

HyTronic® User Guide Installation Instructions

For HyTronic faucets designed to be connected to the Chicago Faucets Gateway.

Overview

Installation instructions for HyTronic® designed to be connected to the Chicago Faucets Gateway –to network a building's faucets for comprehensive and efficient operation. This faucet comes with all the components needed for installation, however, some tools and supplies are not included.

- Basin Wrench
- Plumber's Putty
- Adjustable Locking Pliers
- Hex Key
- Adjustable Wrench
- Aerator Key (supplied) (supplied)

Notice to the Installer

- Make sure there is enough space and lighting available during installation and service
- Do not modify or convert this Chicago Faucets product yourself. All warranties will be voided.

Pressurized plumbing fixtures shall be installed in accordance with manufacturer's recommendations. The supply piping to these devices shall be securely anchored to the building structure to prevent installed device from unnecessary movement when operated by the user. Care shall be exercised when installing the device to prevent marring the exposed surface.

NOTE: The information in this manual is subject to change without notice.

Please leave this manual with the facility manager after completing the faucet installation. This document contains information necessary for routine maintenance and servicing.

NOTE: Before installation, turn off water supplies to existing faucet and remove faucet if replacing. Clean faucet basin and clear away debris. Flush all supply lines before connecting to faucet. Failure to do so can result in debris clogging the inlets and/or cartridges.

NOTE: Before installing a new ceramic cartridge flush lines completely.

Important

- Installation may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.
- Pressurized plumbing fixtures shall be installed in accordance with manufacturer's recommendations. The supply piping to these devices shall be securely anchored to the building structure to prevent installed device from unnecessary movement when operated by the user. Care shall be exercised when installing the device to prevent marring the exposed significant surface.
- Flush all the water supply lines before making connections.

NOTE: Do not use pipe dope on faucet and supply connections. Possible solenoid contamination could occur and will void any warranty.

Safety Information

Read this entire user guide to ensure proper installation. Compliance and conformity to local codes and ordinances is the responsibility of the installer. The following safety notes must always be complied with during handling of this product:

- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- Make sure there is enough space and lighting available during installation and service.
- Do not modify or convert this Chicago Faucets product yourself. All warranties will be voided.

Internal Antenna Specifications

- Peak Gain of the antenna: -4.54 dBi
- Frequency range: 2.45 GHz
- FCC ID: 2APTX-CFC04
- IC 31327-CFC04

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be installed and operated at a distance of 5 mm between the radiator and your body. This Device complies with part 15 of the FCC Rules and Innovation, Science and Economic Development Canada License-exempt RSS standard(s). Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device. This equipment complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 15mm between the radiator and body extremities.

Cet appareil est conforme aux normes RSS exemptes de licence d'Innovation, Science et Développement économique Canada. Son fonctionnement est soumis aux deux conditions suivantes: 1) cet appareil ne doit pas provoquer d'interférences, et 2) cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil. Cet équipement est conforme aux limites d'exposition aux rayonnements RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 15 mm entre le radiateur et votre corps.

Warranty

For complete warranty information, visit chicagofaucets.com/terms-conditions

Care and Maintenance

All Chicago Faucets fittings are designed and engineered to meet or exceed industry performance standards. Care should be taken when cleaning this product. Do not use abrasive cleaners, chemicals or solvents as they can result in surface damage. Use mild soap with warm water for cleaning and protecting the surface of Chicago Faucets fittings.

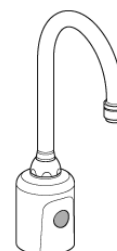
For additional technical assistance, call 800/TEC-TRUE (800-832-8783) or visit our website at chicagofaucets.com.



Traditional
Lavatory



Contemporary
Lavatory



Gooseneck

Mounting the Faucet

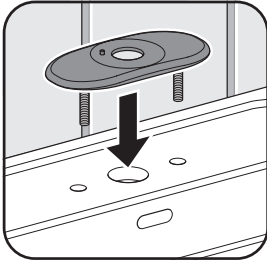
Prerequisites

- Supply valve is installed
- Water supply lines are flushed properly

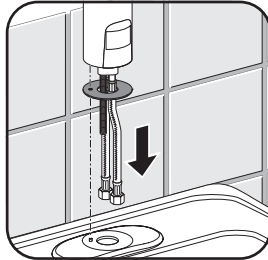
Important

- It is not necessary to unscrew the connection between braided hose and housing to install the product.
- Do not remove protective covering from sensor until starting up faucet operation.
- Do not tighten locknut before step 4 is completed.

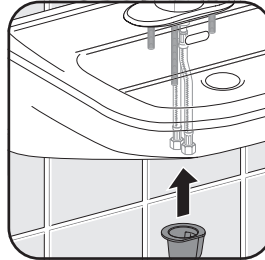
With Standard Supply Stops



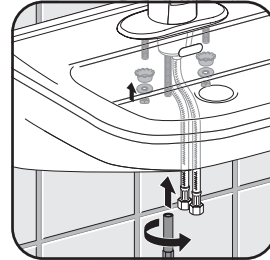
1. Mount cover plate if required. Plumber's putty is recommended to seal cover plate to the sink. Security pin must be located on the left side.



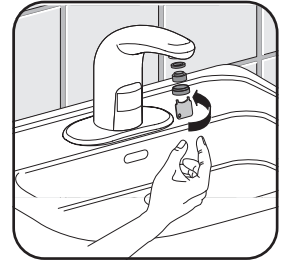
2. Mount gasket and put faucet into sink.



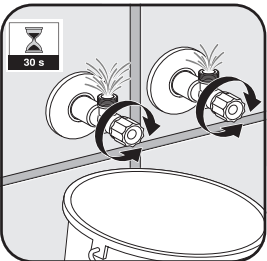
3. Mount bracket from underneath. Place hoses through large opening and mounting rod through small opening. Make sure flange sits securely against surface.



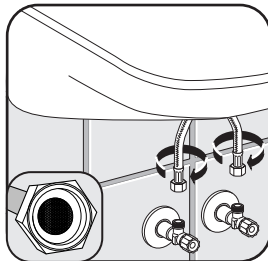
4. Place nut onto mounting rod and tighten with wrench.
5. If faucet was installed with cover plate, secure with basin washer, flat washer and locknut.



6. Install aerator and tighten with aerator key (supplied).
7. For Gooseneck faucets, tighten spout with wrench.



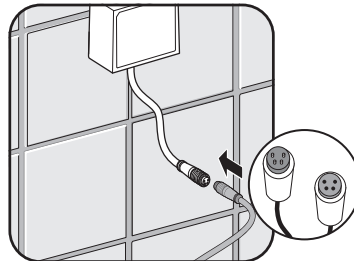
8. Flush the supply stops to remove any debris.



9. Ensure the screen filters are installed inside the faucet supply lines, then connect to the stops.

Cold water > white label
Hot water > no label

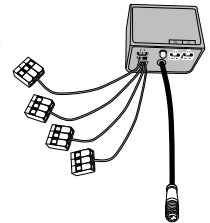
Note: Do not overtighten.
Overtightening may damage the hose.



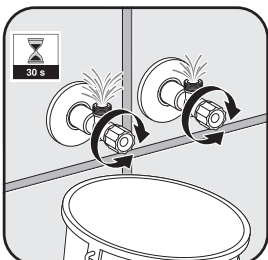
10. Connect faucet cable to converter connector.

The faucet is now mounted.

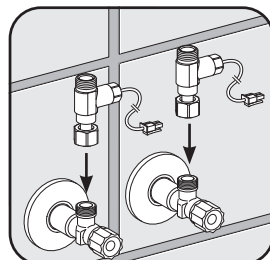
See instructions for connecting wires to the Gateway Converter on the back page.



With Temp Sensor Angle Stop Adapters

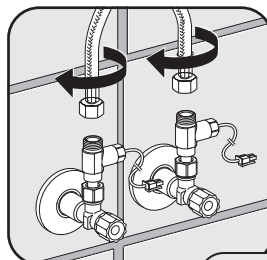


1. Flush the supply stops to remove any debris.



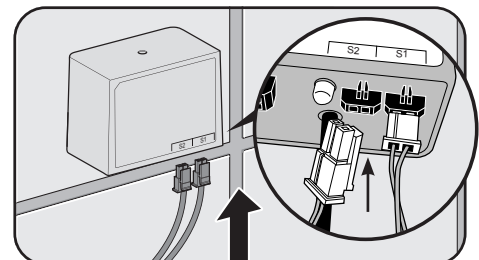
2. Secure the temp sensor adapters to angle stops.

Note: Do not overtighten.
Overtightening may damage the seal.



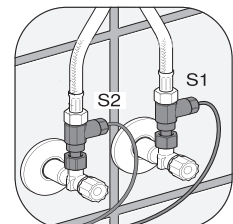
3. Ensure the screen filters are installed inside the faucet supply lines, then connect the supply lines to the sensors.

Note: Do not overtighten.
Overtightening may damage the hose.



4. Connect the temperature sensors to the converter box located under the sink.

Note:
It is recommended to connect the sensor for the **cold supply to the S1 location** and the sensor for the **hot supply to the S2 location**. For single supply use S1.

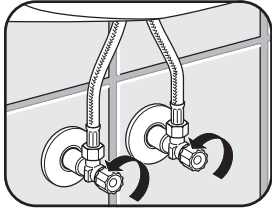


Start-up Operation

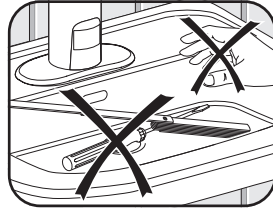
A traditional lavatory faucet is shown as an example. The start-up operation applies to all models.

Prerequisites

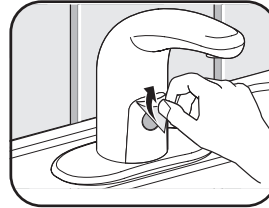
- Faucet is mounted
- Water supply lines are flushed properly
- Water supply is on
- For AC faucets and faucets with EBPS, power outlet is installed



1. Fully open supply valves



2. Remove all items from sink



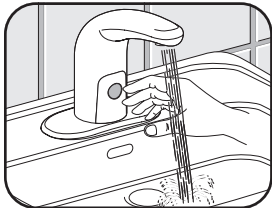
3. Remove protective covering from sensor



15 sec.
4. Wait for 15 seconds for faucet to calibrate to its environment
The faucet is now activated.

Test Function

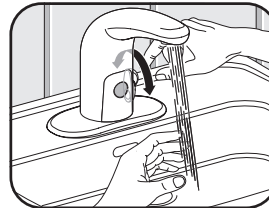
NOTE: If the faucet does not work as described below, see "Troubleshooting" section.



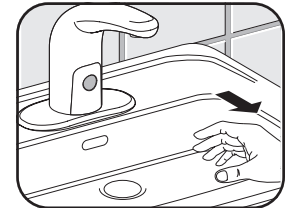
1. Hold hand in front of sensor until water begins to flow.



WARNING: Hot water may burn your skin. Avoid contact with the water stream until the water temperature has been properly adjusted. See page 5 for instructions on adjusting water temperature.



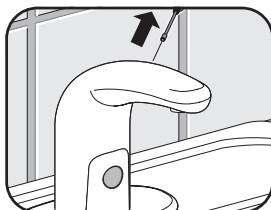
2. For faucets with external mixer, turn mixer handle from cold to warm. You should feel the water temperature increase.



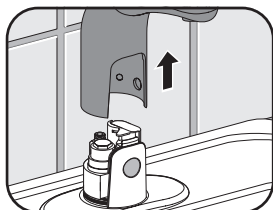
3. Move hand away from sensor until water flow stops.

Adjusting Water Temperature (Internal Mix)

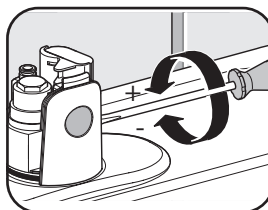
A traditional lavatory faucet is shown as an example. These instructions apply to all models with internal mixers.



1. Remove shut-off screw



2. Remove housing vertically



3. Adjust internal mixer with screwdriver
Clockwise > warm
Counterclockwise < cold



4. Mount housing vertically



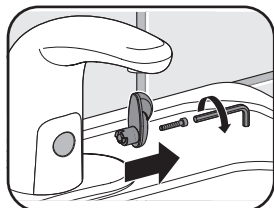
5. Install shut-off screw
The temperature is now adjusted. Carefully test the new temperature. If necessary, adjust again.

Adjusting Hot Water Limiter (External Mixer)

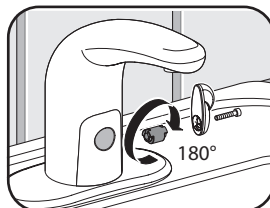
A traditional lavatory faucet is shown as an example. These instructions apply to all models with user adjustable temperature control. The proportion of hot water can be switched from approximately 85% to 95% (or reverse) depending upon inlet water pressures and temperatures. The default setting is 85%.

WARNING: Hot water may burn your skin.

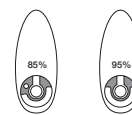
To avoid the risk of scalding, use a thermometer to check water temperature. Avoid contact with the water stream until the water temperature has been properly adjusted.



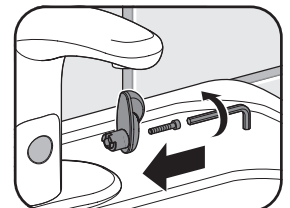
1. Remove mixer handle



2. Carefully pull out hot water limiter from handle (using pliers) and reverse by 180°

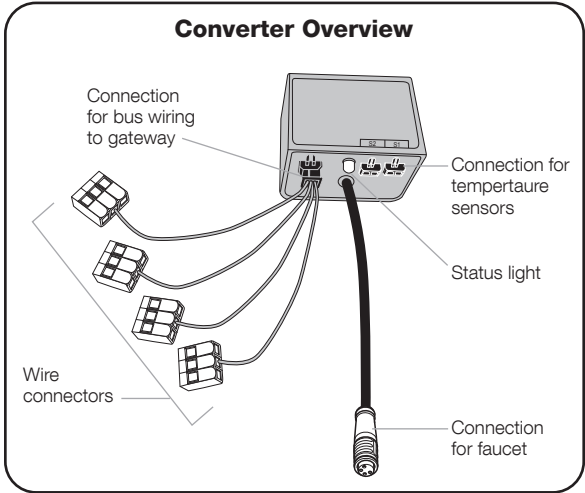


Settings of hot water limiter
(View from placement in mixer handle)



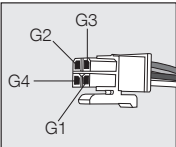
3. Mount mixer handle
The proportion of hot water is now changed.

Prepare to Connect the BUS Converter



Wire Connector Identification

WIRE COLOR	DESCRIPTION	
White wire	VBUS (24 V DC)	G1
Brown wire	Ground	G2
Green wire	Communication A	G3
Yellow wire	Communication B	G4



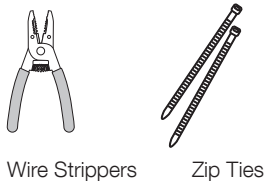
IMPORTANT: BEFORE BEGINNING YOU MUST HAVE AN ACCURATE DIAGRAM OF THE GATEWAY WIRING FOR YOUR SPECIFIC INSTALLATION!

RECORD THE BUS WIRE COLORS AT THE GATEWAY (G1, G2, G3, G4)

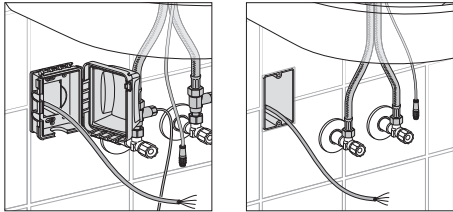
DESCRIPTION	WIRE COLOR
VBUS (24 V DC) Power	Inserts in connector with white wire (G1).
GND (common)	Inserts in connector with brown wire (G2).
Communication A (D-)	Inserts in connector with green wire (G3).
Communication B (D+)	Inserts in connector with yellow wire (G4).
FAUCET S/N (serial number from label on faucet supply hose)	

Connecting the BUS Converter

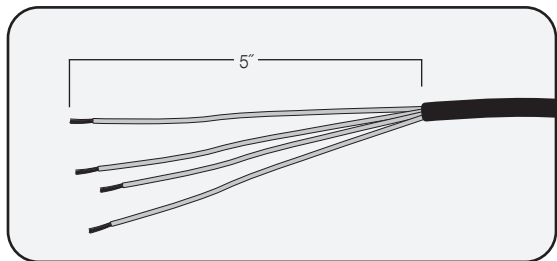
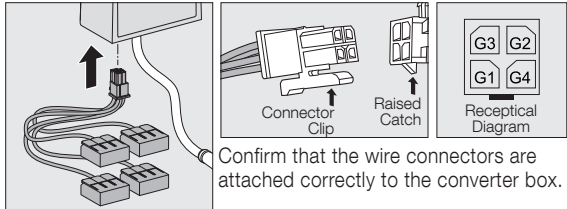
Recommended for Installation:



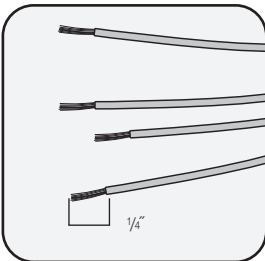
Typical Wire Locations:



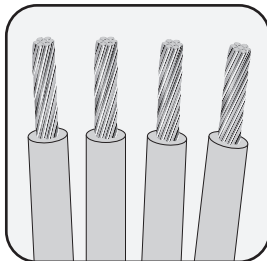
Before Beginning:



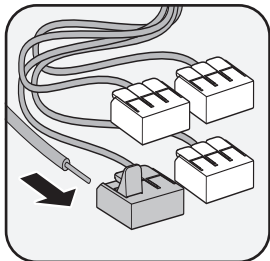
1. Strip 5" of the outer jacket from the 4-wire line coming from the wall.



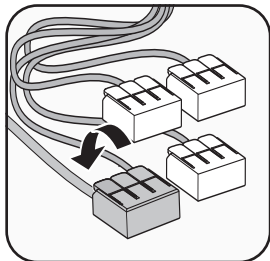
2. Strip 1/4" off the end of each 24 gauge wire.



3. Twist strands from each wire together to make insertion into wire connectors easier.

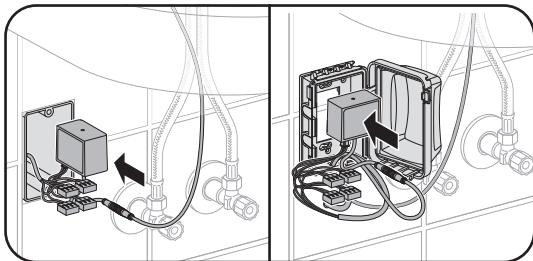


4. Lift the lever of an open slot on your first wire connector 90° and insert the wire. **YOU MUST FOLLOW YOUR WIRING DIAGRAM.**



5. Secure the wire by closing the lever on the connector.

Repeat steps 4 and 5 for the remaining three wires.



6. Insert the converter into the wall opening or box. Use zip ties as needed to secure and gather wiring.

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