

Installation Manual

American Standard

Advanced Clean 100 SpaLet® Bidet Seat

Model: 8017A60GRC

Thank you for purchasing this product.

CAUTION

- Carefully read this installation manual to install this product correctly.
- Be sure to test operation after installation has been completed.

Installation Procedure

① Mounting the SpaLet Bowl



② Attaching the Water Shutoff Valve



③ Mounting the Seat Unit



④ Connecting the Water Supply Hose <Seat Unit End>



⑤ Connecting the Water Supply Hose <Water Shutoff Valve End>



⑥ Connecting to the Power Supply



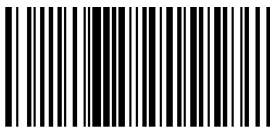
⑦ Positioning and Mounting the Remote Control



⑧ Test Operation



⑨ Mounting the Side Cover



7302385-100

7302385-100

7302385-100EN

This manual consists of two parts; the first part contains safety precautions and descriptions of the procedures when installing the SpaLet, and the second part contains visual installation methods. Please use this manual in reference to each part.

SAFETY PRECAUTIONS

For safe installation and use of the product, please read the precautions thoroughly before installing the product.

DANGER

An imminently hazardous situation which, if not avoided, will result in death or serious injury

WARNING

A potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

A potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damage to the product or other property.



DANGER



Improper connection of the power plug or socket can result in a risk of electric shock.



All electrical installation work must be carried out by a qualified electrician.

There is a danger of short circuit and/or electric shock.



WARNING



Follow the instructions described in this manual, and install the product properly. Failure to do so may cause electric shock, fire, injury, water leakage, and/or flooding.



Do not allow anyone except a certified electrician to disassemble, repair, or modify the product.

There is a danger of electric shock or fire, and the product could malfunction, causing injury.



Do not connect or disconnect the power plug or socket or power cord with wet hands.

There is a danger of electric shock.



Hold the plug or socket when connecting or disconnecting the power plug or socket. If the plug or socket is connected or disconnected by holding the cord, there is a danger of fire or electric shock due to the plug or socket or cord becoming damaged.



Do not pour water or the cleanser inside or onto the SpaLet seat unit, remote control, or power plug or socket. It may cause electric shock or fire.



Do not use any power supply other than AC120V. Also, do not use any other method to connect the plug or socket to an improperly configured receptacle, exceeding the rated voltage for use.



Be sure to use a VVF cable (with solid copper wires 20 AWG each) for the power cord. If a power cord other than the one specified above is used (such as strand wires, strand wires attached with terminals, etc.), it may result in overheating due to bad connection and cause corrosion, burnout, fire of the product and cord.



Connect the power completely. There is a danger of fire or electric shock due to the cord becoming damaged.



Do not damage, bend, modify, excessively twist, bind, sandwich, or place heavy objects on the power cord. There is a danger of fire or electric shock due to the cord becoming damaged.



Do not install this product in a wet or damp location, such as inside a shower room or steam room. There is a danger of electric shock or fire.



Do not attach the product to any water source other than potable water.

It may cause electric shock, fire and skin inflammation due corrosion of electronic parts inside the seat unit.



Do not disassemble or modify the product.

It may cause electric shock or fire.



Do not use loose outlet.

It may cause electric shock or fire.



CAUTION



Install a high-sensitivity, high-speed ground fault circuit interrupter (with a rated current value of 15 mA or below) on the primary side of the power supply.

There is a danger of electric shock.



The SpaLet® bowl is made of ceramics, and ceramics are fragile. Note the following when handling the SpaLet bowl:

- Prior to installation, make sure that the SpaLet bowl is in a good condition and not damaged.
- After installation, check the SpaLet bowl for any damages.

Failure to do so may cause injury, water leakage and/or flooding.



Wash out foreign materials or rust inside the pipes before connecting the product.

Failure to do so could damage the internal parts of the product, which may cause water leakage and/or flooding.



Note the following when using the strainer:

- Close the water shutoff valve when removing the strainer.
- When installing the strainer, tighten it fully so there is no gap.
- Check that the O-ring is free from foreign materials when attaching it.

If foreign materials are attached to the O-ring, it may cause flooding due to water leakage.



Adjust the water shutoff valve and check for water leakage after the installation.

It may cause water leakage and/or flooding.



If the water is expected to be frozen, drain the water out from the product. Failure to do so may cause fire, water leakage, and/or flooding due to damage from freezing.



Drain the air from the pipes after any building construction or renovation, or when water supply is restored after an interruption.

If the water supply contains air, it may cause damage or malfunction to the product or pipes. There is a danger of injury or damage to the building or furniture due to flooding.

POWER SUPPLY

Install the cord and outlet according to the specifications below.

The power distribution work should be done by an electrical contractor.

- **Use an AC120V power supply with a consumption rating.**
If the product is used with other electric appliances, set the corresponding number of outlets.
- **The wiring should be appropriate for the rated power consumption.**
- **Set the outlet within the reach of the cord and high enough from the floor so that water does not reach it. The length of the power cord is 1 m (39-3/8").**

Do not connect the power plug to the outlet until the installation is completed. There is danger of malfunction.

WATER SUPPLY

- **The SpaLet toilet uses solenoid valves which are fast acting or quick closing valves. The use of water hammer arrestors is strongly recommended for this product. All piping behind the walls should be properly secured and fastened.**
- **Only use potable water as the water supply.**
Using a different water supply (industrial water, well water, etc.) may cause the durability of the electrical and mechanical components to deteriorate, resulting in an accident or malfunction.
- **The water pressure must be more than 0.175MPa/25 PSI (hydrostatic pressure) and 0.10MPa/14.5 PSI (flow pressure) and 17L/min. when flowing.**
- **If the water pressure is higher than 0.75MPa/109 PSI, decompress the pressure by using a decompression valve.**

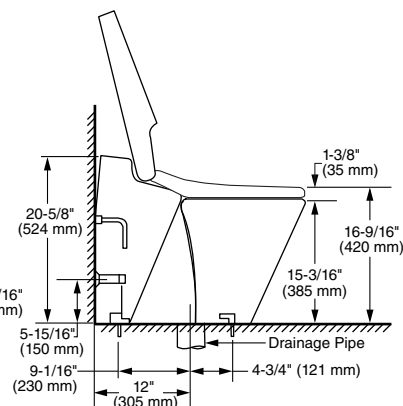
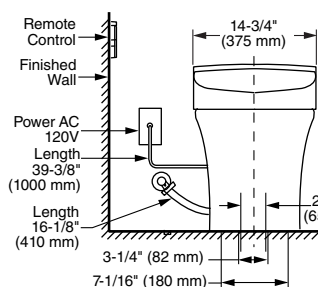
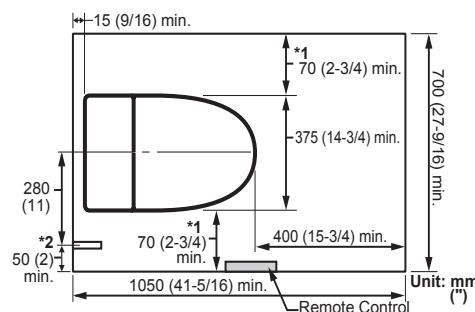
MINIMUM INSTALLATION CLEARANCE

For the required minimum installation clearance, refer to the figure below.

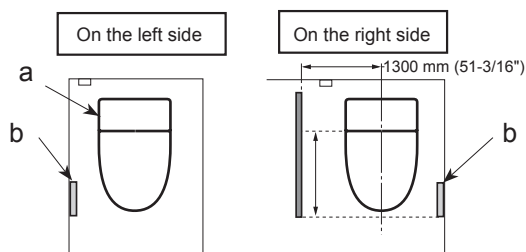
- *1 A space of 70 mm (2-3/4") or more on each side of the product is recommended. If it is less than 70 mm (2-3/4"), it may hinder the operation.
- *2 Place the water shutoff valve to 2" (50 mm) from the wall.



Meets the Americans with Disabilities Act Guidelines and ANSI A117.1 Requirements for Accessible and Usable Building Facilities-Check Local Codes.



INSTALLATION POSITION OF THE REMOTE CONTROL



Install the remote control on the left wall when facing the SpaLet unit, so that it is on the same side as the remote control signal receiver as far as possible. If, for any chance, the remote control has to be installed on the right side, check if the receiver will receive the signal, beforehand. Moreover, if the wall is some distance away from the SpaLet unit, for example due to a layout such as a wash stand being installed between the wall and the unit, the signal may not be received by the receiver. If this is the case, erect a screen which can reflect signals within 1300 mm (51-3/16") from the center of the SpaLet bowl. This screen should be at least 1100 mm (43-5/16") in height and should cover the distance between the signal receiver and the remote control's installed position. (Note that the conditions may vary a little depending on the wall finish and color.)

a Remote control signal receiver

b Remote control

DO NOT PLACE SEAT UNIT ON FLOOR!

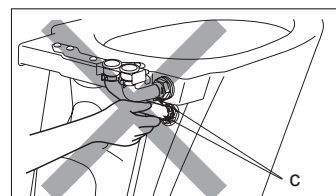
Never place the seat unit on the floor, as this may result in **breakage of the seat unit's mounting bolts or water supply inlet.**

NOTES PRIOR TO INSTALLATION

Do not hold the hose at the rear of the SpaLet bowl.

- * If the hose is removed, then this may cause leaks, and the SpaLet will not flush properly.

c Hoses



FIRMLY FIX THE WATER SUPPLY PIPE

An impact applied to the hose due to high water pressure may cause vibrations.

Fix the water supply pipe firmly so that it does not loosen.

There is a danger vibration or flooding.

TECHNICAL DATA

Rated voltage

AC120V 50/60Hz

Rated power consumption

850 W (environment 68°F, water 59°F)

Max rated power consumption

1300 W (environment 68°F, water 59°F)

Length of the power cord

39-3/8" (1000 mm)

Length of the water supply hose

16-1/8" (410 mm)

Waterproof grade

IPX4

Water pressure range

Minimum: 0.175MPa/25 PSI [hydrostatic pressure] and

0.10MPa/14.5 PSI (flow pressure) and 17L/min. when flowing.

Maximum: 0.75MPa/109 PSI

Water connection cross section

R1/2

Operating temperature range

30°F - 104°F

Units

V = volt, Hz = hertz, W = watt, m = meter,

MPa =mega pascal, in = inch,

°C = degrees Celsius, °F = degrees Fahrenheit,

PSI = pounds square inch

L = Liter, min. = minute

Flushing water volume

S-trap: full 1.32 gallons, light 0.90 gallons

HOW TO CHECK WATER PRESSURE

- When installing a flush toilet, check that the required water pressures (hydrostatic pressure and flow pressure) specified for each appliance are secured.
- If the water pressure exceeds 0.75MPa, use a pressure reducing valve before installation for use.

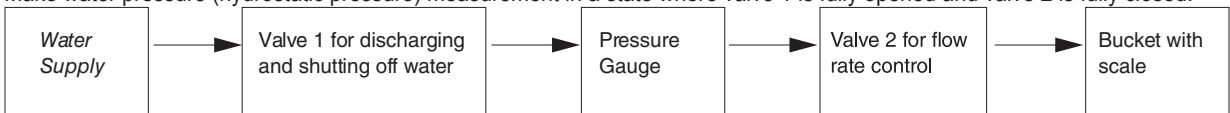
[Water Pressure Checks]

Hydrostatic pressure and flow pressure checks are required for installing water supply appliances. If no water shutoff valves or pressure measuring devices are prepared beforehand, connect the appliances as shown below to measure the hydrostatic pressure and flow pressure. By using a pressure measuring device, it will be easy to check the installation availability of the appliance.

The flow pressure greatly varies, depending on the peripheral conditions including piping. Be sure to make water pressure measurement with the water supply pipe where the appliance is installed.

[Hydrostatic Pressure Measuring Method]

Make water pressure (hydrostatic pressure) measurement in a state where valve 1 is fully opened and valve 2 is fully closed.



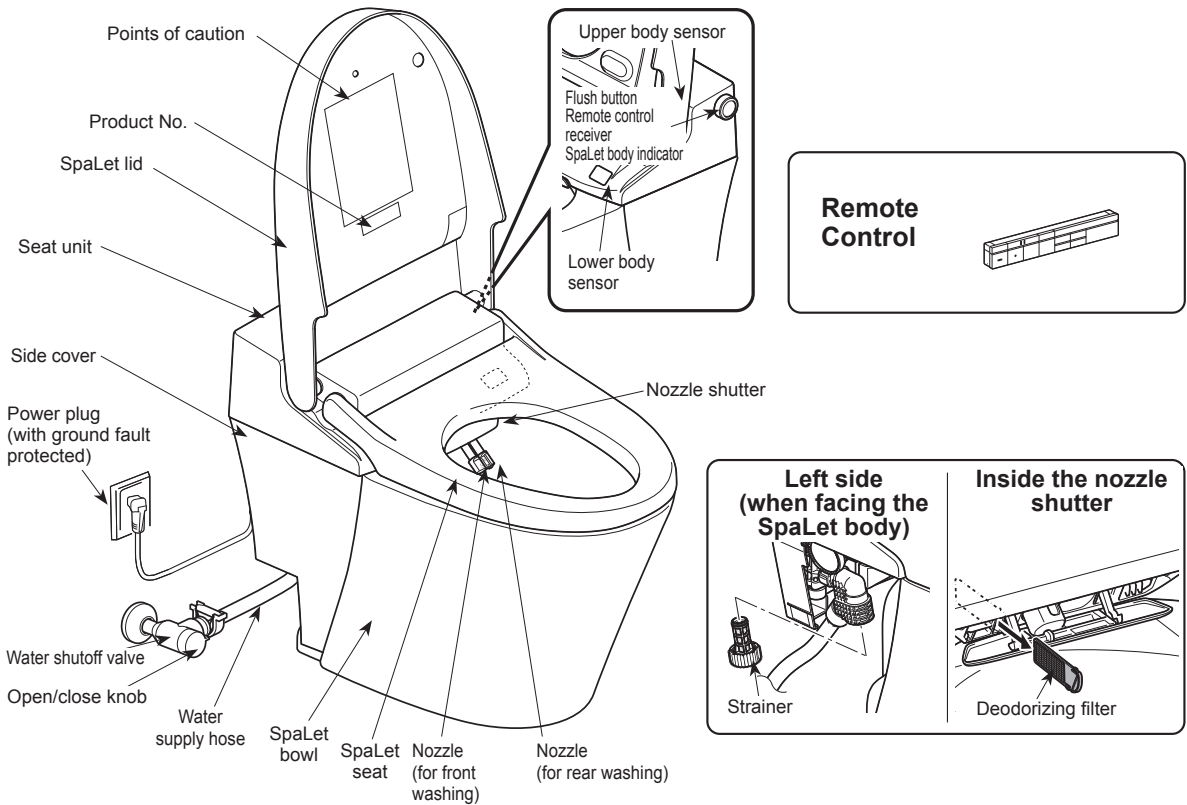
[Flow Pressure Measuring Method]

- (1) First, check that valve 2 is fully closed and valve 1 is fully opened. Next, gradually open valve 2. Then the hydrostatic pressure will gradually decrease (the flow pressure is the water pressure at the time of water supply).
- (2) Adjust valve 2 so that the water pressure will set to the minimum required water pressure of the product. Then close valve 1.
- (3) Empty the bucket. Then fully open valve 1 and measure the time until the water level reaches the scale of the bucket. Calculate the flow rate from the bucket capacity divided by the period of time and check that the flow rate necessary for the use of the product is secured.
 - If the installed appliance is used simultaneously with the water supply appliance in the kitchen, washroom, etc., the flow pressure and the flow rate will decrease. In that case, measure the flow pressure in a simultaneous operating state of the appliances.

[Dedicated Pressure Measuring Device]

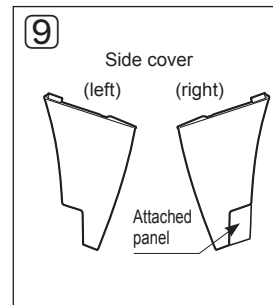
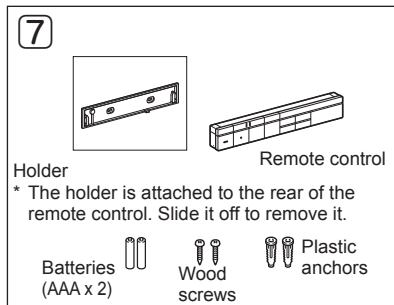
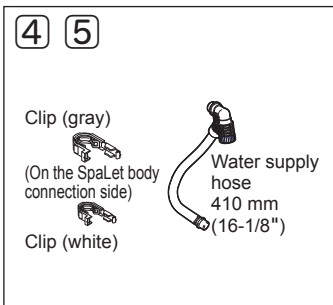
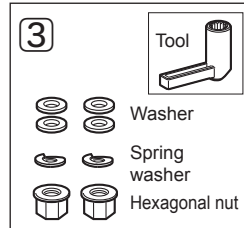
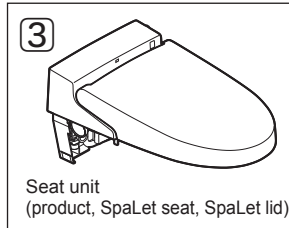
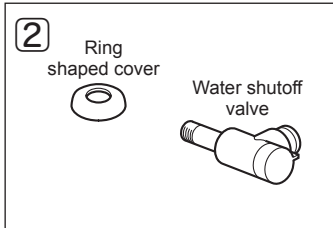
Use a pressure measuring device to make hydrostatic pressure and flow pressure checks. It will be easy to check the installation availability of the appliance.

Parts names



Checking Parts (check inside the package)

Numbers in □ indicate the steps in the procedure.

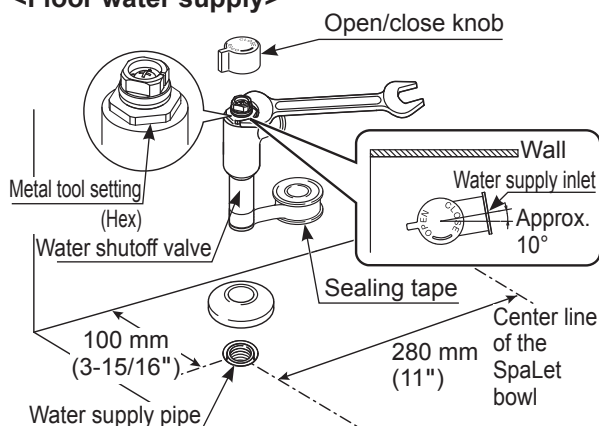


1 Mounting the SpaLet Bowl

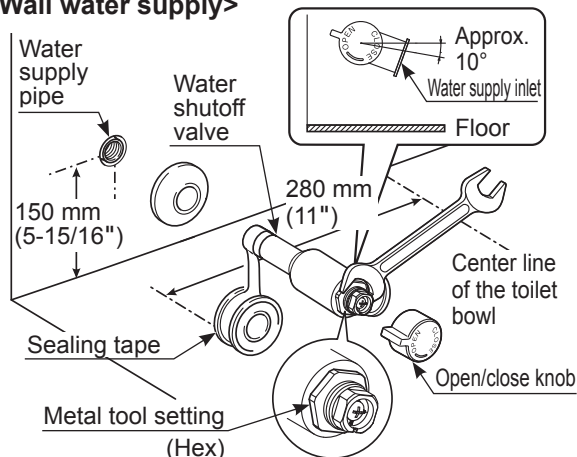
2 Attaching the water shutoff valve [See Note 2-1]

1. Remove the open/close knob

<Floor water supply>



<Wall water supply>



2. Affix the water shutoff valve to the water supply pipe.

Perform this step after finishing the wall and floor.

Attach the sealing material (sealing tapes) to the threaded section.

* Hook the tool on the hook setting (hex) on the water shutoff valve, and fasten it.

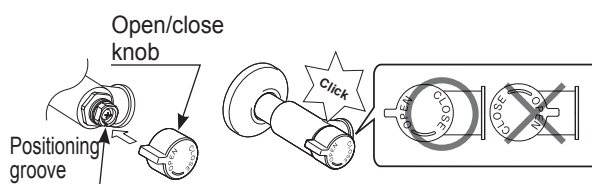
[See Note 2-2]

Wall water supply ... Mount the water supply inlet at approx. 10° downward relative to the horizontal level.

Floor water supply ... Mount the water supply inlet at approx. 10° tilted to the wall.

3. Install the open/close knob

* Check that the water shutoff valve is closed.



[Note 2-1]

• Do not push or step on the water shutoff valve.

* The pipe may come loose, or the water shutoff valve may be damaged, resulting in water leakage.

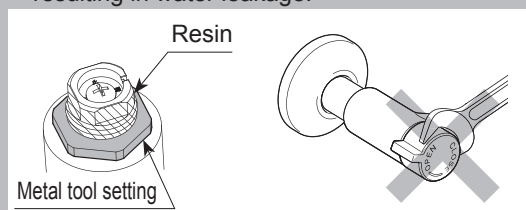
* The wall or floor may also be damaged.

• Affix the water shutoff valve water supply inlet in such a way that the water supply hose is not crimped.

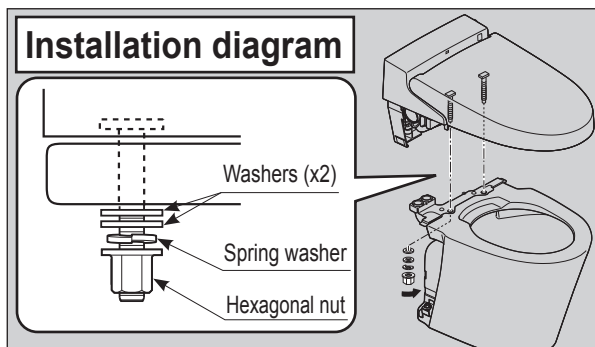
[Note 2-2]

• Ensure to hook the tool on the metal tool setting (hex).

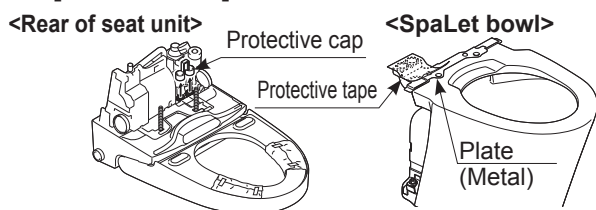
* The water shutoff valve may be damaged, resulting in water leakage.



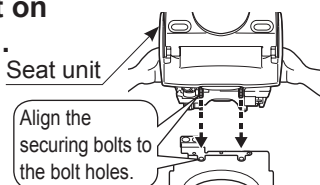
3 Mounting the Seat Unit



1. Remove the protective cap and tape. [See Note 3-1]

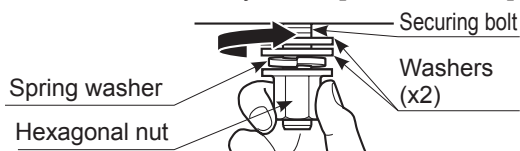


2. Set the seat unit on the SpaLet bowl. [See Note 3-2]

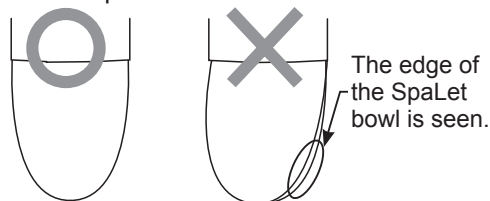


3. Affix the seat unit.

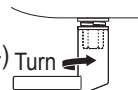
- ① Place the washers (two) and spring washer over each fixing bolt, and affix the nut.
- ② Fasten the nut by hand. **[See Note 3-3]**



- ③ Align the tip of the SpaLet lid to the tip of the SpaLet bowl.



- ④ Tighten the nut with the included tool.
(Torque at 2.0 - 2.5 N·m
{20 - 25 kgf·cm/1.48 ft-lb to 1.9 ft-lb})



4. Remove the protective sheet from the SpaLet seat.



[Note 3-1]

- Do not remove the plate (metal item).
* Water leakage may result.

[Note 3-2]

- Check that this product is firmly affixed to the SpaLet bowl.
- Check that there is no debris on the SpaLet bowl or seat unit washing water inlet.
* Water leakage may result.

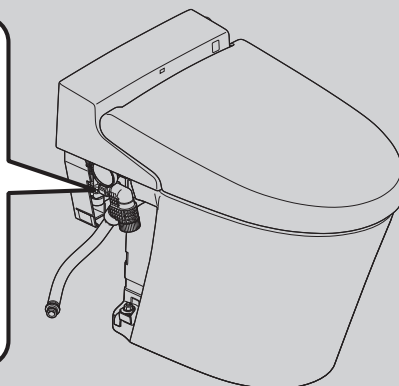
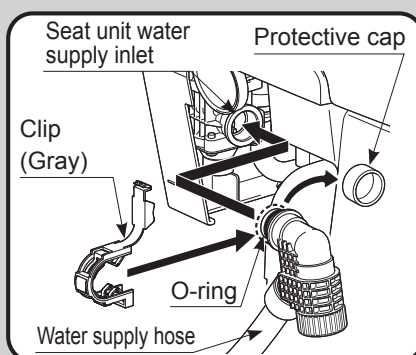
[Note 3-3]

- Tighten the left and right hexagon nuts alternatively in order to ensure even tightening.
* Water leakage may result.

4 Connecting the Water Supply Hose <Seat Unit End>

Installation diagram

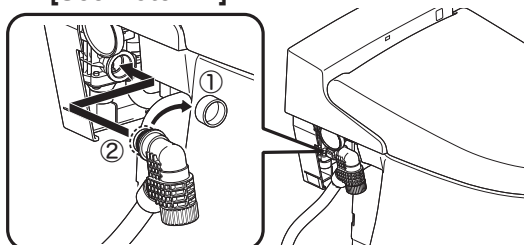
Do not apply excessive force when connecting the water supply hose.



1. Install the water supply hose to the seat unit.

- ① Remove the protective cap.
- ② Connect the water supply hose.

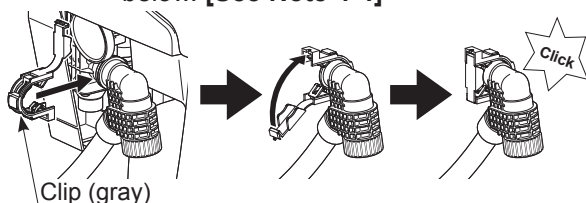
[See Note 4-1]



- ③ Bend the clip to firmly fix the water supply hose to the seat unit water supply inlet.

[See Note 4-2], [See Note 4-3],
[See Note 4-1]

- After affixing, rotate the clip, and check that it is attached properly.
- Also, pull the water supply hose gently to ensure that it is connected properly.
- The clip can only be attached in the specified direction as shown in the figure below. [See Note 4-4]

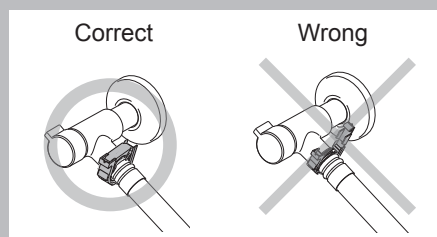


[Note 4-1]

- Remove the cap on the water supply hose water shutoff valve immediately prior to attaching the water shutoff valve.
- * During installation, debris may enter the water supply hose, resulting in a valve malfunction.

[Note 4-2]

- Take care that the O-ring is not damaged.
- * If the O-ring is broken or otherwise damaged, water leakage may occur.
- Attach the clip firmly.



[Note 4-3]

- Seat the clip firmly until it makes an audible click.
- * Water leakage may result.

[Note 4-4]

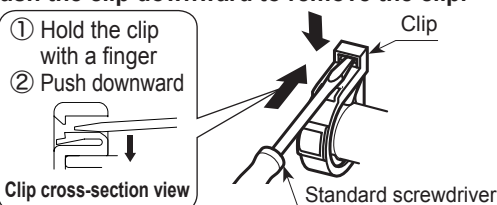
- Install the clip horizontally to the side of the SpaLet body.
- * If pushed on with an angle, then the clip cannot be bent to affix it properly.

[Reference 4-1]

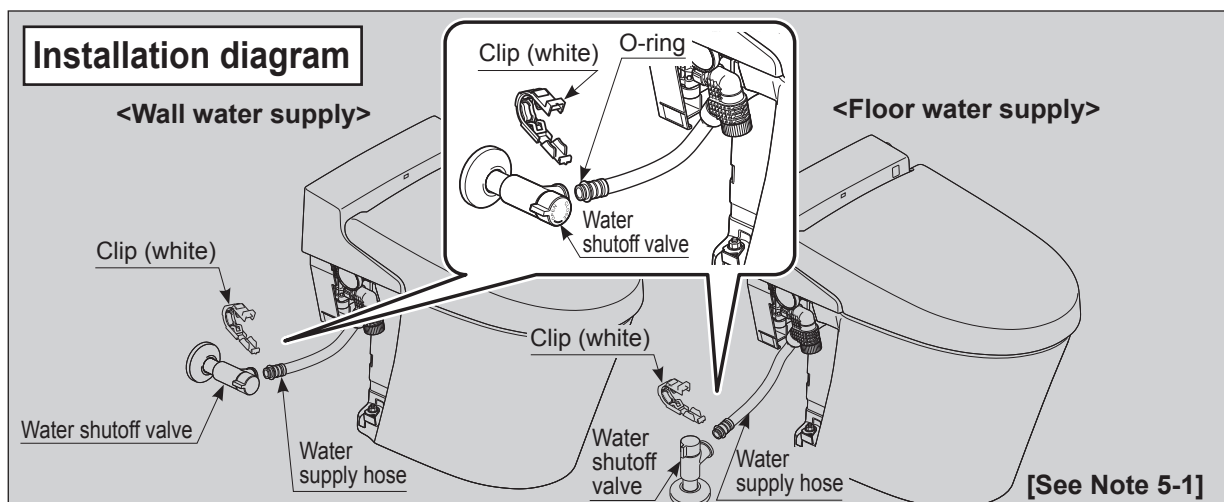
- Push the clip downward to remove the clip.

- ① Hold the clip with a finger
- ② Push downward

Clip cross-section view



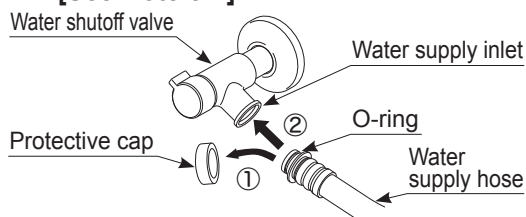
5 Connecting the Water Supply Hose <Water Shutoff Valve End>



1. Install the water supply hose to the water supply inlet.

- ① Remove the protective cap.
- ② Connect the water supply hose.

[See Note 5-2]

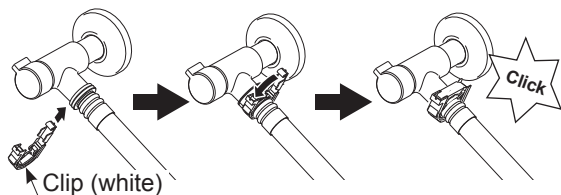


- ③ Affix the clip in the same way as with the seat unit water supply inlet.

[See Note 4-2], [See Note 4-3],

[See Note 4-1]

- After affixing, rotate the clip, and check that it is attached properly.
- Also, pull the water supply hose gently to ensure that it is connected properly.



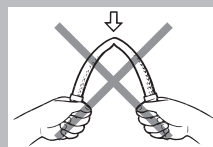
[Note 5-1]

- Be careful not to impact the power plug, or let it fall into the SpaLet bowl.

[Note 5-2]

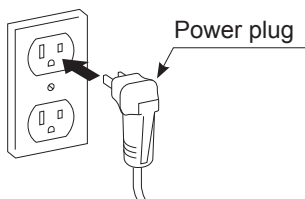
- Ensure that the water supply hose is not bent tightly or stretched. Do not use a hose that has been bent.

- * The hose may be damaged resulting in water leakage.
- * This may result in incomplete cleaning.



6 Connecting to the Power Supply

1. Connect the power plug to the outlet.



⚠ WARNING

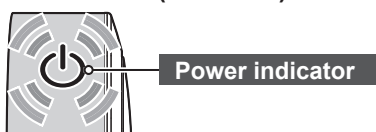


Ensure the electrical outlet to which the power cord is connected is properly grounded, as failure to do so may cause electric shock, etc.

2. Check that the power is on.

Confirm that the power indicator on the seat unit are illuminated.

- Flush button (indicator)

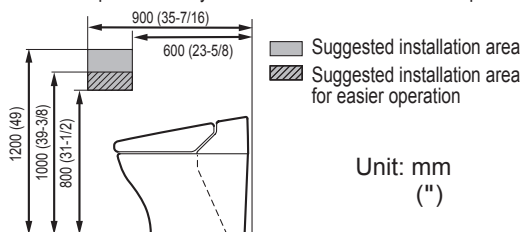


7 Positioning and Mounting the Remote Control

• Remote control installation position

Install the remote control to a position where the user can reach and operate it.

Install the remote control in the area shown as "Suggested installation area" in the figure below, and ensure to install the remote control on a position where it can be operated easily while the user is seated on the SpaLet seat.

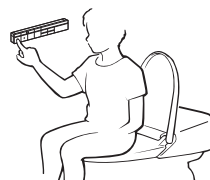


• Sit on the SpaLet seat and ensure the installation position. [See Note 7-1]

Temporarily install the remote control to the target position, and sit on the seat unit and press the [STOP] button (ensure to perform a test operation after installation).

Then, stand in front of the SpaLet bowl and push the [STOP] button to ensure that a beep sound is generated from the seat unit.

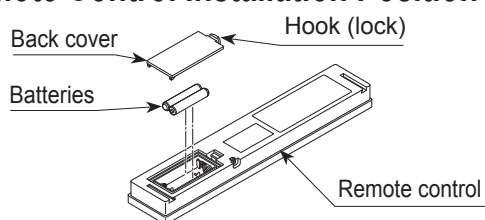
- Do not push the [REAR] or [FRONT WASHING] button: water would come out from the seat unit.
- Ensure that there is enough space above the remote control installation position to allow easy removal and mount of the remote control.



Installation Procedure

1. Installing the Batteries and Confirming the Remote Control Installation Position

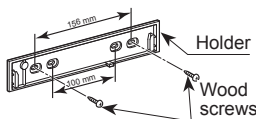
1. Open the back cover of the remote control, and install the included batteries (AAA x 2). [See Note 7-1]
* Use a tool such as a flat-blade screwdriver to push the hook (lock) to remove the cover.
2. Confirm the remote control installation position.



2. Mounting the Remote Control

1. Remove the holder from the remote control.
2. Install the holder to the installation position using an appropriate method for the wall. [See Note 7-2]

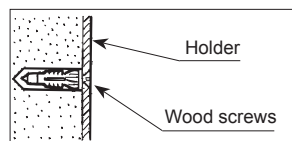
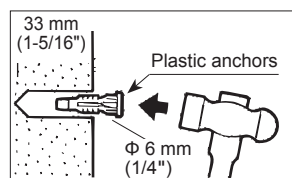
* Out of 4 slots, use the outer 2 slots (with A marks). If the holder can be installed only with a hole pitch at 100 mm (3-15/16"), use the inner 2 slots.



The wood screws are tight at the beginning, and then loosened once and tightened again.

[For a concrete wall]

- ① Make the pilot holes with 6 mm (1/4") diameter and approx. 33 mm (1-5/16") depth.
- ② Use a hammer to insert the supplied plastic anchors gently.
- ③ Affix the holder firmly with the wood screws.

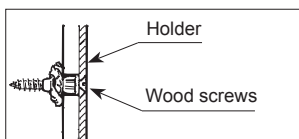
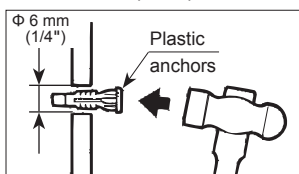


[For a plywood wall (> 5 mm (3/16") thick)]

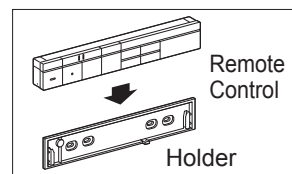
Affix the holder firmly with the supplied wood screws.

[For a plywood wall (< 5 mm (3/16") thick) or a plaster board wall]

- ① Make the pilot holes with 6 mm (1/4") diameter. (5 mm [3/16"] diameter for a plaster board wall)
- ② Use a hammer to insert the supplied plastic anchors gently.
- ③ Affix the holder firmly with the wood screws.

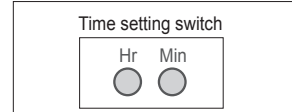


3. Align the remote control to the holder, and push downward to mount the remote control.



4. Press the [Hr] and [Min] buttons to set the current time.

* Pay attention to AM and PM.

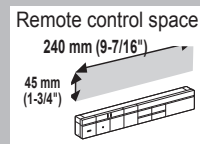


[Note 7-1]

- Ensure to install the batteries in the correct direction (note the negative and positive).
- Do not mix old and new batteries.
- Use the supplied batteries.

[Note 7-2]

- Ensure that there is enough space above the remote control installation position to allow easy removal and mount of the remote control (see the figure below).



8 Test Operation

(Follow the steps below to conduct a test operation when installation is completed.)

•Is there any water leakage?

[See Note 8-1]

1. Open the water shutoff valve.

Leakage check	Checked	Details	
	☐	Is there any leak? * Flush the SpaLet several times. (Water leakage at the supply/drain water connecting sections may not be observed unless the SpaLet is flushed several times.)	
	☐	① Between the water shutoff valve and the water supply hose	
	☐	② Between this product and the water supply hose	
	☐	③ Between this product and the SpaLet bowl	
	☐	④ Between the SpaLet bowl and the floor	

•Do the rear washing and front washing operate properly?

[See Note 8-2]

1. Connect the power plug to the outlet.
2. Roll up the sleeve and place the arm so that the palm is over the center of the SpaLet bowl.



Check item	Checked	Details	
Rear washing nozzle	☐	1. Does the warm water with an appropriate temperature come out from the nozzle? ① Press the [CLEANSING] button. ② Ensure that the shower comes out from the nozzle to the palm.	CLEANSING
	☐	2. Does the shower stop when the [STOP] button is pressed?	
Bidet nozzle	☐	1. Does the warm water with an appropriate temperature come out from the nozzle? ① Press the [BIDET] button. ② Ensure that the shower comes out from the nozzle to the palm.	BIDET
	☐	2. Does the shower stop when the [STOP] button is pressed?	

3. Remove the arm from the SpaLet bowl.

[Note 8-1]

- Water leakage at the supply/drain water connecting sections may not be observed unless the SpaLet is flushed several times.

[Note 8-2]

- This product is equipped with a seat sensor that detects the user. In order for the rear washing and front washing features to operate, the user must be seated.

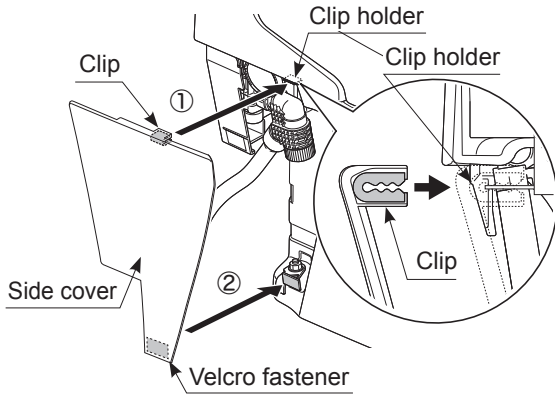
9 Mounting the Side Cover

1. Attach the side covers on both sides.

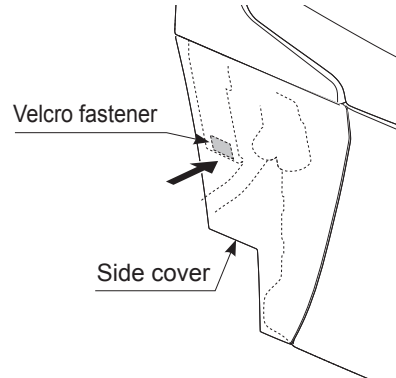
[See Note 9-1], [See Reference 9-1],

[See Reference 9-2]

- ① Insert the "clip" on the upper side of the side cover into the "clip holder" on the SpaLet bowl.
- ② Align the lines of the SpaLet bowl and the side cover, and attach the side cover to the "Velcro fastener" on the lower side of the SpaLet bowl.



- ③ Push the center of the side cover to secure the "Velcro fastener" firmly.



[Note 9-1]

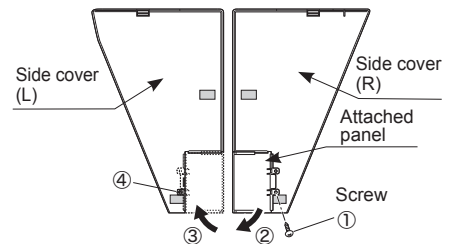
- Do not force the side cover to the SpaLet bowl.

* The cover may be damaged.

[Reference 9-1]

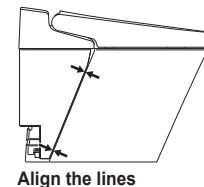
- If the water shutoff valve is located on the right when facing the SpaLet, remove the attached panel attached to the right side cover and attach it to the left side cover.

- ① Remove the screw on the back of the right side cover.
- ② Remove the attached panel from the right side cover.
*Remove in the direction indicated.
- ③ Attach the attached panel to the left side cover.
*Insert in the direction indicated.
- ④ Insert the screw on the back of the left side cover to fasten the attached panel.



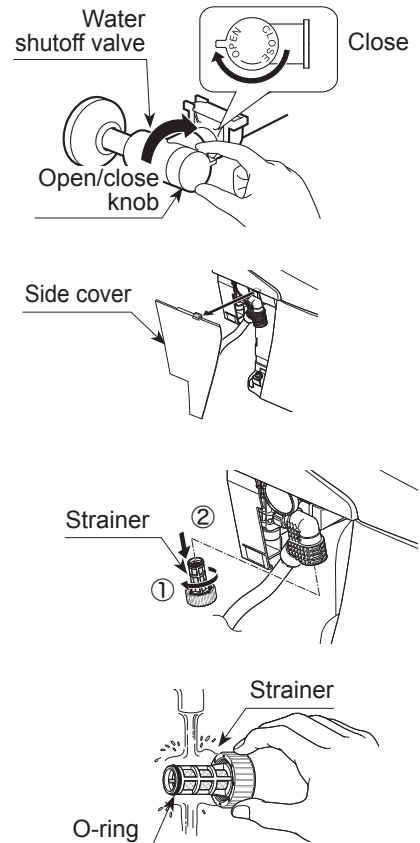
[Reference 9-2]

- Align the side covers to the SpaLet bowl lines when installing the side covers.



If the water does not flow well, clean the strainer.

- (1) Close the water shutoff valve to stop the water supply.
[See Note 10-1]
- (2) Press the [FLUSH/FULL] button or press the flush button on the SpaLet body.
 - * Wait approximately 20 seconds.
 - * Drain the water and remove the water pressure inside the toilet body.
- (3) Remove the side cover on the left (when facing the SpaLet body).
- (4) Rotate and remove the strainer on the lower left when facing to the SpaLet.
 - * A small amount of water may spill out when removing the strainer, so place a piece of cloth or similar on the floor.
- (5) Wash away all debris inside the strainer and from the O-ring.
- (6) Fully tighten the strainer.
[See Note 10-2]
- (7) Attach the side cover.
- (8) Connect the power plug to the outlet.
- (9) Open the water shutoff valve.
- (10) Check for leaks from the water shutoff valve.



[Note 10-1]

- Do not remove the strainer when the water supply valve is open.
- * Water will leak from the strainer.

[Note 10-2]

- When installing the strainer, make sure that the water shutoff valve is tightened completely.
- * If this is not tightened completely, then there may be water leakage from the strainer.

[Note 10-3]

- How to drain the water from the SpaLet body
 - * Press both the [POWER SAVE ON/OFF] button and [AUTO CLEAN] button on the remote control at the same time for more than 2 seconds.

When multiple bidets are installed:

When multiple bidets are installed, a bidet in other booth may also respond to the signal and malfunction. To prevent this, you can change the signal using the remote control unit you purchased. Change both the emitting signal (remote control unit) and receiving signal (bidet body).

1. Changing emitting signal (remote control unit)

- (1) Remove the batteries from the remote control unit.
- (2) Refer to the signal table on the right, hold down the desired button, insert the batteries and wait for six seconds with the button held down.
- (3) When the emitting signal has been changed, the battery mark on the lower right of the remote control unit LCD flashes. (The number of flashes differs depending on the signal that has been changed.)

Signal Number	Operation Button	Battery Mark No. of Flashes
Signal 1	Water Temp	Once
Signal 2	Seat Temp	Twice
Signal 3	Power save	Three times
Signal 0	Nozzle Cleaning	Four times
Signal 4	Hr	Five times
Signal 5	Min	Six times
Signal 6	Auto clean	Seven times
Signal 7	Dryer temp.	Eight times

* **Signal 0 is the default setting.**

2. Changing receiving signal (bidet body)

- (1) Remove the power plug of the bidet for which the signal is to be changed.
- (2) Insert the power plug again, and then press the [STOP] button at least 10 times within 10 seconds after insertion.

NOTE: Do not turn on and off the indoor (equipment) breaker to perform the above operation.

* If power is turned on simultaneously for multiple bidets, the receiving signal of other bidets may be changed.

* Some signals cannot be set on some products.