

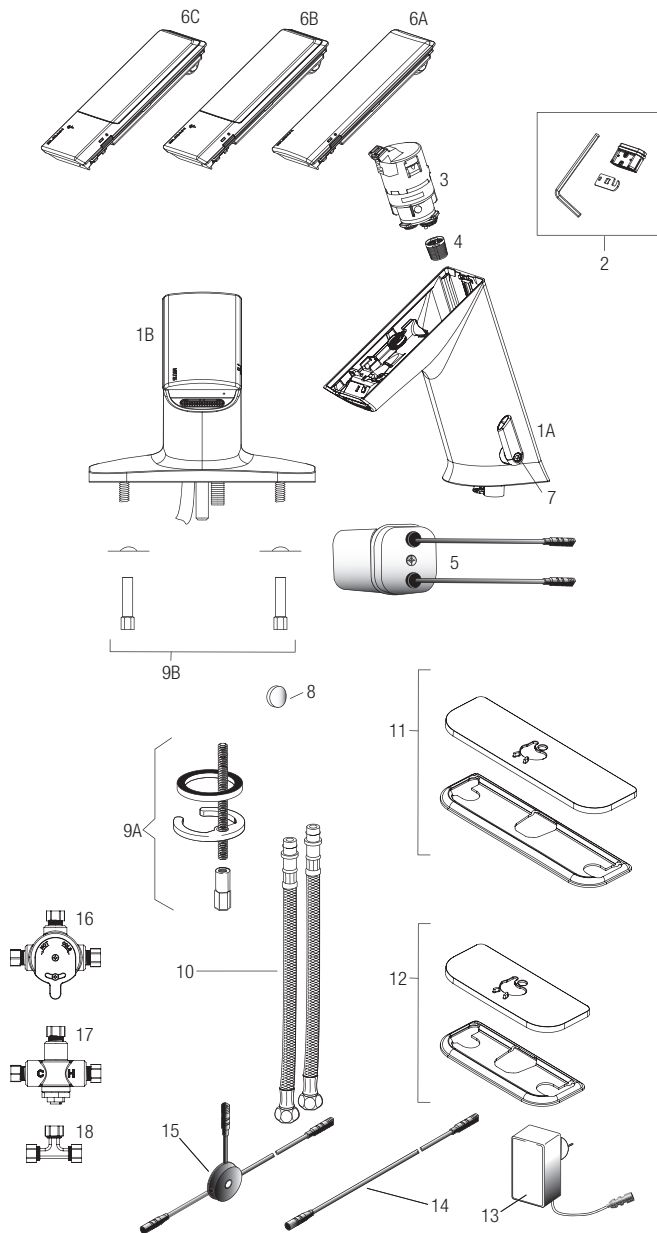
BASYS® Faucet

Infrared Sensor Activated



EFX-3XX SERIES

EFX-6XX SERIES



PARTS LIST—BASYS FAUCETS

Item No.	Code No.	Part No.	Description
1A.	—	—	Low Pedestal Faucet Assembly*
	—	—	Low Pedestal Faucet Assembly with Mixer*
1B.	—	—	Low Integrated Base Faucet Assembly†
2.	3324104	EFX-1002-A	0.5 gpm/1.9 Lpm Multi-Lam Spray Head (includes insert, o-ring, 2.5 mm allen key, and removal tool)
	3324103	EFX-1001-A	1.5 gpm/5.7 Lpm Aerated Stream Insert (includes insert, o-ring, 2.5 mm allen key, and removal tool)
	3324102	EFX-1000-A	1.5 gpm/5.7 Lpm Laminar Stream Insert (includes insert, o-ring, 2.5 mm allen key, and removal tool)
3.	—	EFX-37	0.5 gpm/1.9 Lpm Solenoid Valve Caddy Assembly — Low (Green)
	—	EFX-38	1.5 gpm/5.7 Lpm Solenoid Valve Caddy Assembly — Low (Blue)
4.	0324019	EFX-19	Strainer (Filter)
5.	3324117	EFX-23-A	Battery Pack Assembly
6A.	3324118	EFX-1-A	Crown Assembly
6B.	3324119	EFX-3-A	Solar Crown Assembly
6C.	3324120	EFX-4-A	Solar Crown with LCD Assembly
7.	—	—	Mixer Handle Assembly (for EFX-3 IR models only)
8.	—	EFX-25	Handle Cap (for EFX-3 IR models only)
9A.	0335000	EAJ-1	Faucet Mounting Kit (for pedestal model only)
9B.	—	EFX-21-A	Faucet Mounting Kit (for integrated base model only)
10.	3335023	EAJ-1008	13" (330 mm) Flexible Supply Hose (1)
11.	3324101	EFX-26-A	Trim Plate for 8" Centerset Sink
12.	3324100	EFX-20-A	Trim Plate for 4" Centerset Sink
13.	0335009	EAJ-11	Plug-in Voltage Adapter (US)
	0335041	EAJ-41	Plug-in Voltage Adapter (EU)
	0335039	EAJ-39	Plug-in Voltage Adapter (UK)
	0335037	EAJ-37	Box Type Voltage Adapter
14.	0335024	EAJ-24-A	11-13/16" (300 mm) Extension Cable
	0335025	EAJ-25-A	47-1/4" (1200 mm) Extension Cable
	0335015	EAJ-17-A	126" (3200 mm) Extension Cable
15.	0335023	EAJ-23-A	Splitter
16.	3326009	MIX-60-A	Mechanical, Below Deck Mixing Valve
17.	0326045	MIX-135-A	Thermostatic, Below Deck Mixing Valve
18.	3365461	ETF-617-A	Bak-Chek Tee

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

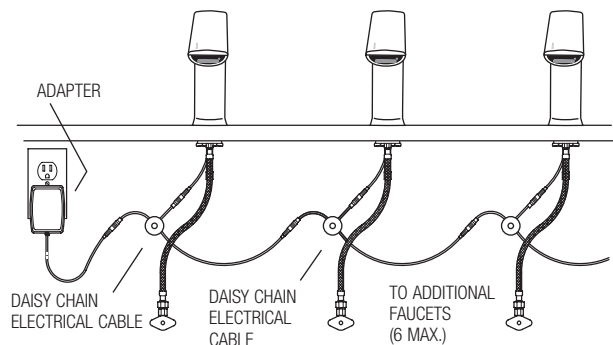
† Single Supply faucets include Bak-Chek®

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

— in Item No. column = Not shown in illustration

— in Code No. and Part No. column = Not sold separately

Electrical Connection for up to Six (6) Faucets Using One (1) Adapter



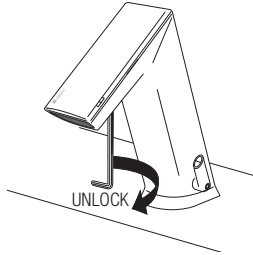
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REPLACING THE SOLENOID STRAINER (FILTER)

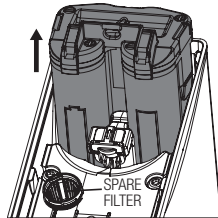
NOTE: Turning off water is not necessary, due to integrated automatic stop valve.

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

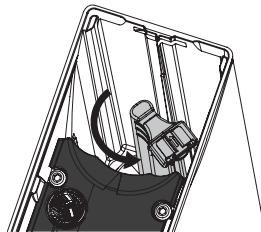
NOTE: Screw is captive within faucet body and will not fall out.



Remove battery pack assembly by lifting out of spout.

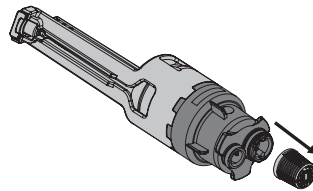


Rotate solenoid assembly counter-clockwise through a 45° angle.



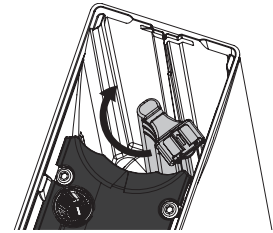
Pull solenoid caddy from faucet.

NOTE: STRAINER (FILTER) CAN BE REMOVED, CLEANED AND REPLACED AT THIS TIME.

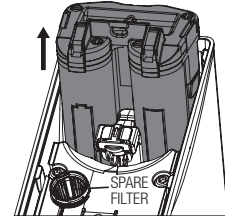


Insert new solenoid caddy at a 45° angle.

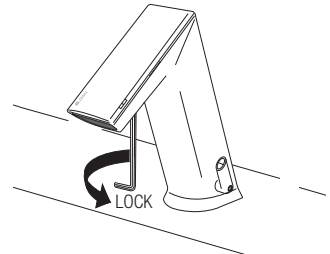
Rotate solenoid caddy clockwise to align with arrow, locking the unit and opening water path.



Reinsert battery pack assembly.



Slide on crown and secure.



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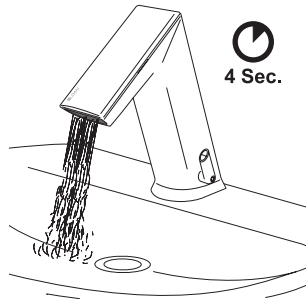
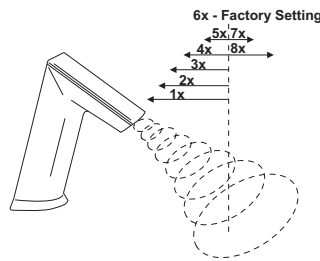
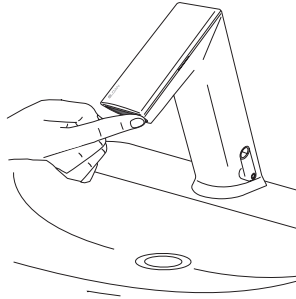
SENSOR RANGE ADJUSTMENT

Factory setting is appropriate for the majority of applications and should not require resetting unless under extreme situations.

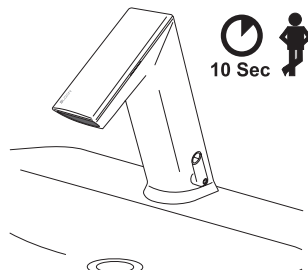
IR Activation

To enter programming mode place finger on IR clic 2 times then remove. Light on side of crown should blink red to indicate programming mode.

Cover IR clic until LED flashes 4x - hold on until LED flashes 1x to 8x, from minimum to maximum range. See diagram below. Release when requested range is reached.



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.

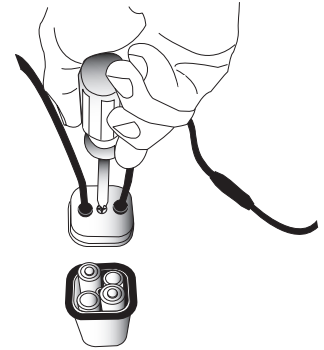
Loosen cover screw and remove cover from battery pack.

Install four (4) AA-size batteries (supplied) as indicated by the (+) and (-) symbols inside the battery compartment.

Replace battery pack lid and tighten with screwdriver.

NOTE: Make sure 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.

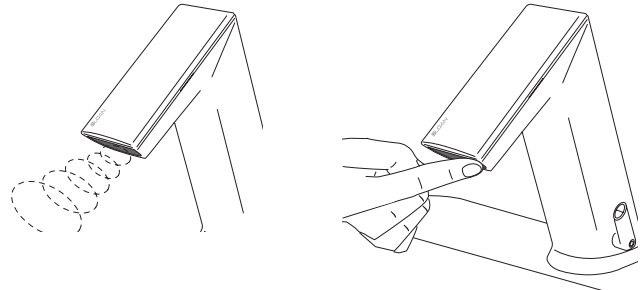
*Replace all at once.



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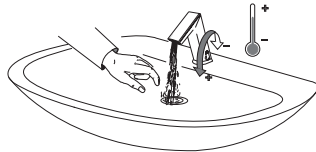
OPERATION

As the user's hands enter the beam's effective 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.

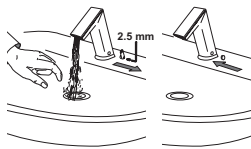


SET AND FIX TEMPERATURE AND ADJUST HOT LIMIT STOP

Adjust lever to set temperature.

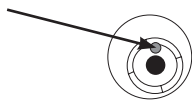


OPTIONAL – To fix temperature, set lever to the desired position, then remove lever and plug hole with cap.



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.



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 130.	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.

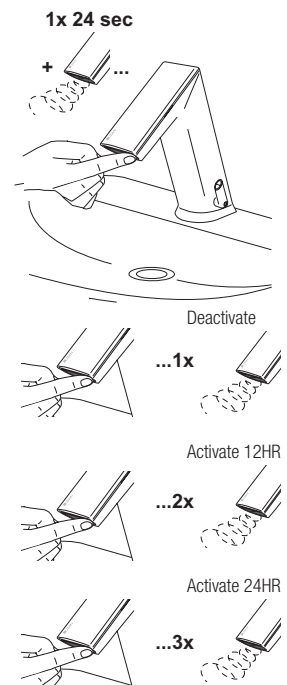
12/24 LINE PURGE FEATURE

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.

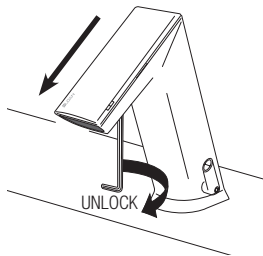


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UPGRADE FAUCET FUNCTIONALITY

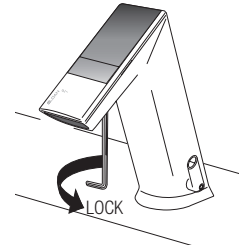
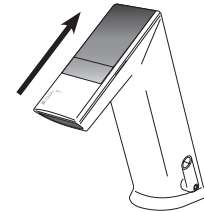
Remove crown by loosening hex screw located on underside of spout and slide crown down and lift off.

NOTE: Screw is captive within faucet body and will not fall out.

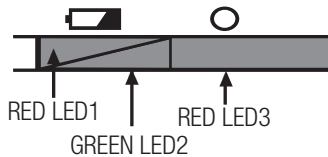


Place new crown on faucet by sliding onto spout and tightening hex screw on underside of spout.

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



RED **GREEN** COLOR LEDs BLINKING

RED **GREEN** COLOR LEDs ON

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



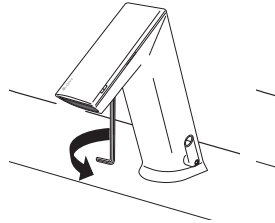
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REPLACING THE SOLENOID STRAINER (FILTER)

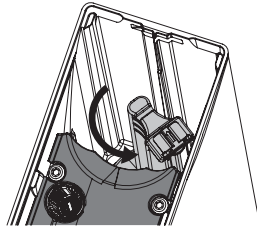
NOTE: Turning off water is not necessary, due to integrated automatic stop valve.

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 and will not fall out.

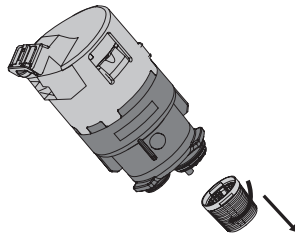


Rotate solenoid assembly counter-clockwise through a 45° angle.



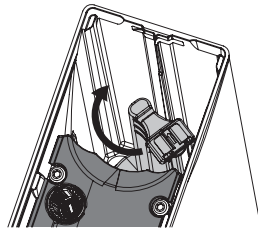
Pull solenoid caddy from faucet.

NOTE: Strainer can be removed, cleaned and replaced at this time.

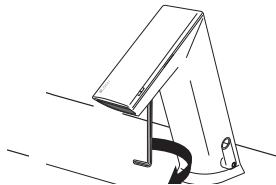


Insert new solenoid caddy at a 45° angle.

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



Slide on crown and secure.

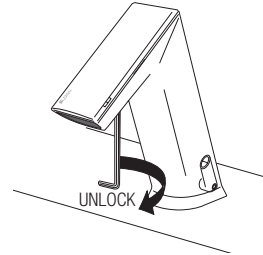


REPLACE SPRAY INSERT

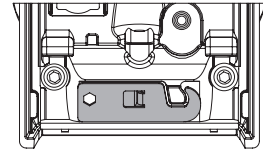
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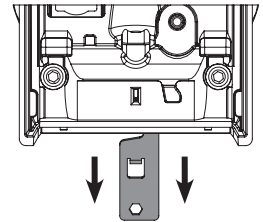
NOTE: Screw is captive within faucet body and will not fall out.



Retrieve spray removal tool located near the spray insert.

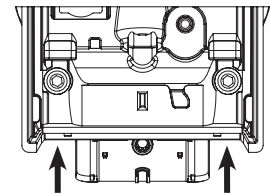


Insert spray removal tool into spray slot by sliding hook end of key between faucet spout and insert. Pull insert out of faucet once hooked.



Install new insert.

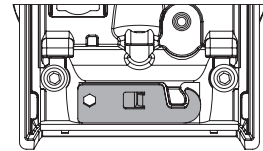
NOTE: If changing to a different flow rate solenoid caddy must be changed in conjunction.



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.

