

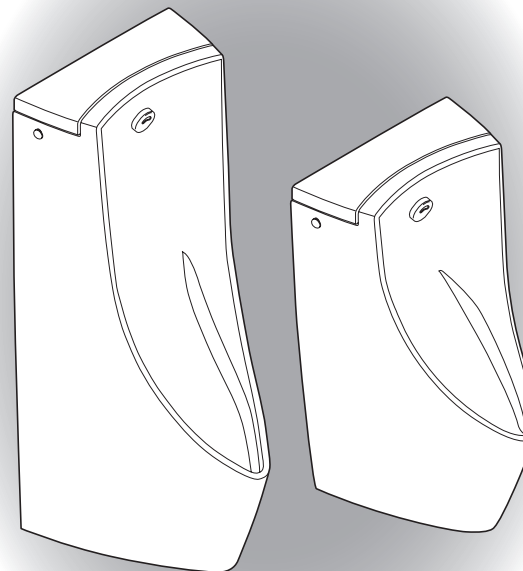
TOTO

TOTO

**Instruction Manual
with Warranty**

Auto Flush Urinal

**USWN900 Series
USWN902 Series**



Issues about repair&usage
Please contact the installer or seller

Installer		
Seller	Tel	Signature

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- Thank you for your recent purchase of the TOTO Auto Flush Urinal. Please read this Instruction Manual carefully to ensure the safe use of your product.
- Be sure to check that details such as the name of the installer and installation date are entered on the warranty.
- Keep this Instruction Manual in a safe place for future reference.

Safety Precautions For safety, be sure to follow these





Read these "Safety Precautions" carefully before using your product to ensure safe use.

- After reading these precautions, be sure to keep them in a place where they can be referenced at any time by users of the product.
- This manual uses various symbols to indicate information for the safe and correct use of the product, and prevent harm to you or other people or damage to property. The symbols and their meanings are as follows.

 WARNING	Incorrect product handling that ignores the information in this section may result in death or serious injury.
 CAUTION	Incorrect product handling that ignores the information in this section may result in injury or property damage.









* "Property damage" means damage to houses, household belongings, livestock or pets.



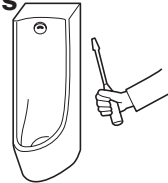

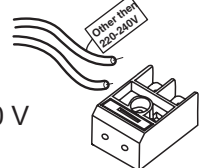





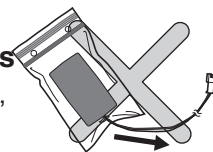


The types of information that must be followed are classified and described with the following symbols.

	 indicates a prohibited use of the product. The symbol on the left means "Do not disassemble".
	 is used to indicate a required step in the use of this product. The symbol on the left means "Required".

Figures and part shapes may differ slightly from the actual product depending on the product part number.

WARNING

 Do not use in a wet place	Never use in a wet place, such as a bathroom, where condensation may form on the surface Doing so may cause malfunctions or electrical current leaks. 
 Do not touch	(For AC type) Never touch the power terminal with your hands while power is being supplied Doing so may cause electrical shock. 
 Do not touch	(For AC type) Do not touch the controller during thunderstorm Doing so may cause electrical shock. 
 Wet hands prohibited	Do not plug or unplug the connector with wet hands Doing so may cause electrical shock. 

 WARNING	
 Do not disassemble	Do not perform disassembly or alterations other than as described in this manual Doing so may cause fire or electrical shock. Also, malfunctions such as water shutoff or spray defects may occur or the apparatus may be damaged, causing injuries or damage to property due to water leaking onto household belongings, etc. 
 Prohibited	(For AC type) Do not use a power supply other than AC220-240 V Using a power supply other than AC220-240 V may cause fire or malfunctions. 
 Prohibited	Do not wash the entire product with water Doing so may cause malfunctions or electrical current leaks. 
 Prohibited	<For DC Dry Battery type> Use only alkaline batteries. Using an oxyride dry-cell battery or the like may cause fire or malfunctions. 
 Prohibited	<For DC Dry Battery type> Do not pull the battery box electric wires Doing so may disconnect the wires or terminals, or cause fire or electrical shock. 
 Prohibited	Keep the cleaning magnet away from people with implanted electronic medical devices such as pacemakers, and other electronic medical devices Otherwise, the medical device may not operate correctly, resulting in a life-threatening accident. The magnet is a separately sold part.  Pacemaker

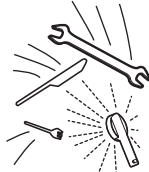
⚠ WARNING



Required

Be very careful when handling the cleaning magnet, because it has a strong attraction force

Otherwise, your hands or fingers may be trapped and injured between the magnet and another magnet, or between the magnet and a magnetic object such as metal pieces, a knife or scissors. Also, the magnet may crack and scatter fragments into your eyes.



The magnet is a separately sold part.

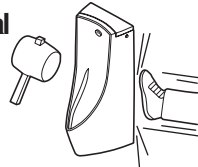
⚠ CAUTION



Prohibited

Do not apply strong force or impacts to the urinal

Doing so may damage the urinal and cause an injury, or cause damage to property due to water leaking onto household belongings, etc.



If the urinal is cracked or broken, never touch the damaged parts or use the urinal

Doing so may cause an injury from the damaged parts. Replace at an early opportunity.



Do not pour hot water into the urinal

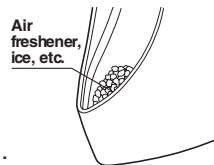
Doing so may damage the urinal and cause an injury, or cause damage to property due to water leaking onto household belongings, etc.



Do not place objects inside the bowl

Doing so may block the drainage channels and cause flushed water to overflow from the urinal, resulting in damage to property due to water leaking onto household belongings, etc.

Air freshener, ice, etc.



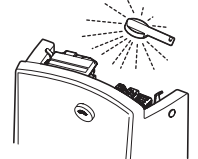
⚠ CAUTION



Prohibited

Keep the cleaning magnet away from electronic devices

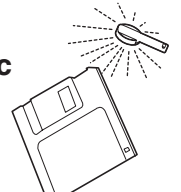
Otherwise, instruments or control circuits may be affected, resulting in accidents or malfunctions.



The magnet is a separately sold part.

Keep the cleaning magnet away from objects such as floppy disks, magnetic cards, magnetic tape, prepaid cards, tickets and cathode ray tubes

If magnetic storage media are placed near the magnet, the recorded data may be damaged.



The magnet is a separately sold part.

Keep the cleaning magnet away from precision devices such as wristwatches and cellular phones

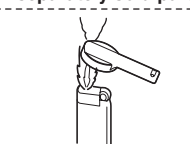
Otherwise, the device may malfunction.



The magnet is a separately sold part.

Do not heat the cleaning magnet, or use or store the magnet in a hot location

Doing so may impair the function of the cleaning magnet.



The magnet is a separately sold part.

Do not use or store the magnet in a wet or humid location

Doing so may impair the function of the cleaning magnet.



The magnet is a separately sold part.

Part Names

⚠ CAUTION

Wipe any urine, condensation, detergent, water, etc. that has gotten on the floor with a well-wrung mop or cloth

Leaving such substances on the floor may cause staining or corrosion.



Wipe off any condensation from the surface of the urinal or other parts with a dry cloth

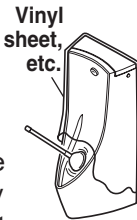
Failure to do so may cause staining or corrosion of the floor.

* Ventilating the toilet with a fan or by opening a window, etc. makes it difficult for condensation to form.



If the urinal is clogged, be sure to close the shutoff valve before unclogging the urinal with a commercially available tool that is made for unclogging toilets (such as Rubber Cup (product name))

If water is flushed while the urinal is clogged, waste water may overflow and cause damage to property due to water leaking onto household belongings, etc.

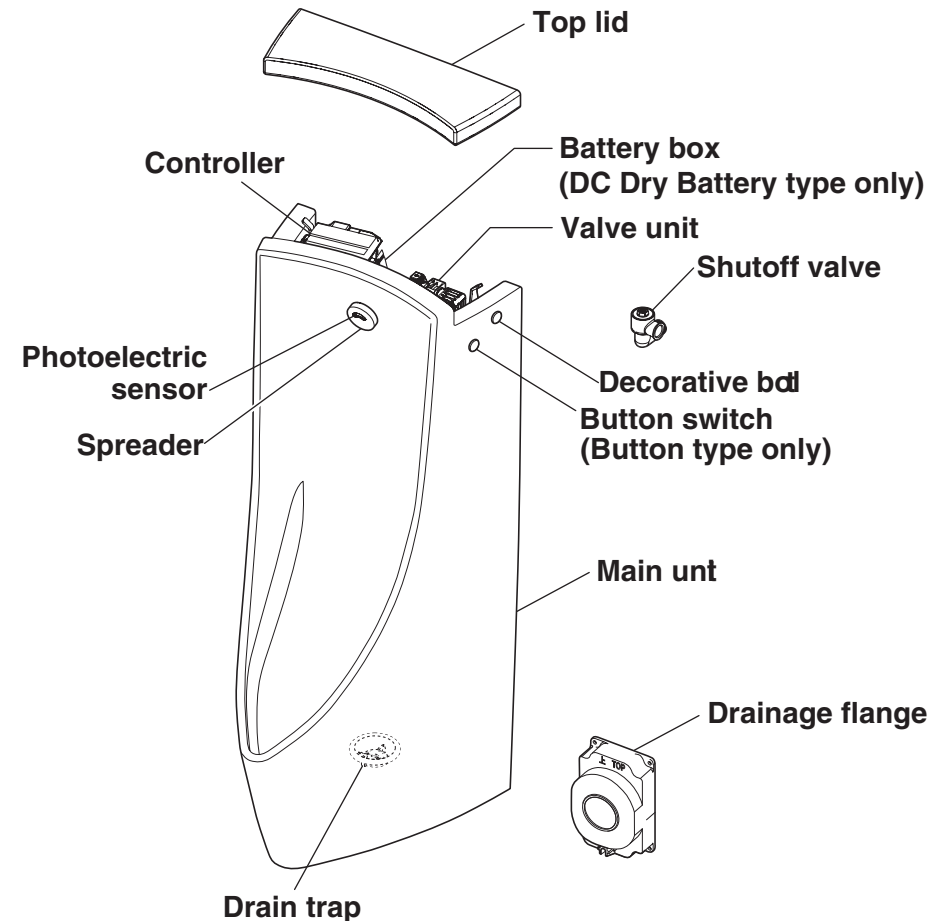


Vinyl sheet, etc.



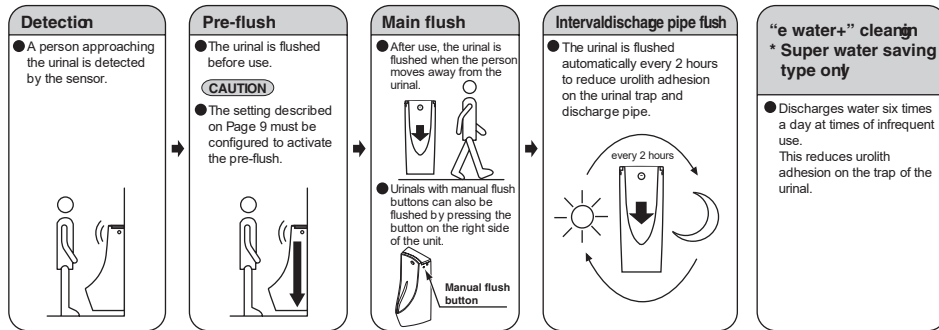
Required

	Wall Mounted Urinals	
	USWN900 Series	USWN902 Series
AC type	USWN900AE	USWN902AE
e water+ type	USWN900AS	USWN902AS
DC Dry Battery type	USWN900A	USWN902A
AC Button type	USWN900AEP	USWN902PPE
e water+ Button type	USWN900ASP	USWN902PPS



* The product may be slightly different in shape than the product shown in the figure depending on the model.

Operation System



This product has the following automatic flushing functions.

<Interval discharge pipe flush

In addition to flushing after every use, discharge pipe flushing is performed every 2 hours. Discharge pipe flushing is performed efficiently using 2 flushes, reducing urine accumulation and urolith adhesion inside the discharge pipe.

<“e water+” cleaning> * e water+ type only

* “e water+” is water created by electrolyzing chloride ions contained in tap water, and includes sanitizing components (hypochlorous acid).

CAUTION



The above effects cannot be obtained while the power supply is off.

Pre-flush Setting

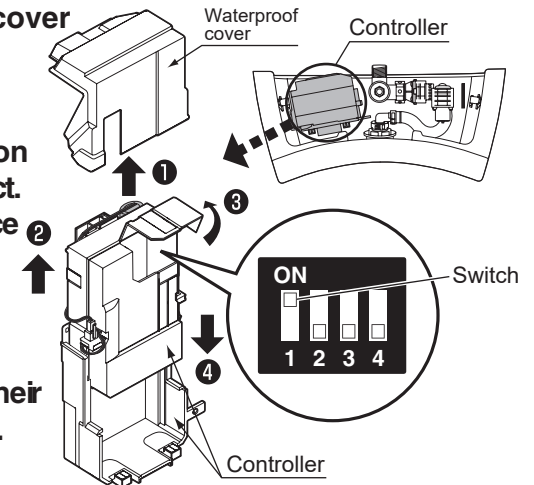
* When the product is shipped, pre-flush is set to “OFF”. Change the setting as required.

Pre-flush setting method

Open the setting switch cover on the controller and set switch No. 1 to “ON”.

For details, check the caution label attached to the product. Do not apply excessive force to the switch.

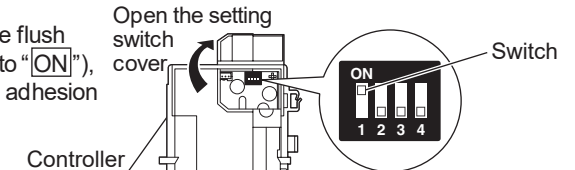
After setting, return the waterproof cover, controller and setting switch cover to their original installation condition.



Switches and settings

Switch No.	Setting		OFF	ON	Approx. change in water volume used when OFF ON
1	Pre-flush	-	No: Initial setting	Yes	+0.3 L/flush
2	Interval discharge pipe flush	USWN900A* USWN902A*	Yes: Initial setting	No	-24 L/day
		USWN900A*P USWN902P*	Yes	No: Initial setting	

* When interval discharge pipe flush is set to off (switch No.2 set to “ON”), the effect of reducing urolith adhesion is no longer obtained.



Although the Auto Flush Urinal is effective in reducing urolith adhesion, it does not remove urolith that has already adhered. (The discharge pipe maintenance is necessary, however the frequency could be lessened or the interval could be extended.)

Interval discharge pipe flushing is performed automatically every 2 hours. Keep the power supplied 24-hours a day.

Routine Maintenance

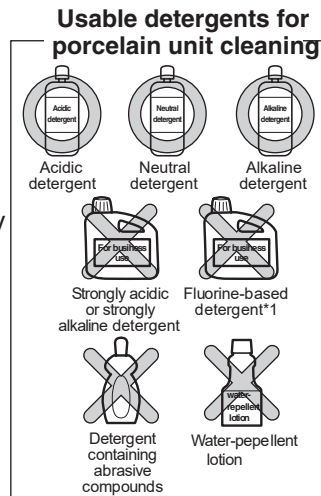
Maintenance keeps the toilet clean and extends its service life. Please perform thorough and routine maintenance. Note that although CeFiONtect parts have dirt prevention properties, routine maintenance is still important to keep their surfaces clean.

[Cleaning the porcelain unit]

About the cleaning detergent

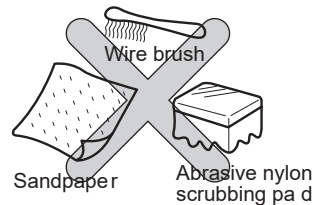
Any commercially available household detergents can be used, regardless of whether they are acidic, neutral or alkaline. However, do not use water-repellent lotion. Once you use it, it would cover the surface of the pottery which makes some parts can't be washed clean. However, do not use detergents containing abrasive compounds, industrial strongly acidic or strongly alkaline detergents, or fluorine-based detergents*1, because they may damage or permeate the porcelain surface.

*1 Including hydrogen fluoride and ammonium fluoride
*Please make a complete rinse and avoid the residual of detergent.



About the cleaning tools

Do not use tools such as wire brushes, abrasive nylon scrubbing pads or sandpaper, because they will damage the surface.

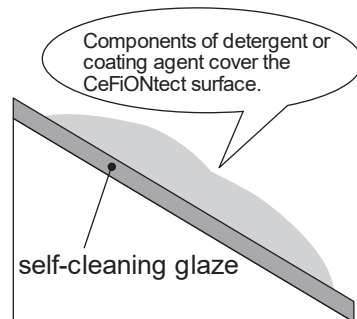


About CeFiONtect

CeFiONtect is TOTO independently developed technology where bumps on the porcelain surface are smoothed at the nano level of 1 million of 1 mm, making dirt difficult to adhere and easy to remove.

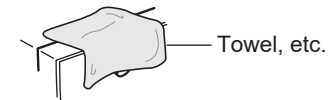
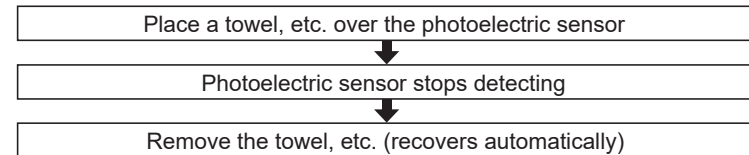
About surface coating agents

Do not use any water repellent, stain-proofing detergent or surface coating agent. These products do not damage the porcelain surface, but their components may cover the porcelain surface and reduce the effect of the built-in stain prevention technology.

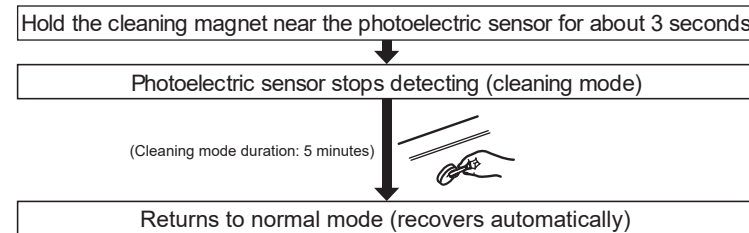


Advice for cleaning the inside bowl surface

When cleaning the inside bowl surface, use a towel, etc.



When using the cleaning magnet The magnet is a separately sold part.



* When the cleaning magnet is held near during cleaning mode, about 4 L of water is sprayed.

⚠ WARNING	
 Prohibited	Do not wash the entire product with water Doing so may cause malfunctions or electrical current leaks.
 Required	Handle with care, because this is an electric appliance Failure to do so may cause an electrical shock.

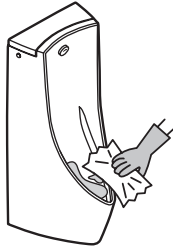
Cleaning the urinal

For light dirt

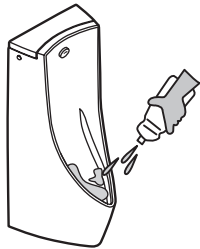
Wash with water using a cleaning brush or sponge.

For scale or heavy dirt

- 1 Wipe off moisture from the dirty part

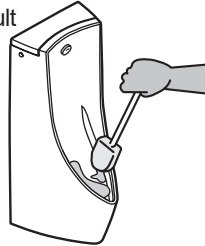


- 2 Apply toilet cleaner directly on the dirt



- 3 Scrub using a cleaning brush or sponge

If the dirt is difficult to remove, use a tool such as a small stick.



- 4 As the final step, wash with water.



Cleaning the spreader (main unit)

For light dirt

Wipe off the dirt with a soft cloth that has been soaked in cold or lukewarm water and wrung-out thoroughly.

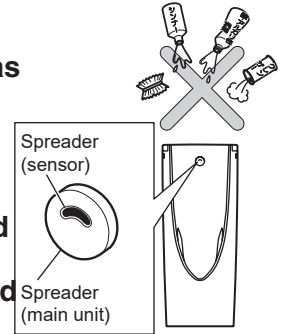
For heavy dirt

Wipe off the dirt with a soft cloth soaked in appropriately diluted neutral dishwashing detergent, then wipe with a wet cloth and then a dry cloth.

Attention!

Do not use items that may damage the surface.

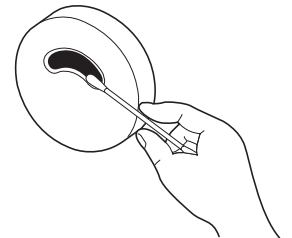
- Acidic detergents, chlorine bleach, alkaline detergents
- Solvents such as thinners or benzene
- Detergents containing coarse particles such as cleansers or scouring powders
- Nylon pads, scouring pads, brushes, etc.



Cleaning the spreader (sensor)

Wipe off the dirt with a cotton bud that has been soaked in cold or lukewarm water.

If the dirt is heavy, wipe off the dirt with a cotton bud soaked in appropriately diluted neutral detergent, then wipe with a wet cloth.



* When cleaning, be careful not to damage the sensor surface

Cleaning the floor

⚠ CAUTION



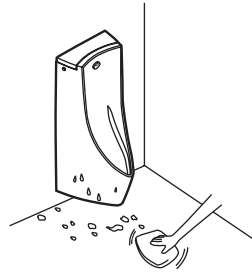
Required

Wipe any urine, condensation, detergent, water, etc. that has gotten on the floor with a well-wrung mop or cloth

Leaving such substances on the floor may cause staining or corrosion.

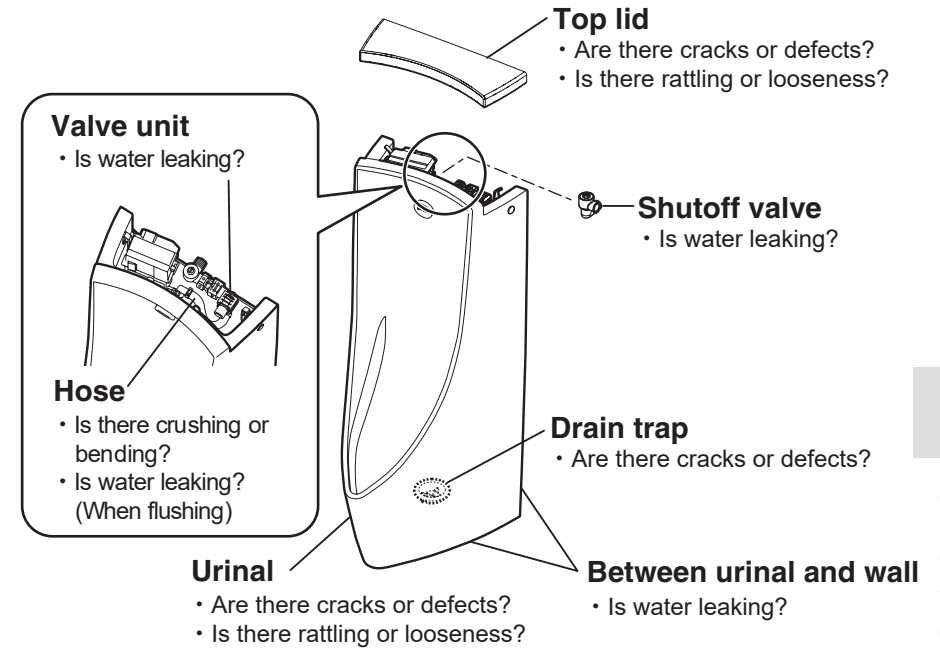
Wipe any urine that splashes out from the urinal or condensation that drops from the apparatus onto the floor with a well-wrung mop or cloth.

Wipe any detergent or water that has gotten on the floor during cleaning with a well-wrung mop or cloth.



Periodic Inspection

As the product deteriorates with use over a long time (deterioration with time), safety issues may occur. To prevent serious accidents due to deterioration with time, and to enable you to use the product safely and comfortably for a longer period of time, please perform the following inspections yourself at least once a year.



Inspection location	Inspection date (year/month/day)		
Urinal	/ /	/ /	/ /
Top lid	/ /	/ /	/ /
Drain trap	/ /	/ /	/ /
Hose	/ /	/ /	/ /

Inspection location	Inspection date (year/month/day)		
Shutoff valve	/ /	/ /	/ /
Between urinal and wall	/ /	/ /	/ /
Valve unit	/ /	/ /	/ /

Replacing the battery (DC Dry Battery Type)

Preliminary notes on replacing the battery



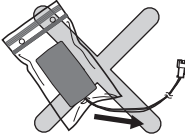
If the battery inside the battery box is drained, the unit will flash in 2-second cycles.

When it switches to 4-second cycles, the flushing function will stop.



Battery replacement method

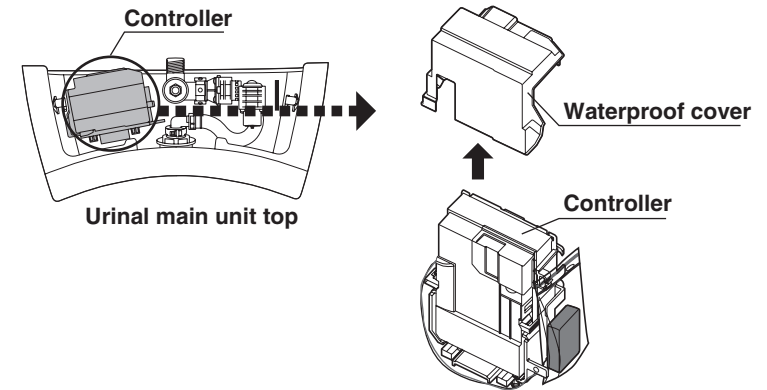
⚠ WARNING

 Prohibited	<p>Use only alkaline batteries. Using an oxyride dry-cell battery or the like may cause fire or malfunctions.</p>	
	<p>Do not pull the battery box electric wires Doing so may disconnect the wires or terminals, or cause fire or electrical shock.</p>	

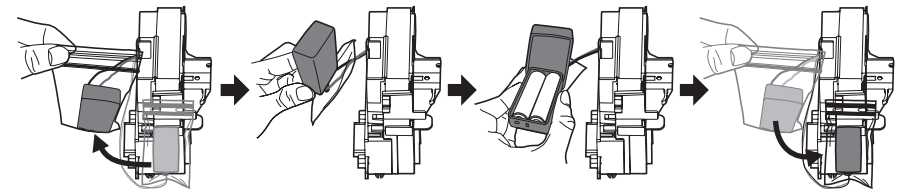
Because the flushing function stops as soon as the photoelectric sensor starts flashing in 4-second cycles, refer to the following instructions and replace the battery immediately.

When the photoelectric sensor starts flashing in 2-second cycles, replace the battery quickly with the following procedure.

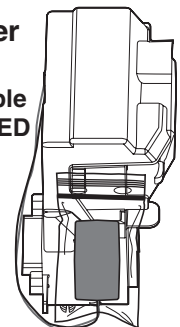
- 1 Remove the waterproof cover from the controller.



- 2 Lift the whole bag up, then open the drip-proof zipper.
- 3 Replace the alkaline battery, then close the drip-proof zipper
- 4 Hang the bag in its original position.



- 5 Install the waterproof cover onto the controller
 - For 10 minutes after replacing the battery, the LED flashes during photoelectric sensor detection to enable the detection status to be confirmed. After this, the LED does not flash even during detection



Troubleshooting

If you think there may be a malfunction, first check that there is no power outage or water failure. If these are normal, remove the top lid and then perform an inspection according to the following inspection items. Check “Part Names” (Page 7) for the part locations. If the malfunction persists even after performing the inspection according to the inspection items or you suspect something abnormal, close the open/close screw of the shutoff valve and then contact the installer or seller.

Before requesting repair (check Page 7 for the part names)

Symptom	Condition	Solution	Ref. Page
Floor is wet	Condensation formed on the urinal has dripped onto the floor.	Wipe the condensation with a dry cloth and ventilate the toilet.	P.14
	Urine splashed from the urinal has dripped onto the floor.	Wipe the splashed urine thoroughly with a mop or cloth.	P.14
Water is not flushed	Dirt is clogging the water filter.	Clean the water filter.	P.24
	The shutoff valve is not open.	Open the shutoff valve.	P.21~P.23
	The detection LED does not light up during use.	(AC type) Check that power is being supplied.	P.21~P.22
Flushed water does not stop	—	Close the shutoff valve and contact your installer or seller.	P.24

Symptom	Condition	Solution	Ref. Page
Flush volume is low	Dirt is clogging the water filter.	Clean the water filter.	P.24
	The shutoff valve is only slightly open.	Open the shutoff valve.	P.21~P.23
Water flushes on its own	Flushes even though the urinal is not being used.	Interval discharge pipe flushing is being performed, or intermittent spray flushing for freezing damage prevention is being performed.	P.25
Detection LED lights up or flashes	The detection LED lights up during use.	(AC type) Designed to light up.	P.25
		(DC Dry Battery Type) Designed to not light up or flash.	P.25
	The detection LED flashes during use.	(AC type, DC Dry Battery Type) Designed to flash while interval discharge pipe flushing is being performed.	P.25
		(DC Dry Battery Type) Replace the battery. (Flashes in 4-second cycles)	P.16~P.17
There is residual after flushing in the toilet	If there are repellent phenomena, the toilet will be difficult to be wet.	Please clean the toilet according to normal maintenance.	P.10

Removing and reinstalling the top lid

Tool to use



Hexagonal bar wrench
(nominal diameter: 4)

⚠ WARNING



Do not touch

Never touch the power terminal with your hands while power is being supplied
Doing so may cause electrical shock.

⚠ CAUTION



Prohibited

Do not tighten the decorative bolts too strongly
Doing so may cause damage.



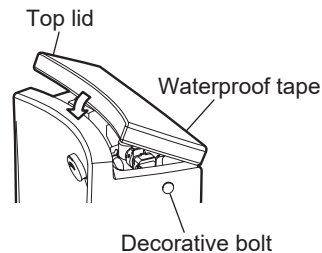
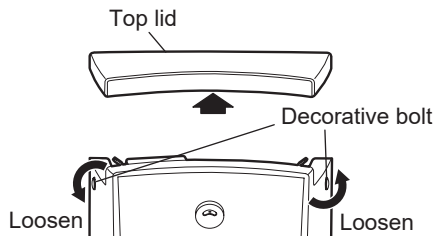
Required

Be careful not to let the top lid fall
Otherwise, it may crack.

1 Use the hexagonal bar wrench to turn the decorative bolts on the left and right side surfaces to your left and loosen them

2 Press the loosened decorative bolts to the inside and then lift up the top lid.

3 When reinstalling the top lid, place the top lid while pressing the waterproof tape attached on the top lid rear surface against the wall.



Water is not flushed (AC type, e water+ type)

⚠ WARNING

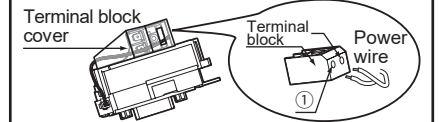


Do not touch

Never touch the power terminal with your hands while power is being supplied
Doing so may cause an electrical shock.

Power wire connecting and disconnecting procedure

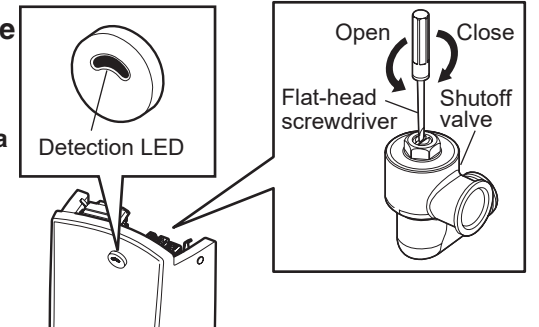
A qualified electrician should perform connection and disconnection of the power wire onto the terminal block.



1 When the detection LED lights up normally while the urinal is being used

Check that the master valve and shutoff valve are open.

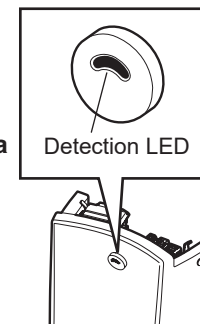
* If water is still not flushed, close the shutoff valve with a flat-head screwdriver, and request repair from your installer or seller.



2 When the detection LED lights up while the urinal is not being used

If there are any objects nearby, remove them.

* If water is still not flushed, close the shutoff valve with a flat-head screwdriver, and request repair from your installer or seller.



What to Do?

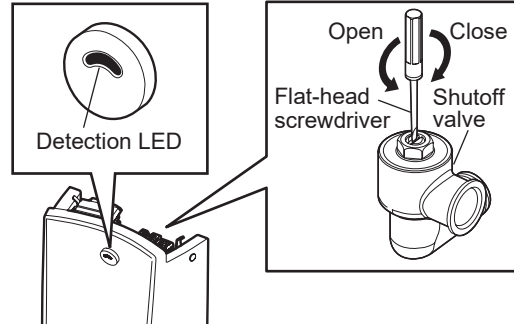
Water is not flushed (AC type, e water+ type)(continued)

3 When the detection LED does not light up while the urinal is being used

- (1) Hold your hand over the detection LED.



- (2) Check that power is being supplied.

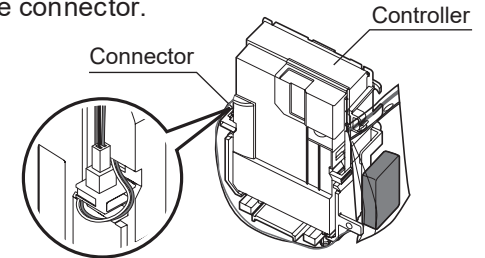


* If water is still not flushed, close the shutoff valve with a flat-head screwdriver, and request repair from your installer or seller.

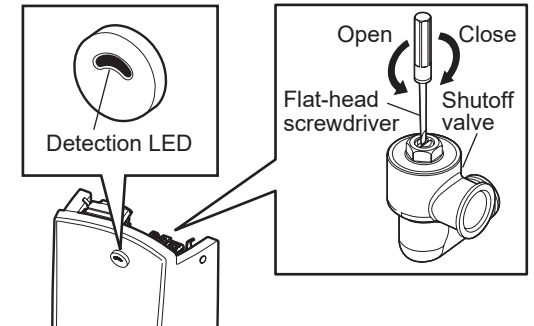
Water is not flushed (DC Dry Battery type)

When the detection indicator LED is flashing, or you do not know whether it was flashing

- (1) Check the connection of the connector.



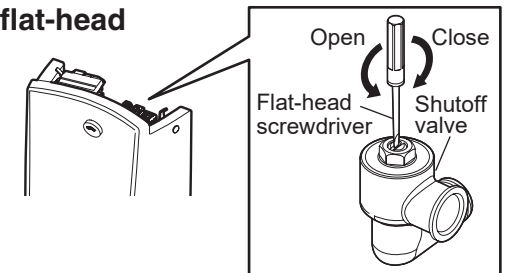
- (2) Open the master valve and shutoff valve.



* If water is still not flushed, close the shutoff valve with a flat-head screwdriver, and request repair from your installer or seller.

Water does not stop

Close the shutoff valve with a flat-head screwdriver.



* Request repair from your installer or seller.

Flush volume is not appropriate

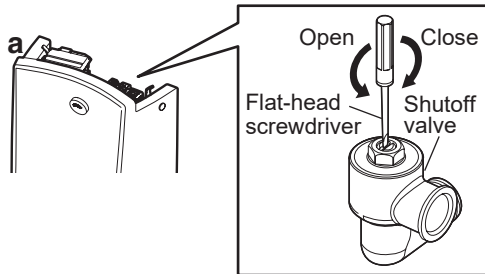
CAUTION



Use the product with the shutoff valve fully open. If the shutoff valve is partially closed, the flushing performance may drop and impair hygiene.

- 1 Close the shutoff valve with a flat-head screwdriver.

Wave your hand in front of the sensor to check that flushing water does not flow out during cleaning.

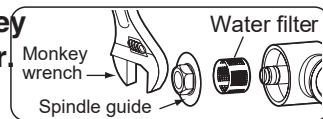


- 2 Place your hand over the sensor to release the pressure inside the water supply pipe.
(A small amount of water will come out from the spreader.)



* If the internal pressure is not released, water may spray out when the spindle guide is removed.

- 3 Remove the spindle guide with a monkey wrench and then remove the water filter.



- 4 Remove clogged dirt from the mesh of the water filter with a brush, etc.



* If the water volume is still not appropriate, request repair from your installer or seller.

Detection LED lights up or flashes

In the AC type and dry type, the sensor detection LED may light up or flash. When the LED lights up or flashes, it means the following.

- <Indicating the urinal is being used>
 - AC type: Lights up
 - DC Dry Battery type: Does not light up
 - <Indicating battery is discharged>
 - DC Dry Battery type: Flashes (in 2-second cycles)
 - <Indicating interval discharge pipe flush or intermittent spray flush is operating> (10 minutes only)>
 - AC type: Flashes
 - DC Dry Battery type: Flashes
 - <Indicating the power is turned on>
 - DC Dry Battery type: Flashes
 - <Indicating "ewater+" cleaning is operating>
 - Super water saving type: Flashes
 - <Indicating part replacement for "ewater+">
 - Super water saving type: Flashes quickly
- * For 10 minutes after replacing the battery, the detection LED flashes during photoelectric sensor detection to enable the detection status to be confirmed. After this, the detection LED does not flash even during detection.
- * If you see quick flashing, contact the installer or seller to repair it.
- * The water volume may be increased temporarily to reduce dirt adhesion on the trap.

Water flushes on its own

This product has the following automatic flushing functions.

<Interval discharge pipe flush>

In addition to flushing after every use, discharge pipe flushing is performed every 2 hours. Discharge pipe flushing is performed efficiently using 2 flushes, reducing urine accumulation and urolith adhesion inside the discharge pipe.

<"ewater+" cleaning* e water+ type only>

* "ewater+" is water created by electrolyzing chloride ions contained in tap water, and includes sanitizing components (hypochlorous acid).

CAUTION



The above effects cannot be obtained while the power supply is off.

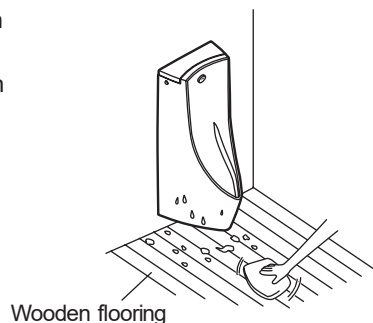
* If the frequency of the water flushing on its own does not match the cases described above, contact the installer or seller to repair it.

Urinal FAQ



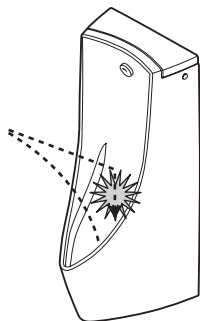
What causes black stains around the urinal?

When urinating, urine may splash out depending on where the urine makes contact inside the urinal. Particularly on wooden flooring, if the urine is left on the floor, the ammonium in urine may cause black stains.



Can splashing out of urine be avoided when using the urinal?

Whether urine splashes out when using the urinal depends on where the urine makes contact. Most people tend to aim for the drain trap at the bottom, but it is better to make contact with the urinal wall directly in front. The urine then flows down the urinal wall.



What causes black and pink dirt inside the urinal?

Areas such as the urinal bowl and around the discharge hole may discolor and turn black, or pink dirt may adhere. This is due to mold spores or bacteria floating in the air breeding by using the dirt adhered to the urinal as a nutrient source. When dirty, scrub using a toilet brush, etc. with a neutral toilet detergent.

Type	AC type	e water+ type	DC Dry Battery type
Part No.	USWN900AE USWN900AEP USWN902AE USWN902PPE	USWN900AS USWN900ASP USWN902AS USWN902PPS	USWN900A USWN902A
Dimensions (mm) width x depth x height	USWN900 Series 380×420×920 USWN902 Series 380×390×660		
Power supply	AC220-240V 50Hz/60Hz		Dry battery (2-cell AA alkaline battery)
Power consumption and battery life	0.5 W or less	Below 0.5w 24w at Sterilizing water flushes	Two years around if used 4000 times per month
Operating ambient temperature rang	0~40°C		
Detection distance	Automatically adjusted to 650 mm or less * Installation not possible if a wall is within 650 mm of the sensor		
Required detection time	About 5 seconds or longer (not detected when less than 5 seconds)		
Water supply pressure	Minimum required water pressure (dynamic): 0.07 MPa (9 L/minute) Maximum water pressure (static): 0.75 MPa		
Standard flush volume	Below 0.5 L		
Pre-flush function	Can be set to "OFF" (setting at shipment) or "0.3 L/flush "		
Interval discharge pipe flush	2 L every 2 hours * Automatically adjusted according to usage		
Water supply connection	Connection screw G1/2		
Used water	Tap water		
e water+	None	0.5 L every time 6 times/day	None