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 place the Automatic Faucet in a high humidity area such as shower room or sauna.
This may cause damage.

Do not use in humid area

Do not strike or kick the Automatic Faucet.
This may cause damage or water leakage.

Do not strike

Never attempt to disassemble, reassemble, repair or modify the Automatic Faucet, unless you are an electrician, or qualified service person.
This may cause property damage or personal injury.

Do not disassemble

Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>EcoPower® type</th>
<th>Battery type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number</td>
<td>Standard</td>
<td>TEL5GSC</td>
</tr>
<tr>
<td></td>
<td>Gooseneck</td>
<td>TEL5GGC</td>
</tr>
<tr>
<td></td>
<td>Helix™</td>
<td>TEL5GCCN</td>
</tr>
<tr>
<td></td>
<td>Fordham™</td>
<td>TEL5GTNC</td>
</tr>
<tr>
<td></td>
<td>Axiom™</td>
<td>TEL5GKCN</td>
</tr>
<tr>
<td>Duration of water discharge</td>
<td>10 seconds (TEL5 N-10)</td>
<td>2 yrs. Life based on 4,000 cycles per month</td>
</tr>
<tr>
<td></td>
<td>60 seconds (TEL5 N-60)</td>
<td>2 yrs. Life based on 4,000 cycles per month</td>
</tr>
<tr>
<td>Power supply</td>
<td>—</td>
<td>Alkaline type AA batteries 1.5V 2pcs.</td>
</tr>
<tr>
<td>Battery life</td>
<td>—</td>
<td>2 yrs. Life based on 4,000 cycles per month</td>
</tr>
<tr>
<td>Detection range from the sensor</td>
<td>5-1/8&quot;<del>7-7/8&quot; (130</del>200 mm)</td>
<td>sensor is self-adjusting</td>
</tr>
<tr>
<td>Water supply pressure</td>
<td>minimum required water pressure: 13 PSI (90 kPa) (Flowing)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>maximum water pressure: 125 PSI (862 kPa) (Flowing)</td>
<td></td>
</tr>
<tr>
<td>Water supply connection</td>
<td>1/2&quot; NPSM</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>32<del>104°F (0</del>40°C)</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>Max. 90% RH</td>
<td></td>
</tr>
<tr>
<td>Flow rate</td>
<td>1.06 gallon per minutes (4 L/min.)</td>
<td></td>
</tr>
<tr>
<td>Discharge quantity</td>
<td>Max. 0.25 gallon per cycle (0.95 L/cycle) for 10 seconds type</td>
<td></td>
</tr>
</tbody>
</table>
Before Installing

1. Check the pressure of cold and hot water supply
   - Make sure the cold water supply pressure is higher or equal to the hot water supply pressure. 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 (60kPa to 862kPa). Make sure the water pressure is within this range.

2. Check the temperature of hot-water supply
   - Never use steam as a hot-water supply.
   - Make sure the temperature range of hot-water supply is within 140 to 185°F (60 to 85°C). This is not mandatory for the lower limit but is recommended. The Automatic Faucet does not discharge hot water exceeding 122°F (50°C).

3. Piping
   - Flush all water lines prior to installation.

4. 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 the water remains inside.

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.

<table>
<thead>
<tr>
<th>Control box</th>
<th>Water inlet bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>EcoPower® type</td>
<td>Battery type</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self tapping screw (× 8) (φ 4.5 mm × 38)</td>
</tr>
</tbody>
</table>

Optional Accessories (Not included)

<table>
<thead>
<tr>
<th>Plate</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot; Plate (TN71V100R)</td>
</tr>
<tr>
<td>4&quot; Plate</td>
</tr>
<tr>
<td>Packing</td>
</tr>
<tr>
<td>Washer</td>
</tr>
<tr>
<td>Lock washer</td>
</tr>
<tr>
<td>Nut</td>
</tr>
</tbody>
</table>

Required Tools
Adjustable wrench, phillips and flat head screwdrivers

Others

<table>
<thead>
<tr>
<th>Battery type</th>
<th>EcoPower® type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery case</td>
<td>Alkaline AA Battery (× 2)</td>
</tr>
<tr>
<td>Screw (φ 3 mm × 10)</td>
<td>Allen wrench Size:1/16&quot;(2mm)</td>
</tr>
</tbody>
</table>

Spout

<table>
<thead>
<tr>
<th>Spout</th>
<th>Flexible tube</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Gooseneck</td>
<td>Helix™</td>
</tr>
<tr>
<td>Flexible tube is installed through spout connecting hose.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**STEP 1**

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**

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

**STEP 3-A**

3. **Mount the two water inlet brackets on the wall**
   - Mount the water inlet brackets on the wall and temporarily tighten the screws.
   - The distance between the water inlet brackets shall be 3-3/4" (95mm).
   - The controller and the two brackets should be temporarily connected first in order to affix.
   - Note: It is required to keep a distance of 3-3/4" between the two water inlet brackets. This distance is fixed because the controller attaches to these brackets.
   - Make sure that the controller can be attached to the water inlet brackets.
   - Tighten the water inlet brackets with the eight self tapping screws.
   - Note: Anchors for the wall may be needed.

**Caution**

Be sure to mount each 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 two water inlet brackets on the wall

Note: Remove all protective covers.

④ Connect the hot/cold water supply lines to the water inlet brackets.

Flexible hose
Copper tube

Note: Make sure hot goes on the left side.

STEP 4 Connect the controller to the water inlet brackets

Note: Remove all protective covers.

After placing packing, attach the controller to the water inlet brackets, and then affix them with the nuts as shown in the figure.

※ Packing is located on the water inlet bracket.

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.

STEP 10  Attach the controller cover

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

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.
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. Temperature adjustment
The water temperature has been factory set to 100°F (38°C, Max: 42°±3°C). Depending on the supply water pressure and other local conditions, the water temperature may not be kept as specified. In such a case, adjust the temperature by turning the temperature control handle.

Note: If water temperature goes opposite direction, make sure hot & cold connection is right side or not.

3. 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.

4. 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.).

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