

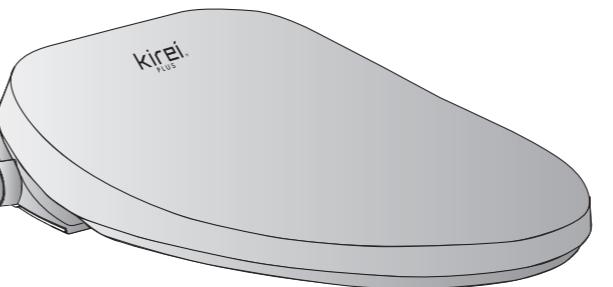
# User manual

杉半  
Sugihan

Hybrid Bidet powered by Water Pressure

Model: **HY-003S** (for 100V) / **HY-220V** (for 220V) /  
**HY-240V** (for 240V)

**kirei**<sup>®</sup>  
PLUS  
キレイプラス



Included Warranty Certificate  
and Installation Manual

Thank you very much for purchasing a product  
from Sugihan Corporation.

■ Please read the manual carefully and use the  
product correctly and safely.

■ Please ensure to fill in and store the  
warranty certificate with details such as the  
purchase date and the seller's information.

■ The illustrations in the manual are based on  
the HY-003S model.

■ Maximum instantaneous power consumption:  
1450W.

In homes with low available power, there is a  
possibility of the circuit breaker tripping. Please  
ensure before installation.

Products purchased without confirmation  
cannot be returned."

■ As the cleaning water is heated instantly, during  
colder winter seasons, it may take some time for  
the initial cleaning water temperature to rise fully.  
This is not a malfunction.

By reducing the amount of cleaning water and  
concentrating the heating function, the cleaning  
water temperature will rise to the set temperature.

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# Safety and Comfort Precautions for Safe and Comfortable Use (Please Follow Carefully)

To prevent harm to the human body and damage to property, please read carefully and follow these instructions.

## Harms and damages caused by misuse are classified and explained.



### Warning

Warning Contents that may cause [death] or [serious injury].



Prohibited actions.  
This is a prohibited act and may cause a malfunction.



### Caution

May cause [minor injury] or [damage to property].



This must be performed without fail.  
Failure to do so may result in malfunction or accident.

## Fire and Electric Shock Risk

### ■ Ensure proper use of the power cord and outlet.



Avoid damaging the power cord or outlet by

- Intentionally causing damage.
- Modifying or altering it yourself.
- Allowing it to come into contact with high temperatures.
- Forcing it to bend, twist, or pull.
- Placing heavy objects on it.
- Bundling it up.



Do not plug or unplug the power cord from the outlet with wet hands.

Do not use the product with voltages other than those specified, and do not exceed the rated capacity by using multiple outlets or wiring accessories (such as extension cords) beyond their rated capacity.



Ensure that the power cord is firmly inserted into the outlet all the way to the base

- When plugging or unplugging the power cord, hold the plug instead of pulling the cord.
- Regularly clean the area around the power cord and outlet to remove dust.

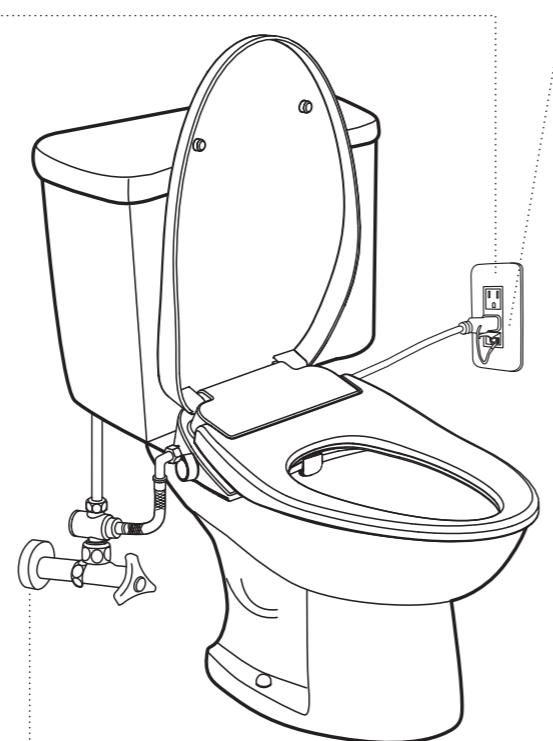


Do not apply water or detergent to the main unit or its back (mechanical parts). (This may cause malfunction, electric shock, short circuit, leakage, etc., and poses a fire hazard.)



### ■ Ensure that the earth wire is securely connected.

Failure to connect the earth wire may result in electric shock in the event of a leakage. <Example of Earth Connection>



### ■ Connection to the municipal water supply is recommended.

For environments using industrial water, well water, or hard water, The Kirei Series is equipped with filters on the diverter valve and water supply hose, allowing you to use well water or hard water for the cleaning function. However, prolonged use of water other than municipal water for the cleaning function may cause bacterial growth or inflammation of the skin. Please use it at your own risk.



■ Do not install in environments where moisture or water directly impacts, such as unit baths.



This may cause fire or electric shock.

### ■ Do not install in places where direct sunlight hits.

This may cause discoloration of the product and malfunction of the temperature control function.



### ■ Do not sit on or lean against the toilet seat cover.

Doing so may cause damage to the toilet seat cover.



### ■ Do not install in environments below freezing (0°C or below)

Installing in environments below freezing (0°C or below) may cause freezing and malfunction.

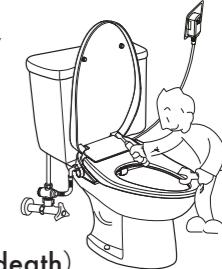


### ■ Do not use the product with voltages other than those specified.

This may cause product malfunction.

### ■ Do not modify or disassemble the unit.

This may cause electric shock, fire, malfunction, injuries, accidents (including death).



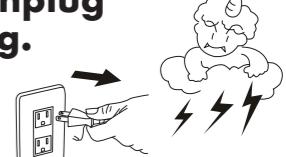
### ■ Do not put excrement on the nozzle.

This may cause malfunction of the cleaning function.



### ■ When there is a possibility of lightning, unplug the power plug.

This prevents product malfunction due to lightning strikes.



### ■ When not in use for an extended period, drain the water from the drain outlet and unplug the power plug.

This prevents skin infections due to water contamination.



## Risk of Low Temperature Burns



### ■ When the following individuals use the product, please turn off the heated toilet seat function.

- Children
- Elderly individuals
- Individuals with sensitive skin
- Individuals with decreased skin sensitivity
- Individuals who cannot control the temperature adjustment function by themselves
- Individuals taking medications that cause drowsiness (such as hypnotics, cold medicine, etc.)
- Individuals who are heavily intoxicated
- Individuals experiencing extreme fatigue (Prolonged sitting on the toilet seat with the same area of the skin in contact with the seat can cause low-temperature burns. While the safety feature reduces the temperature of the seat after 5 minutes of continuous use, it does not completely prevent low-temperature burns.)



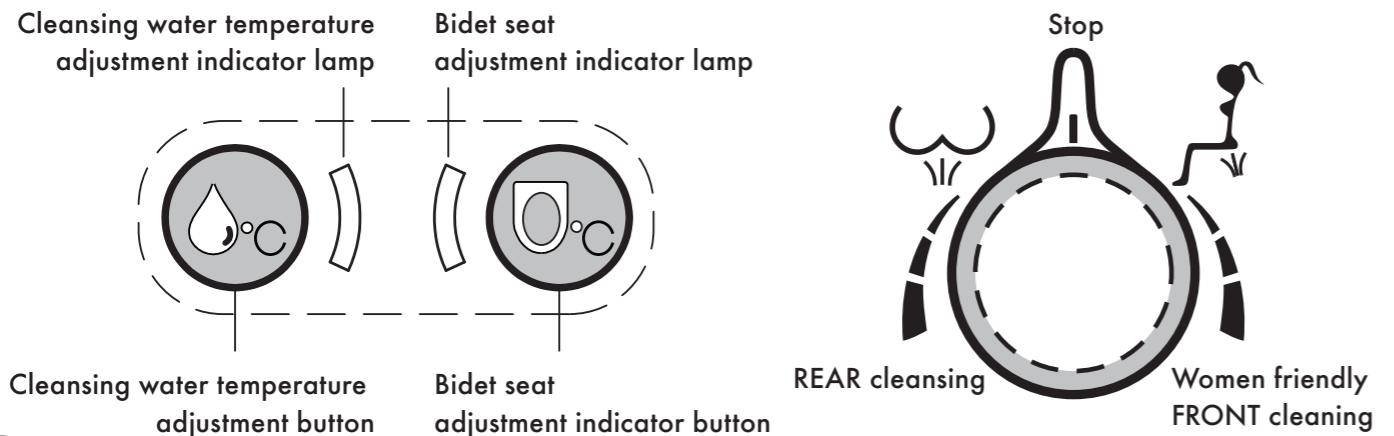
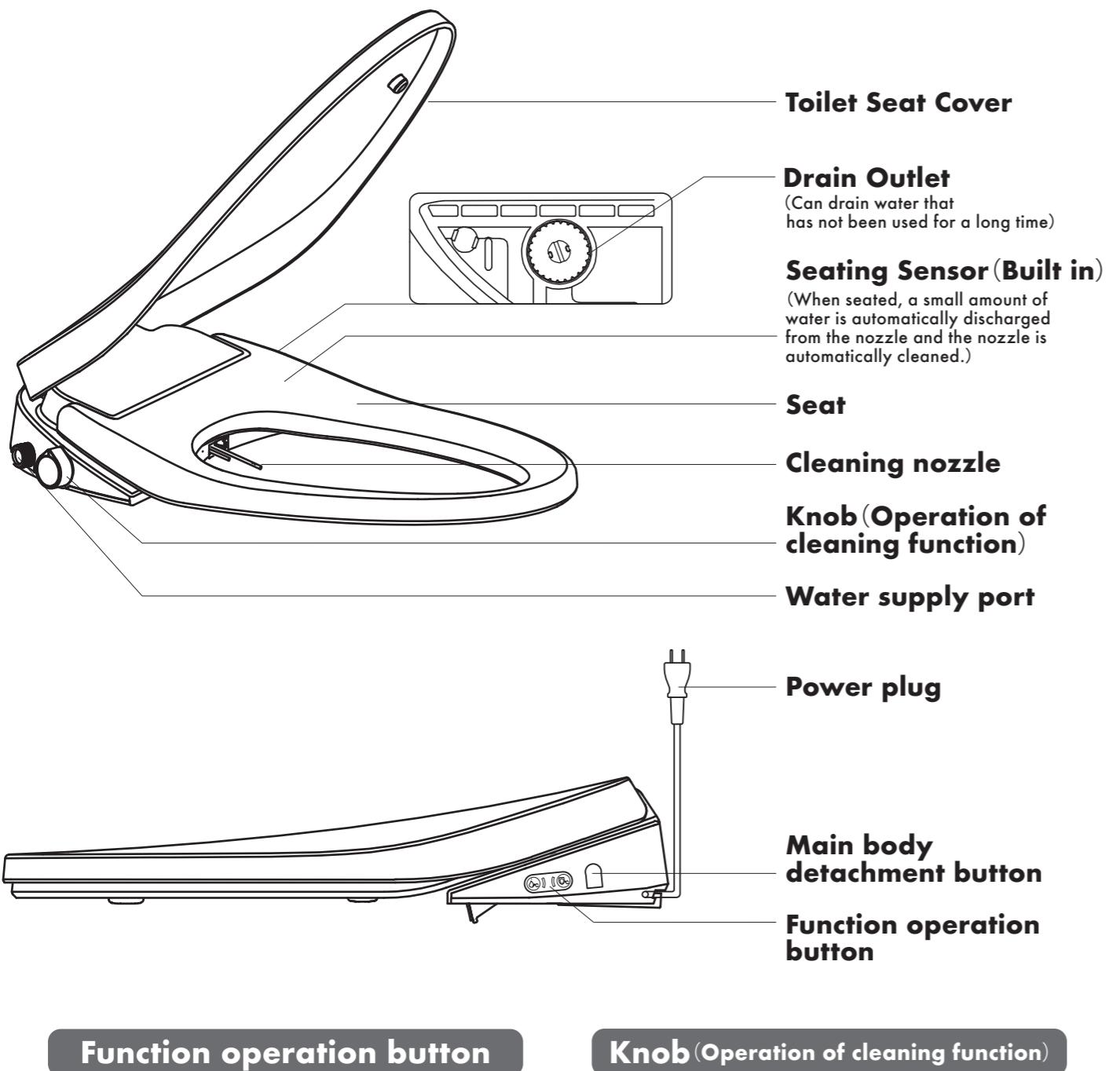
### ■ If you notice any abnormalities or malfunctions, immediately stop using the product, unplug the power cord from the outlet, and close the water supply valve.

- The warning sound does not stop.
- Cracks appear on the main unit or toilet seat.
- Unusual sounds or burning smells are present.
- Moving the power cord causes intermittent power supply.
- The power plug or power cord feels excessively hot.
- The main unit or control panel feels abnormally hot.

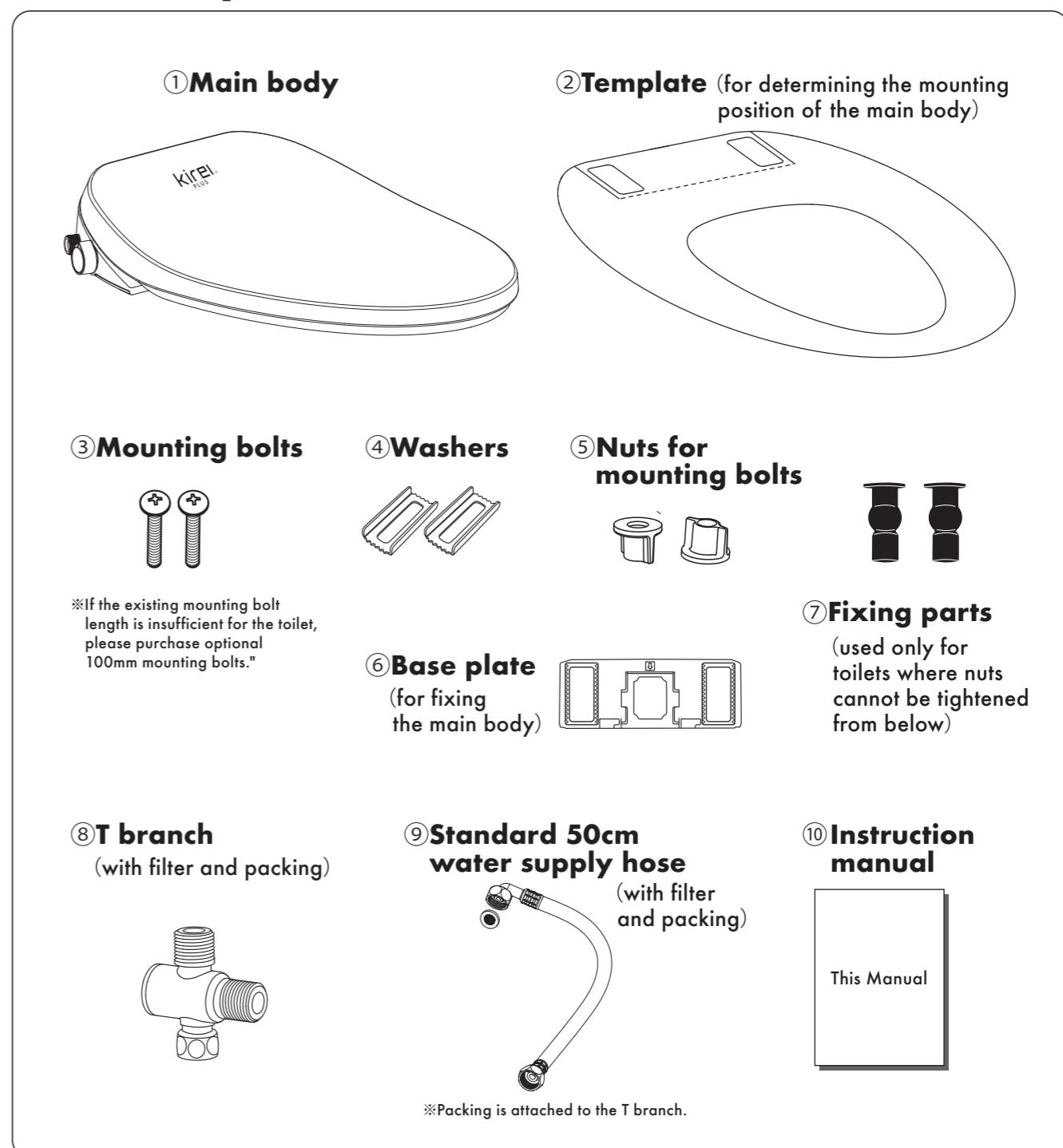
### ■ Individuals undergoing chemotherapy, those with weakened immune systems, or those experiencing immune suppression should consult their physician before using the product.

(There is a possibility of causing harm to the human body.)  
If an infant or someone frail is using this equipment, a supervisor must be present nearby at all times.

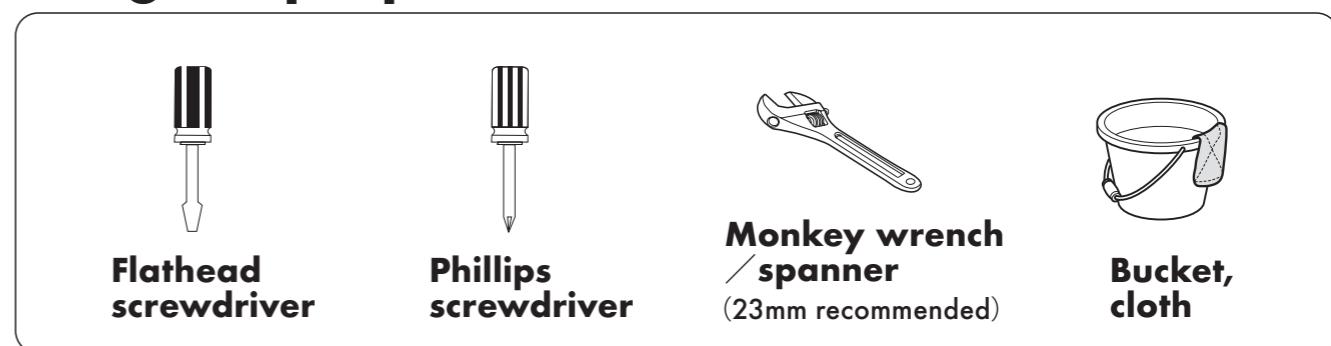
# Confirmation of the Names of Each Part and Included Parts



## Included parts



## Things to prepare



# Pre installation Checklist

## ⚠ Precautions before installation

Water pressure range: Please use within the range of 0.1 to 0.75 MPa.  
Check first if there is a shut-off valve near the toilet that you can open and close yourself, or if the existing toilet seat is fixed with nuts from below.  
If there is no shut-off valve, please do not attempt self-installation and consult a professional.

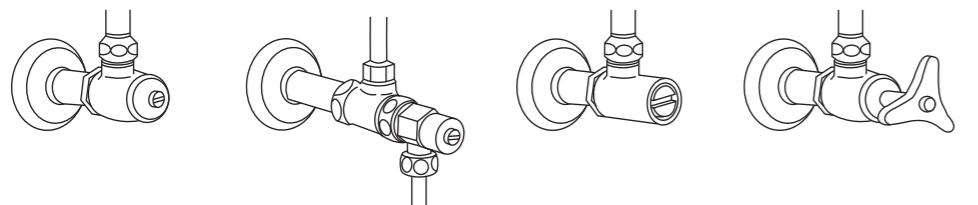
## ⚠ Installation Precautions

- Do not connect the power cord to the outlet until the installation of the main unit is complete.
- If there is frozen water inside the main unit, thaw it in a warm room and proceed with the installation after the water has melted.

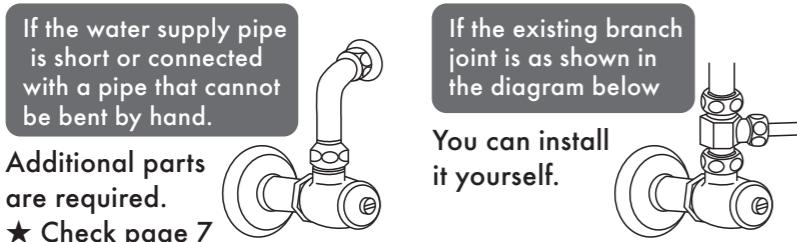
## Installation Process

### ① Close the Stop cock.

※Only shut-off valves that can be opened and closed by yourself allow for self-installation.



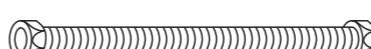
### ② Attach the T branch.



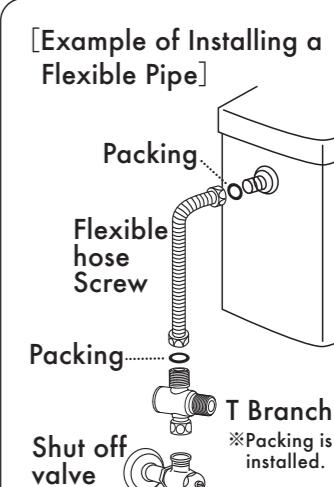
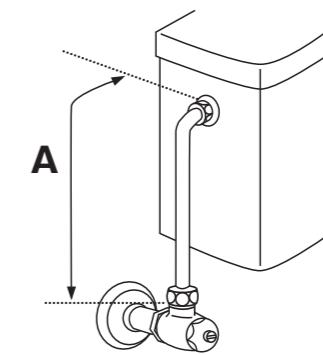
### ③ Attach the water supply hose to the T branch.

## ★ Confirmation of the Length and Type of Water Supply Pipe

If the water supply pipe is connected with rigid steel pipe (supply pipe) that cannot be bent by hand (as shown on the right), you will need to purchase a separate commercially available flexible hose. Measure the length of your current water supply pipe in advance and purchase it from a nearby home improvement store, etc.



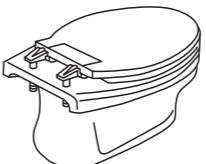
Diameter: G1/2



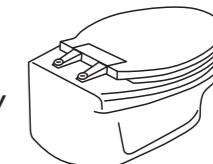
### ④ Remove the existing toilet seat.

### ⑤ Install the toilet seat Kirei PLUS

- For toilets where nut tightening is possible from below (refer to P9 3A).



- For toilets where nut tightening is not possible from below (refer to P9 3B).

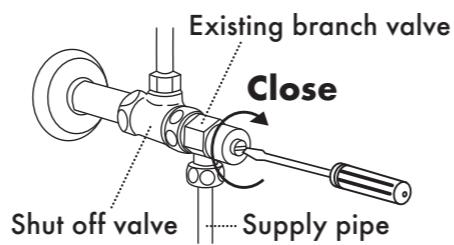
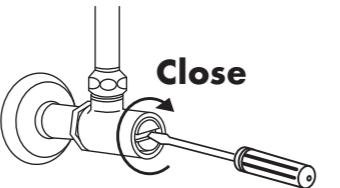
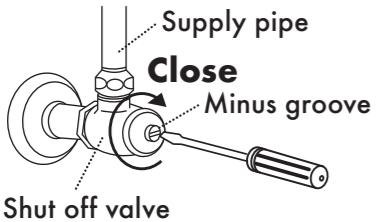


### ⑥ Connect the ground wire and open the shut-off valve.

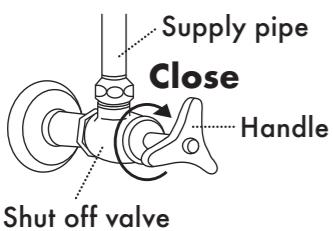
# ① Close the Stop cock.

**!** If there is no water valve, please refrain from self-installation and contact a professional contractor.

## Minus groove type



## Handle (faucet) type

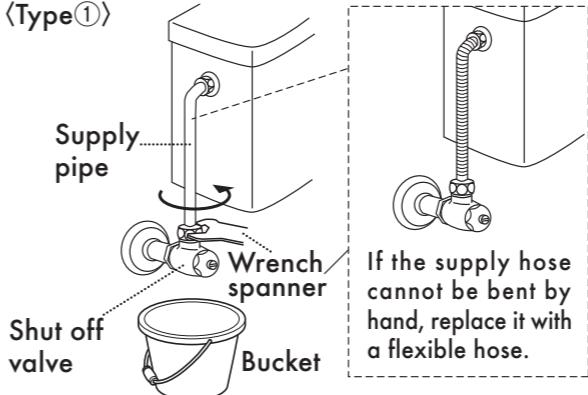


After closing the water valve, please empty the water from the flush tank.

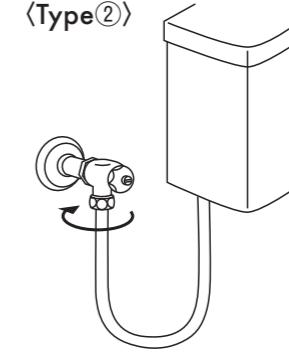
# ② Attach the T branch.

**① After fully closing the shut-off valve, disconnect the water supply pipe. (steel pipe or flexible pipe)**

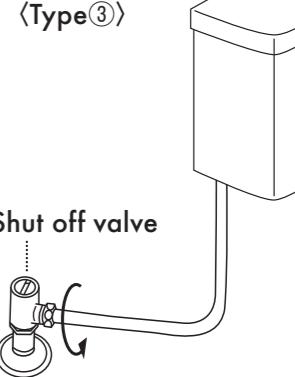
**〈Type①〉**



**〈Type②〉**



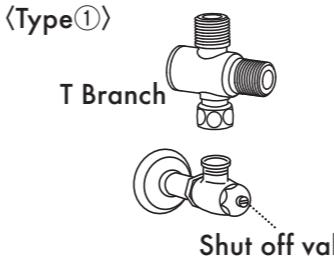
**〈Type③〉**



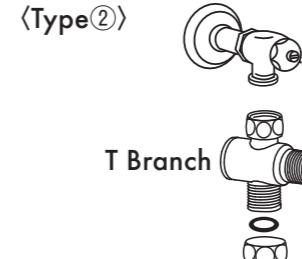
● Please use a bucket or similar container to catch any remaining water in the pipes.

**② Attach the included branch rope to the shut-off valve**

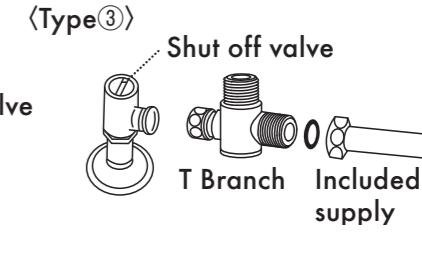
**〈Type①〉**



**〈Type②〉**

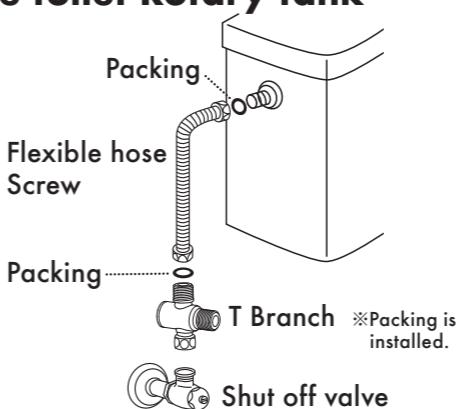


**〈Type③〉**



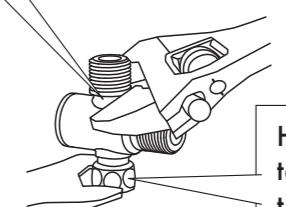
# ③ Attach the water supply hose to the T branch.

## Connect the T branch joint to the toilet Rotary tank



## How to tighten the branch rope

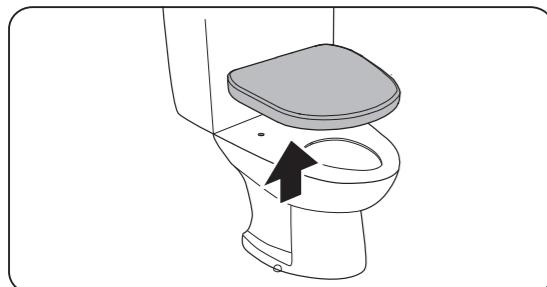
To prevent rotation due to play, fix and tighten this part with a monkey wrench, etc. Perform a preliminary tightening by hand, then tighten with a spanner.



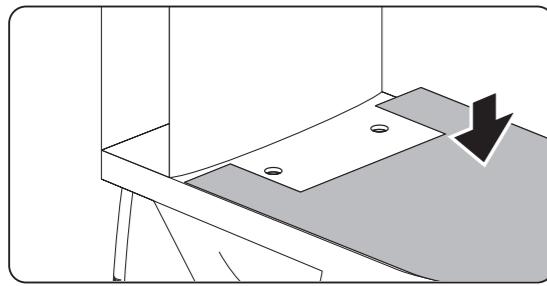
Hand-tighten to temporarily secure, then tighten with a wrench/spanner.

## ④ Removal of Existing Toilet Seat

### ● Remove the existing toilet seat and install the base plate.



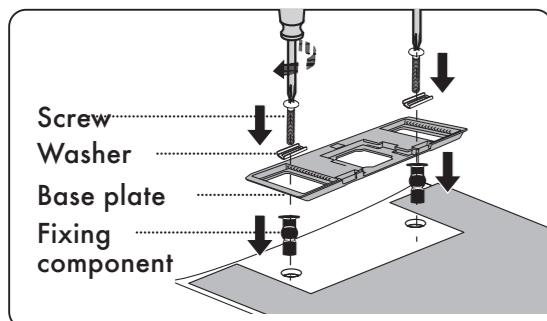
Remove the nuts that are tightened and then detach the existing toilet seat.



### Placement of Template (for determining the mounting position of the main body)

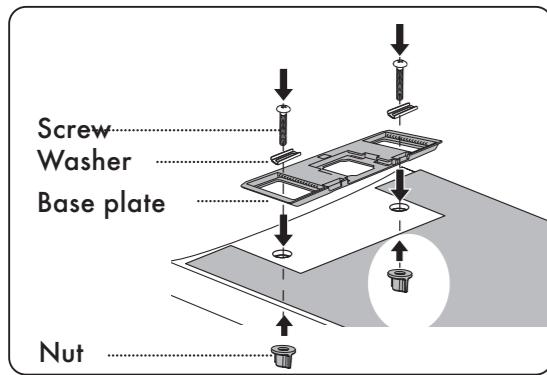
Place the template in the desired position where you want to install the toilet seat, as shown in the diagram. (The position where the template is placed will be the position after installing the toilet seat. Aligning it with the front of the toilet bowl will result in a clean installation. You can cleanly remove the template by pulling it out before fully tightening the bolts.)

**!** Please refer to ⑧ if the existing toilet seat is tightened with nuts from below, and refer to ⑨ if it is not.



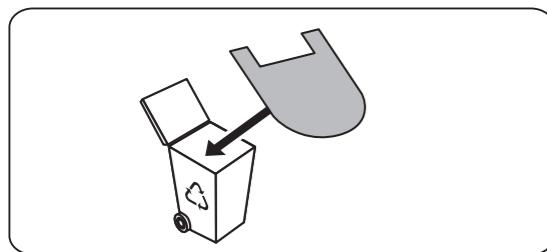
#### Ⓐ Installation of Base Plate (Main Body Mounting Plate) - If nuts cannot be tightened from below

- (1) Insert the fixing parts into the holes of the toilet bowl and place the base plate on top.
- (2) Insert washers into the gaps on the left and right sides of the base plate, pass bolts through the washers, and tighten them with a Phillips screwdriver to secure the fixing parts and bolts.



#### Ⓑ Installation of Base Plate (Main Body Mounting Plate) - If nuts can be tightened from below

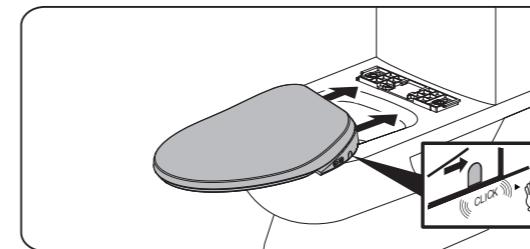
- (1) Place the base plate.
- (2) Insert washers into the gaps on the left and right sides of the base plate, pass bolts through the washers, and tighten the nuts from the back.



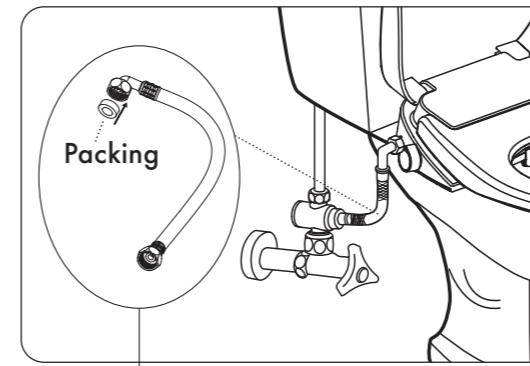
### Remove the template (for determining the mounting position of the main body)

After securely fixing the base plate, remove and discard the template. Leaving the template after installing the toilet seat can cause the product and toilet environment to become dirty.

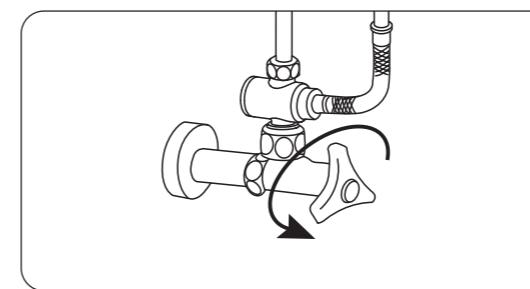
## ⑤ Attach the product.



Slowly press the toilet seat body in the direction shown in the diagram until you hear a "click" sound.



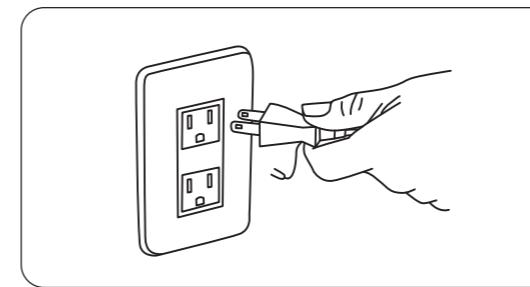
Please connect the hose to the fitting in the direction that is easiest to attach. \*There is no functional difference based on the orientation.



### Once you hear the sound, the toilet seat is securely fixed.

Connection of the branch rope and water supply hose  
After attaching the water supply hose to the T branch, connect the other end of the water supply hose to the toilet seat.

\*When both connection parts are made of metal, please use a tool to tighten them. When either connection part is made of plastic (including when only one part is plastic), be sure to tighten them by hand. Using a tool on plastic parts can cause damage to the connections.



### Open the Stopcock valves

After connecting the branch rope and toilet seat with the water supply hose, open the shut-off valve to supply water to the toilet seat and flush tank.

### Connect the power plug to the outlet.

Please ensure that your hands are dry when doing. It could cause accidents.  
Make sure to connect the grounding wire.

#### Recommendation:

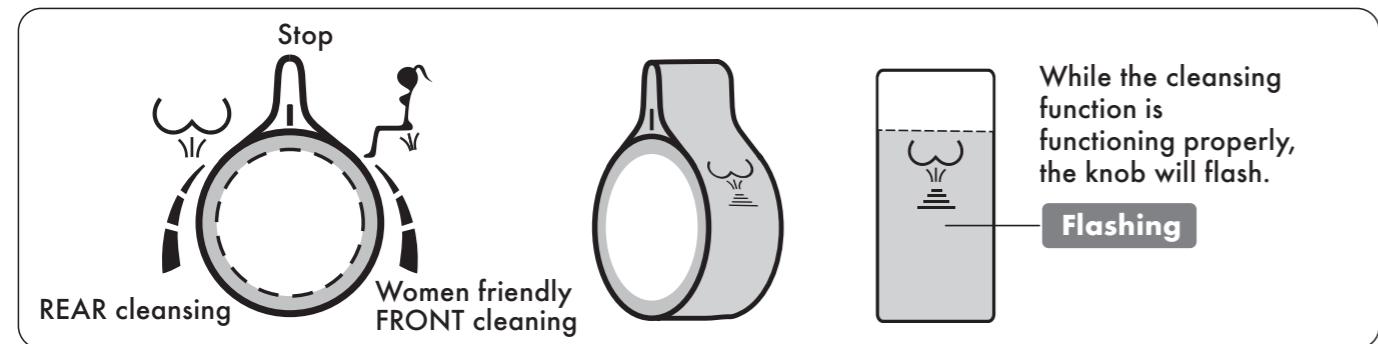
Since this product stores water internally and is used in wet areas, it is recommended to install a residual current device for electrical shock prevention as a precaution.

# Functions Description

## Before using

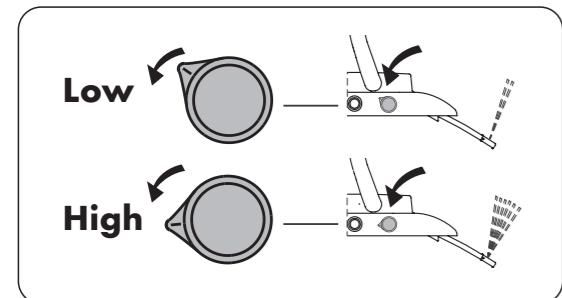
- Before connecting the power cord to the outlet, ensure that the power cord is dry (moisture can cause electric shock).
- When the power plug is connected, the toilet seat will automatically perform a self-check, and once completed, it will be ready for use.
- The water temperature is preset to approximately 35°C (minimum temperature).
- The seat temperature is preset to approximately 33°C (minimum temperature).
- When the power plug is connected to the outlet, the knob (operation of cleaning function) will always be illuminated. Even if you do not use the warm water cleansing or warm toilet seat functions, it consumes approximately 1kWh per month.

## Function of the Knob (Operation of Cleaning Function)



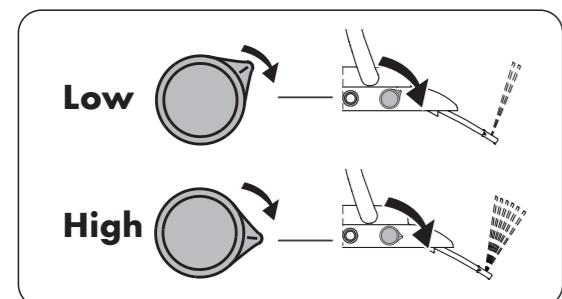
### Automatic cleaning function

- When seated on the toilet seat, the seating sensor activates and the nozzle closes. Then, water is discharged for approximately 5 seconds, and the cleansing nozzle is automatically cleaned.
- After using the cleansing function, water is discharged for approximately 2 seconds, the nozzle is automatically cleaned, and then it closes.



### REAR Cleansing

- The knob (operation of cleaning function) moves vertically as shown in the diagram.
- Upon activation of the seating sensor, automatic cleaning of the nozzle with room temperature water is performed for the first 5 seconds, followed by warm water cleansing.
- The tilt of the knob (operation of cleaning function) allows adjustment of the water pressure.

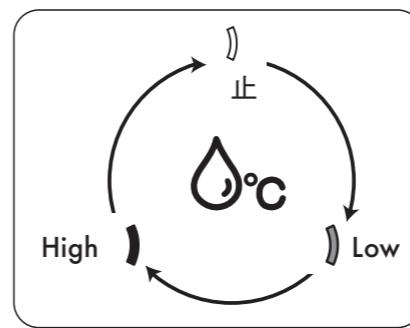
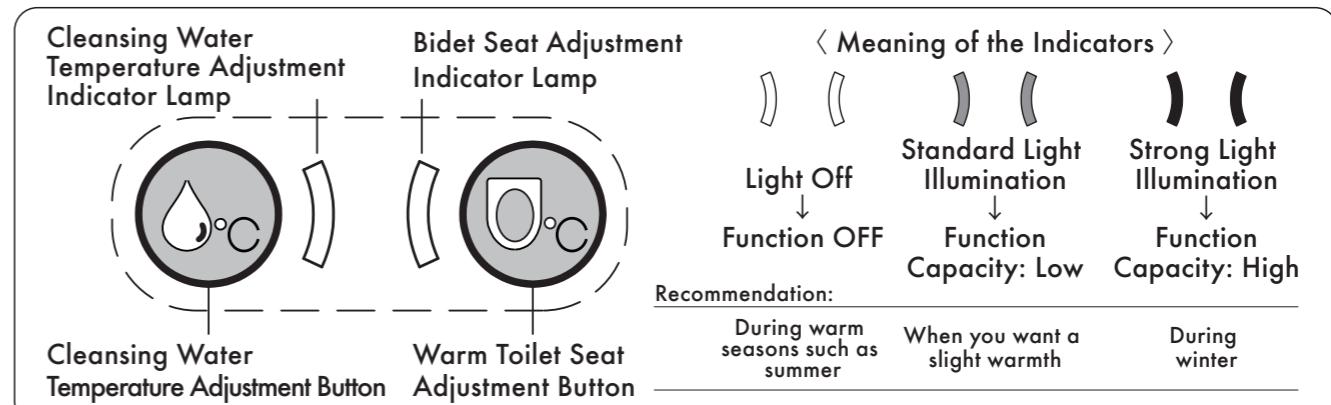


### FRONT Cleansing (tilt backward)

- The knob (operation of cleaning function) moves vertically (tilt forward) as shown in the diagram.
- Upon activation of the seating sensor, automatic cleaning of the nozzle with room temperature water is performed for the first 5 seconds, followed by warm water cleansing.
- The knob (operation of cleaning function) moves vertically (tilt backward) as shown in the diagram.

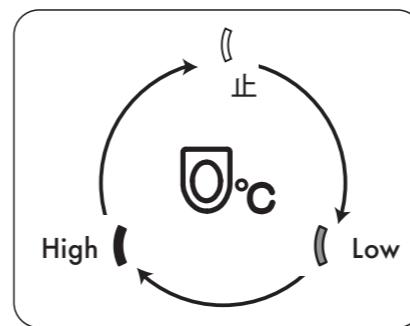
## Function Operation Button (Temperature Adjustment)

**!** The temperature adjustment function may have a margin of error of  $\pm 2^{\circ}\text{C}$  depending on the environment. If you feel that the warmth is insufficient, we recommend setting it to a higher level.



- When pressing the cleansing water temperature adjustment button as shown in the left diagram, the temperature of the cleansing water changes each time.

- When pressing the cleansing water temperature adjustment button to turn off the water temperature, you will hear a "beep" sound for about 2 seconds.
- When switching the cleansing water temperature by pressing the cleansing water temperature adjustment button, you will hear a "beep" sound for about 1 second.
- The setting temperature of the cleansing water is 35°C for "low" and 38°C for "high" settings.



- When pressing the warm toilet seat adjustment button as shown in the left diagram, the temperature of the toilet seat changes each time.
- When pressing the warm toilet seat adjustment button to turn off the warm toilet seat, you will hear a "beep" sound for about 2 seconds. When switching the temperature of the warm toilet seat by pressing the warm toilet seat adjustment button, you will hear a "beep" sound for about 1 second.
- The setting temperature of the warm toilet seat function is 33°C for "low" and 37°C for "high" settings.

## Safety Features

- Low-temperature burn prevention feature: When the warm toilet seat function is in use, if there is no seating for 5 minutes after sitting down, the seat temperature automatically decreases to 29°C to prevent low-temperature burns.
- Alarm function: If the cleansing function is used without sitting down, an alarm will sound. (Note: Cleansing water will be discharged.)
- Protection function for cleansing water temperature:
  - (1) During the use of the cleansing function, if the water temperature exceeds 43°C, the cleansing water will stop, and the nozzle will automatically switch to self-cleaning mode.
  - (2) After the cleansing water temperature returns to normal, cleansing can be resumed or continued.

Note: After using the cleansing function, always return the knob to the stop (middle) position. If the knob is not returned fully, cleansing water may splash out and soil the surroundings.

## Usable Even in Disasters

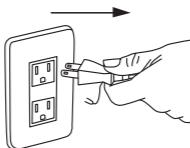
Even during disasters or power outages, as long as there is water pressure available, the "Rear Cleansing" and "Bidet Cleansing" functions can be used. The warm toilet seat and warm water cleansing functions are not available until power is restored, but once power is restored, they become usable.

# Freezing Prevention and Restarting Instructions

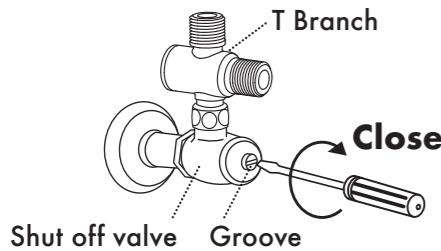
## Freezing Prevention

Please be cautious of freezing if you live in cold regions or if the product is used in cold environments.  
(Do not use when the temperature is below freezing.)

① **Disconnect the power cord from the outlet.**

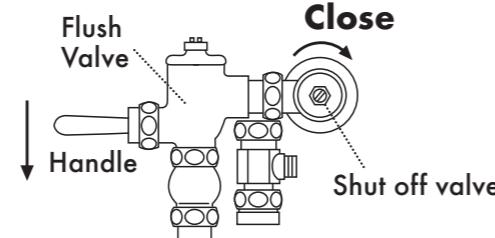
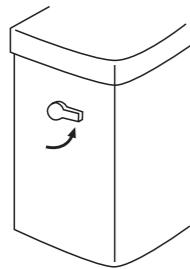


② **Close the shut-off valve completely to stop the water supply.**



**A. Rotary tank type**

Rotate the lever of the tank to flush the water completely.

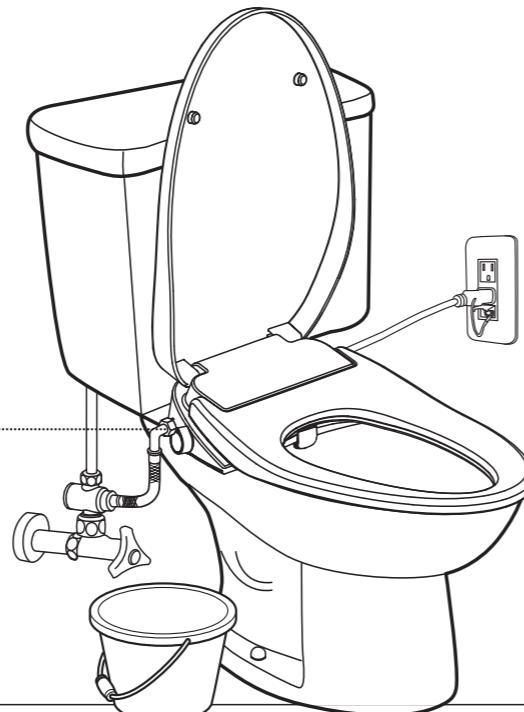
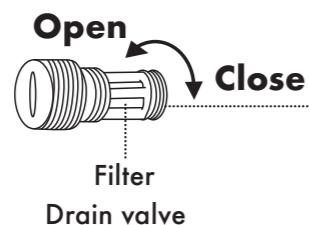


**B. Flush Valve Type**

Push the handle to flush out the water.

③ **Using a bucket or similar container, open the drain outlet at the back of the unit with a screwdriver and completely drain the water from inside the unit.**

\*Seat removal required



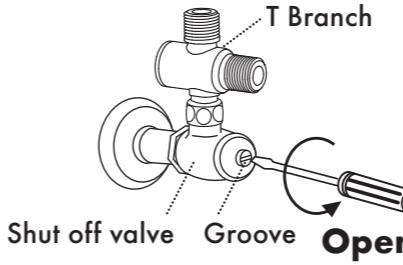
Customers residing in cold regions where there is a risk of freezing, please completely close the water shutoff valve to prevent freezing in case of a power outage due to a disaster.

## How to restart use

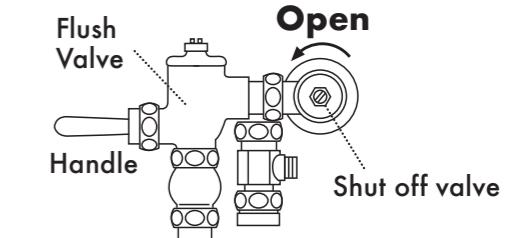
■ **If the indoor temperature is at or below freezing (0°C or lower), there is a risk of freezing, and the product cannot be used. Please ensure that the room temperature is above 0°C before resuming use.** ※Recommended for environments above 4°C

① **Open the Stopcock valve to supply water.**

**A. Rotary tank type**

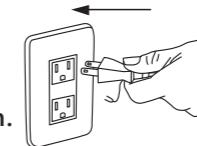


**B. Flush Valve Type**



② **Plug the power cord into the outlet.**

※Ensure grounding wire connection.

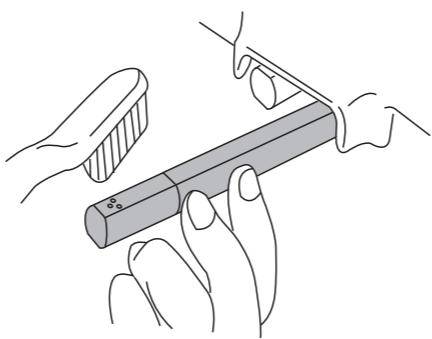


③ **Sit down Seat and tilt the knob to confirm the cleansing operation.**

# Cleaning Maintenance Instructions

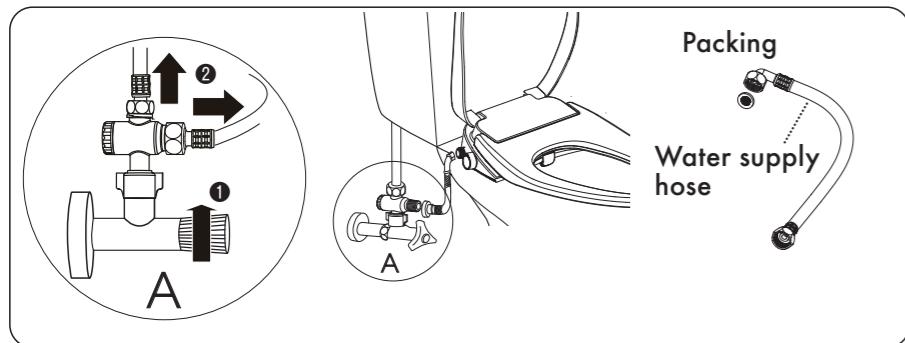
## W. Cleaning the Wash Nozzle

Slowly pull out the nozzle by hand and clean it using a soft cloth, sponge, small brush, etc., with a small amount of neutral detergent. Please wipe it clean.



## Maintenance of the Filter

- Before cleaning the filter or any other part, make sure to securely close the shut-off valve and unplug the power cord. ※ There is a risk of water leakage or electric shock.
- Please only clean the filter when you feel the water flow is poor.  
※ Excessive opening and closing may cause water leakage and other accidents.
- When cleaning the filter, it is necessary to completely remove the water supply hose from the product.
- After cleaning the filter, reattach each component in the reverse order of the removal process during cleaning.
- The cleansing nozzle may release water to relieve pressure, and water may occasionally come out from the nozzle to check for blockages or buildup. It is necessary to operate it periodically for this purpose.



## Cleaning the main body

● Please wipe the surface of the product with a sponge or soft cloth dampened with warm water and neutral detergent.

● When cleaning the toilet seat or other parts, lift the upper cover and seat ring.

● Be sure to rinse off any detergent used for cleaning before reattaching. If the product is reattached before being completely rinsed, remaining detergent may cause corrosion.



# If the product suddenly becomes unusable, try these troubleshooting steps.

When the product suddenly becomes unusable, please try the following steps to troubleshoot the issue.

## If the power is not turning on

- Try unplugging and re-plugging the power cord.
- Verify if there is electricity supply.
- ※ Check if other electrical appliances are functioning properly.

! In the following cases, please promptly unplug the power and discontinue use

- The warning sound does not stop.
- There are cracks in the main body or seat.
- Unusual sounds or burning smells.
- The power cord moves intermittently between on and off.
- The power plug or cord is unusually hot.
- The main body or controls are abnormally hot.

## If the wash water is not coming out, please try the following

- Check if the shut-off valve is open.
- Verify if water is reaching the shut-off valve (Check if water is filling up in the flush tank).

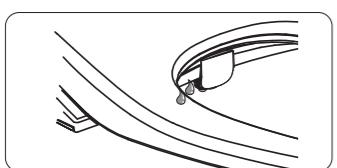
## If the power cord is damaged

Replacement of the cord must be carried out by the manufacturer, its authorized dealer, or an equivalent qualified person to prevent danger.

## Precautions for using the warm water washing function in winter

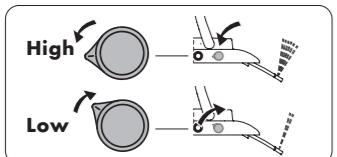
! In regions with severe cold, such as cold climates, when using the warm water washing function, the heating capacity may not keep up, resulting in the washing water feeling cold. Kirei PLUS adopts an instant heating system for the washing water, so please follow the method below to reduce the water flow rate, sufficiently warm the washing water, and then use the washing function.

Note: If the washing water is not discharged at room temperature, it is not a malfunction but due to the low inlet water temperature, which affects the performance.



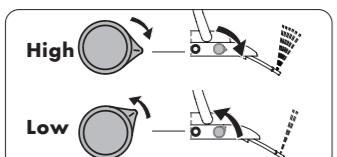
### Methods to produce warm water during cold periods

〈Reduce water flow rate during use〉  
Tilt the lever to the maximum to activate the heating capacity.  
After 5 seconds of automatic cleansing, reduce the cleansing flow rate to warm the cleansing water and adjust the tilt of the knob.



### For REAR wash (tilt backward)

Gradually reduce the cleansing water flow rate to maximize the heating capacity.  
The cleansing water pressure decreases as the flow rate is reduced.



### For FRONT wash (tilt forward)

Gradually reduce the cleansing water flow rate to maximize the heating capacity.  
The cleansing water pressure decreases as the flow rate is reduced.

## Is it a malfunction?



In case of water leakage, close the shut-off valve, cut off the water supply, and disconnect the power immediately.  
There is a risk of fire or electric shock due to leakage current.

Phenomenon	Possible	Causes Solutions
Present Seat temperature is low	Cause Seat temperature setting is low	Solution Increase the seat temperature setting to "high"
Present Seat temperature is high	Cause Seat temperature setting is high	Solution Decrease the seat temperature setting to "low"
Present Seat feels cold when seated	Cause Seat temperature setting is off	Solution Set the seat temperature to "low" or "high"
Present Seat remains cold even after temperature adjustment	Cause Poor contact of the seat heating coil	Solution Replace the product
Present Delay in the emergence of the cleaning nozzle when the cleaning knob is tilted	Cause Prior discharge of normal temperature water as an automatic cleaning of the nozzle	Solution During use of the cleaning function, automatic cleaning for about 5 seconds is normal
Present Insufficient water pressure for cleaning	Cause Knob not tilted sufficiently	Solution Tilt the knob sufficiently
Present Insufficient cleaning water temperature	Cause Cleaning water temperature setting is low	Solution Increase the cleaning water temperature setting
Present Cleaning water temperature is too low	Cause Cleaning water temperature exceeded 43°C	Solution Safety function activates, nozzle switches to automatic cleaning mode until normal temperature is reached
Present Sound of water leakage when seated	Cause Seat sensor activates, initiating automatic cleaning of the nozzle	Solution Normal if the discharge lasts about 5 seconds
Present Cleaning water temperature does not rise, and the knob does not light up or blink	Cause Flow meter malfunction	Solution Replace the product

# Sugihan Warranty Certificate

This warranty certificate guarantees free replacement of the product for one year from the date of purchase based on the details provided.

In case of initial defects or natural malfunctions occurring within one year from the date of purchase, please contact the telephone number below.

Please note that this warranty certificate is invalid without proof of purchase indicating the date of purchase.

If you have used an online shopping service, please ensure you have a receipt or other proof indicating the date of purchase.

## Customer Service Center

Sugihan Corporation Website



Customer's Name		Retailer			
Customer's Address			TEL		
Model		Purchase Data	年 月 日		
HY-003S (100V~120V) HY-220V (200V) HY-240V (240V)		Warranty Period	One year from the date of purchase for natural malfunctions.		

## Product Specifications

Rated Power Supply	HY-003S(100V~120V) / HY-220V(200V) / 240V(240V) 50/60Hz			
Rated Power Consumption	960W			
Classification	Instantaneous Type			
Power Cord Length	1.1m			
Cleaning Functions	Discharge Volume	REAR Wash	Approximately 500ml/minute	
		FRONT Wash		
	Bidet Wash Discharge Temperature		OFF / Room Temperature Low / 35°C High / 38°C	
	Safety Device			
Heated Seat	Temperature Adjustment Fuse			
	Backflow Prevention Device			
	Backflow Prevention Valve			
Heated Seat	Seat Temperature		OFF / Room Temperature Low / 33°C High / 37°C	
	Safety Device		Temperature Adjustment Fuse	
Adjustable Water Pressure Range	0.1 to 0.75MPa			
Water Supply Temperature	4°C ~ 35°C			
Operating Environment Temperature	4°C ~ 40°C <small>Operating below 4°C may cause freezing, while above 40°C may lead to malfunctions by overheating.</small>			
Product Dimensions	Vertical D508 x W367 x H95mm			
Product Weight	3.2kg			
Standards	JIS A 4422:2011 and Compliant with the Water Supply Act			
Remarks	Temperature Adjustment Function may have a ±2°C error depending on usage environment			