

PRIOR TO INSTALLATION

Prior to installing the Sloan BASYS™ Series Faucets, install the items listed below. Also, refer to rough-in illustrations.

IMPORTANT:

- ALL PLUMBING SHOULD BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- FLUSH ALL WATER LINES PRIOR TO MAKING CONNECTIONS.
- KEEP THREAD SEALANT OUT OF YOUR WATERWAY TO PREVENT COMPONENT PART DAMAGE! DO NOT USE ANY SEALANT ON COMPRESSION FITTINGS.

Base Plates

When the BASYS™ Faucet is installed on a sink that has three (3) hole punchings, a base plate should be used. **Base Plates should be specified at the time of ordering.**

EFX-20-A – 4" (102 mm) Centerset Sinks

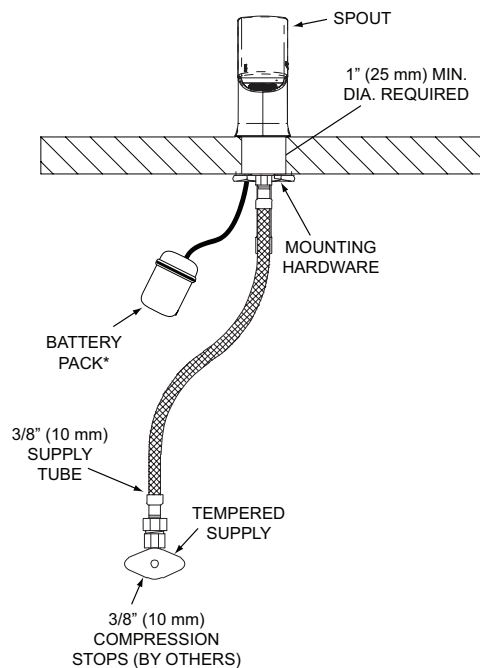
EFX-26-A – 8" (203 mm) Centerset Sinks

TOOLS REQUIRED FOR INSTALLATION

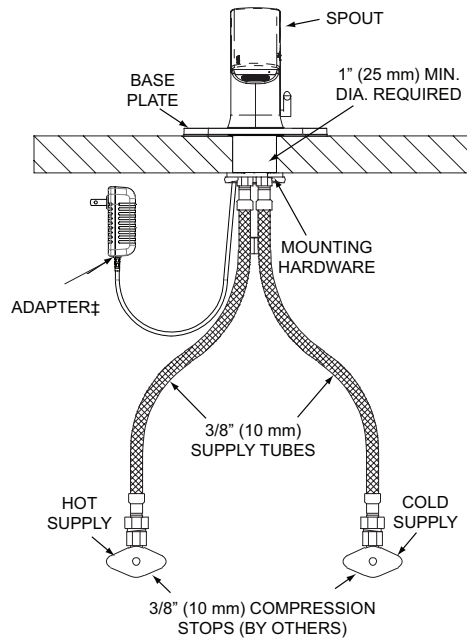
- 13 mm open end wrench or nut driver for faucet retainer nut
- 2.5 mm hex allen wrench
- 5/8" open end wrench for female end of flex hose

FAUCET ROUGH-IN

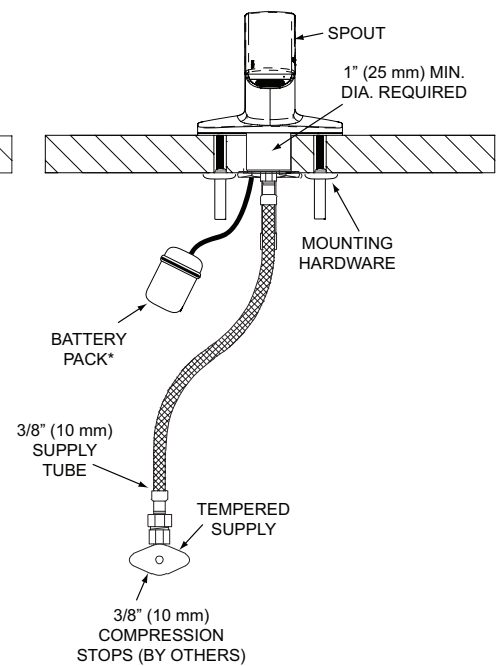
EFX-3X0.X0X.0000
with Tempered Water Supply†



EFX-3X0.X0X.0100
with Hot/Cold Water Supply† and 4-inch Base Plate



EFX-6X0.X0X.0000
with Hot/Cold Water Supply†

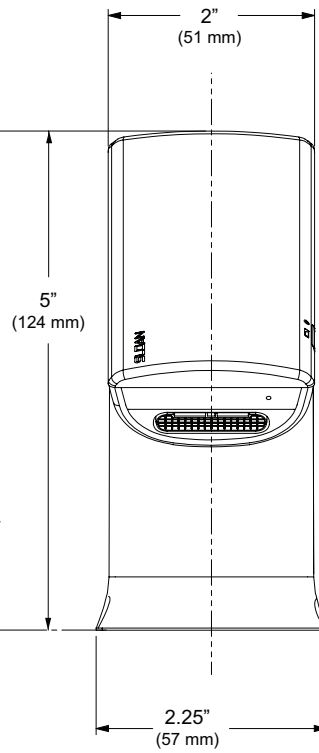
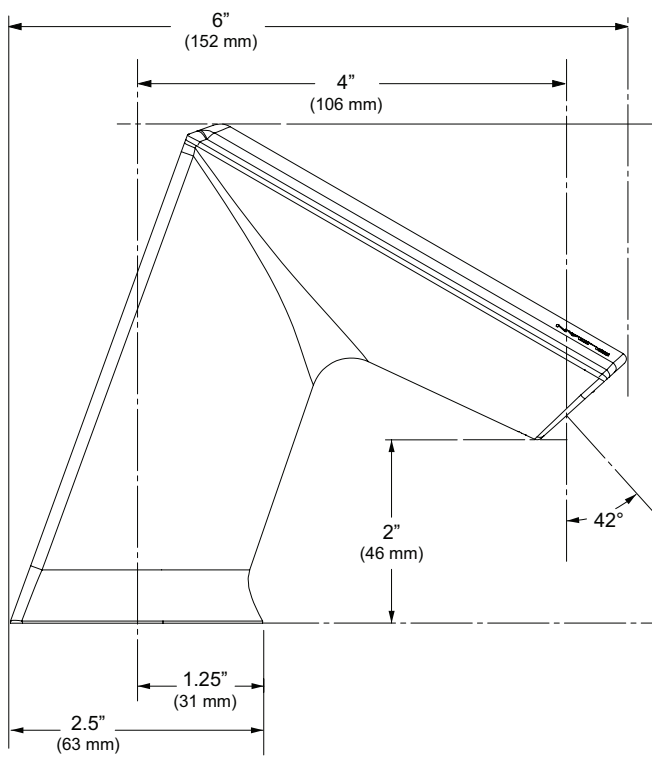
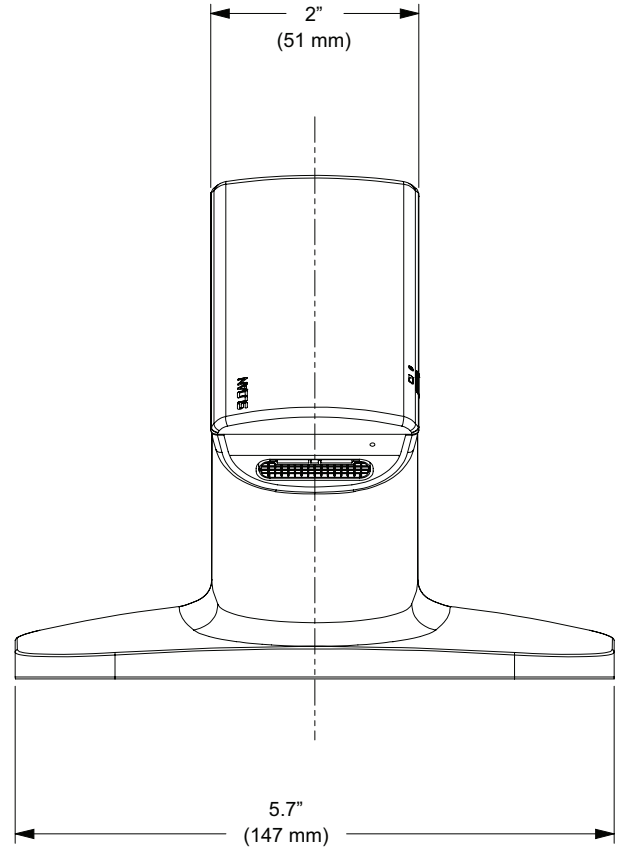
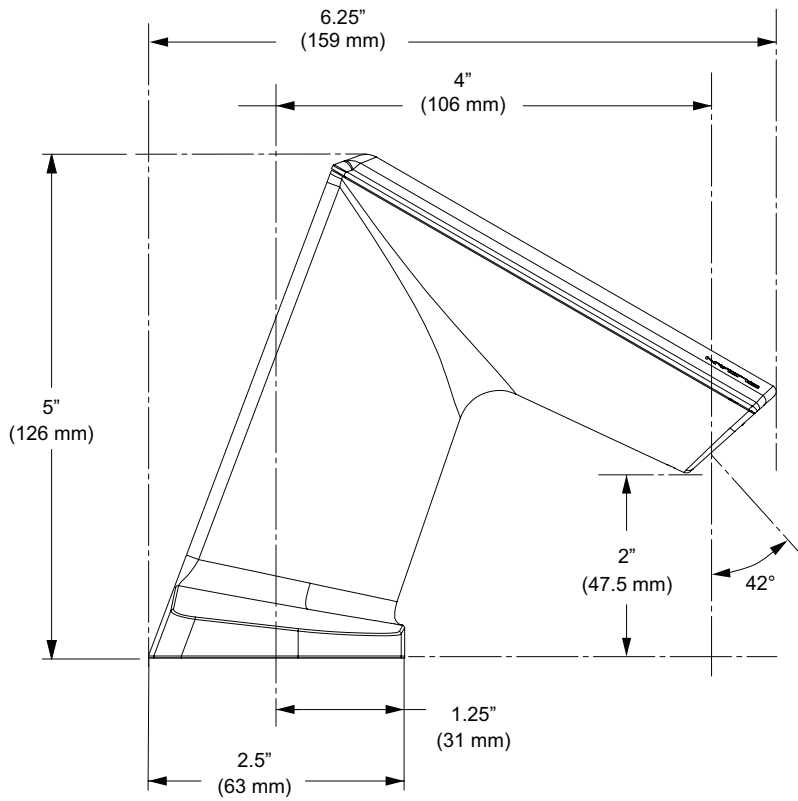


† EFX Faucets are available with a 0.5 gpm (1.9 Lpm) multi-laminar spray, 1.5 gpm (5.7 Lpm) aerated stream, and 1.5 gpm (5.7 Lpm) laminar stream.

* One faucet per battery pack.

‡ No battery backup on hardwire low pedestal/low integrated base models.

FAUCET ROUGH-IN

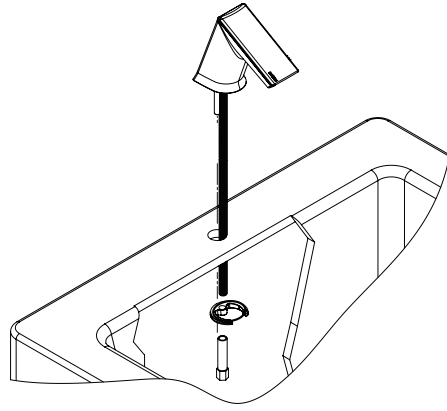


1 - INSTALL FAUCET

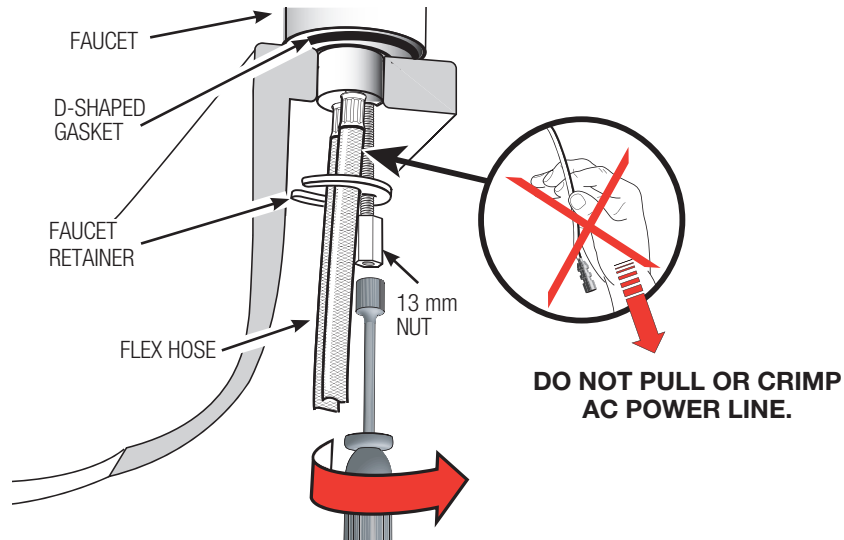
- A** Remove nut, faucet retainer and gasket.
- B** Install Faucet with faucet retainer into the center hole in deck or lavatory — **1-3/16" (30 mm) min. hole required.**

NOTE: If installing the Faucet on a three (3) hole sink, a Base Plate should be installed at this time.

NOTE: Do not remove label until water is connected.



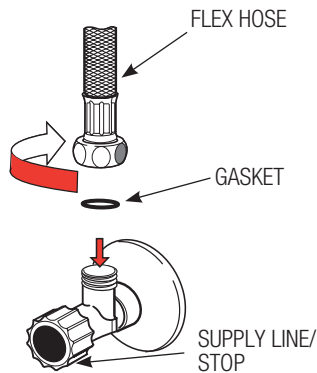
2 - SECURE TO SINK DECK



3 - CONNECT TO WATER SUPPLY

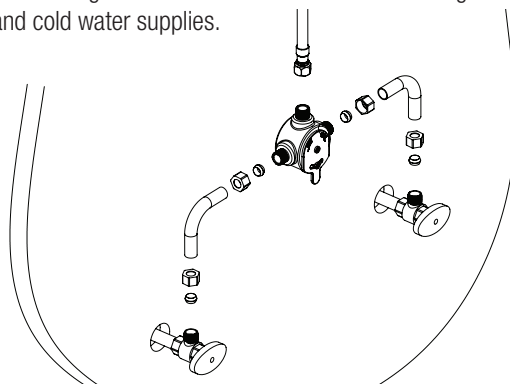
- A** **IMPORTANT: FLUSH DIRT, DEBRIS, AND SEDIMENT FROM SUPPLY LINE(S) BEFORE CONNECTING FLEX HOSES.**

- B** Install flex hose(s) with gaskets onto supply stops.

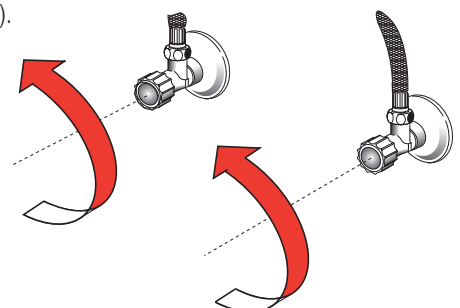


- C** Tighten the flex hose(s) (with gaskets in place) secure to the supply.

- D** **For single supply faucets** – Install flex hose with gasket onto mixing valve and connect check tee or mixing valve to hot and cold water supplies.

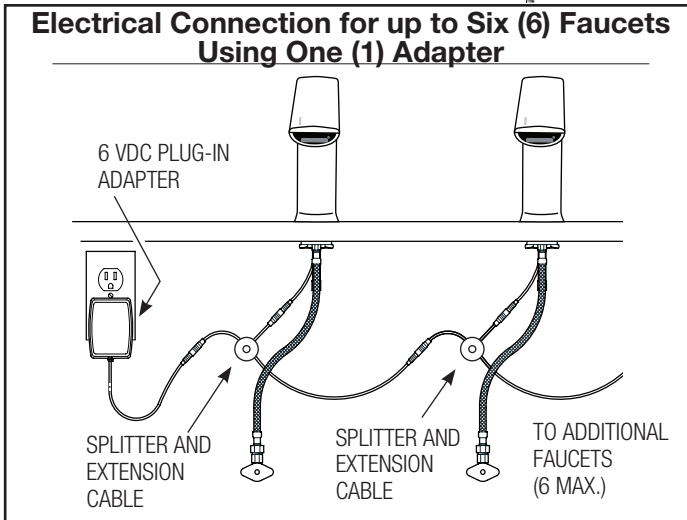
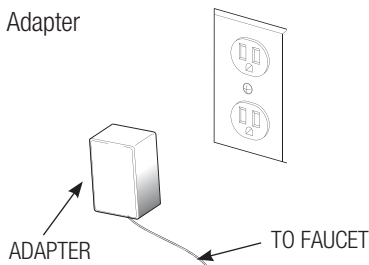


- E** Open supply stop(s).

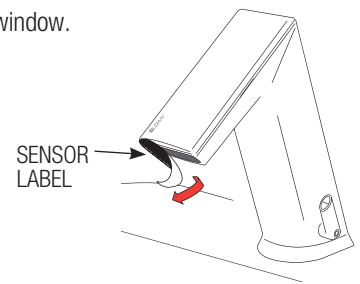


4 - START-UP SEQUENCE

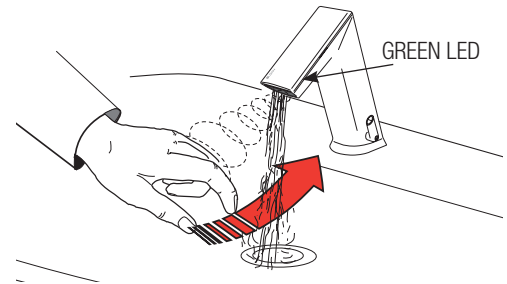
- A** For Hardwire Models, Plug Adapter into receptacle.



- B** Remove label from sensor window.



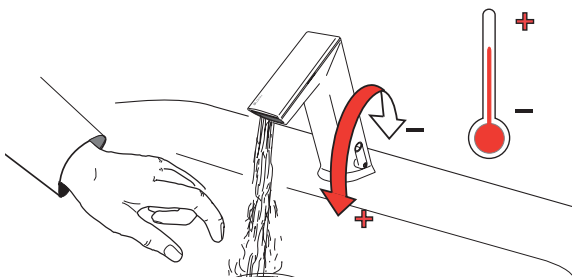
- C** Activate faucet by holding installation instructions approximately 1-1/2" (38 mm) in front of sensor window until Red LED turns on then remove instructions while faucet sense its surroundings. Wait for green LED on side of faucet.



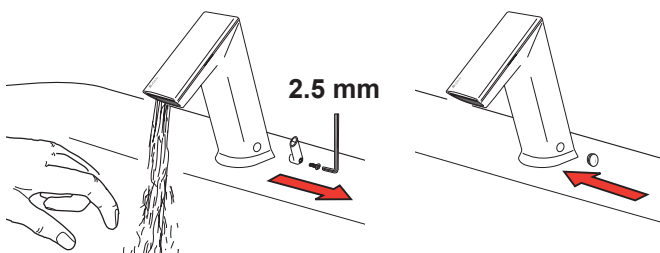
- D** Activate faucet and check for leaks. If faucet does not function, refer to the troubleshooting section.

5 - SET AND FIX TEMPERATURE AND ADJUST HOT LIMIT STOP (FOR LOW PEDESTAL MODELS ONLY)

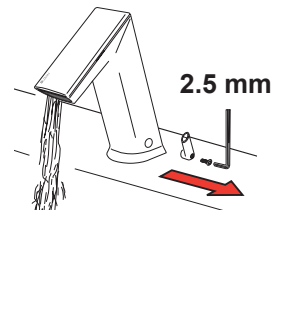
- A** Adjust lever to set temperature.



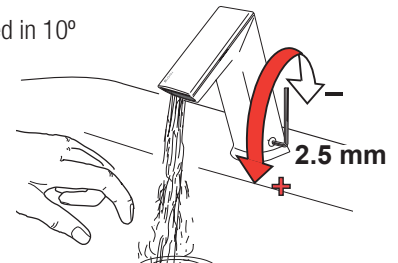
- B** **OPTIONAL** – To fix temperature, set lever to the desired position, then remove lever and plug hole with cap.



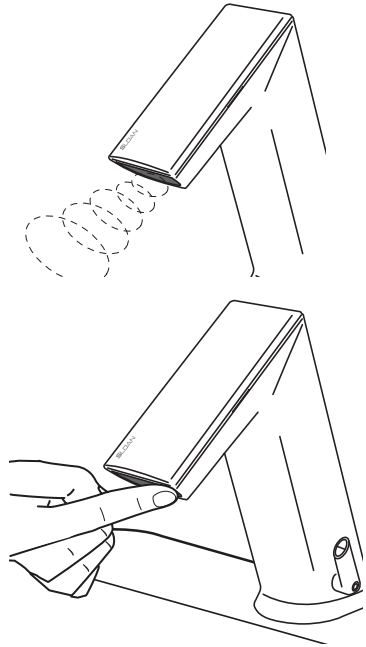
- C** **Optional Hot Limit Stop Adjustment** – To adjust the hot/cold mix (factory set at 50/50) remove the lever. Check to make sure dot is in center position before beginning adjustment.



Faucet may be adjusted in 10° increments.



ADDITIONAL FUNCTIONS



Function	Steps to Activate Function	Default Setting	IR Clic
IR Activation	Cover IR clic approximately for 2 sec. until LED will flash GREEN 1x - then remove finger from IR clic (Active for 5 sec.)	—	—
Cleaning Mode	IR Activation; Cover IR clic 2x - confirmation of the function is active by a couple flashes by the LED; to return to normal operation cover IR clic 1x or the faucet will automatically return to normal function after 2 min.	2 min.	—
12/24 Line Purge Feature	See below.	Off	Off 12HR 24HR
Sensor Range Adjustment	See page 7.	6	1-8
Reset Electronics	IR Activation Cover IR clic 2x; LED will flash 5x Cover IR clic 1x for 5 sec. until LED flashes 4x, then remove finger from IR clic Wait for 20 sec. (After 10 sec. water will flow for 6 sec. and automatically adjust to environment)	Manually	—
Security Off	After 90 seconds (max) of hand and/or object within sensor appears permanent, waterflow will stop and will remeasure environment	On	—

Please contact factory for more extensive programming options.

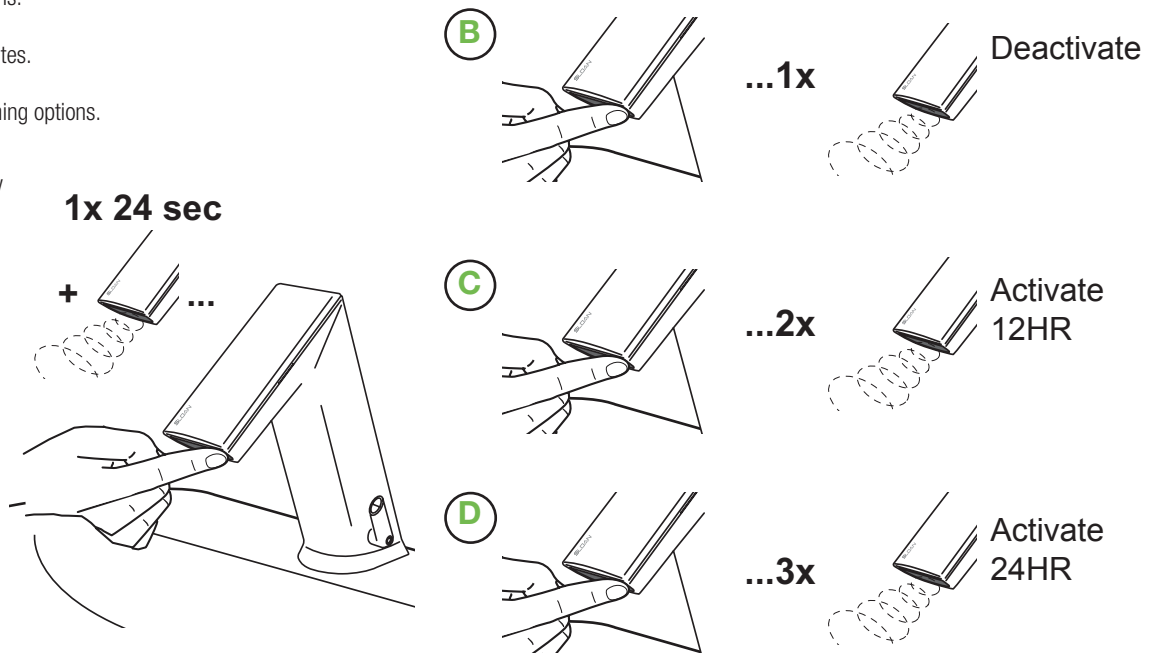
12/24 LINE PURGE FEATURE

This feature will operate the faucet every 12 or 24 hours since last use, if not used to prevent stagnant water conditions.

Default purge duration is two minutes.

Consult factory regarding other timing options.

- A** IR activation (see above). Cover IR clic approximately 24 sec. (ignore LED indications during this period). Release when requested program is reached. (See diagram to right). Programming mode will time out after 2 minutes if no changes are made.

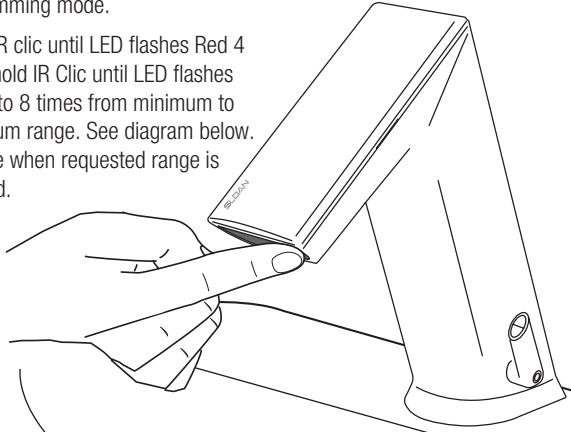


SENSOR RANGE ADJUSTMENT

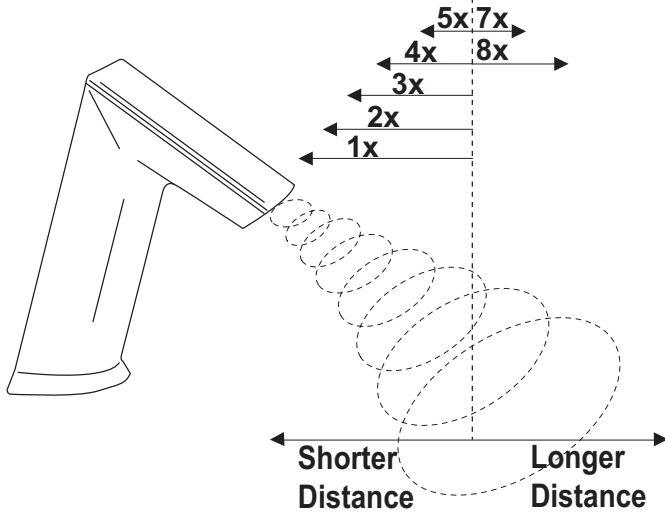
FACTORY SETTING IS APPROPRIATE FOR THE MAJORITY OF APPLICATIONS AND SHOULD NOT REQUIRE RESETTING UNLESS UNDER EXTREME SITUATIONS: HIGH REFLECTION OR LOW LIGHT.

A IR Activation (see page 5). To enter programming mode place finger on IR clic for 2 times then remove. Light on side of crown should blink to indicate programming mode.

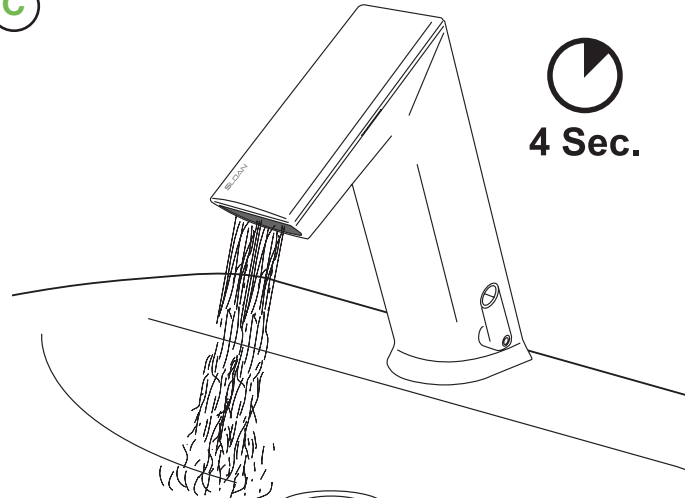
B Cover IR clic until LED flashes Red 4 times-hold IR Clic until LED flashes 1 time to 8 times from minimum to maximum range. See diagram below. Release when requested range is reached.



6x - Factory Setting

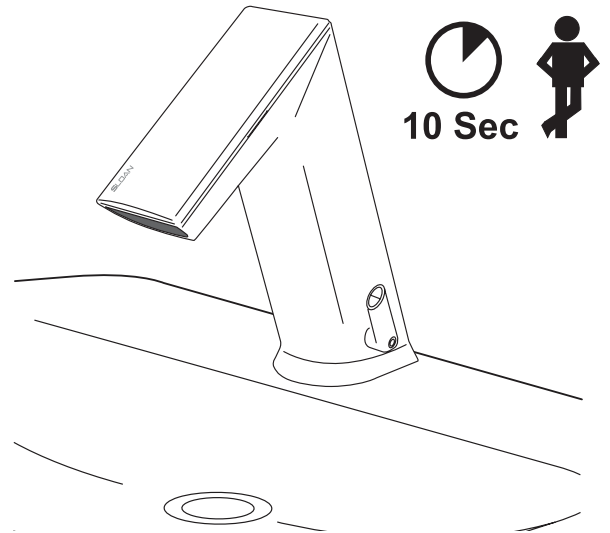


C



D

Wait, until LED flashes GREEN.

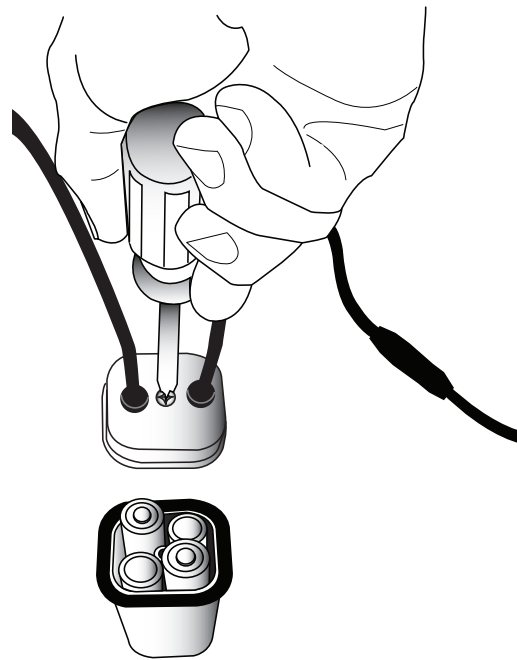


BATTERY REPLACEMENT

NOTE: Replace Battery when LED1 indicator flashes red each time faucet is in use or when faucet stops functioning. LED1 is identified by the battery symbol.

NOTE: Turning off water is not necessary.

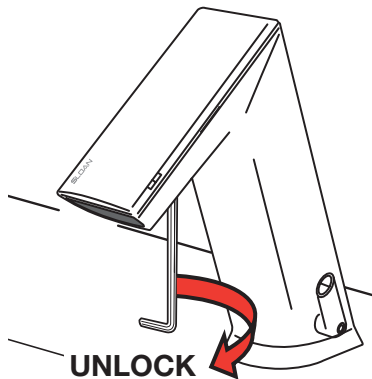
- A** Loosen cover screw and remove cover from battery pack.
- B** Install four (4) AA-size batteries (supplied) as indicated by the (+) and (-) symbols inside the battery compartment.
- C** Replace battery pack lid and tighten with screwdriver.
NOTE: Insure batteries are installed with proper polarity. The cover of the case indicates polarity of batteries. Improper polarity will not harm the faucet. Improper polarity will cause the faucet not to operate.



REPLACING THE SOLENOID/FILTER

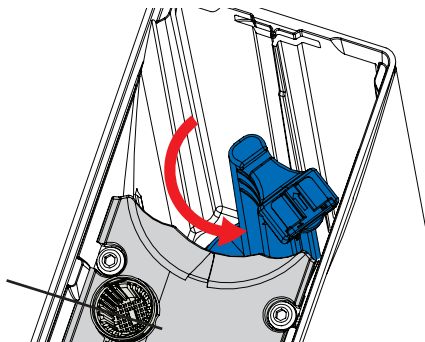
NOTE: TURNING OFF WATER IS NOT NECESSARY, DUE TO INTEGRATED AUTOMATIC STOP VALVE.

- A** Remove crown by loosening hex screw located on underside of spout and slide crown down and lift off.
NOTE: Screw is captive within faucet body.

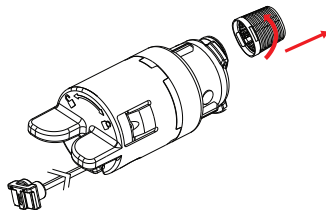


- B** Rotate solenoid assembly counter-clockwise through a 45° angle.

SPARE FILTER

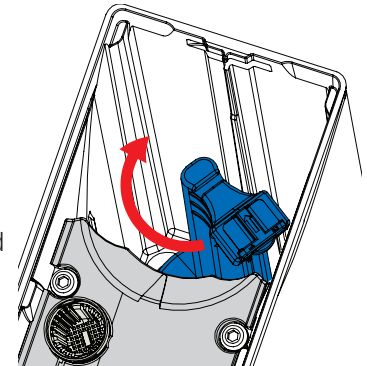


- C** Pull solenoid caddy from faucet.
NOTE: Strainer can be removed, cleaned and replaced at this time.

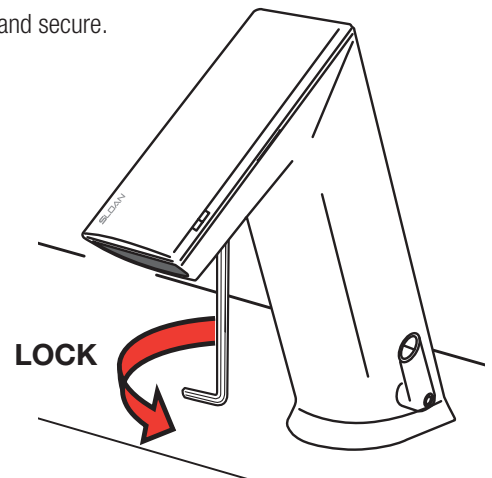


- D** Insert new solenoid caddy at a 45° angle.

- E** Rotate solenoid caddy clockwise to align with arrow, locking the unit and opening water path.



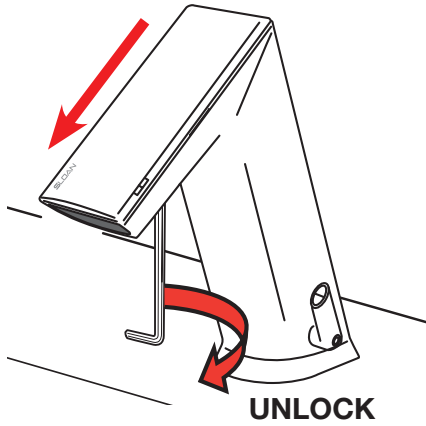
- F** Slide on crown and secure.



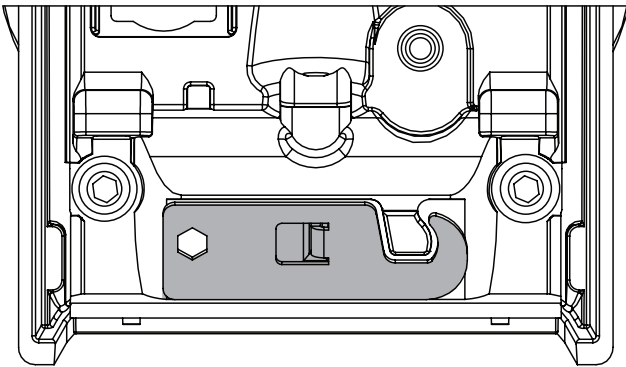
REPLACE SPRAY INSERT

NOTE: TURNING OFF WATER IS NOT NECESSARY, DUE TO INTEGRATED AUTOMATIC STOP VALVE.

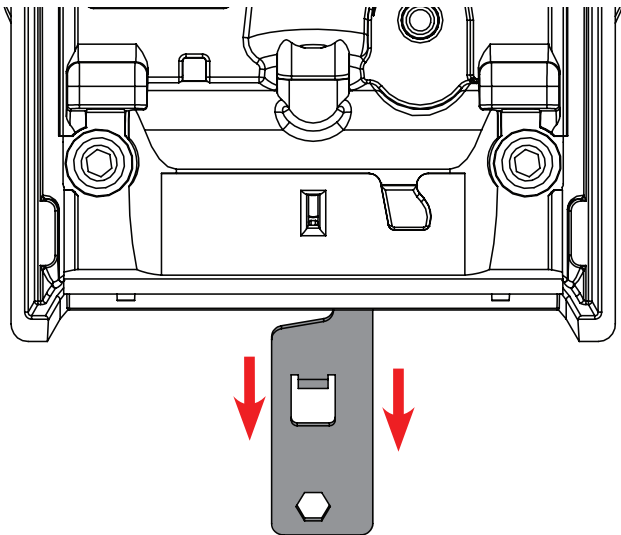
- A** Remove crown by loosening hex screw located on underside of spout and slide crown down and lift off.
NOTE: Screw is captive within faucet body.



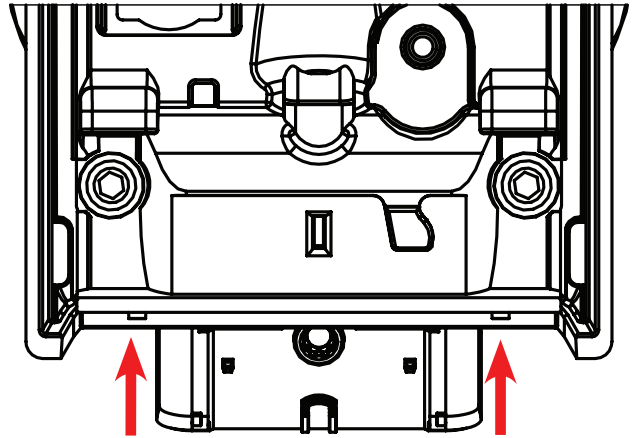
- B** Retrieve spray removal tool located near the spray insert.



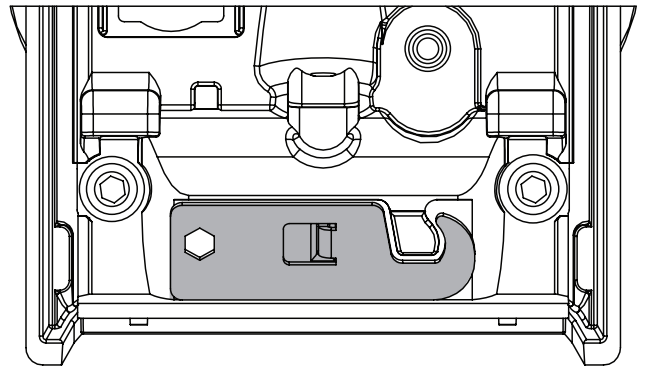
- C** Insert spray removal tool into spray slot by sliding hook end of key between faucet spout and insert. Pull insert out of faucet once hooked.



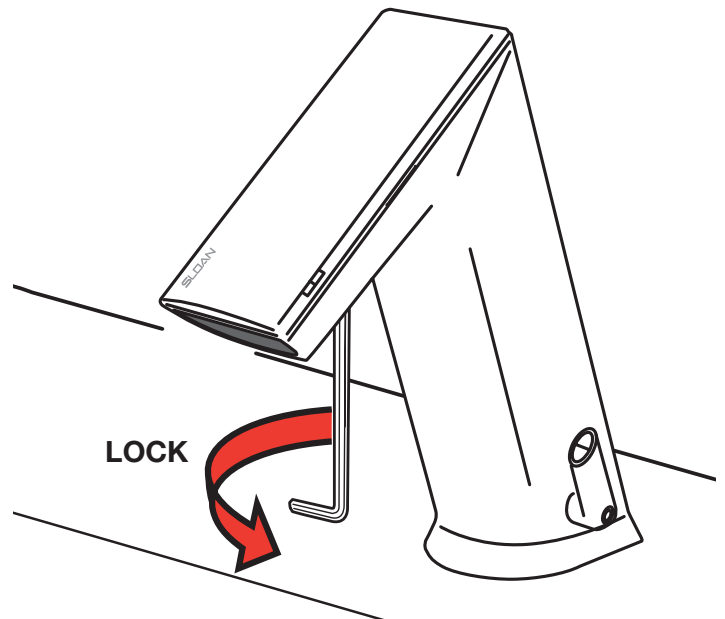
- D** Install new insert.
NOTE: If changing to a different flow rate solenoid caddy must also be changed.



- E** Return spray removal tool to storage location.
NOTE: This can only be done once spray head is installed. This will lock the spray head in place.
NOTE: If spray head is inserted incorrectly – key will not lock in properly. Turn faucet on to push insert out and re-install.



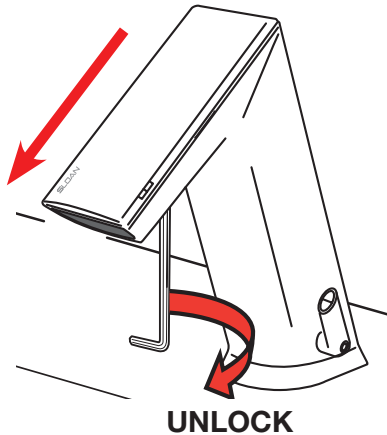
- G** Slide on crown and secure.



UPGRADE FAUCET FUNCTIONALITY

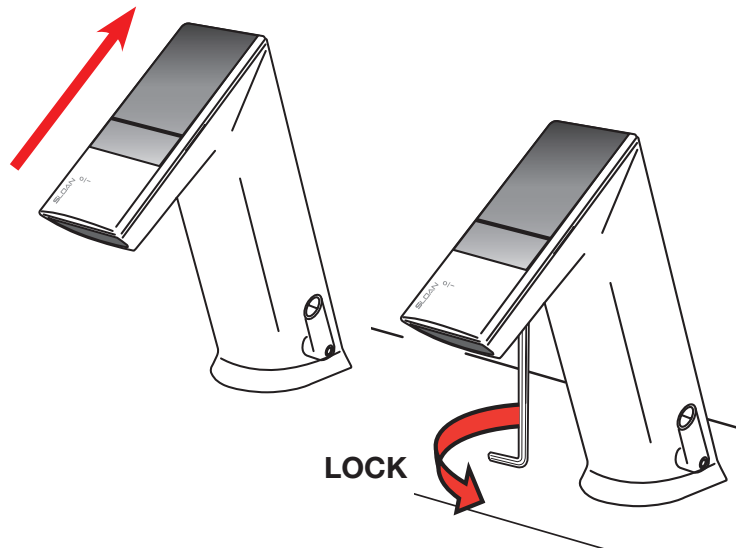
- A** Remove crown by loosening hex screw located on underside of spout and slide crown down and lift off.

NOTE: Screw is captive within faucet body.

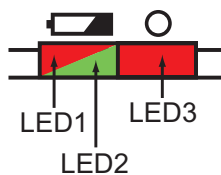


- B** Place new crown on faucet by sliding onto spout and tightening hex screw on underside of spout.

NOTE: All electronics are fully encapsulated in the crown and thus protected from the environment and easy to replace or upgrade.



LED DISPLAY DIAGNOSTIC CODES



Function	LED1	LED2	LED3	Description 1	Description 2
Start Up Boot				LED1 and LED2 alternate blinking	Fast Toggle
Battery Check after Start Up				LED1 on for 2 sec, if battery greater than 3.5V	
Line Power Check after Start Up				LED3 on for 2 sec, if line power is greater than 3.5V	
IR Adjust Process				LED1 blinking while IR adjusts	Few seconds
IR Adjust OK				LED2 on for 2 sec, if adjustment OK	
Battery Low				LED1 blinks 3x, if battery is less than warning level	Only while in detection mode
Battery Empty				LED1 double flashes 3x, if battery is less than empty level	Only while in detection mode
Valve Error				LED3 double flashes 3x, if valve current error; flash after the 3rd error, off after the 3rd good operation	Flashes after the 3rd error, off after the 3rd good operation
IR Activation				LED2 on for 2 sec, if IR-click has been activated	After 5 sec. automatically back to operating mode
Cleaning Mode				LED1 4-in-1 flash, if cleaning mode is activated	During "Cleaning Mode" is activated Permanent 4-in-1 flashes

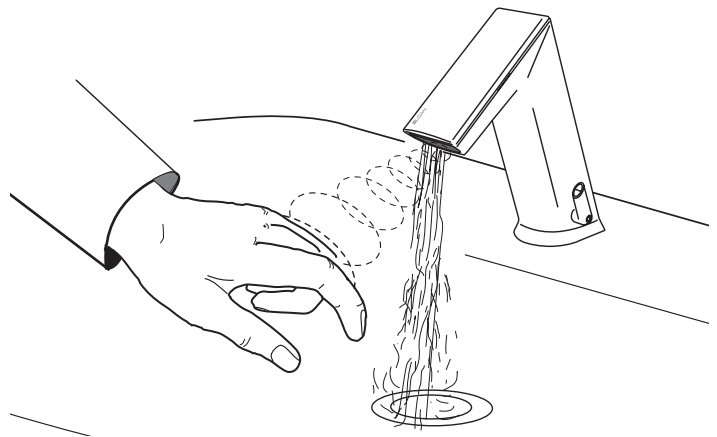
TROUBLESHOOTING GUIDE

- 1. Red LED in spout does not blink 2 seconds after battery installation.**
Battery placement incorrect or batteries have been discharged.
Ensure alkaline batteries are installed properly. Check the orientation of each battery matches the positive (+) and negative (-) symbols shown on the battery compartment.
- 2. Faucet does not function.**
Adhesive packaging label affixed over sensor eye.
Remove adhesive label from sensor eye.
- 3. Faucet delivers water in an uncontrolled manner.**
Faucet is not working properly.
Clean sensor window; if problem persists contact Sloan Tech Support (see below).
- 4. Faucet does not deliver any water when sensor is activated.**
Solenoid valve produces an audible “CLICK”.
 - A. Water supply stop(s) closed.**
Open water supply stop(s).
 - B. Strainer is clogged.**
Remove, clean, and reinstall strainer. Replace strainer (filter), if needed (refer to page 8)**Solenoid valve DOES NOT produce an audible “CLICK”.**
 - A. Batteries low (battery powered models).**
Replace batteries (refer to battery replacement on page 7).
 - B. Power failure (hardwire models).**
Check power supply.
- 5. Faucet delivers only a slow flow or dribble when sensor is activated.**
Water supply stop(s) are partially closed.
Completely open water supply stop(s).
- 6. Faucet does not stop delivering water or continues to drip after user is no longer detected.**
Faucet is not working properly.
Clean sensor window; if problem persists contact Sloan Tech Support (see below).
- 7. LED indicator blinks RED when faucet is in use.**
Batteries low (battery powered models).
Replace batteries (refer to battery replacement on page 7).
- 8. The water temperature is too hot or too cold on a faucet connected to hot and cold water supply lines.**
 - A. Supply stops are not adjusted properly.**
Adjust supply stops.
 - B. For models with integral side mixing valve—Mixing valve is set improperly for the water temperature desired.**
Rotate mixing valve handle clockwise to decrease water temperature or counterclockwise to increase water temperature.
 - C. Inadequate hot water supply.**
Adjust supply stops.

When assistance is required, please contact Sloan Tech Support at:
1-888-SLOAN-14 (1-888-756-2614)

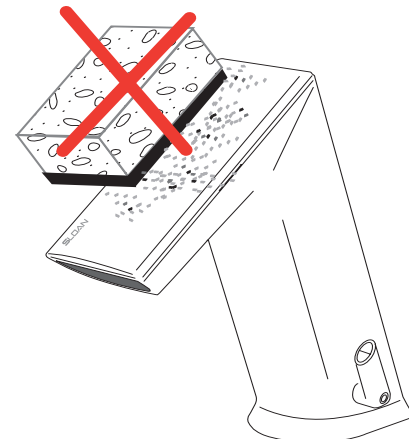
OPERATION

As the user's hands enter the beam's effective sensor range, the beam is reflected back into the sensor receiver and activates the solenoid valve allowing water to flow from the faucet. Water will flow until the hands are removed or until the faucet reaches its automatic time out limit setting, if hands remain in sensor range.



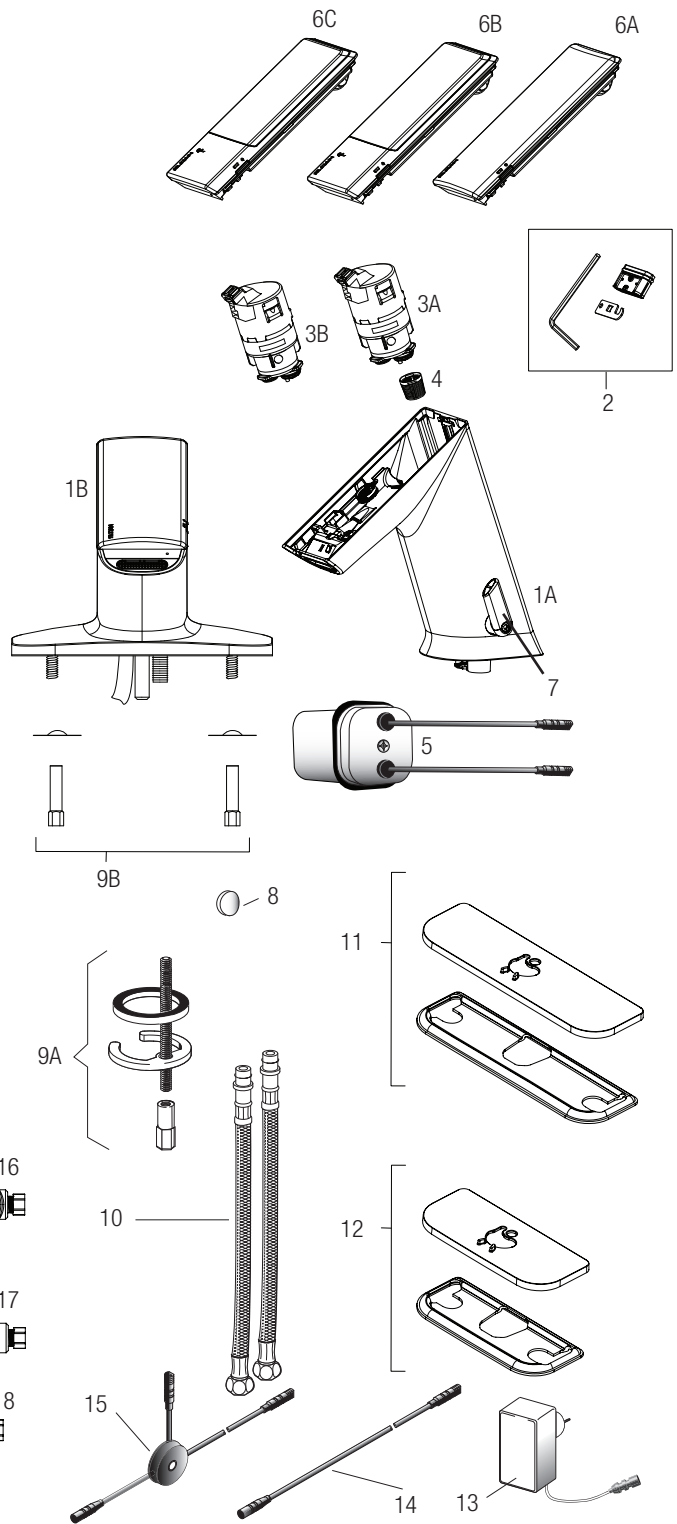
CARE AND CLEANING

DO NOT USE abrasive or chemical cleaners (including chlorine bleach) to clean faucets that may dull the luster and attack the chrome or special decorative finishes. Use **ONLY** mild soap and water, then wipe dry with clean cloth or towel. While cleaning the bathroom sink, protect the faucet from any splattering of cleaner. Acids and cleaning fluids will discolor or remove chrome plating.



PARTS LIST

Item #	Part #	Description
1A	–	Low Pedestal Faucet Assembly*
	–	Low Pedestal Faucet Assembly with Mixer*
1B	–	Low Integrated Base Faucet Assembly†
2	EFX-1002-A	0.5 gpm/1.9 Lpm Multi-Lam insert (includes insert, o-ring, 2.5 mm allen key, and removal tool)
	EFX-1001-A	1.5 gpm/5.7 Lpm Aerated Stream Insert (includes insert, o-ring, 2.5 mm allen key, and removal tool)
	EFX-1000-A	1.5 gpm/5.7 Lpm Laminar Stream Insert (includes insert, o-ring, 2.5 mm allen key, and removal tool)
3A	EFX-37	0.5 gpm/1.9 Lpm Solenoid Valve Caddy Assembly – Low (Green)
3B	EFX-38	1.5 gpm/5.7 Lpm Solenoid Valve Caddy Assembly – Low (Blue)
4	EFX-19	Strainer (Filter)
5	EFX-23-A	Battery Pack Assembly
6A	EFX-1-A	Crown Assembly
6B	EFX-3-A	Solar Crown Assembly
6C	EFX-4-A	Solar Crown with LCD Assembly
7	EFX-24-A	Mixer Handle Assembly (for EFX-3 IR models only)
8	EFX-25	Handle Cap (for EFX-3 IR models only)
9A	EAF-1	Faucet Mounting Kit (for pedestal model only)
9B	EFX-21-A	Faucet Mounting Kit (for integrated base model only)
10	EAF-1008	13" (330 mm) Flexible Supply Hoses (2)
11	EFX-26-A	Base Plate for 8" Centerset Sink
12	EFX-20-A	Base Plate for 4" Centerset Sink
13	EAF-11	Plug-in Voltage Adapter (US)
	EAF-41	Plug-in Voltage Adapter (EU)
	EAF-39	Plug-in Voltage Adapter (UK)
	EAF-37	Box Mount Adapter
14	EAF-24-A	11-13/16" (300 mm) Extension Cable
	EAF-25-A	47-1/4" (1200 mm) Extension Cable
	EAF-17-A	126" (3200 mm) Extension Cable
15	EAF-23-A	Splitter
16	MIX-60-A	Mechanical, Below Deck Mixing Valve
17	MIX-135-A	Thermostatic, Below Deck Mixing Valve
18	ETF-617-A	Bak-Chek Tee



NOTE: If changing flow rate caddy and spray insert must be changed in conjunction.

† Single Supply faucets include Bak-Chek®

* Integral Base model not available with integral to faucet side mixer; single supply faucets include Bak-Chek®

Manufactured by Sloan Valve Company under one or more of the following patents: U.S. Patents. Other Patents Pending. BAK-CHEK®, BASYS™, Any Application. Any Environment.™

The information contained in this document is subject to change without notice.

SLOAN • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-9-VALVE-9 (1-800-982-5839) • Fax: 1-800-447-8329 • www.sloan.com

Water Connects Us®

SLOAN DECK MOUNTED SOAP DISPENSER (ESD-SERIES) INSTALLATION INSTRUCTIONS



ESD-500



ESD-600



ESD-700



ESD-800



ESD-1500



ESD-2000



ESD-2100

Touchfree Counter Mounted System Installation Guide

If there is a dispenser currently installed

- Remove the existing unit, both the above and below counter assemblies
- Clean the counter area where the previous dispenser was located
- Verify the size of the existing counter hole is 15/16" to 1-1/4" in diameter

If there is no hole in the counter

- Prior to drilling, examine below the counter to ensure adequate clearance for the new unit
- Drill a 1" diameter hole in the counter top
- The hole can be drilled to either the right or left of the faucet, ensuring adequate clearance for the below counter assembly
- Clean the counter area where the new hole is located

Prior To Installation

New Soap Dispenser Installation:

- Ensure that dispenser does not interfere with anything above or below the lavatory/counter top area
- Drill a 1" diameter hole in counter top
- Clean area around hole

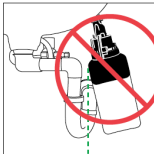
To Order Replacement Soap Cartridges

800.321.9647

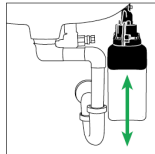
GOJO Industries

Refills are also available through your local plumbing or janitorial supply distributor.

When the soap bottle is empty, a new bottle must be used. The bottle furnished with the unit is not designed to be refilled. Altering the bottle and refilling it with soap will void the warranty of the product.



Improper installation of the Counter Mounted Dispenser could result in breakage.



Proper installation allows the unit to vertically hang beneath the sink.

Dispenser must hang freely underneath the sink.

LIMITED WARRANTY

Unless otherwise noted, Sloan Valve Company warrants its Products to be made of first class materials, free from defects of material or workmanship under normal use and to perform the service for which they are intended in a thoroughly reliable and efficient manner when properly installed and serviced, for a period of three years (1 year for SF Faucets, special finishes and PWT electronics and 30 days on PWT software) from date of purchase. During this period, Sloan Valve Company will, at its option, repair or replace any part or parts which prove to be thus defective if returned to Sloan Valve Company, at customer's cost, and this shall be the sole remedy available under this warranty. No claims will be allowed for labor, transportation or other incidental costs. This warranty extends only to persons or organizations who purchase Sloan Valve Company's products directly from Sloan Valve Company for purpose of resale. This warranty does not cover the life of the batteries.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IN NO EVENT IS SLOAN VALVE COMPANY RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY MEASURE WHATSOEVER.

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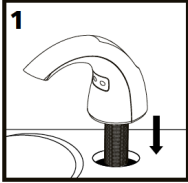
Phone: 1-800-9-VALVE-9 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloan.com

Soap Dispenser Installation

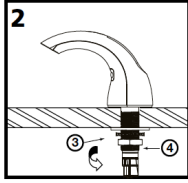
NOTE: ESD-2100 Shown, instructions applicable for all Sloan soap dispensers

Installing the Touchfree Counter Mounted System

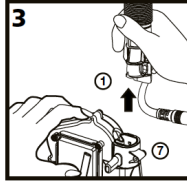
Prior to beginning installation, study the exploded view of the Touchfree Counter-Mounted System and locate all the pieces. Also, look beneath the countertop to a suitable place for mounting of the Battery Box (9) so that it will not interfere with system components or plumbing.



Feed the Data Cable 5a and the shank of the Dispenser Assembly 1 through the hole in the countertop. Point the spout of the Dispenser into the sink bowl.

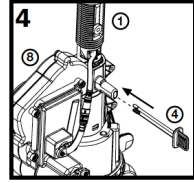


From underneath the counter, feed the Lock Washer 3 and then the Mounting Nut 3a over the Data Cable 5a and onto the threaded shank of the Dispenser Assembly 1. Tighten the nut securely.



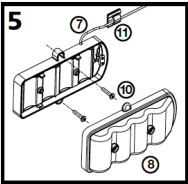
Align the indent inside the top of the Motor Assembly/Bottle Support 7 with the indent on the shank of the Dispenser Assembly 1 and firmly push the Motor Assembly/Bottle Support up, onto the shank.

NOTE: Hold the Data Cable firmly out of the way as you push up on the Motor Assembly/Bottle Support. Continue pushing upward until the vertical slots in the Dispenser shank and the Motor Assembly/Bottle Support line up.

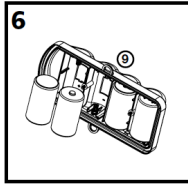


Secure the Motor Assembly/Bottle Support 7 to the Dispenser Assembly 1 shank by pushing the Retaining Clip 4 into place through the vertical slots, until it goes all the way through the Motor Assembly.

NOTE: Motor Assembly Bottle Support will rotate 360° to avoid any obstruction.

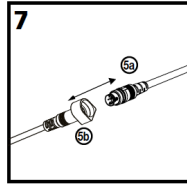


Remove the cover from the Battery Box 8 by loosening the two captive screws on the Battery Box cover. Position the Box on a convenient (vertical or horizontal) surface under the counter top that will allow access for battery changing. Attach the Box to the surface using the two screws 10 and anchors (if attaching to a plaster or masonry surface). Use the Wall Clip 11 to secure the Power Cable to a wall or other under-counter surface if desired.



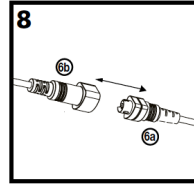
Place four alkaline "D" Cell batteries into the Battery Box 9 cover. The batteries must be positioned according to the diagrams shown on the inside of the cover.

NOTE: If the batteries are not properly installed or the cover is not properly positioned on the Box, the System will not work. Position the cover (with batteries installed) on the Battery Box and tighten the two captive screws.



IMPORTANT: Connect the two halves of the Data Cable 5a and 5b by visually lining up the white stripes on each half and gently pushing the cable connectors together until the stripes touch.

Improperly assembled connectors can cause unit to not function as intended.

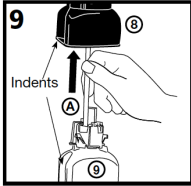


After the batteries are installed in the battery box, connect the two halves of the power cable 6a and 6b. Allow 20 seconds before the system is ready to dispense soap.

Soap Refill Bottle Installation and Removal

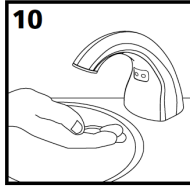
Refill Installation

(refill 9 sold separately)

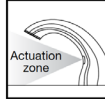


Feed the dispense tube A on the Refill Bottle 9 up through the Motor Assembly/Bottle Support 7 and Dispenser Assembly 1, aligning the two indents in the Bottle and the Support. Slide the Bottle upward until it snaps into place.

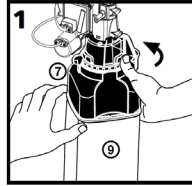
NOTE: The refill is not properly installed until you hear the "snap" (as the Green release latch on the Motor Assembly/Bottle Support 7 engages).



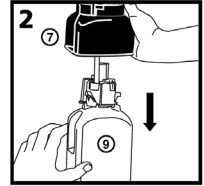
Test the System by passing your hand under the spout of the Dispenser Assembly 1 (in front of the sensor window) at least three or four times, until foam soap appears. If the System does not dispense soap after passing your hand in front of the sensor several times, repeat several more times. If no sound heard from motor assembly after placing hands in front of sensor, check to see that the Data Cable 6 halves are firmly connected, that the batteries are "good", and that the Battery Box 8 cover is properly positioned and fastened to the Box. Check for bent contact pins inside connector 6b. If unit is multi-activating, check for bent contact pins inside connector 6b.



Refill Removal



Grasp the empty Refill Bottle 9 with one hand and use the other hand to push the Green release latch on the Motor Assembly/Bottle Support 7 to the right (counterclockwise as seen from above).



Grasp the empty Refill Bottle 9 with one hand and use the other hand to push the Green release latch on the Motor Assembly/Bottle Support 7 to the right (counterclockwise as seen from above).

Cleaning the Counter Mounted System

Use only mild soap and water to clean the Touchfree Counter Mounted System spout. Cover the sensor window with your thumb while cleaning the spout so that you do not continue to dispense soap.

DO NOT use abrasives to clean the TouchFree Counter-Mounted System (as this may damage the finish or the sensor window).

Soap Replacement

To order replacement soap cartridges:
CONTACT **GOJO** Industries at 800.321.9647
Available refills

ESD-321 8565-02-N6300GN: 1500 ml Green Certified Foam Refill (2 Pack)

ESD-322 8545-04-N6300GN: 2300 ml Green Certified Foam Refill (4 Pack)

ATTENTION: do not handle by tube. For proper operation, ensure that tubing is not loose or bent.

