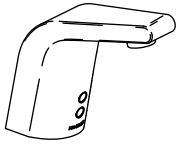


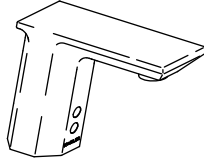
# Installation Guide

## Touchless Bathroom Sink Faucet

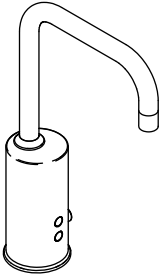
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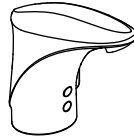
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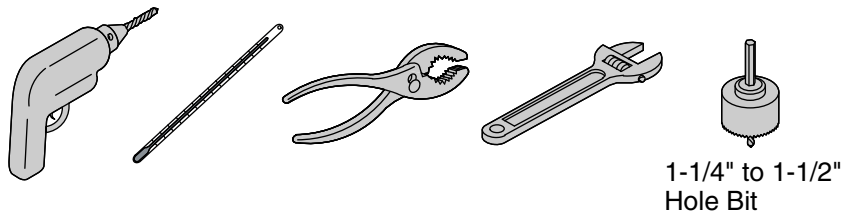


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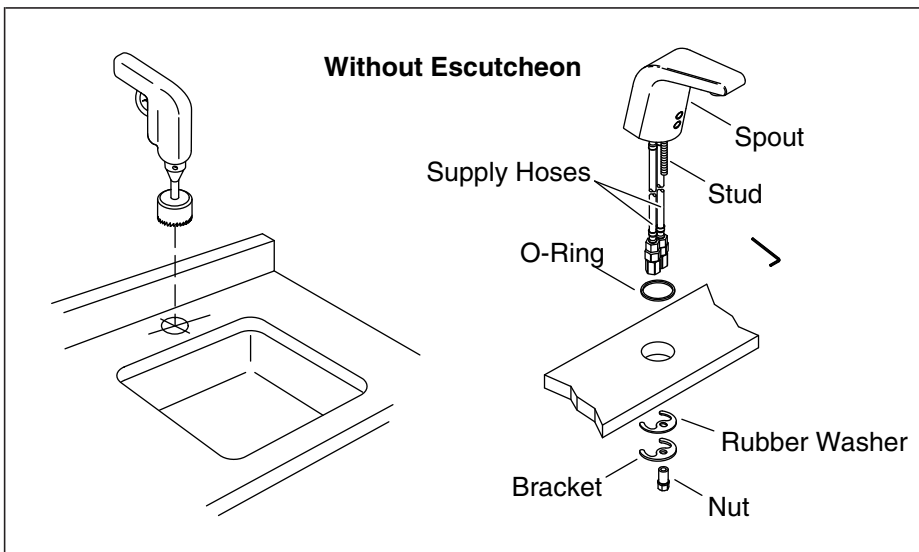
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## Tools and Materials



## Before You Begin

- Observe all local plumbing and building codes.
- Shut off the water supply.
- This faucet is for use on a single-hole bathroom sink.
- For new installations, install the faucet and drain to the sink before installing the sink.
- The faucet shown in this guide may differ from your actual product. The installation steps still apply.
- In order for this faucet to function properly, install the faucet so the sensor points directly toward the user.
- The faucet is rated at 6 V DC 1 W and is operated by a Hybrid Energy Cell (HEC) (provided).



## 1. Faucet Installation

### Prepare the Site - AC and Hybrid Models

**NOTE:** Before drilling the mounting hole, use the following provisions for proper placement:

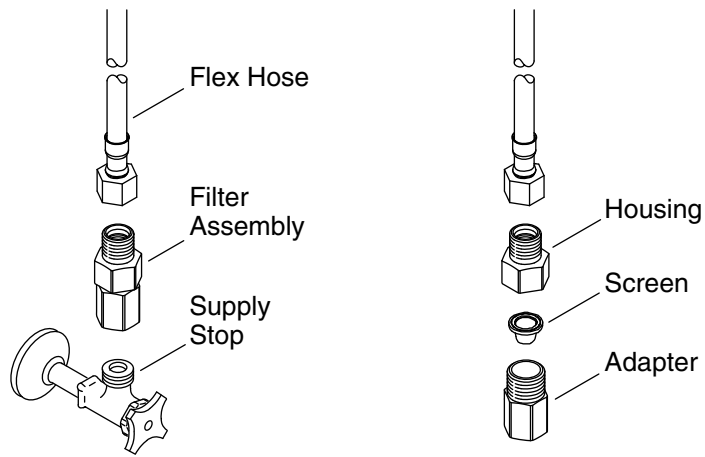
- A 1-1/4" (32 mm) minimum to 1-1/2" (38 mm) maximum diameter mounting hole is required.
- A minimum distance of 1-3/4" (44 mm) is required between the back of the spout and the wall to allow access to the screw.
- A 1-3/4" (44 mm) maximum distance is required between the sink bowl edge and the base of the spout.

### Install the Faucet

- Determine the mounting hole location.
- Drill a hole through the mounting surface according to the surface manufacturer's instructions.
- Install the stud to the underside of the faucet.
- Slide the O-ring over the flexible hoses and stud, then seat the O-ring in the groove on the underside of the spout.
- Insert the spout with flexible hoses and stud through the mounting hole.
- From under the sink, slide the rubber washer and bracket onto the stud.

### **Faucet Installation (cont.)**

- Thread the nut onto the stud to secure the faucet to the mounting surface.



## 2. Supply Connections

### Connect the Filter Assembly

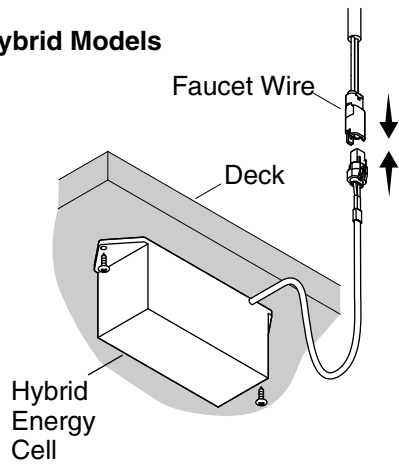
- Turn on the water and flush water through the supply stops into a bucket.
- Turn off the water.
- Remove the filter assemblies from the supply hoses. Then thread a filter assembly onto each supply stop.

### Connect the Supplies

- For models with **two hoses**, thread the left supply hose to the filter assembly on the hot supply stop and the right supply hose to the filter assembly on the cold supply stop.
- For models with **one hose**, thread the supply hose to the filter assembly on the supply stop.
- Tighten the connections with a small adjustable wrench.
- Turn on the water and flush the faucet by activating it.

**NOTE:** For optimum performance, clean your filter screens periodically. Refer to the Maintenance Guide.

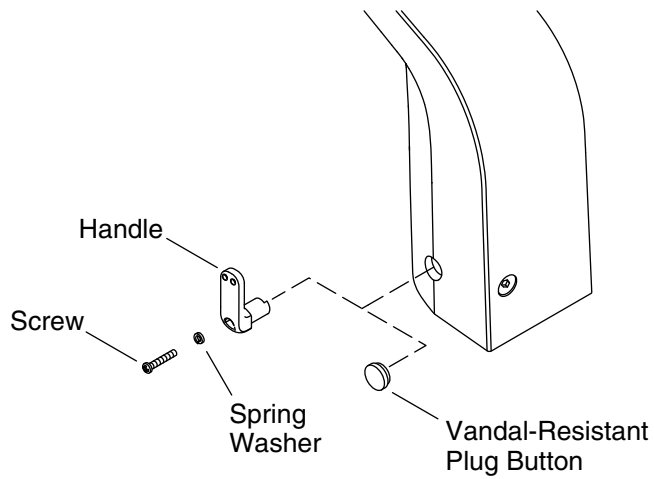
### Hybrid Models



### 3. Install the Power Supply

**NOTE:** Avoid the area in front of the sensor for 2 minutes after connections are complete. The sensor will not function correctly if it is triggered in the first 2 minutes. Disconnect and reconnect the power to reset the sensor.

- Mount the Hybrid Energy Cell (HEC) under the counter using two screws (not supplied).
- Connect the HEC to the faucet wire.
- Avoid the area in front of the sensor for 2 minutes.



#### 4. Optional Temperature Limiting Adjustment



**CAUTION: Risk of personal injury.** Scalding may result if the temperature limit is set above 120°F (49°C).

**NOTE:** The water temperature does not need to be adjusted if the water temperature is below 105°F (41°C).

**NOTE:** Use a thermometer rated for 120°F (49°C) or greater.

**NOTE:** When using a tempered water supply, install the vandal-resistant plug button.

##### Adjust the Water Temperature Limit – Handle Installations

- Turn on the water and adjust to full hot by turning the handle toward the back of the faucet until it stops.
- Determine the temperature using a thermometer. If the temperature exceeds 105°F (41°C), complete the following steps.

**NOTICE:** Do not rotate the handle when removing the screw.

- Using the 2.5 mm hex wrench provided, remove and retain the handle screw.
- Remove and retain the handle with the spring washer.

### Optional Temperature Limiting Adjustment (cont.)

- Insert the handle at the desired maximum temperature. **If the handle is inserted horizontally:** This is the maximum hot temperature, where the water will be the same temperature as the water from the hot water supply. **If the handle is inserted vertically (shown):** This is the maximum cold temperature, where the water will be the same temperature as the water from the cold water supply.

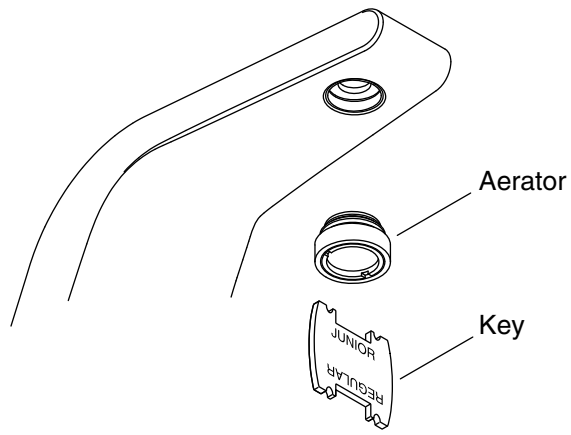
**NOTICE:** Do not rotate the handle when reinstalling the screw.

- Reinstall the spring washer into the handle, then attach the handle to the faucet.
- Secure the handle to the faucet with the screw.

### Adjust the Water Temperature Limit – Vandal-Resistant Installations

**NOTE:** If you install the vandal-resistant plug button, save the handle to adjust the water temperature at a later date.

- Using the handle, adjust the water to the desired temperature.
- Using the 2.5 mm hex wrench provided, remove and retain the screw, spring washer, and handle.
- Position the vandal-resistant plug button and firmly press into place.



## 5. Installation Checkout

- Using the key provided, remove the aerator from the spout.
- If applicable, uncover the drain.
- Turn on the water supply and check for leaks. Adjust as needed.
- Allow the water to run through the spout for about 1 minute to remove any debris. Check for leaks and adjust as needed.
- Temporarily cover the sensors on the faucet or close the water supplies.
- Using the key provided, reinstall the aerator to the spout.
- Uncover the sensors on the faucet or turn on the water supplies.

## Troubleshooting

Symptoms	Probable Causes	Recommended Action
1. No water flow.	<p><b>A.</b> Filter is plugged.</p> <p><b>B.</b> Sensor eyes are dirty.</p>	<p><b>A.</b> Clean or replace the filter.</p> <p><b>B.</b> Wipe the sensor eyes with a damp soft cloth. Wipe dry with a dry soft cloth.</p>

<b>Troubleshooting (cont.)</b>		
<b>Symptoms</b>	<b>Probable Causes</b>	<b>Recommended Action</b>
	<p><b>C.</b> Water not turned on.</p> <p><b>D.</b> Incorrect installation.</p> <p><b>E.</b> The aerator is plugged.</p> <p><b>F.</b> Sensor eyes are scratched.</p> <p><b>G.</b> A flex hose is kinked.</p> <p><b>H.</b> Hybrid Energy Cell (HEC) has just been replaced.</p> <p><b>I.</b> HEC life expired.</p> <p><b>J.</b> Bleed hole in diaphragm is plugged or debris exists on the seal.</p> <p><b>K.</b> Solenoid is not working.</p>	<p><b>C.</b> Verify that the water supply is turned on and that pressure is at least 20 psi (137 kPa).</p> <p><b>D.</b> Verify that the faucet is mounted as instructed in the installation guide. Ensure that the sensor eyes are above the rim of the sink. Refer to the installation instructions.</p> <p><b>E.</b> Remove and clean the aerator. For calcium/mineral deposits, soak the plastic insert in a 50:50 mix of water and vinegar. Soak only the plastic insert.</p> <p><b>F.</b> Replace the sensor assembly.</p> <p><b>G.</b> Check the flex hoses to make certain they are not kinked. If a flex hose is kinked, disconnect it, straighten, and reconnect.</p> <p><b>H.</b> Wait 2 minutes after replacing the HEC as the sensor cycles through the automatic sensing distance.</p> <p><b>I.</b> Replace the HEC.</p> <p><b>J.</b> Clean or replace the diaphragm.</p> <p><b>K.</b> Order a new solenoid service kit.</p>
2. Low flow.	<p><b>A.</b> Filter is plugged.</p> <p><b>B.</b> Supply pressure is low.</p>	<p><b>A.</b> Clean or replace the filter.</p> <p><b>B.</b> Check incoming water pressure. Pressure should be at least 20 psi (137 kPa).</p>

<b>Troubleshooting (cont.)</b>		
<b>Symptoms</b>	<b>Probable Causes</b>	<b>Recommended Action</b>
	<b>C.</b> Aerator is plugged.	<b>C.</b> Remove the aerator and clean it. For calcium/mineral deposits, soak the aerator plastic insert in a 50:50 mixture of vinegar and water. Soak only the insert and no other components.
<b>3.</b> Constant water flow.	<b>A.</b> Filter is plugged. <b>B.</b> Diaphragm seal is damaged or dirty. <b>C.</b> Solenoid is not working.	<b>A.</b> Clean or replace the filter. <b>B.</b> If the diaphragm is cut or torn, order a new diaphragm assembly. Clean or replace the diaphragm. <b>C.</b> Order and install a new solenoid assembly.
<b>4.</b> Sporadic water flow.	<b>A.</b> The faucet is angled incorrectly to deck or misaligned with user area. <b>B.</b> The wires are pinched or damaged.	<b>A.</b> Verify that the faucet is mounted according to the installation directions. Ensure that the faucet is installed in a position that is above the rim of the sink. <b>B.</b> Remove the spout and verify that the wires are tucked inside the spout before reassembling.
<b>5.</b> Sensor flashes once approximately every 2 seconds. The product continues to operate.	<b>A.</b> The HEC power is low.	<b>A.</b> Replace the HEC.
<b>6.</b> Sensor flashes once approximately every 2 seconds. The product does not operate.	<b>A.</b> The HEC power is insufficient to allow the product to operate.	<b>A.</b> Replace the HEC.