

1 Important Safeguards

(For your safety, please follow the instructions below.)

In this Instruction Manual, the following symbols are shown for safe and proper use of your automatic faucet and in order to alert you to the possibility of personal injury and damage to your property.

The symbols and their meanings are as follows.



Warning

Ignoring these symbols may cause personal injury and/or property damage.

*Some models may have different components from the ones illustrated below.

Warning

 Do not use in humid area	<p>Do not place the Automatic Faucet in a high humidity area such as shower room or sauna.</p> <p>This may cause damage.</p>
 Do not strike	<p>Do not strike or kick the Automatic Faucet.</p> <p>This may cause damage or water leakage.</p>
 Do not disassemble	<p>Never attempt to disassemble, reassemble, repair or modify the Automatic Faucet, unless you are an electrician, or qualified service person.</p> <p>This may cause property damage or personal injury.</p>

2 Specification

Item		EcoPower® type	Battery type
Model number	Standard	TEL3GSC	TEL3DSC
	Gooseneck	TEL3GGC	TEL3DGC
	Helix™	TEL3GCCN	—
	Fordham™	TEL3GTCN	—
	Axiom™	TEL3GKCN	—
Duration of water discharge		10 seconds (TEL3 □□□ N -10) 60 seconds (TEL3 □□□ N -60)	
Power supply		—	Alkaline type AA batteries 1.5V 2pcs.
Battery life		—	2 yrs. Life based on 4,000 cycles per month
Detection range from the sensor		5-1/8"~7-7/8" (130~200 mm) sensor is self-adjusting	
Water supply pressure		minimum required water pressure: 7 PSI (48 kPa) (Flowing)	
		maximum water pressure:125 PSI (862 kPa) check local building codes for maximum water pressure allowed	
Water supply connection		1/2" NPSM	
Ambient temperature		32~104°F(0~40°C)	
Humidity		Max. 90% RH	
Flow rate		1.06 gallon per minutes (4 L/min.)	
Discharge quantity		Max. 0.25 gallon per cycle (0.95 L/cycle) for 10 seconds type	

3

Before Installing

1. Check the pressure of cold and hot water supply

- When the water supply pressure is higher than 125PSI (862kPa), be sure to reduce the pressure within a range of 20 to 80 PSI by using a pressure reducing valve available in the market.
- Optimum working pressure range is from 7PSI to 125PSI (48kPa to 862kPa). Make sure the water pressure is within this range.

2. Piping

- Flush all water lines prior to installation.

3. Others

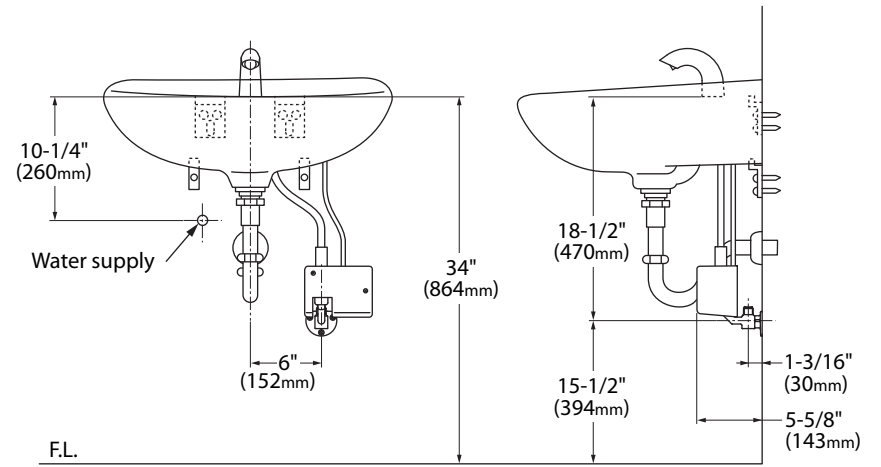
- Pay special attention so that the sensor surface is not flawed or scratched.
- Prepare stop valve and flexible hose or copper tube.
- Do not place other devices using inverter or infrared sensor near the Automatic Faucet, this may cause malfunction.
- There is no problem with the Automatic Faucet if water remains inside.

4

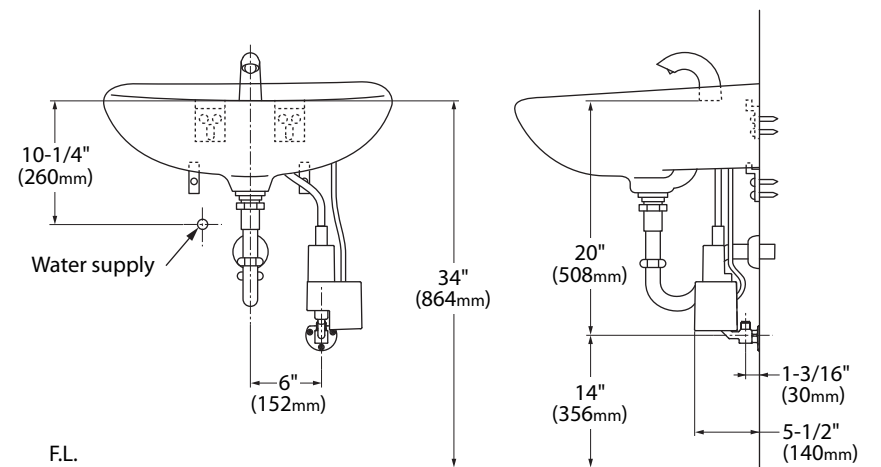
Set-up Drawing

Some models may have different components as illustrated below.

Battery type

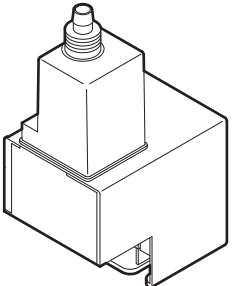
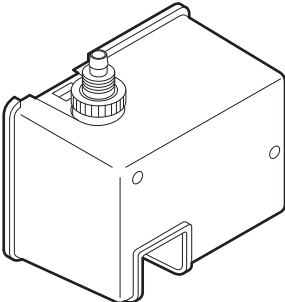
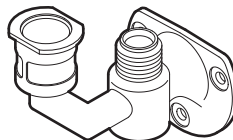


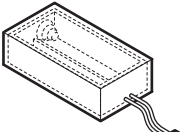
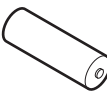



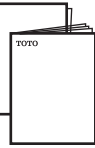


EcoPower® type

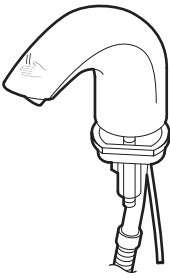
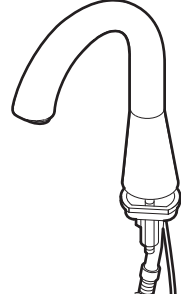
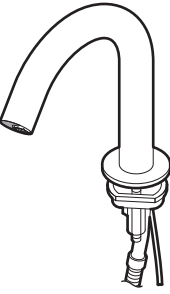
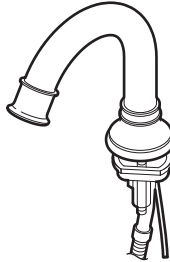
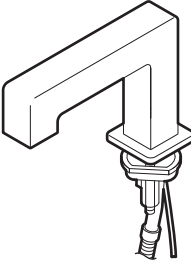
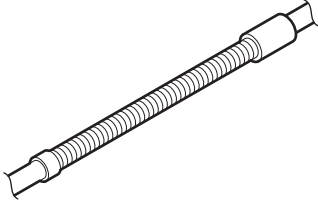
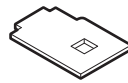


5 Installation

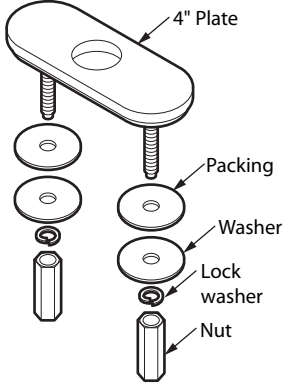
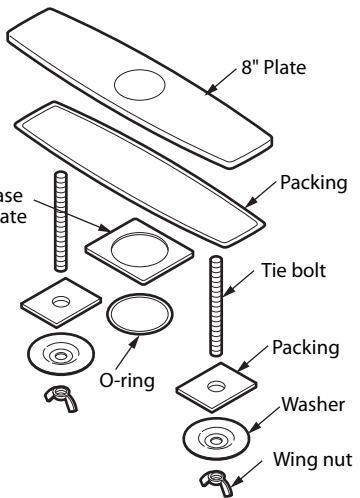
*Some models may have different component as illustrated below.

Control box		Water inlet bracket	
<p>EcoPower® type</p> 	<p>Battery type</p> 	 <p>Water inlet bracket</p>  <p>Quick fastener</p>  <p>Self tapping screw (× 3) (φ 4.5 mm × 38)</p>	
Others			
<p>Battery type</p>  <p>Battery case</p>  <p>Alkaline AA Battery (× 2)</p>	<p>EcoPower® type</p>  <p>Screw (φ 3 mm × 10)</p>	 <p>Allen wrench Size: 1/16" (2mm)</p>	 <p>Installation manual</p>  <p>Instruction manual</p>

*Spout, Flexible tube and Open-close tool are included.

Spout					Flexible tube	Others
<p>Standard</p> 	<p>Gooseneck</p> 	<p>Helix™</p> 	<p>Fordham™</p> 	<p>Axiom™</p> 	 <p>※Flexible tube is installed through spout connecting hose.</p>	 <p>Open-close tool</p>

● Optional Accessories (Not included)

Plate	
4" Plate (TN71V100R)	8" Plate (71244T8CC)
 <p>4" Plate</p> <p>Packing</p> <p>Washer</p> <p>Lock washer</p> <p>Nut</p>	 <p>8" Plate</p> <p>Packing</p> <p>Base plate</p> <p>Tie bolt</p> <p>Packing</p> <p>O-ring</p> <p>Washer</p> <p>Wing nut</p>

● Required Tools

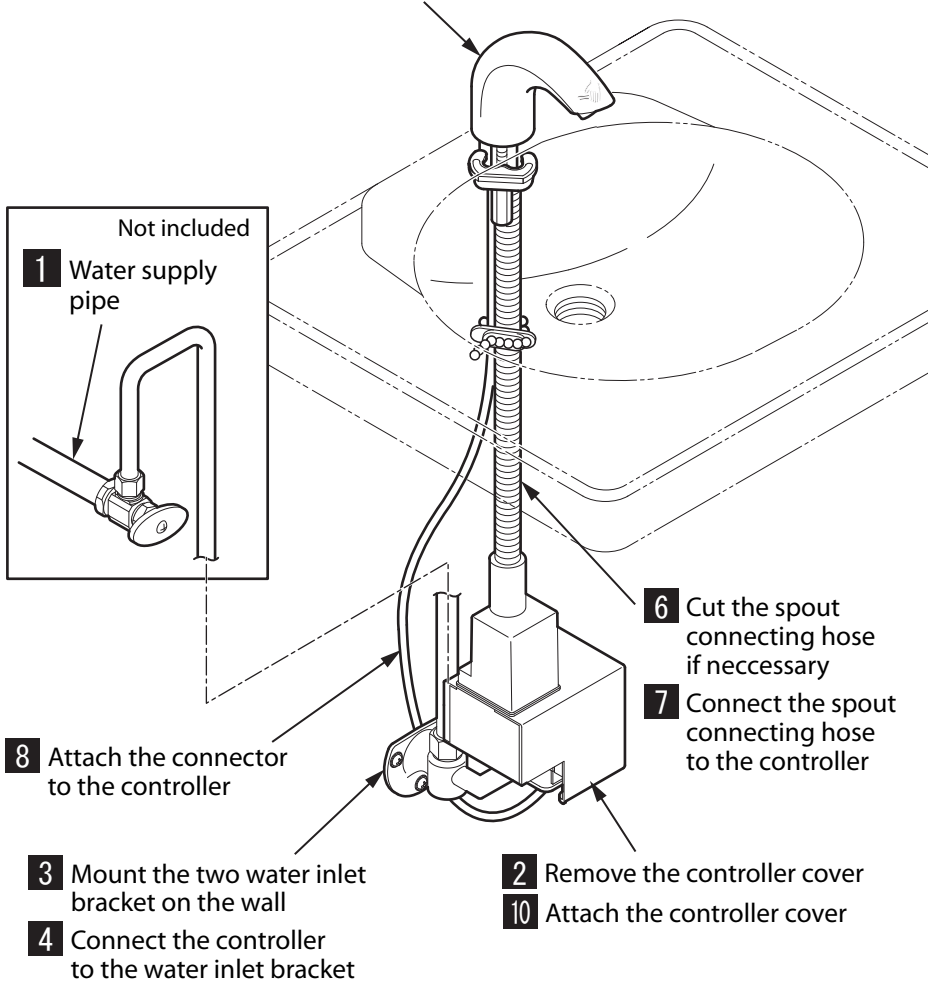
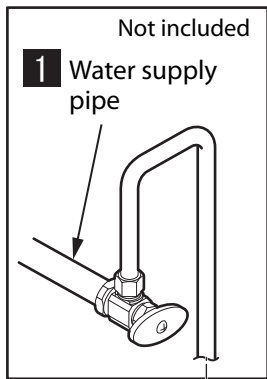
Adjustable wrench, phillips and flat head screwdrivers

6 Installation Procedure

STEP 1

STEP 3-A

- 5 Mount the spout
- 9 Fasten the spout with tool



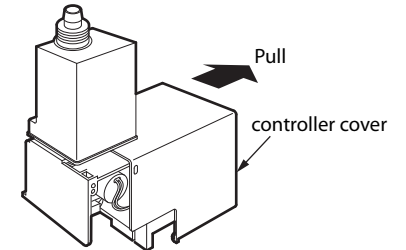
STEP 1 Water supply pipe

Before installing the faucet, be sure to thoroughly flush away any foreign matter such as dirt and sand trapped in the water supply pipe.

STEP 2 Remove the controller cover

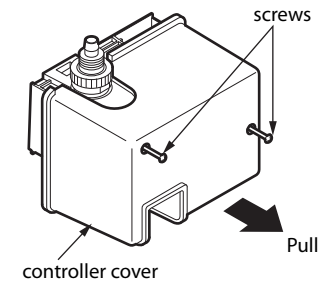
<For EcoPower® type>

Pull and open the controller cover to the direction as shown right.



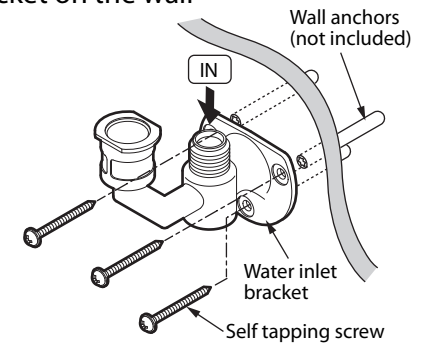
<For Battery type>

- 1 Loosen the two screws on the front cover.
- 2 Remove the controller cover to the direction as shown in the figure.



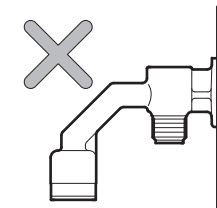
STEP 3-A Mount the water inlet bracket on the wall

- 1 Mount the water inlet bracket on the wall and temporarily tighten the screws.
- 2 Make sure that the controller can be attached to the water inlet bracket.
- 3 Tighten the water inlet bracket with the three self tapping screws.
Note: Anchors for wall may be needed.



Caution

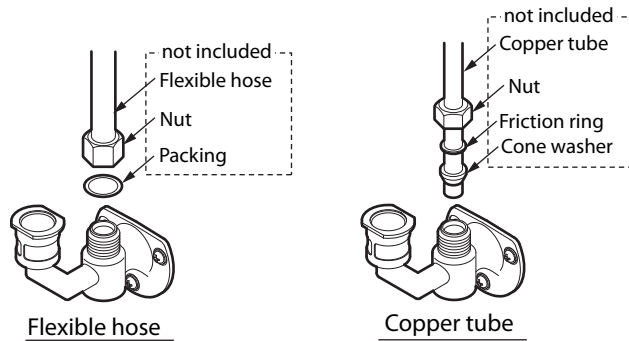
Be sure to mount the water inlet bracket in the correct direction. Otherwise, the strainer on the water inlet bracket will be inaccessible for cleaning.



To be continued on the back →

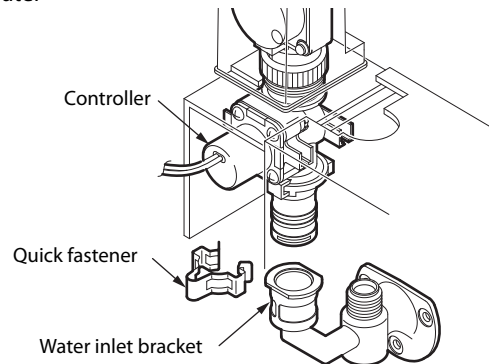
STEP 3-B Mount the water inlet bracket on the wall

- ④ Connect the water supply lines to the water inlet bracket.

**STEP 4** Connect the controller to the water inlet bracket

- ① Connect the controller to the water inlet bracket.

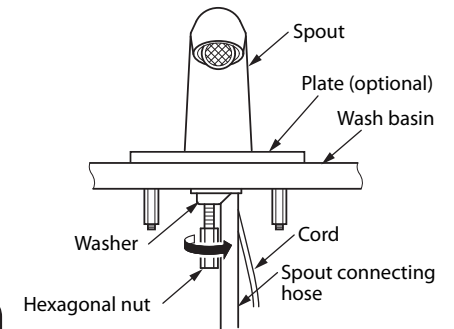
- ② Attach it with a quick fastener.

**STEP 5** Mount the spout

- ① Remove the flexible tube from the spout connecting hose.
- ② Mount the cover plate (optional).
- ③ Place the spout into the wash basin hole.
- ④ Hand-tighten the washer with the hexagonal nut.

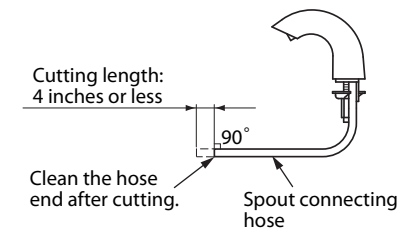
Caution

Pay special attention to avoid entangling the spout connecting hose and cord with each other.

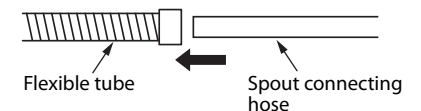
**STEP 6** Cut the spout connecting hose if necessary

- ① Cut the spout connecting hose to the appropriate length.

※ If the spout connecting hose is too long, cut it to proper length. Do not cut the hose more than 4 inches. Be sure to cut the hose carefully with a cutter, so the surface is square.



- ② Insert the spout connecting hose into the flexible tube.

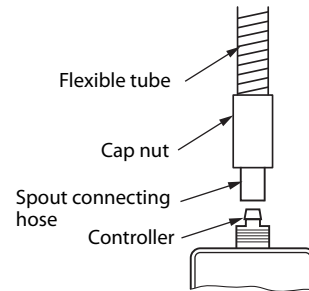


STEP 7 Connect the spout connecting hose to the controller

① Insert the spout connecting hose into the controller.

② Tighten the cap nut by hand.

※ Make sure the hose is securely connected, and is not kinked or bent.

**STEP 8-A** Attach the connector to the controller

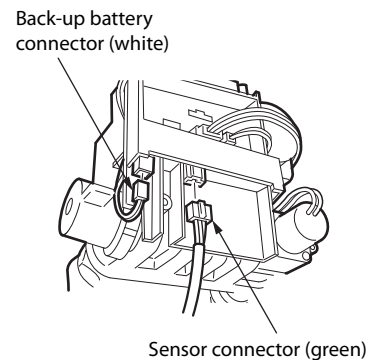
<For EcoPower® type>

① Attach the back-up battery connector (white) to the controller.

② Allow the circuit board to stabilize for 2 minutes, then attach the sensor connector (green).

Caution

EcoPower® type needs about two minutes for its controller to be ready for operation after attaching the back-up connector to the controller.

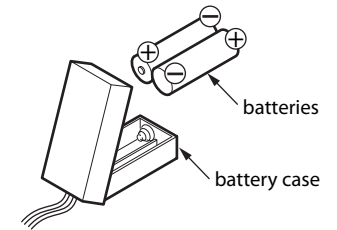
**STEP 8-B** Attach the connector to the controller

<For Battery type>

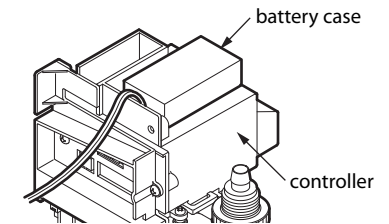
① Install the two batteries into the battery case exactly as shown in the figure.

Caution

There is a risk of explosion if the battery is replaced by an incorrect type.
Dispose of used battery according to the instructions.

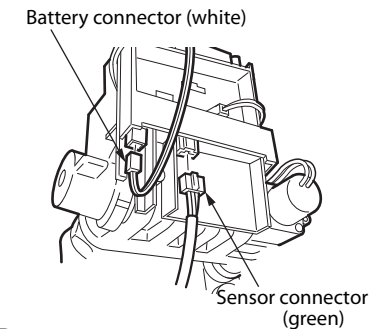


② Install the battery case into the controller.



③ Attach the battery connector (white) to the controller.

④ Attach the sensor connector (green) to the controller.

**Caution**

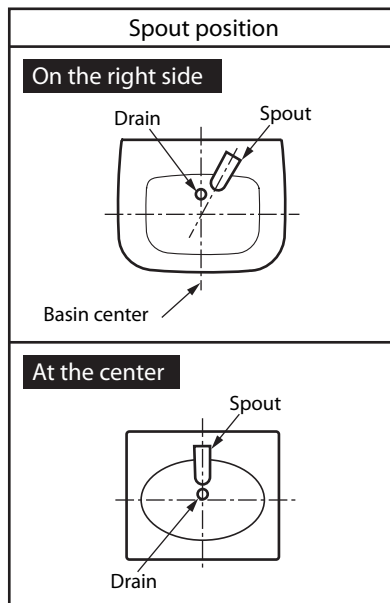
- Make sure there are no obstructions between the sensor and the basin. The controller starts setting right after the sensor connector is attached.
(This sensor setting operation is completed in approx 20 seconds.)
- Make sure that no electric cord comes in contact with the hot water supply pipe.

STEP 9 Fasten the spout

① Affix the spout by tightening the hexagonal nut.

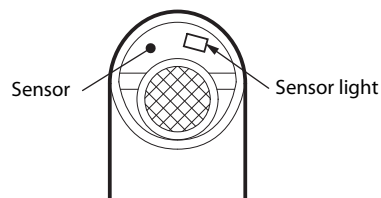
Caution

Be sure to mount the faucet body with its spout tip directed toward the basin center.



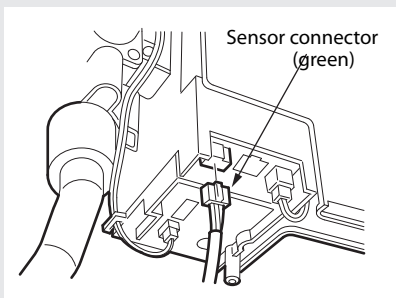
② Confirm there are no obstructions within the detection range.

※ If light continues to flash, the spout direction will need to be readjusted for proper operation.



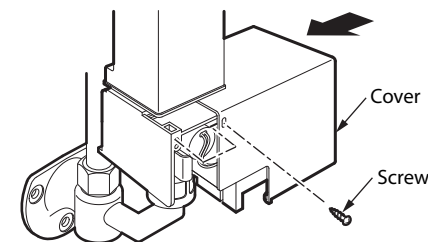
Caution

The light will only blink for 10 minutes. If all adjustment are not made during this 10 minutes, unplug sensor connector for 10 seconds to reset the unit.

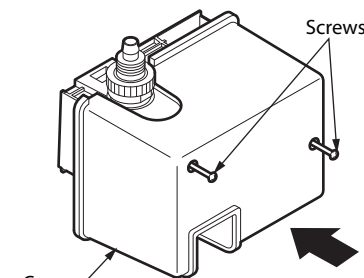


STEP 10 Attach the controller cover

After checking the connectors are securely attached, cover the controller.



<For EcoPower® type>



<For Battery type>

7

Function Test

1. Checking after installation

After your Automatic Faucet is installed, check it according to the following procedures.

① Check for water leakage

Open the stop valve and check for water leakage.

② Operation

<Check the sensor operation>

- When hands are placed under the faucet, water starts flowing.
- When hands are removed, water stops in one or two seconds.
- For safety and conservation reasons, after detecting objects continuously for about 10 seconds or 60 seconds, water automatically stops.

If the Automatic Faucet does not operate properly, contact TOTO® or your plumbing contractor.

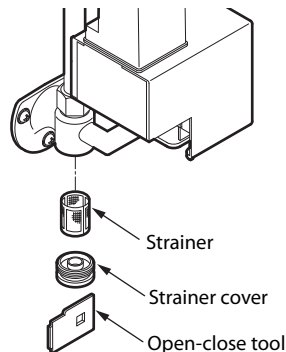
2. Cleaning of the strainer

※Close stop valve by hand.

Use the open-close tool to remove the strainer cover.

After installation, be sure to clean the strainer periodically.

When the strainer is clogged, the flow rate will decrease and the Automatic Faucet may not operate properly.

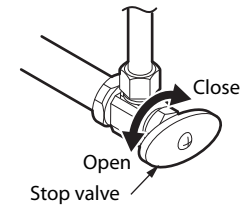


3. Adjustment of flow rate

The flow controller regulates flow rate to 1.06 gpm (4 L/min.), there is no need to adjust the flow rate.

Use the Automatic Faucet with the stop valve fully opened.

However, if you need to regulate the flow rate because the wash basin is small or that the water supply pressure is too strong, adjust the flow rate by turning the stop valve clockwise.



Caution

The EcoPower® type must be used with the stop valve fully opened.

Insufficient flow rate may cause power shortage, resulting in consumption of the built-in back-up battery.

※If you need to regulate the flow rate, make sure that the flow rate is more than 0.8gpm (3L / min).

※The water appears white with flow rate of more than 0.8gpm(3L/min.).

