NOTE TO INSTALLER: PLEASE GIVE THIS MANUAL TO THE CUSTOMER AFTER INSTALLATION.

AUTOMATIC FAUCET

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

Read these Important Safeguards thoroughly before using your Automatic Faucet, and follow the precautions carefully.

- After you read this Instruction Manual, keep it where it can be easily referred to again.
- Symbols are shown for safe and proper use of your Automatic Faucet and in order to alert you possible personal injury and damage to your property. The symbols and their meanings are as follows.

<table>
<thead>
<tr>
<th>Warning</th>
<th>Ignoring these symbols may cause personal injury or property damage.</th>
</tr>
</thead>
</table>

The items of observation are classified and described.

- Absolutely "Do not".
- Do not disassemble.
- Do not touch the area specified.

Do not install the product in high humidity area such as shower room or sauna.

This means mandatory.

Some models may have different component as illustrated below.

<table>
<thead>
<tr>
<th>Warning</th>
</tr>
</thead>
</table>

Never splash water on the controller.
The Automatic Faucet is an electrical appliance, this may cause product malfunction.

Do not strike or kick to the Automatic Faucet.
This may cause product malfunction or water leakage.

Do not use the Automatic Faucet at temperatures exceeding what local codes allow.
It may cause product malfunction.

Do not place an item with this symbol displayed in a room with high humidity such as shower room or sauna.
This may cause product malfunction.

Never attempt to disassemble, reassemble, repair or modify the Automatic Faucet, unless you are an electrician.
This may cause product malfunction and electric shock.

Controller

below local code

Do not use in humid areas

Do not disassemble
### Warning

<table>
<thead>
<tr>
<th>Don’t touch</th>
<th>Mandatory</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Do not touch the stop valve of the controller, the surface may be very hot.</strong>&lt;br&gt;This may cause personal injury.</td>
<td><strong>For EcoPower® model, disconnect the back-up battery connector, when the Automatic Faucet is not in use for a long period of time.</strong>&lt;br&gt;(Refer to P.8) <strong>Always close the stop valve(s) before cleaning the strainer.</strong>&lt;br&gt;Hot or cold water may flow out and cause personal injury or property damage. <strong>Periodically check the piping for leakage.</strong>&lt;br&gt;Ignoring this may cause property damage. <strong>When the room temperature falls under freezing condition, give proper care to the piping to prevent product malfunction.</strong>&lt;br&gt;If the piping is frozen, the components may suffer damage and leakage. Wrap the piping with heat insulation.</td>
</tr>
</tbody>
</table>

### Precautions

(Observe the following precautions.)

1. **Make sure the power cord does not come in contact with the hot-water supply pipe.**<br>(In case of thermostatically controlled mixing valve.)**High temperature may damage the product.**

2. **Avoid placing any objects within the detection range of the infrared sensor.**<br>May result in faulty operation.

3. **Occasionally turn the temperature control handle of the thermostatically controlled mixing valve to prevent buildup or sticking.**<br>Debris may form inside of the valve, resulting in impaired performance. Routine maintenance must be performed.
Model Number and Components

< Model Number >

<table>
<thead>
<tr>
<th></th>
<th>Single Supply Faucet</th>
<th>Thermal Mixing Valve Faucet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EcoPower® type</td>
<td>EcoPower® type</td>
</tr>
<tr>
<td>EcoPower® type</td>
<td>Battery type</td>
<td>EcoPower® type</td>
</tr>
<tr>
<td>Standard</td>
<td>TEL3GSC</td>
<td>TEL5GSC</td>
</tr>
<tr>
<td>Gooseneck</td>
<td>TEL3GGC</td>
<td>TEL5GGC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TEL □□□ -10</th>
<th>Duration of water discharge : 10 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEL □□□ -60</td>
<td>Duration of water discharge : 60 seconds</td>
</tr>
</tbody>
</table>

### Spout

**Standard**
- Sensor part
- Spout
- Sensor (P4 x 6)
- Spout outlet
- Hexagonal nut
- Spout connecting hose

**Gooseneck**
- Sensor part
- Spout
- Sensor (P4 x 6)
- Spout outlet
- Hexagonal nut
- Spout connecting hose

### Controller

**Single Supply Faucet**
- Spout connecting hose with flexible tube
- Sensor cord
- Water inlet bracket with strainer

**Thermal Mixing Valve Faucet**
- Spout connecting hose with flexible tube
- Sensor cord
- Temperature control handle
- Water inlet bracket with strainer

### Battery

**Single Supply Faucet**
- Batteries (P7)
- Controller cover
- Water inlet bracket with strainer

**Thermal Mixing Valve Faucet**
- Batteries (P7)
- Temperature control handle
- Water inlet bracket with strainer
Before Use

Confirmation of connectors

Make sure all connections are made.
- Sensor connector (green)
- Back-up battery connector (for EcoPower® type : white)
- Battery connector (for battery type : white)

Normal operation

1. Place your hands under the faucet.
   The sensor will automatically turn on the water.

2. Remove your hands.
   The sensor will automatically turn off the water.
How to Use

Maintenance

Troubleshooting

Mechanism for Hydropowered generator

The flow of water causes the turbine in the power generator to rotate, which generates electric power, and enables the Automatic Faucet to operate.

Spout Power generator

1. A turbine rotates to generate power.

2. Electric power is stored.

3. The Automatic Faucet is using the charged power.

Using the faucet 11 times a day for 5 seconds or more will fully recharge the faucet.

How to adjust the temperature

Turn the temperature control handle.

The water temperature has been factory set to 100°F (38°C). Depending on the conditions of both the cold and hot water supply, adjust the temperature by turning the temperature control handle as necessary.

※Thermostatically controlled mixing valve

Adjustment of the flow rate

With the built-in regulator valve - 1.06gpm (4L/min.), there is no need to adjust the flow rate. Use the Automatic Faucet with the stop valve fully opened.

If you need to regulate the flow rate, adjust it by turning the stop valve. However, the EcoPower® model must be used with the stop valve fully opened. If you need to regulate the flow rate, make sure the flow rate is more than 0.8gpm (3L/min.).
**Maintenance**

Follow these instructions for daily maintenance.

**Use soft cloth for maintenance**

- **For general cleaning**
  Use a damp, soft cloth to clean the spout and the sensor.

- **For cleaning dirt**
  Use a soft cloth with diluted dish washing detergent. Wipe the area using a wet cloth and dry using a soft cloth.

**Caution**

- Do not scratch the sensor when cleaning.

- Avoid using anything that may scratch the spout surface. Never use polishing powder, detergent that includes coarse particles, thinner, benzine, acid or alkaline detergent, or a nylon scrub brush. They will damage the surface of the spout.

**Low Battery Indicator (Battery operated models)**

1ST Indication

Flow time reduced to 2 seconds. (Normally 10 or 60 seconds)

2ND Indication

Water flow will stop and sensor light will blink every 4 seconds.

Battery Specifications

- Use only AA alkaline batteries (2pcs).
- 2 years battery life expectancy, based on 4,000 cycles per month.
- Replace batteries every 2 years as preventative maintenance.
Battery Replacement Procedure (Battery operated models)

1. Remove the controller cover. (See page 4)
2. Detach the battery connector (white).
3. Remove the rubber cover from the battery case and replace the AA alkaline batteries.
4. Reassemble.

Caution
- Replace only with 2 AA alkaline batteries.
- Follow the "battery warning note" on the batteries.
- Please remove batteries from the faucet when not in use for a long period of time.

Periodical Checking

Please check your Automatic Faucet at least once a month according to the following instructions.

Leakage
Check the piping to see whether there is any leakage.
Ignoring this may cause property damage.

Water temperature
For thermostatically controlled mix valve, turn the temperature control handle four or five times.
Build up may form inside, resulting in impaired performance if maintenance is not performed.
**Loose spout**

Check if the spout is loose.

If the spout is loose, tighten the hexagonal nut underneath the spout.

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**Flow rate**

When the strainer or spout nozzle is clogged, the flow rate will decrease.

Make sure to clean the strainer and the spout nozzle.

Pay special attention to the Eco power model, since low flow rate may result in low power generation. (see page 5)

- **Cleaning the strainer**
  1. Close the stop valve.
  2. Remove the strainer cover with the open-close tool.
  3. Pull out the strainer and clean it with a brush.
  4. Put the strainer back in its place.
  5. Reopen the stop valve fully.

- **Cleaning of the spout nozzle**
  1. Remove the spout nozzle with the supplied open-close tool.
  2. Clean the spout nozzle with a brush to remove dirt from the screen.
  3. Set the spout nozzle back in place.
# Troubleshooting

Before contacting a repairman, check the following common problems and solutions. If the problem persists contact your dealer.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
<th>Ref. page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water doesn't run.</td>
<td>The surface of the sensor is dirty.</td>
<td>Clean the surface of the sensor.</td>
<td>P6</td>
</tr>
<tr>
<td></td>
<td>There is an obstruction in front of the sensor.</td>
<td>Remove the obstruction.</td>
<td>P2</td>
</tr>
<tr>
<td></td>
<td>The stop valve is turned off.</td>
<td>Turn on the valve.</td>
<td>P5</td>
</tr>
<tr>
<td>EcoPower® model: Backup battery connector is disconnected.</td>
<td>Connect the backup battery connector.</td>
<td></td>
<td>P4</td>
</tr>
<tr>
<td></td>
<td>The power generator and sensor connection are not attached.</td>
<td>Securely attach the connector(s).</td>
<td>P4</td>
</tr>
<tr>
<td></td>
<td>Water supply is suspended.</td>
<td>Wait until water supply is restored.</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>The strainer or the spout nozzle is clogged.</td>
<td>Clean the strainer and the spout nozzle.</td>
<td>P8</td>
</tr>
<tr>
<td></td>
<td>The batteries are dead.</td>
<td>Replace the batteries.</td>
<td>P7</td>
</tr>
<tr>
<td>Battery-operated model: No batteries installed.</td>
<td>Install batteries in the controller.</td>
<td></td>
<td>P7</td>
</tr>
<tr>
<td>Water doesn't stop.</td>
<td>The surface of the sensor is dirty.</td>
<td>Clean the surface of the sensor.</td>
<td>P6</td>
</tr>
<tr>
<td></td>
<td>There is an obstruction in front of the sensor.</td>
<td>Remove the obstruction.</td>
<td>P2</td>
</tr>
<tr>
<td></td>
<td>If water continues to run after attempting above, turn off the stop valve.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low flow rate.</td>
<td>Stop valve is not fully opened.</td>
<td>Open the stop valve fully.</td>
<td>P5</td>
</tr>
<tr>
<td></td>
<td>The strainer or the spout nozzle is clogged.</td>
<td>Clean the strainer and the spout nozzle.</td>
<td>P8</td>
</tr>
<tr>
<td>Water temperature is too high.</td>
<td>The temperature control handle is set at “H”.</td>
<td>Set the temperature control handle to the middle point.</td>
<td>P5</td>
</tr>
<tr>
<td></td>
<td>The stop valve connected to the cold-water supply is not fully opened.</td>
<td>Open the cold-water stop valve fully.</td>
<td>P5</td>
</tr>
<tr>
<td>Water temperature is too low.</td>
<td>The temperature control handle is set at “C”.</td>
<td>Set the temperature control handle to the middle point.</td>
<td>P5</td>
</tr>
<tr>
<td></td>
<td>The stop valve connected to the hot-water supply is not fully opened.</td>
<td>Open the hot-water stop valve fully.</td>
<td>P5</td>
</tr>
<tr>
<td></td>
<td>The hot-water supply temperature is lower than 120°F (49°C).</td>
<td>Set the hot-water supply temperature to 120°F (49°C).</td>
<td>—</td>
</tr>
<tr>
<td>Water temperature is not controlled properly.</td>
<td>One side of the stop valve is not fully opened.</td>
<td>Open the stop valve fully.</td>
<td>P5</td>
</tr>
<tr>
<td></td>
<td>The strainer or the spout nozzle is clogged.</td>
<td>Clean the strainer and the spout nozzle.</td>
<td>P8</td>
</tr>
<tr>
<td>Water flow from the faucet stops about 2 seconds later.</td>
<td>The batteries are dead.</td>
<td>Replace the batteries.</td>
<td>P7</td>
</tr>
<tr>
<td>Short detection range.</td>
<td>The self-adjusting sensor may not work properly when stained or blocked by water droplets.</td>
<td>Clean the sensor surface.</td>
<td>P6</td>
</tr>
</tbody>
</table>
This automatic faucet is equipped with a self-adjusting sensor which automatically adjust its detection range once every 15 seconds. This sensor may exhibit the following phenomena.
Note these are implemented for safety and conservation purposes, they are not malfunctions.

<table>
<thead>
<tr>
<th>Phenomenon</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>After sometime water stops flowing even if your hands are still under the faucet.</td>
<td>The sensor activates by detecting hand movements. If your hands are not moving, it will be regarded as an ordinary object. Even if your hands are moving, the faucet will only keep running for 10 seconds or 60 seconds for safety purposes.</td>
</tr>
<tr>
<td>After removing hands, water keeps running for 15 seconds.</td>
<td>If the sensor is stained or blocked by water droplets, the water may keep running even after you removed your hands. In such a case, the self-adjusting sensor will stop the water after 15 seconds. Always wipe off all water droplets and stains from the sensor.</td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th></th>
<th><strong>EcoPower®</strong></th>
<th><strong>Battery</strong></th>
</tr>
</thead>
<tbody>
<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”～7-7/8” (130～200 mm) sensor is self-adjusting</td>
<td></td>
</tr>
<tr>
<td>Water supply pressure</td>
<td>minimum required water pressure : 7 PSI (50 kPa) (Flowing) for Single faucet : 13 PSI (90 kPa) (Flowing) for Thermal mixing faucet maximum water pressure : 125 PSI (862 kPa)</td>
<td></td>
</tr>
<tr>
<td>Water supply connection</td>
<td>1/2” NPSM</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>32～104°F(0～40°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.) controlled by governor</td>
<td></td>
</tr>
<tr>
<td>Duration time of water discharge</td>
<td>10 seconds</td>
<td></td>
</tr>
<tr>
<td></td>
<td>60 seconds</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>
1. TOTO® warrants its products to be free from manufacturing defects under normal use and service for a period of three (3) years from the date of purchase. This warranty is extended only to the ORIGINAL PURCHASER and applies only to product purchased and installed in North America.

2. TOTO®’s obligations under this warranty are limited to repair or replacement, at TOTO®’s option, of products or parts found to be defective, provided that such products were properly installed and used in accordance with OWNER’S MANUAL. TOTO® reserves the right to make such inspections as may be necessary in order to determine the cause of the defect. TOTO® will not charge for labor or parts in connection with warranty repairs or replacements. TOTO® is not responsible for the cost of removal, return and/or reinstallation of products.

3. This warranty does not apply to the following items:
   a) Damage or loss sustained in a natural calamity such as fire, earthquake, flood, thunder, electrical storm, etc.
   b) Damage or loss resulting from any unreasonable use, misuse, abuse, negligence, or improper maintenance of the product.
   c) Damage or loss resulting from removal, improper repair, or modification of the product.
   d) Damage or loss resulting from sediments or foreign matter contained in a water system.
   e) Damage or loss resulting from improper installation or from installation of a unit in a harsh and/or hazardous environment.
   f) Damage or loss resulting from acts of animals such as mice and insects.
   g) Damage or loss resulting from a use of abnormal power supply.
   h) Damage or loss resulting from abrasion of consumable supplies.
   i) Damage or loss resulting from frost.

4. This warranty gives you specific legal rights. You may have other rights which vary from State to State or province to province.

5. To obtain warranty repair service under this warranty, you must take the product or deliver it prepaid to a TOTO® service facility together with a letter stating the problem, or contact a TOTO® distributor or products service contractor, or write directly to TOTO® U.S.A., INC., 1155 Southern road, Morrow, Georgia 30260, (888) 295-8134. If, because of the size of the product or nature of the defect, the product cannot be returned to TOTO®, receipt by TOTO® of written notice of the defect shall constitute delivery. In such case, TOTO® may choose to repair the product at the purchaser’s location or pay to transport the product to a service facility.

THIS WRITTEN WARRANTY IS THE ONLY WARRANTY MADE BY TOTO®. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY SHALL BE THE EXCLUSIVE REMEDY AVAILABLE TO THE PURCHASER. TOTO® SHALL NOT BE RESPONSIBLE FOR LOSS OF USE OF THE PRODUCT OR FOR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OR EXPENSES INCURRED BY PURCHASER, OR FOR LABOR OR OTHER COSTS DUE TO INSTALLATION OR REMOVAL, OR COSTS OF REPAIRS BY OTHERS, OR FOR ANY OTHER EXPENSE NOT SPECIFICALLY STATED ABOVE. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTIES, INCLUDING THAT OF MERCHANTABILITY OR FITNESS FOR USE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS. OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU.