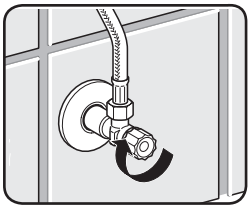
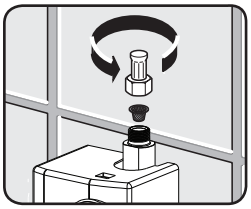
Cleaning or Replacing Inlet Filter

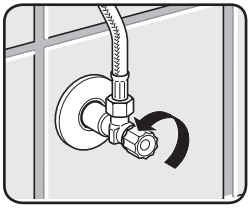
1. Close supply valves



2. Disconnect braided hoses and clean or replace filter (for a new filter, see "common replacement parts")



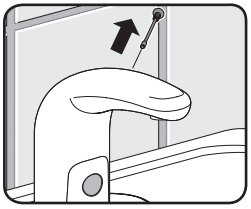
3. Connect braided hoses with filter to supply valves and fully open.



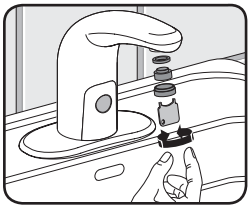
Result — The filter is now cleaned or replaced.

Cleaning or Replacing Aerator

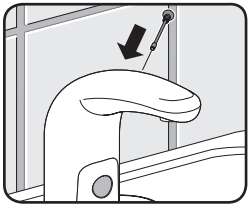
1. Remove shut-off screw



2. Remove outlet with vandal resistant wrench supplied with the faucet. Clean or replace outlet, then reinstall



3. Install shut-off screw



Result — The outlet is now cleaned or replaced.

CHICAGO FAUCETS®

a Geberit company

HYTRONIC WITH SSPS USER GUIDE

Recommended for Single Supply HyTronic® Faucets Only

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:

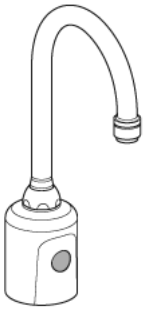
- Make sure there is enough space and lighting available during installation and service
- Do not modify or convert this Chicago Faucets product yourself. All warranties will be voided.

IMPORTANT

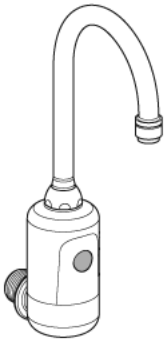
- Installation may be performed at different times of construction by different individuals. For this reason, these instructions should be left on-site with the facility or maintenance manager.
- Pressurized plumbing fixtures shall be installed in accordance with manufacturer's recommendations. The supply 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.
- Do not use pipe dope.
- Flush all the water supply lines before making connections.

Traditional Lavatory

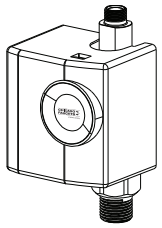
Contemporary Lavatory



Gooseneck



Wallmount



SSPS Generator

INSTALLATION

This faucet comes with all the components needed for installation, however, some tools and supplies are not included.

- Basin Wrench
- Adjustable Wrench
- Plumber's Putty
- Adjustable Locking Pliers

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

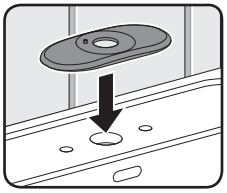
Mounting of Deck Mount Faucet

Prerequisites

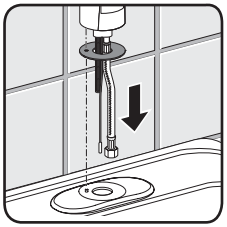
- Supply valve is installed
- Water supply lines are flushed properly

Important

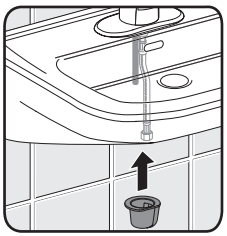
- It is not necessary to unscrew the connection between braided hose and housing to install the product.
- Do not remove protective covering from sensor until starting up faucet operation.
- Do not tighten locknut before step 4 is completed.



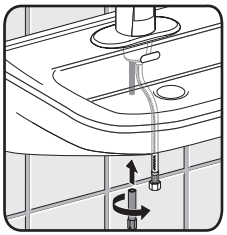
1. **Mount cover plate if required. Plumber's putty is recommended to seal cover plate to the sink. Security pin must be located on the left side.**



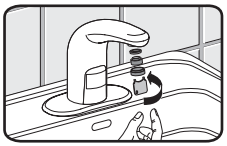
2. **Mount gasket and put faucet into sink.**



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).**
   Aerator: 1.0 gpm (standard) and optional 0.5 gpm insert

Result — The Deck Mount faucet is now mounted.

Mounting of Wall Mount Faucet

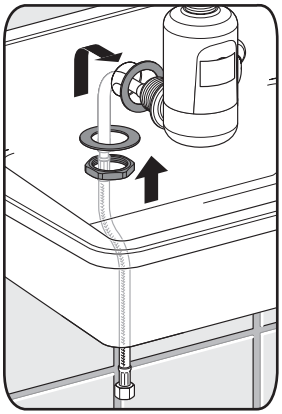
Prerequisites

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

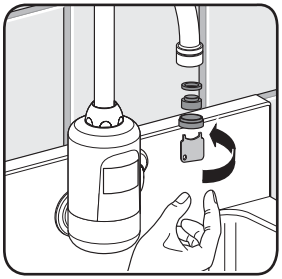
Important

- 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.

1. **Mount gasket, put faucet into opening and tighten**



2. **Install aerator and tighten with aerator key (supplied)**



3. **For gooseneck faucets, tighten spout with wrench.**
   Aerator: 1.0 gpm (standard) and optional 0.5 gpm insert

Result — The Wall Mount faucet is now mounted.

INSTALLATION

The SSPS Generator comes with all the components needed for installation, however, some tools and supplies are not included.

- Basin Wrench
- Adjustable Wrench
- Hand Drill
- Adjustable Locking Pliers

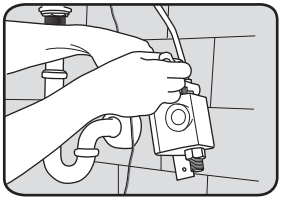
ⓘ Do not use pipe dope on faucet and supply connections. Possible solenoid contamination could occur and will void any warranty.

Mounting of SSPS Generator

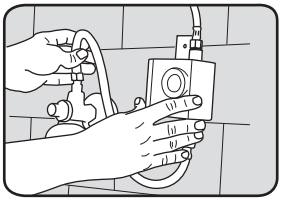
Includes

- SSPS Generator Unit
- Electronics Module and Holder
- Green Power Adapter
- Hose

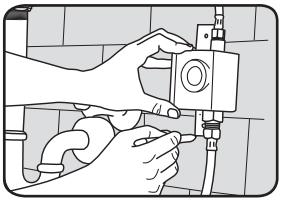
1 **Connect faucet to SSPS unit.**
Attached to faucet and install water supply line. Install filter at this point.



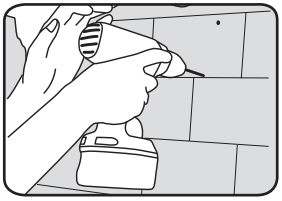
2 **Position SSPS under sink.**
Carefully position to allow connection of water lines and wiring.



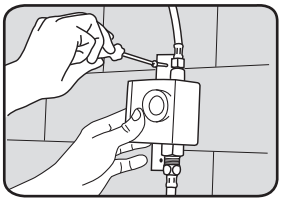
3 **Mark holes.**
Position mounting bracket and mark mounting holes.



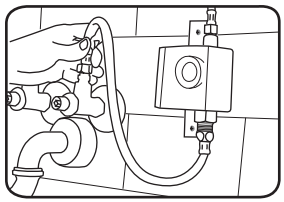
4 **Drill holes.**
Drill holes for screw anchors.



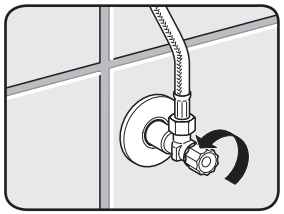
5 **Secure SSPS to wall.**
Insert anchors into holes and mount SSPS unit to wall with supplied screws.



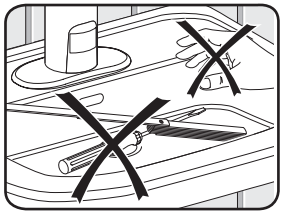
6 **Attach to supply.**
Attach inlet hose to supply and turn on water. With water on, check system for leaks.



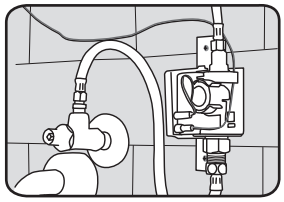
7 Fully open supply valve.



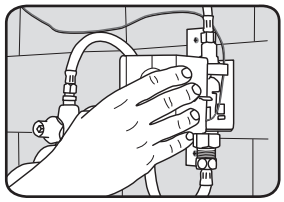
8 Remove all items from sink.

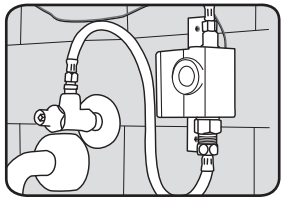


9 **Connect wiring.**
Remove cover and connect faucet wire to SSPS and secure into wire harness.

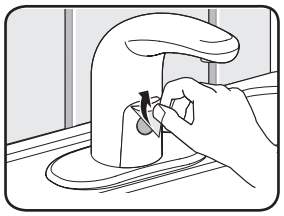


10 **Attach cover.**
Faucet is ready to run through programming sequence.





11 Remove protective covering from sensor.



12 Wait for 15 seconds for faucet to calibrate to its environment.

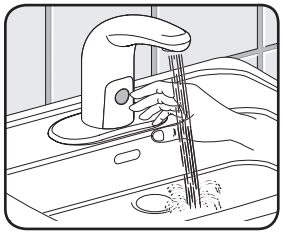
15 sec.

Result — The faucet is now activated.

Test Function

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

1. **Hold hand in front of sensor - Water flow starts.**
   Aerator: 1.0 gpm (standard) and optional 0.5 gpm insert



Result — The faucet is now tested.

Warning: Hot water may burn your skin. Hold hand carefully under water and remove quickly.

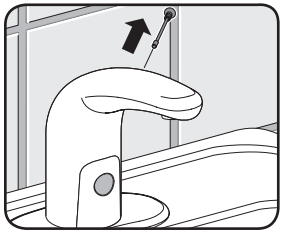
Enabling "Manual Setting" Mode

A battery model is shown in the following example. These instructions apply to all models. After 30 minutes, the "Manual Setting" mode will be disabled automatically and all settings will be saved.

Prerequisites

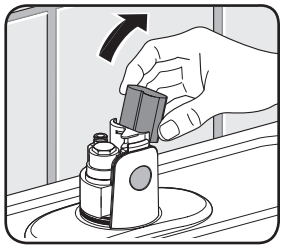
- Water supply valve is open

1. **Remove shut-off screw**

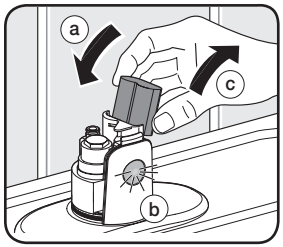


2. **Remove housing vertically**

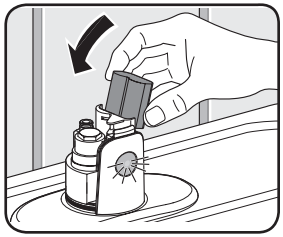
3. **Remove green adapter from holder**



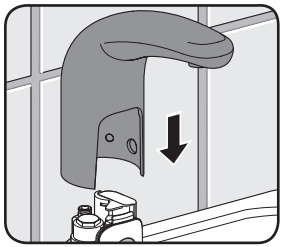
4. **The following procedure (a, b, c) must be done three (3) times in a row.**
   a - Reinsert green adapter
   b - LED lights up
   c - Remove green adapter immediately after LED switches off



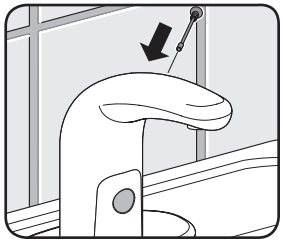
5 Insert green adapter



6 Mount housing vertically



7 Mount shut-off screw



Result — The "Manual Setting" Mode is now enabled.

CARE AND MAINTENANCE

Faucet Adjustments

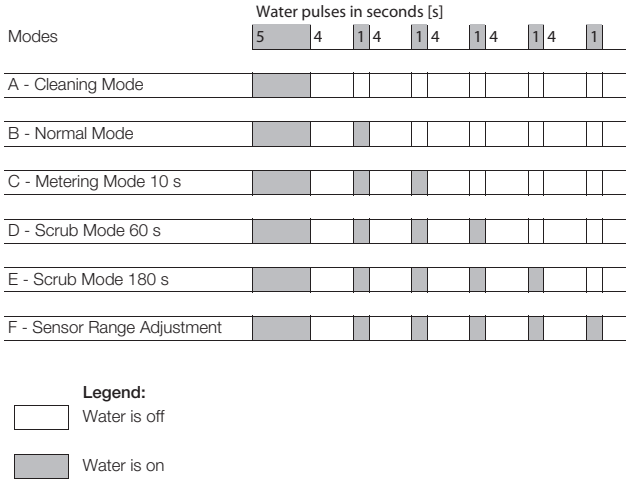
Operating modes and sensor ranges can be adjusted with a manual operation through the infrared sensor. A traditional lavatory faucet is shown as an example. Faucet adjustment operations apply to all models. Alternatively, operating modes and sensor ranges can be adjusted with a Commander™ Handheld Programming Unit. For more information, visit our website at www.chicagofaucets.com/commander.

OPERATING MODES

Operating Modes	Description
A: Cleaning Mode	The faucet is inactive for 90 seconds.
B: Normal Mode	The faucet is activated if it senses a hand presence. This is the default operating mode of the faucet.
C: Metering Mode (10 s)	The faucet will shut off after 10 seconds regardless of hand presence detected.
D: Scrub Mode (60 s)	The faucet will shut off 60 seconds after the detection of the last hand presence.
E: Scrub Mode (180 s)	The faucet will shut off 180 seconds after the detection of the last hand presence.
F: Sensor Range Adjustment	Change the detection distance of the infrared sensor. The default sensor range is approximately 1" beyond the spout.
G: Reset	All settings will be reset to original factory settings.

In order to set the operating modes, the faucet needs to be placed into "Manual Setting" mode. At this time, operating modes can be changed within the next 30 minutes.The following is a functional diagram to show the different settings available for manual faucet adjustment.

FUNCTION DIAGRAM OF OPERATING MODES



Limited Warranty

The CHICAGO FAUCET COMPANY ("Chicago Faucets") extends to the original consumer the following warranties for Genuine Chicago Faucets manufactured products and components, or other components under the Chicago Faucets Warranties, (collectively, the "Products").

Lifetime Faucet Warranty The "Faucet", defined as any metal cast, forged, stamped of formed portion of the Product, not including electronic or moving parts or water restricting components, or other components covered under the Chicago Faucet warranties, is warranted against defects for the life of the product.

One Year Finish Warranty The finish of the Product is warranted against manufacturing defects for a period of one (1) year from the date of Product purchase.

Electronic Faucets Mechanicals Warranty Are warranted for five (5) years from the date of installation.

Electronic Faucets Finishes Warranty Are warranted for one-year from the date of installation.

Electronic Faucets Electronics and Solenoid Warranty Are warranted for three (3) years from the date of installation.

The Chicago Faucet Company
2100 South Clearwater Drive
Des Plaines, IL 60018
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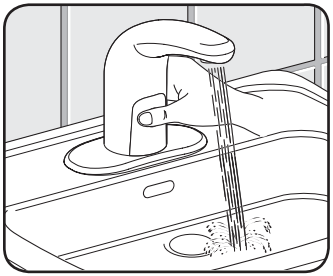
Fax: 847/803-5454
Technical: 800/832-8783
www.chicagofaucets.com

 957.078.00.0 05/12

A - Setting Cleaning Mode

Setting the cleaning mode will make the faucet inactive for 90 seconds.

1. **Enable "Manual Setting" Mode**
   > see "Enabling Manual Setting Mode" section
2. **Fully cover sensor with hand, until water flow stops.** (This takes 5 seconds)
3. **Remove hand**

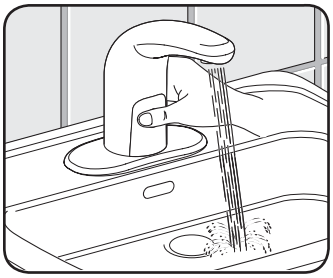


Result — The Cleaning Mode is now active. For the next 90 seconds, the faucet will be inactive.

B - Setting Normal Mode

Setting the normal mode will allow the faucet to activate only when it senses a hand presence.

1. **Enable "Manual Setting" Mode**
   > see "Enabling Manual Setting Mode" section
2. **Fully cover sensor with hand. Water flow stops after 5 seconds - Continue to hold on for one (1) additional water pulse**
3. **Remove hand**

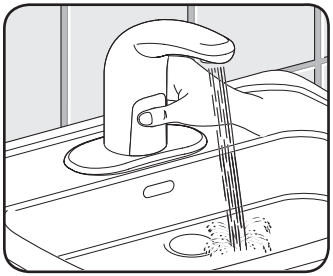


Result — Normal Mode is now activated.

C - Setting Metering Mode (10 seconds)

Setting the metering mode will allow the faucet to activate for a full 10 seconds after it senses a hand presence.

1. **Enable "Manual Setting" Mode**
   > see "Enabling Manual Setting Mode" section
2. **Fully cover sensor with hand. Water flow stops after 5 seconds - Continue to hold on for another two (2) additional water pulses**
3. **Remove hand**

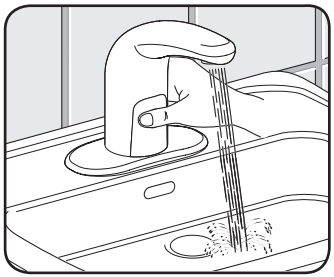


Result — Metering Mode is now activated for 10 seconds.

D - Setting Scrub Mode (60 seconds)

Setting the scrub mode for 60 seconds will allow the faucet to activate for 60 seconds from the last hand presence.

1. **Enable "Manual Setting" Mode**
   > see "Enabling Manual Setting Mode" section
2. **Fully cover sensor with hand. Water flow stops after 5 seconds - Continue to hold on for another three (3) additional water pulses**
3. **Remove hand**

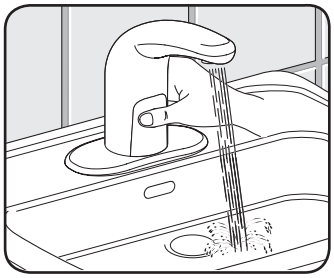


Result — Scrub Mode is now activated for 60 seconds.

E - Setting Scrub Mode (180 seconds)

Setting scrub mode for 180 seconds will allow the faucet to activate for 180 seconds from the last hand presence.

1. **Enable "Manual Setting" Mode**
   > see "Enabling Manual Setting Mode" section
2. **Fully cover sensor with hand. Water flow stops after 5 seconds - Continue to hold on for another (4) additional water pulses**
3. **Remove hand**

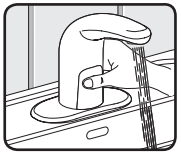


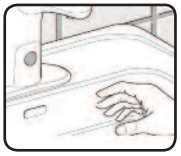
Result — Scrub Mode is now activated for 180 seconds.

F - Sensor Range Adjustment

The detection distance of the sensor can be adjusted between approximately 4 - 11 inches from the infrared window.

1. **Enable "Manual Setting" Mode**
   > see "Enabling Manual Setting Mode" section
2. **Remove all items from sink**
3. **Fully cover sensor with hand. Water flow will stop after 5 seconds - Continue to hold on for five (5) additional water pulses**
4. **Remove hand**
5. **Hold hand in the current detection area until LED flashes. Then move hand to the desired detection distance. When LED stays lit for (2) seconds, detection distance has been re-set to new location.**





Result — The detection distance is now calibrated.

G - Reset

All settings will be reset to default setting.
The "Manual Setting" Mode will be disabled.

- The procedure for the reset is the same as "Enabling Manual Setting Mode", but step 5 needs to be done six (6) times in a row.

Result — All settings are reset to default settings and the manual-setting-mode is now disabled.

EXPLANATION OF SYMBOLS

Symbol		Meaning
⚠	WARNING	Refers to a situation of potential danger thay may cause serious injury or death
⚠	CAUTION	Refers to a situation of potential danger thay may cause slight or medium injury or property damage
ℹ		Refers to important information.

CARE AND MAINTENANCE INSTRUCTIONS

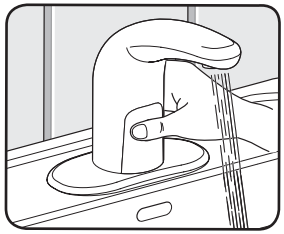
The following instructions are described in this section:

- Activating Cleaning Mode
- Cleaning or Replacing Inlet Filter
- Cleaning or Replacing Outlet

Activating Cleaning Mode

In order to set the cleaning mode, the faucet needs to be have been set once into the "Manual Setting" mode. See "Manual Setting" instructions. When cleaning mode is activated, the faucet will be inoperable for 90 seconds.

1. **Fully cover sensor with hand, until waterflow stops. (This will take approximately 5 seconds)**
2. **Remove hand**



Result — Cleaning mode is now activated.

TROUBLESHOOTING

Problem: No Water Flow	
Possible Cause	Solution
Supply valves are closed	**Open supply valves**
Aerator is blocked or dirty	**Clean or replace Outlet** See "Care and Maintenance"
Inlet water line filter is dirty or blocked	**Clean or replace filter** See "Care and Maintenance"
Braided hose is kinked	**Eliminate braided hose kink**
No external water pressure	**Check water pressure** Provide water pressure
Battery is drained	**Replace SSPS unit** Contact Chicago Faucets technical service or replace power adapter
Reverse green adapter insertion	**Insert green adapter correctly**
Connector between SSPS and power adapter unplugged	**Plug connector** (green plugs)
Power adapter contacts are corroded	**Clean contacts**
Connecting cable is kinked or broken	**Replace defective parts** See "Replacement Parts" at chicagofaucets.com
Shut-off screw is missing or defective	**Replace shut-off screw** See "Replacement Parts" at chicagofaucets.com
Solenoid valve inoperable	**Replace solenoid valve** See "Replacement Parts"
Faucet is in cleaning mode	**Wait for cleaning mode to end (appr. 90 seconds)**
Electronics module inoperable	**Contact Chicago Faucets technical service or replace power adapter** See "Replacement Parts" at chicagofaucets.com
Green Power adapter defective Contact	**Chicago Faucets technical service or replace power adapter** See "Replacement Parts" at chicagofaucets.com
Sensor distance is not adjusted properly	**Reset sensor monitoring range** Remove and re-install shut-off screw. Do not disturb sensor scanning procedure (wait until water flow stops and LED switches off)
Infrared window scratched or dirty	**Clean window with smooth cloth**
Interfering reflections from sink	**Reset monitoring range** Remove and reinstall shut-off screw. Do not disturb sensor scanning procedure (wait until water flow stops and LED switches off). Adjust upper and lower beam to compensate for reflections (Commander™ Handheld Programing Unit required. Go to www.chicagofaucets.com/commander for details)

TROUBLESHOOTING

Problem: Water runs continuously and stops when object present	
Possible Cause	Solution
Connector between electronics module and solenoid valve plug is reversed	**Plug connector properly**

Problem: Water runs continuously	
Possible Cause	Solution
Interfering object is in monitoring range	**Remove object from monitoring area.** Remove and re-install shut-off screw. Do not disturb sensor scanning procedure (wait until water flow stops and LED switches off)
Defective electronics module	**Replace electronics module** See "Replacement Parts" at chicagofaucets.com
Improper electronics module	**Change mode or reset sensor** See "Care and Maintenance"
External water pressure too high	**Check external water pressure** Provide pressure between 20 - 125 psi
Solenoid valve inoperable	**Replace solenoid valve** See "Replacement Parts" at chicagofaucets.com

Problem: Water flows although shut-off screw is removed	
Possible Cause	Solution
Electronics module is inoperable	**Replace electronics module** See "Replacement Parts" at chicagofaucets.com
Water drops on infrared window	**Clean window with smooth cloth**

Problem: Faucet turns on by itself	
Possible Cause	Solution
Infrared window is dirty or scratched	**Clean window with smooth cloth**
Faucet is influenced by room environment (mirror, stainless steel or glass sink, etc.)	**Reset monitoring range** Remove and re-install shut-off screw. Do not disturb sensor scanning procedure (wait until water flow stops and LED switches off) Adjust upper and lower beam to compensate for reflections (Commander™ Handheld Programming Unit required. Go to "www.chicagofaucets.com/commander" for details)
Input line pressure fluctuates	**Install appropriate line pressure regulators**

Problem: Faucet is leaking water	
Possible Cause	Solution
Connections between housing and braided	**Check O-rings** Replace O-rings when damaged or missing
Connection between braided hose and inlet supply are loose	**Check rubber washers** Replace washers when damaged or missing
Connection between valve body and solenoid valve is loose	**Check O-rings -** Replace O-rings when damaged. Carefully re-installed solenoid valve & do not over tighten
Faucet drips, solenoid valve does not close	**Clean or replace solenoid valve** See "Replacement Parts" at chicagofaucets.com