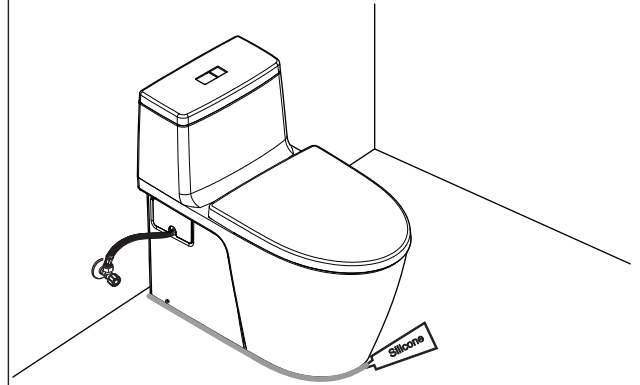
PLASTIC WINDOW SIDE CAP INSTALLATION



- Attach the plastic window cap push to side toilet.
(as figures show)

11

INSTALLATION FINISHING



- Install the seat & cover according to seat & cover installation manual
- Apply a silicone putty along the intersecting edge of the toilet base and floor, ensuring a complete seal.

TROUBLE SHOOTING GUIDE

Problem

1. Poor flushing action

Possible Cause

- a. Water level in tank is below prescribe level.
- b. Flush valve mechanism in tank closes too quickly or does not open.
- c. Flush handle or button needs replacing.
- d. Water pressure is too low.
- e. Partially clogged trapway and / or drainpipe.
- f. Cleanser used in tank deposits residue.
- g. No air vent.

2. Water won't stop running

- a. Water level in tank is higher than overflow pipe.
- b. Turn off the water supply. If water continues to flow into the bowl the flush valve seat and / or rubber seal disk are worn or deformed.
- c. Turn off the water supply valve. If water continues to flow into the bowl until the water level falls to the level of the overflow pipe, sand or debris may be clogged in the water control mechanism.
- d. Flush valve string is too tight, holding the flush valve open.
- e. Push Button needs replacing.

3. Water supply hose leaks

- a. Improper installation
- b. Water pressure is too high.

To Correct

- a. Set to prescribed level.
 - b. Make sure there are no any material stuck to outlet components.
 - c. Replace.
 - d. Normal water supply pressure must be at least 20 psi.
 - e. Use a plunger or toilet auger to unclog.
 - f. Clean out tank and cease using the cleanser.
 - g. Install air vent per instructions.
- a. Adjust the cylinder to maintain the water at the prescribed level.
 - b. Replace seat, rubber seal disk, or complete assembly, as needed.
- c. Shut off water supply valve. Remove top cap of water control. Clean and reassemble, or replace plunger.
 - d. Replace flush valve unit.
 - e. Replace push button.
- a. Reinstall, according to instructions.
 - b. Water pressure must not exceed 80 psi.

CARE AND MAINTENANCE

Do not use harsh abrasives or caustic clean fixture surface. A mild detergent, warm water, and a soft cloth will remove normal dirt and soap accumulations from fittings and surfaces. Rinse thoroughly after cleaning and polish with a soft dry cloth to restore original luster of material.

⚠ Notice

Do not use cleaners in tank. Products containing chlorine(calcium hydrochlorite) can seriously damage fittings in the tank. This damage can cause leakage and property damage. **GROHE shall not be responsible or liable for any tank fitting damage caused by the use of cleaners containing chlorine (calcium hydrochlorite)**

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为了安全请务必遵守

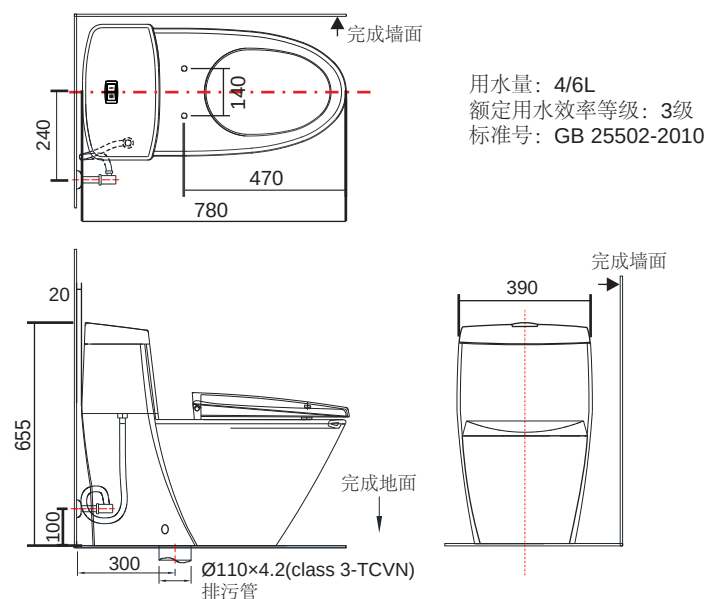
- 在使用时为避免发生不必要事故或故障,特提出以下注意事项:
- ◆ 在安装、使用便器之前,请先阅读以下项目,正确理解之后再行安装、使用。
 - ◆ 专业修理者以外的人员,请不要进行拆卸、修理、改造本产品。
 - ◆ 本产品已做抗菌处理,清洗时请勿使用强酸强碱物质,以免破坏抗菌涂层。
 - ◆ 施工结束后,在确认各部件能否正常工作的同时,并向用户说明使用和保养的方法。
 - ◆ 请将本说明书交于最终用户保管,以备查阅。

安装使用前的注意事项

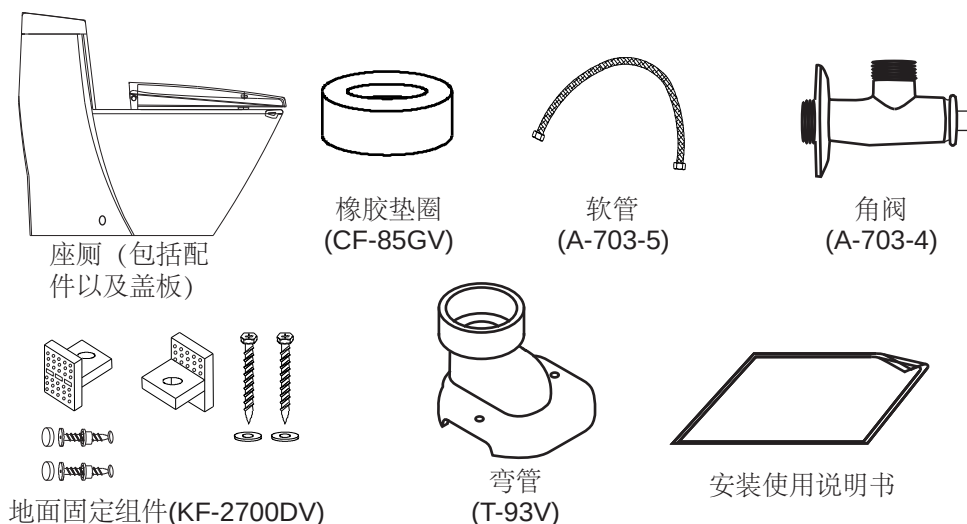
- ◆ 陶瓷属于易碎品,安装前请先确认是否有因运输不当产生的破损。
- ◆ 安装时请按先排水分离器后坐便器的顺序进行安装。(具体步骤参照便器安装方法)
- ◆ 安装中或安装完毕后,请确认是否有因安装不当产生的破损。
- ◆ 因不正确安装和使用不当而发生的事,本公司将不予以承担责任,敬请客户谅解。

1. 基本尺寸

单位: 毫米



2. 部品确认 (包装内容的确认)

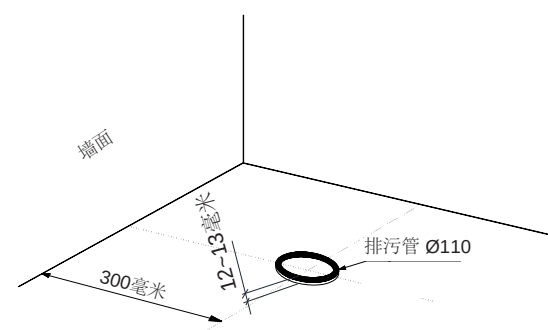


3. 推荐工具和材料 (客户自备)

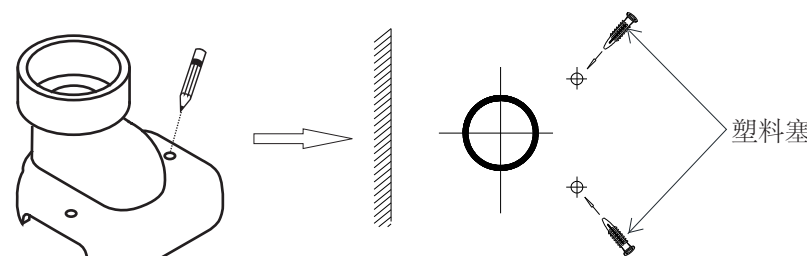


4. 安装弯管

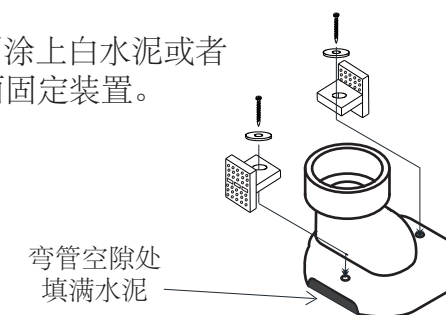
4.1. 如图所示,地面到排污管顶端的距离是12-13毫米。排污管的直径是110毫米,排污孔道墙面的距离是300毫米。



4.2. 如图所示,在弯管和地面上钻直径为8毫米的孔,然后塑料塞 (请看配件包) 放入刚打的孔中。

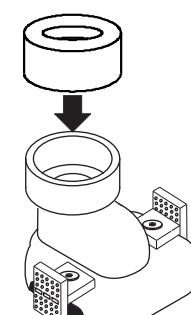


4.3. 如图所示,在排污管周围涂上白水泥或者石灰,按照图示安装地面固定装置。



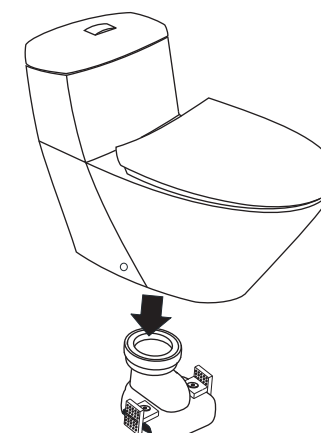
5. 安装弯管上的橡胶垫圈到弯管

按照图示安装弯管橡胶垫圈。
注意: 需要将垫圈压倒最底下。

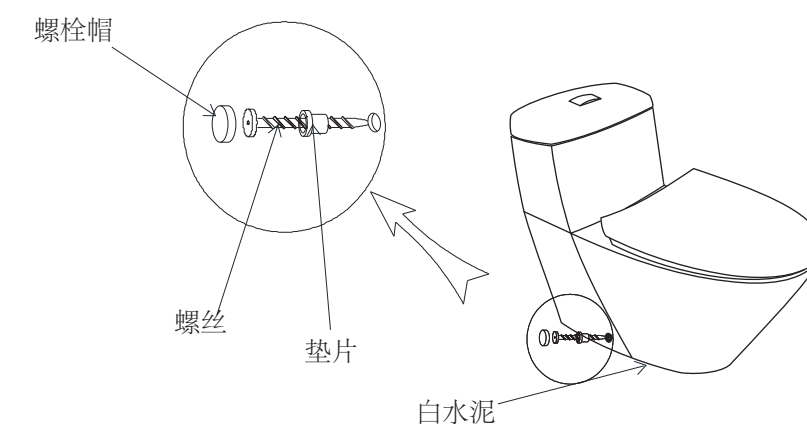


6. 安装座厕

6.1. 如图所示,将座厕的排污口对准地面排污口,放好座厕。



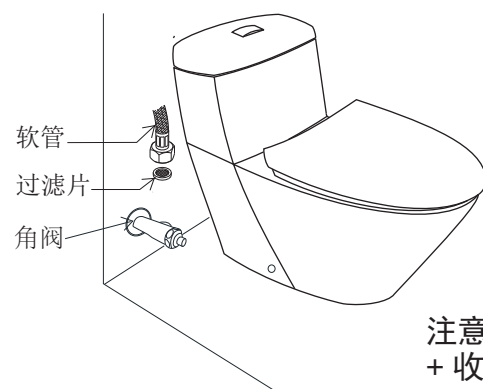
6.2. 按照图示安装垫片,螺丝和螺栓帽,拧紧。



6.3. 为了方便清洁,只需在座厕底部边缘涂上砂胶。

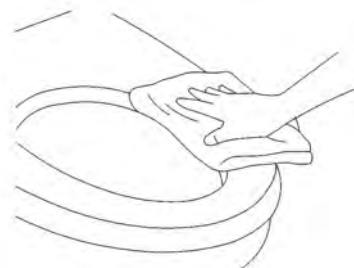
7. 连接供水软管

- 清洁管道并确保没有污垢，否则这些污垢将使管道堵塞，特别是刚装上的管道。
- 将角阀按照图示装到墙壁上，然后将供水软管连接到座厕的进水阀上，检查漏水。进水阀的水必须是打开的，以确保随时能上厕所用。



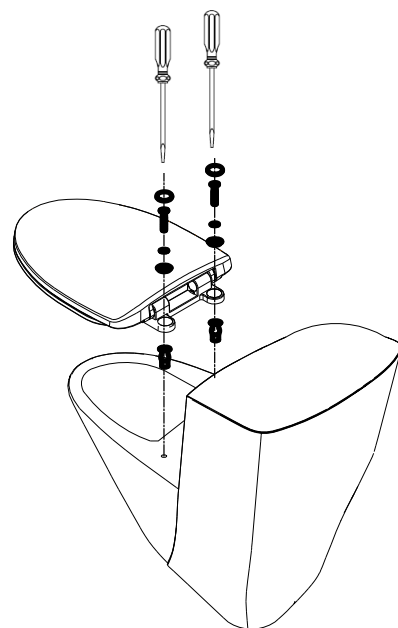
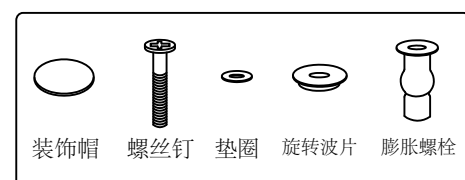
8. 清洁与保养

一般可用软湿的布来清洁塑料部分。请勿使用不适合的清洁剂(厕所清洁剂、住宅用清洁剂、漂白剂、苯、涂料稀释剂、去污粉、甲酚等)。



8-1. 盖板的安装

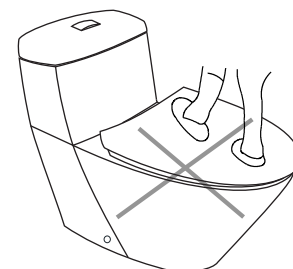
如图使用螺丝刀安装盖板。



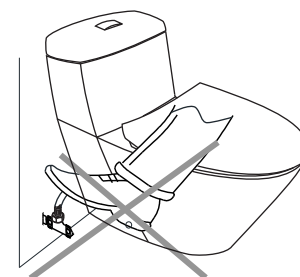
9. 警告及注意事项

下列注意事项如有使用不当，可能造成重大的意外事故。下列内容均与安全密切相关，请您务必遵守。

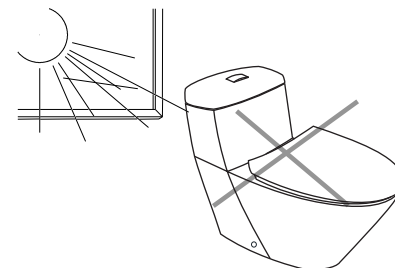
9.1. 请勿蹬踏座厕。
*否则容易引发破损，造成人身伤害。



9.2. 请勿将供水软管折弯或损坏。请勿用手撑在供水角阀上或蹬踏供水角阀。
*否则容易引起漏水和室内积水。



9.3. 请不要将座厕放于阳光直射的地方，火炉旁边或者有高温来源的地方。
*否则塑料部位可能会变色。



9.4. 清洁保养塑料部分时，请勿使用不适合的清洁剂（厕所清洁剂、住宅用清洁剂、漂白粉、苯、涂料稀释剂、去污粉、甲酚等）。
*否则塑料部分开裂可能会造成人身伤害。



9.5. 请勿背靠在盖板上。
*否则有造成盖板划伤和损坏的危险。



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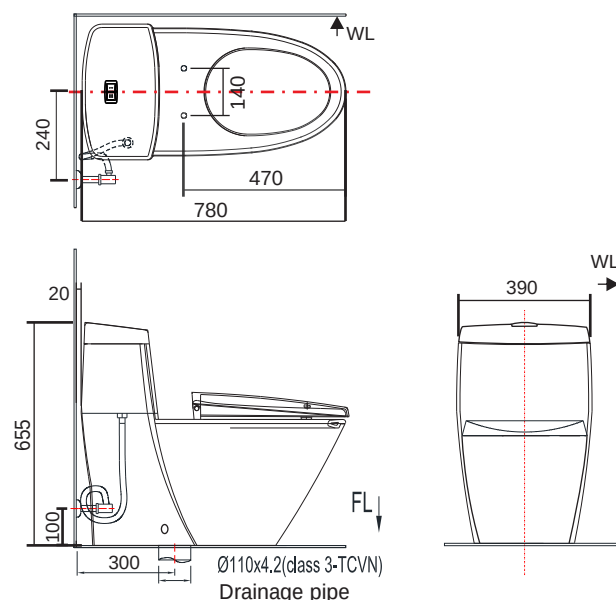
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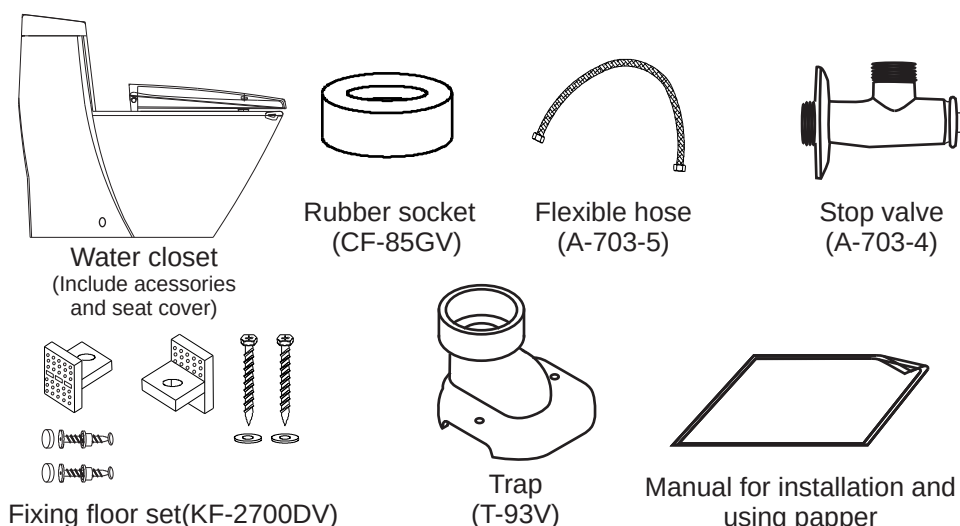
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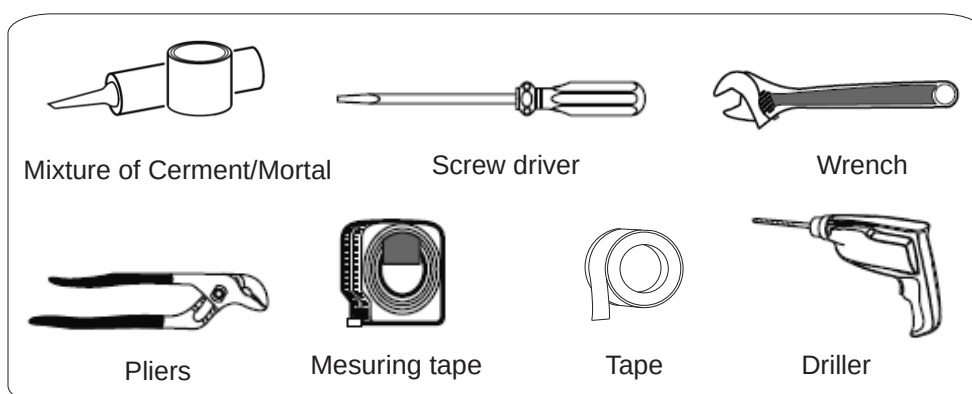
1.Installation drawing



2.Detail of product.

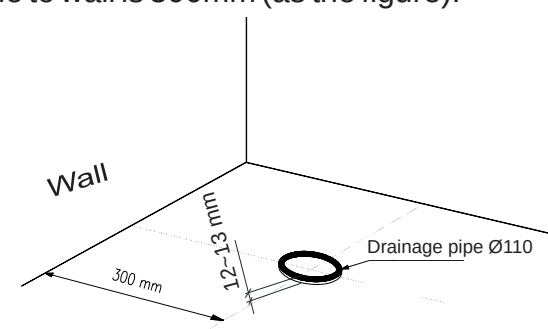


3. Tools and equipments.



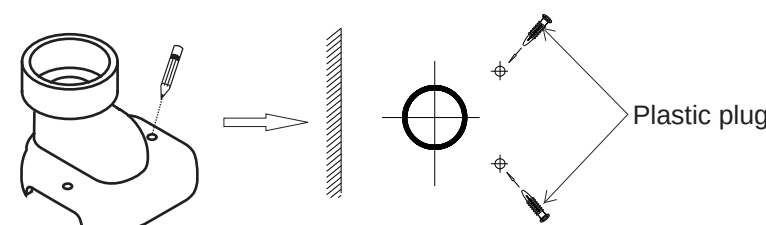
4. Install P-trap.

4.1. The distance from floor to top side of drainage pipe is 12-13mm. Diameter of drainage pipe is 110mm and distance from centre of hole to wall is 300mm (as the figure).



4.2:

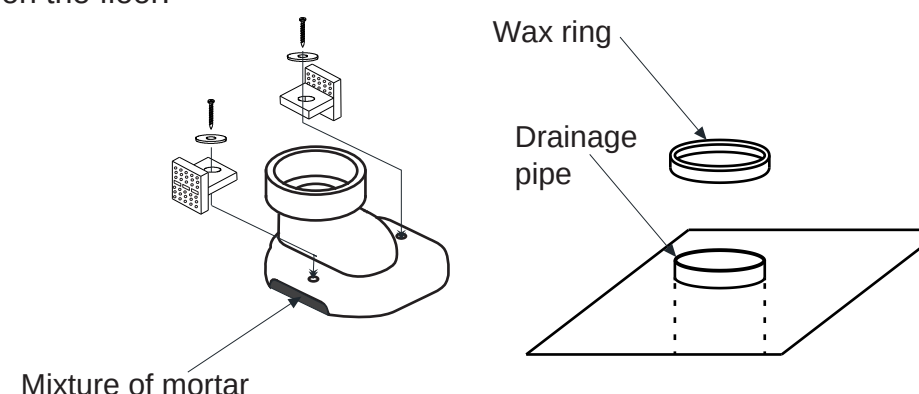
- Drill two holes $\Phi 8$ on the floor, to the drainage pipe, as the figure, after that place a plastic plug (see attachable components) into the 2 newly drilled holes:



4.3: To cover white cement or mortar around the drainage pipe, place trap over, then fix the trap with floor by the screws.

4.4: For more option, use wax ring to cover around the drainage pipe.

The screw shall be fitted with the plastic plug which were inserted on the floor.

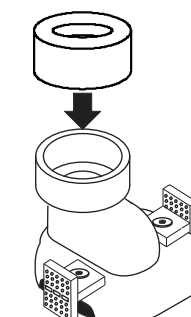


5. Install the rubber gasket into P-trap.

After the trap has been fixed on the floor, place the rubber washer on the mouth of the trap.

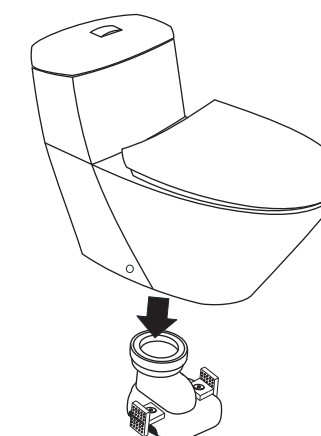
Before installation, paste water internal surface of rubber socket. Open rubber socket by hand, after that install external head of trap.

Note: Press rubber socket still the end.

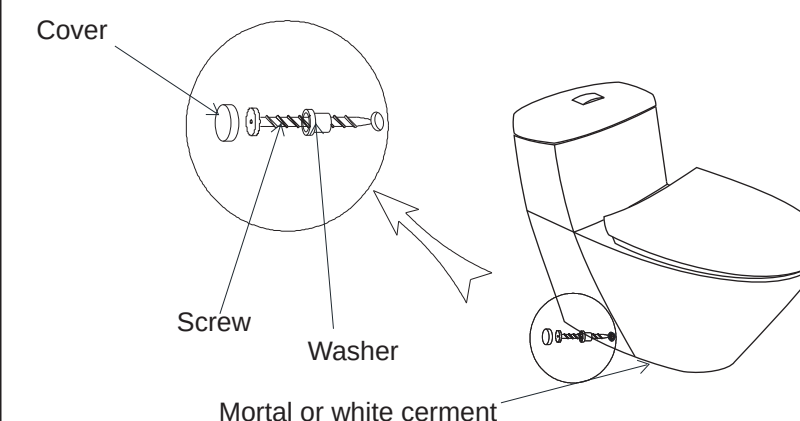


6.Install toilet bowl.

6.1: To place the toilet seat on the trap so that the outlet of the toilet bowl inserts into the mouth of the trap:



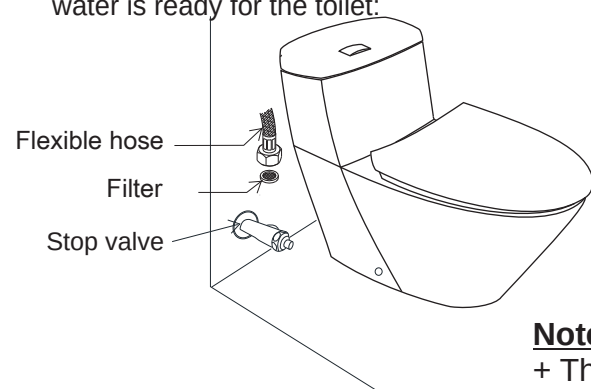
6.2: To unleash the plastic cap of the screw fixed to the body of toilet bowl, then fastening it into the seat through 2 holes on the body of toilet bowl, after tightening the screw, drive the plastic



6.3: In order to wash floor easily and to keep it clean, only use silicon to plaster into slits around the seat between its bottom seat and the floor.

7. Supply of water to the toilet.

- To clean the pipe to ensure that it doesn't get soil, sand, trash, etc, that may clog the fill valve, especially for the pipes which have just been installed.
- To turn the lock valve into the head of supply of water pipe on the wall, after that connect the head of lock valve to the toilet bowl through the pipe, the stop valve must stay opened to ensure that water is ready for the toilet:



8. Maintenance water closet.

Usually clean plastic parts of product by soft and wet leather.
Do not use any unsafe detergent (toilet detergent, floor detergent, cleanser, benzene, washy paint, washing powder, clezola, etc)



9. STEPS FOR SAFETY

The following instructions should be observed to avoid damage for the toilet:

9.1: Not to stand on it.

*That is cause damage for seat & Cover

9.2: Don't kick strongly at the flexible hose, or else it can be damaged it or cause leak.

9.3: Don't place the toilet directly under the sunlight, near the fireplace, heat source, or else the plastic parts might turn fade.

9.4: To preserve the parts of plastics, don't use any unsafe detergent (toilet detergent, floor detergent, cleanser, benzene, washy paint, washing powder, clezola, etc.)
Don't use detergent, bleaches, benzen, watery paint, clezola, etc., to clean plastic parts.

9.5: Don't sway yourselves when using the toilet, which can damage the toilet.

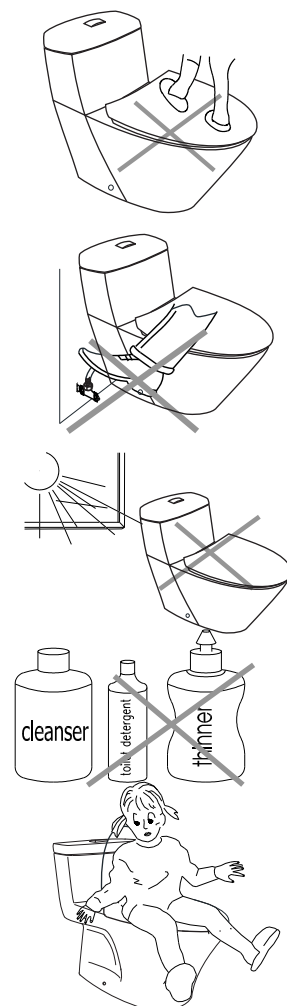
Note:

Ceramics are easily broken things.

- Before putting up parts together, make sure that they are not damaged.
- After assembly has been finished, check the set to see whether damage occurs during assembly
- * Damage set may:
 - Cause harm to users.
 - Dirty floor with water.

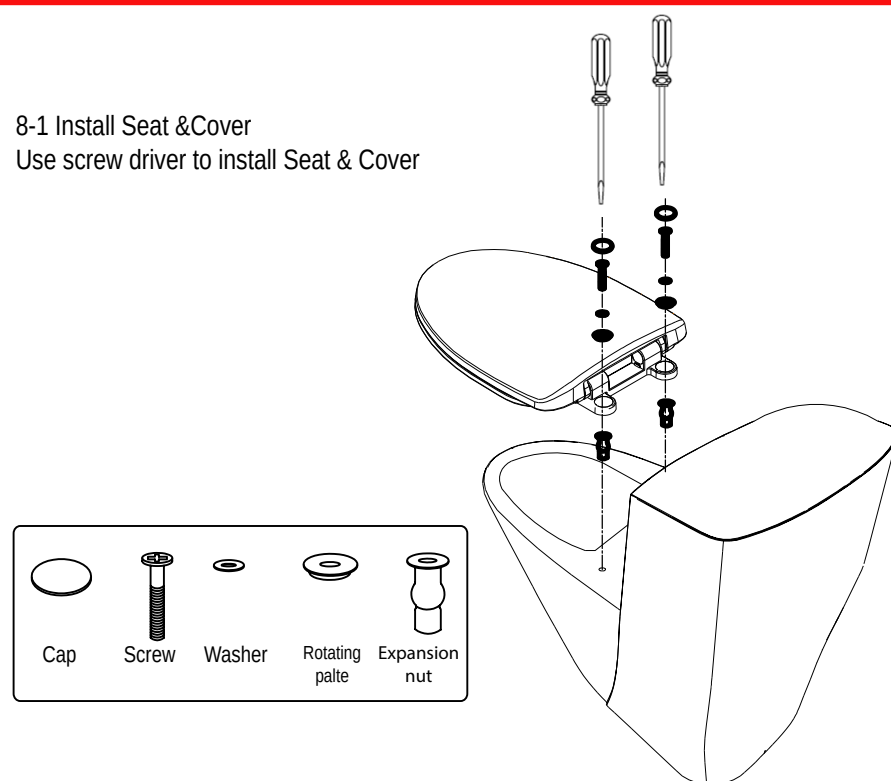
ATTENTION

- In order to ensure safety and proper assembly, please read the following carefully.
- In order to avoid damage to the set of flush, you shouldn't re-adjust its inner parts
- In order to ensure the operational effectiveness of the flush set, the water level shouldn't be less than 0.3kgf/cm (equivalent to the height of water level of 3m)
- After a long service, if the flow of water into the tank is choked up or noticeably hindered, the filter plate should be removed for cleaning.
- When putting the ceramic part on the metal nut and bolt, please tighten the nut properly. If the nut is tightened too closely, it may damage the ceramic part.
- Cleaning the water pipes indoors by flushing water for a few minutes so that sand and waste things may be driven out (especially for newlybuilt houses with new water pipes)
- When the water main becomes clean, please connect the main to the water tank. If sand and broken things are clogged up inside the pipe they might make the filter plate less effective or leaked..



8-1 Install Seat & Cover

Use screw driver to install Seat & Cover



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