BERL'S COMMERCIAL **BERLS.COM** (800) 409-3131 Any Application. BASY Any Environment.™ Water Connects Us® INSTALLATION INSTRUCTIONS FOR ELECTRONIC **INFRARED SENSOR ACTIVATED LAVATORY FAUCETS**



EFX-1XX SERIES



EFX-2XX SERIES

Code No. 0816408

Rev. 9 (01/24

MODEL GUIDE OR BUILD YOUR FAUCET ONLINE AT WWW.SLOAN.COM

E	FX				-		_0		-	0				
		Body Type	Power	Crown		Mix	Sensing	Flow Rate		Batteries	Base	Adapters	Drain Den Un	

_		Body Type	Power	Crown	•	Mix	Sensing	Flow Rate	•	Batteries	Base Plate	Adapters	Drain Pop-Up
	D	_	Hardwire	Bowed		None	Active IR	0.5 gpm (1.9 Lpm) Multi-Lam Spray Insert		Alkaline	None	None	No
	1	High	_	-		Below Deck, Mechanical	-	_		_	4-inch	US Plug-in	Yes
:	2	Mid	_	-		Below Deck, Thermostatic	_	1.5 gpm (5.7 Lpm) Aerated Insert		_	8-inch	UK Plug-in	-
:	3	_	_	_		_	-	1.5 gpm (5.7 Lpm) Laminar Insert		_	-	EU Plug-in	_
4	4	_	-	-		_	-	-		-	-	Box Mount	-
	5	_	Battery	Solar		Integral Side Mixer	_	_		-	-	-	_
	6	_	-	-	•	-	-	_	•	_	-	-	_
	7	-	Solar	Solar w/LCD		_	-	_		-	-	_	_
8	B	-	Turbine	_		_	_	_		_	_	_	_

Choose one from each column.

SLOAN® LIMITED WARRANTY SUMMARY

Sloan Valve Company ("Sloan"), warrants its products against defects in materials and workmanship, excluding damage caused by matters beyond Sloan's reasonable control. Instructions for filing claims can be found in the Limited Warranty which can be obtained at www.Sloan.com or by requesting a free copy by telephone at 888.756.2614. Sloan will repair or replace your defective product, or provide a refund, as your exclusive remedy. This is only a general summary of Sloan's Limited Warranty so it is important to note that the specific terms, conditions, limitations and exclusions, including the duration of warranty coverage for your particular Sloan product, are contained in the actual Sloan Limited Warranty. The Limited Warranty is subject to applicable laws in your country, state, province or other jurisdiction-and disputes arising under the Limited Warranty are to be resolved by binding arbitration unless you provide Sloan with an opt-out notice no later than 30 days after your purchase date. In case of a conflict with this summary, the terms and conditions set forth in the complete Limited Warranty will prevail.

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PRIOR TO INSTALLATION

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

- Lavatory/sink
- Drain line
- Hot and cold water supply lines or pre-tempered water supply line **IMPORTANT:**
- ALL PLUMBING SHOULD BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- FLUSH ALL WATER LINES PRIOR TO MAKING CONNECTIONS.

TOOLS REQUIRED FOR INSTALLATION

- 2.5 mm allen key for removing crown
- 5/8" open end wrench for U.S. hose fittings

FAUCET ROUGH-IN

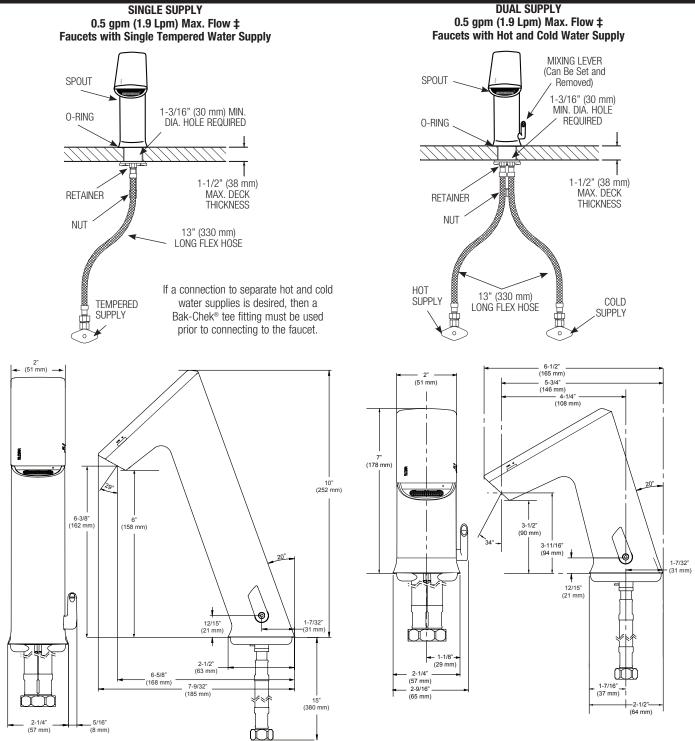


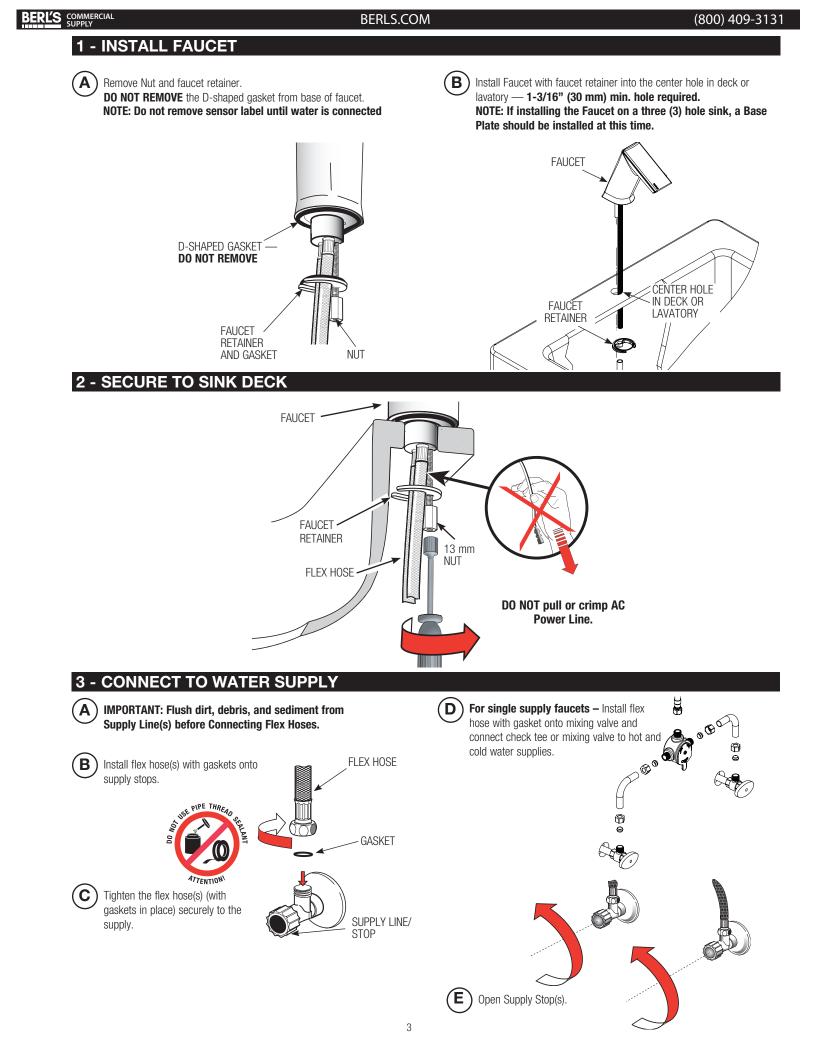
Base Plates

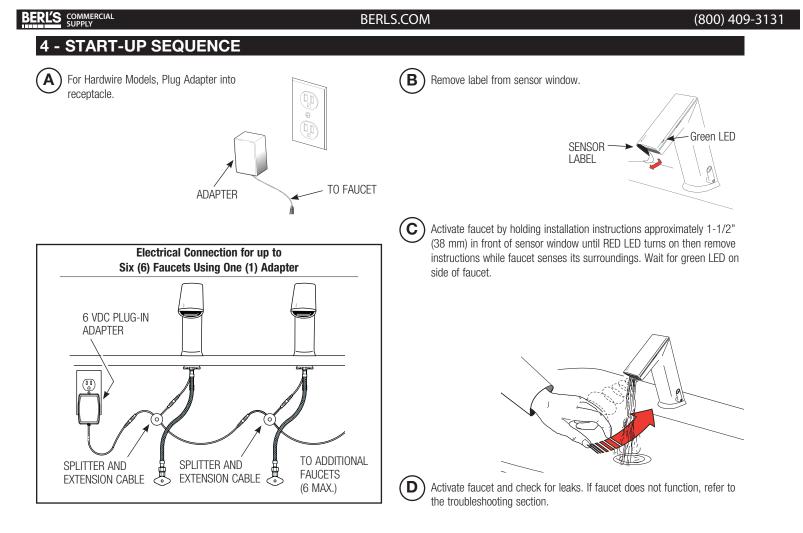
When the BASYSTM Faucet is installed on a sink that has three (3) hole punchings, a Base Plate should be used. **Base Plates should be specified at time of ordering.**

EFX-20-A Base Plate for 4" (102 mm) Centerset Sink **EFX-26-A** Base Plate for 8" (203 mm) Centerset Sink

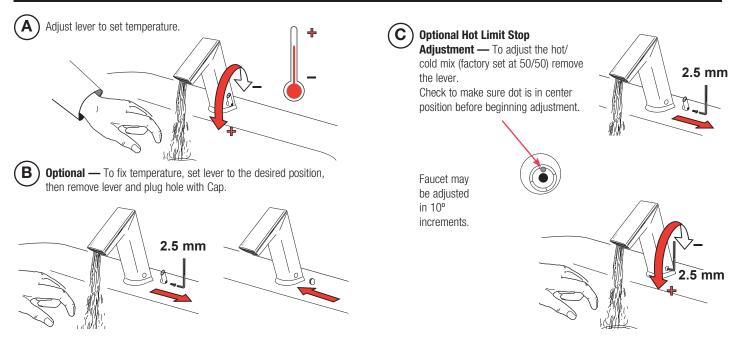
- 3/4" open end wrench for International hose fittings
- 13 mm socket or nut driver for mounting nut



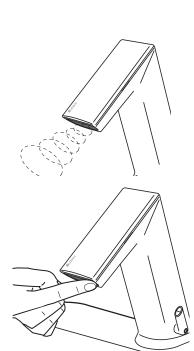




5 - SET AND FIX TEMPERATURE AND ADJUST HOT LIMIT STOP



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 6.	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.

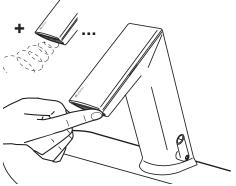
Default purge duration is two minutes.

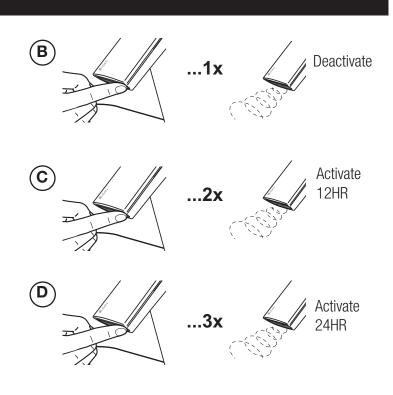
Consult factory regarding other timing options.



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.



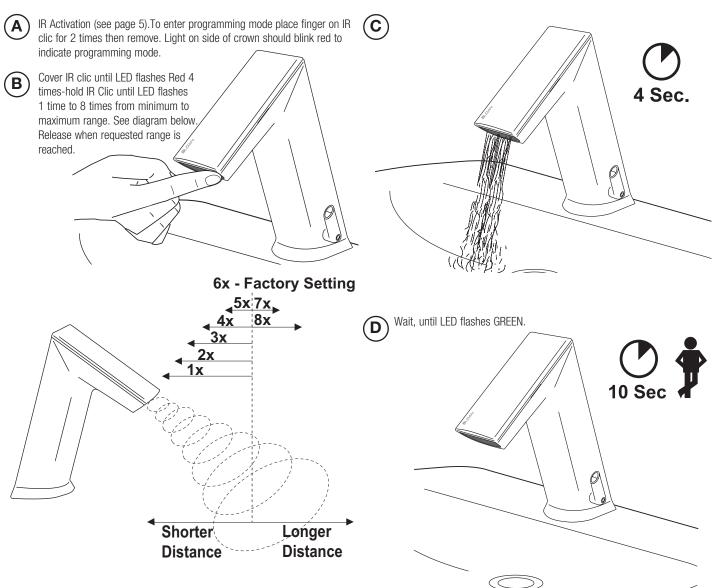




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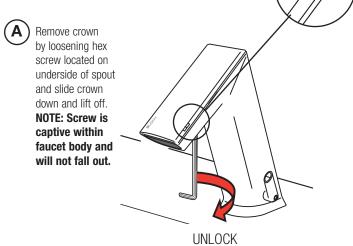
SENSOR RANGE ADJUSTMENT





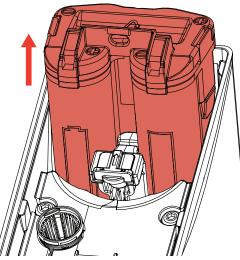
BATTERY REPLACEMENT

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.



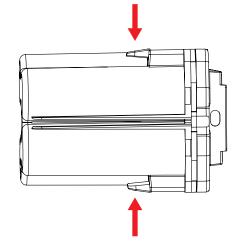
B

Remove battery pack assembly by lifting out of spout.



NOTE: Turbine faucet looks slightly different.

C Open battery pack assembly by pushing in tabs on side of assembly.



D Remove all four (4) AA-cell batteries from battery pack.

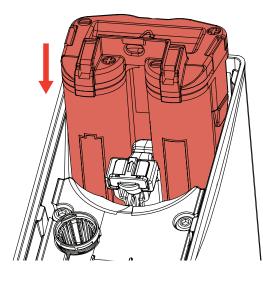
Insert four (4) NEW AA-cell batteries into battery pack assembly cartridge. **NOTE: Insure batteries are installed with proper polarity. The cover of the case indicates polarity of batteries. Improper polarity will not harm the faucet. Improper polarity will cause the faucet not to operate.**





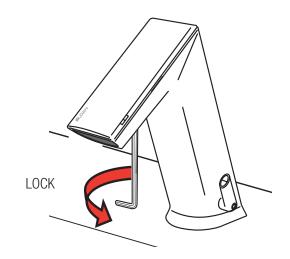
Έ

Replace cover of the battery pack assembly and reinsert assembly into faucet.



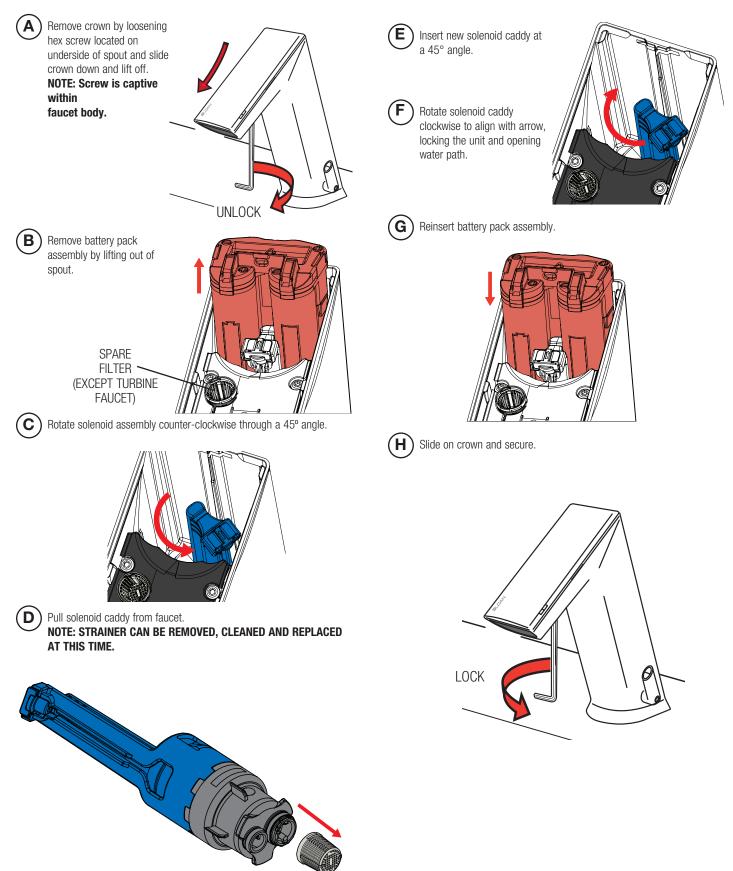


Slide on crown and secure.



REPLACING THE SOLENOID/FILTER

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

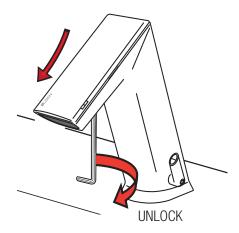


REPLACE SPRAY INSERT

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

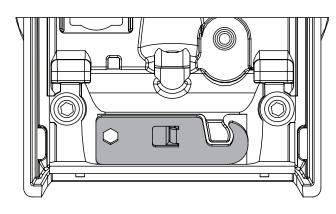
Remove crown by loosening hex screw located on underside of spout and slide crown down and lift off.

NOTE: Screw is captive within faucet body.

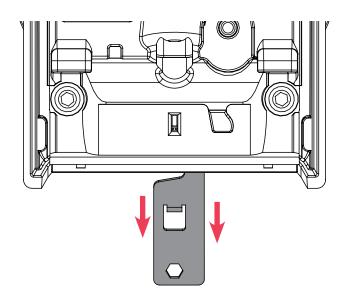




Retrieve spray removal tool located near the spray insert.

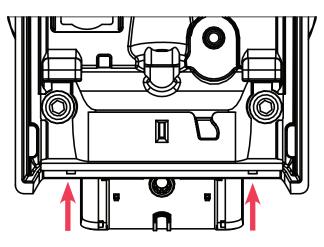


C Insert spray removal tool into spray slot by sliding hook end of key between faucet spout and insert. Pull insert out of faucet once hooked.



(D) Install new insert.

NOTE: If changing to a different flow rate solenoid caddy must also be changed.

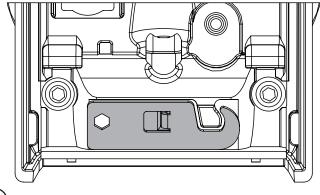




Return spray removal tool to storage location.

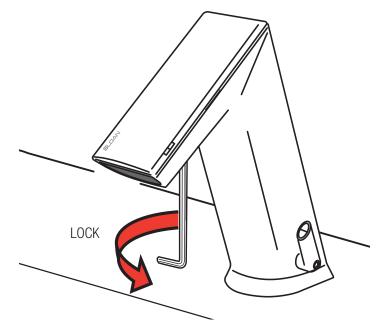
NOTE: This can only be done once spray head is installed. This will lock the spray head in place.

NOTE: If spray head is inserted incorrectly – key will not lock in properly. Turn faucet on to push insert out and re-install.





Slide on crown and secure.



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B

UPGRADE FAUCET FUNCTIONALITY



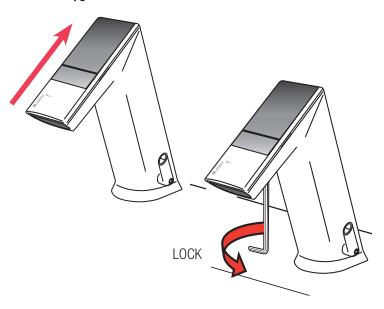
Remove crown by loosening hex screw located on underside of spout and slide crown down and lift off.

NOTE: Screw is captive within faucet body.

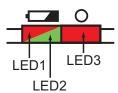


Place new crown on faucet by sliding onto spout and tightening hex screw on underside of spout.

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 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

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TROUBLESHOOTING GUIDE

1. Red LED in spout does not blink 2 sec 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 continually not working contact Sloan's Tech Support Department.

- 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.

- 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.

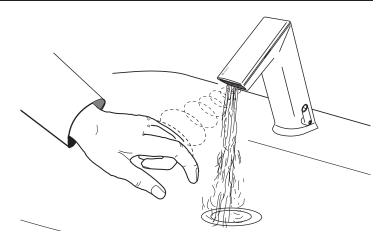
Clean sensor window. If continually now working contact Sloan's Technical Support Department (see below).

- 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 Technical Support at: 1-888-SLOAN-14 (1-888-756-2614)

OPERATION

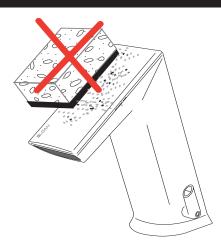
As the user's hands enter the beam's effective sensor range, the beam is reflected back into the sensor receiver and activates the solenoid valve allowing water to flow from the faucet. Water will flow until the hands are removed or until the faucet reaches its automatic time out limit setting, if hands 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 tile, protect the Faucet from any splattering of cleaner. Acids and cleaning fluids will discolor or remove chrome plating.



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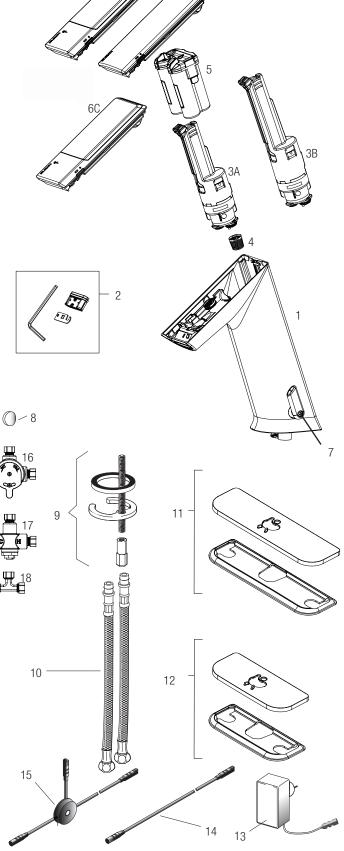
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6B

6A

PARTS LIST

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



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.

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