

INSTALLATION INSTRUCTIONS FOR OPTIMA SENSOR ACTIVATED LAVATORY FAUCETS WITH THE OPTIMA CONTROL BOX

DECK MOUNTED OPTIMA FAUCETS



ETF-410 Mid-height, hardwired
EBF-415 Mid-height, battery
Part of the Clark Street Collection®



ETF-420 Mid-height, hardwired
EBF-425 Mid-height, battery
Part of the Rush Street Collection®



ETF-600 Low-height, hardwired
EBF-650 Low-height, battery



ETF-610 Low-height, hardwired
EBF-615 Low-height, battery



ETF-660 Low-height, hardwire with side sensor
EBF-665 Low-height, battery w/side sensor



ETF-80 Mid-height, hardwired
EBF-85 Mid-height, battery
Part of the Halsted Street Collection®



ETF-880 Mid-height, hardwired
EBF-187 Mid-height, battery

GOOSENECK DECK MOUNTED OPTIMA FAUCETS



ETF-770 Hardwired with side sensor
EBF-775 Battery with side sensor



ETF-700-S Hardwired with surgical bend
EBF-750-S Battery with surgical bend



ETF-700 Hardwired
EBF-750 Battery



ETF-500 Hardwired
EBF-550 Battery



ETF-500-S Hardwired with surgical bend
EBF-550-S Battery with surgical bend



ETF-800 Hardwired
EBF-850 Battery



ETF-810 Hardwired/**EBF-815** Battery
Part of the Clark Street Collection®



ETF-820 Hardwired/**EBF-825** Battery
Part of the Rush Street Collection®

WALL MOUNTED OPTIMA FAUCETS

CONTROL BOX FOR ALL FAUCETS



Control Box w/o Turbine
EFP-39-A (Grey Cover)
EFP-39-A-SMT (Blue Cover)



Control Box w/ 0.5 gpm Turbine
EFP-40-A



Control Box w/ 1.5 gpm Turbine
EFP-11-A

TABLE OF CONTENTS

• Prior To Install.....	2.	• Deck Mounted Rough-in	4.
• Mixing Valve Installation	2.	• Wall Mounted Rough-in.....	5.
• Important	2.	• Dimensional Data	5.
• Quick Connect Tee.....	2.	• Troubleshooting Instructions	7.
• Tools Required.....	2.	• Care and Cleaning Instructions.....	8.

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.

PRIOR TO INSTALLATION

Prior to installing the Sloan Optima Faucet, install the items listed below. Also, refer to component dimensions on pages 6 through 9.

- Lavatory/sink
- Drain line
- Hot and cold water supply lines or pre-tempered water supply line

MIXING VALVE

When installing the faucet with a Sloan mixing valve, these Installation Instructions AND the Installation Instructions packaged with the mixing valve **MUST** be followed.

IMPORTANT

- **ALL PLUMBING SHOULD BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.**
- **DO NOT USE ANY PIPE SEALANT OR TAPE ON ANY FAUCET CONNECTIONS OR THREADED FITTING CONNECTING WITH GASKETS, O-RINGS, OR FERRULE COMPRESSION CONNECTIONS. MODELS ETF500/EBF550 USES (1) ONE PIPE THREAD FITTING INTO THE SPOUT SHANK; THIS IS THE ONLY THREAD TO USE PIPE SEALANT OR TAPE - ONLY ON THE PIPE THREAD END OF THE FITTING. KEEP SEALANT AWAY FROM LEAD THREAD EDGE TO PREVENT COMPONENT DAMAGE.**
- **KEEP THREAD SEALANT OUT OF YOUR WATERWAY TO PREVENT COMPONENT PART DAMAGE! DO NOT USE ANY SEALANT ON COMPRESSION FITTINGS.**

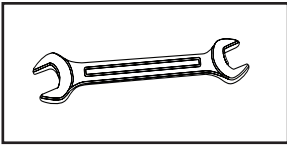
QUICK CONNECT BAK CHEK® FILTER TEE USAGE

A QUICK CONNECT BAK-CHEK® FILTER TEE MUST BE USED WITH EACH INSTALLATION.

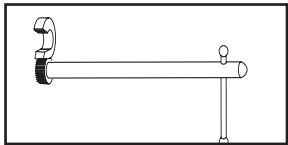
When connecting a Sloan Optima Faucet to both hot and cold water supplies, a two inlet Quick Connect Bak-Chek® Filter Tee is provided and required as illustrated. Water temperature can be controlled by adjusting the supply stops. When connecting the faucet to a single line water supply or a pre-tempered water supply, a single inlet Quick Connect Bak-Chek® Filter Tee must be used. A Quick Connect Bak-Chek® Filter Tee must also be used when a Temperature Mixing Valve is included with the faucet.

TOOLS REQUIRED FOR INSTALLATION

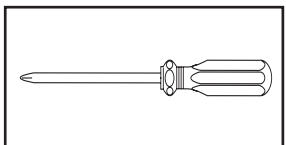
Gather the required tools and parts before starting installation. Additional parts may be required, depending on your installation. Check local codes. Check existing electrical supply.



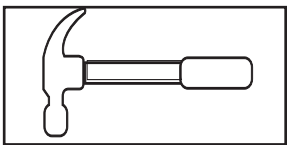
1. Open end wrenches for hex sizes: 1/2", 9/16", 5/8", 15/16"



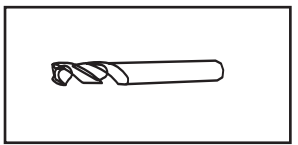
2. Basin wrench



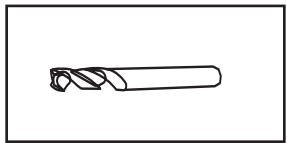
3. Phillips head screwdriver, #2



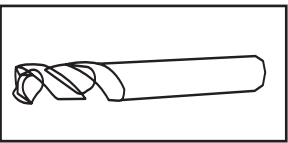
4. Hammer (if installing plastic or hollow wall anchors to mount valve module)



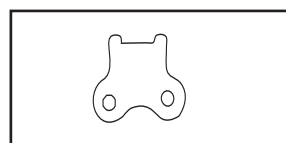
5. 1/4" drill bit (if plastic wall anchors are used to mount valve module)



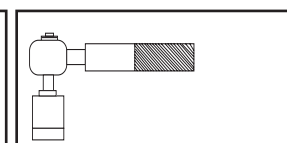
6. 5/16" drill bit (if hollow wall anchors are used to mount valve module)



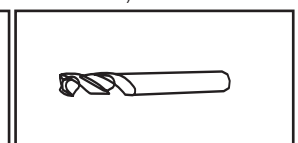
7. 3/8" drill bit (if toggle nut anchors are used to mount valve module)



8. Spray head key (supplied with some models)



9. 13 mm Socket



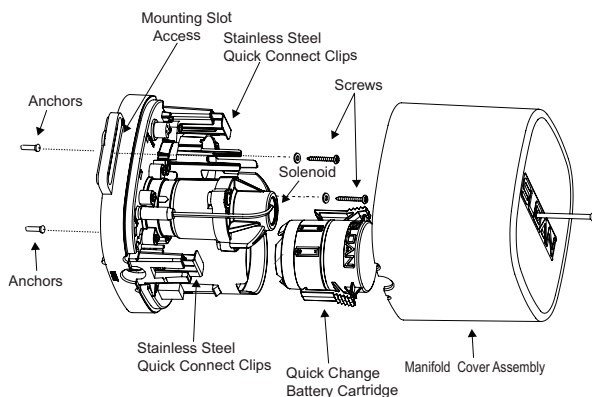
10. 3/4" Wood bit (for Rush/Clark)

11. 3/4" Mason bit (for Rush/Clark)

12. 3/16" Mason bit (for Rush/Clark)

13. 1/8" bit (for Rush/Clark)

MANIFOLD INSTALLATION



A. Ensure there is enough clearance for the flexible supply hose from the spout to connect to the control module

B. Note: for SMT Modules (Blue Cover) only: Document the Serial number and token number on the battery pack in writing or by taking a photo.

C. Secure control module to wall using the included mounting accessories. The control module must be mounted on a level vertical surface with the Sloan logo on the manifold facing outwards on the top right side of the manifold. Do not mount the manifold in any other position.

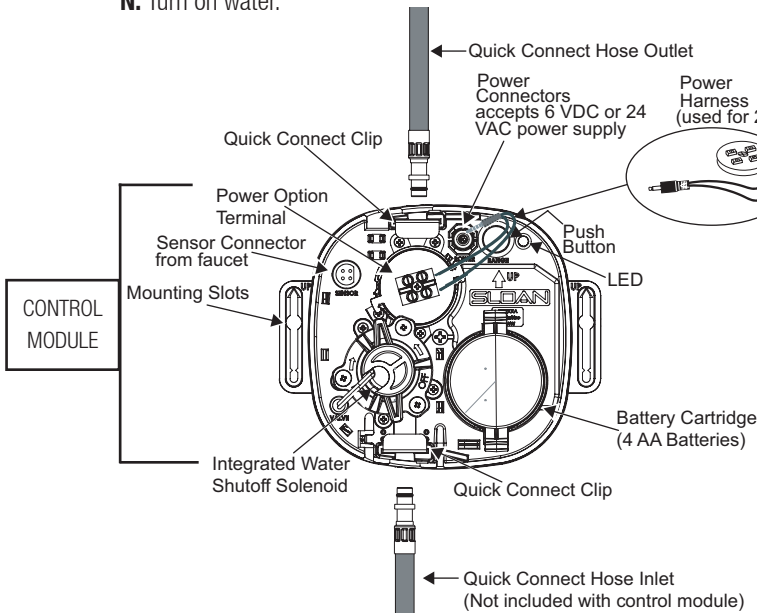
D. Insert the flexible supply hose from the bottom of the spout into the top of the mounted manifold. Insert the Filter "T" fitting into the bottom of the mounted manifold. Ensure that the stainless steel clips on both the top and bottom of the manifold are secured.

NOTE: NEVER OPEN STAINLESS STEEL CLIPS WHEN WATER SUPPLY IS TURNED ON.

MANIFOLD INSTALLATION - CONTINUED

NOTE: FOR UNITS WITH TURBINES, USE ONLY 0.5GPM / 1.9 LPM CONTROL BOXES WITH SPOUTS RATED FOR THE SAME FLOW AND USE ONLY 1.5 GPM / 5.7 LPM CONTROL BOXES WITH SPOUTS RATED FOR THAT SAME FLOW. DO NOT USE THESE CONTROL BOXES ON ANY OTHER FLOW RATES. CONTROL BOXES WITHOUT TURBINES MAY BE USED WITH ANY SPOUT UP TO 2.2 GPM / 8.3 LPM

- E.** Connect water supply lines from the stops to the Filter "T" fitting. If a mixing valve is being used, connect water supply lines to the mixing valve. Connect the mixing valve to the single inlet filter tee using the supplied fitting.
- F.** Attach sensor cable and solenoid cable to the appropriate connections on the manifold.
- G.** Insert the battery assembly.
- H.** This unit can use 4 (AA) batteries alone, or accept 6 VDC or 24 VAC power to function as a hardwired unit with battery back up. SMT models requires use of a Transformer, batteries are for back-up power only.
- I.** If a 6 VDC plug-in transformer is used, plug it into the appropriate connection on the manifold to convert the faucet into a "plug-in with battery back-up".
- J.** If 24 VAC hardwires are being used, use the supplied power harness adapter to connect the wires to the appropriate connection on the manifold.
- K.** If the unit contains an optional turbine, connect the plug from the turbine assembly into the appropriate connection on the manifold.
- L.** If ganging multiple units in a "daisy chain" configuration to a single power supply use the SFP35 gang adapter kit.
- M.** Inspect and tighten all connections. Place the manifold cover onto the unit.
- N.** Turn on water.



Transformers

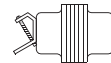
SFP-6 / 120V/6VDC



SFP-36 / 110V/240 VAC/6VDC



EL-248-40 / 120/24 VAC (Box Mount)



ETF-233 / 120/24 VAC Plug-in



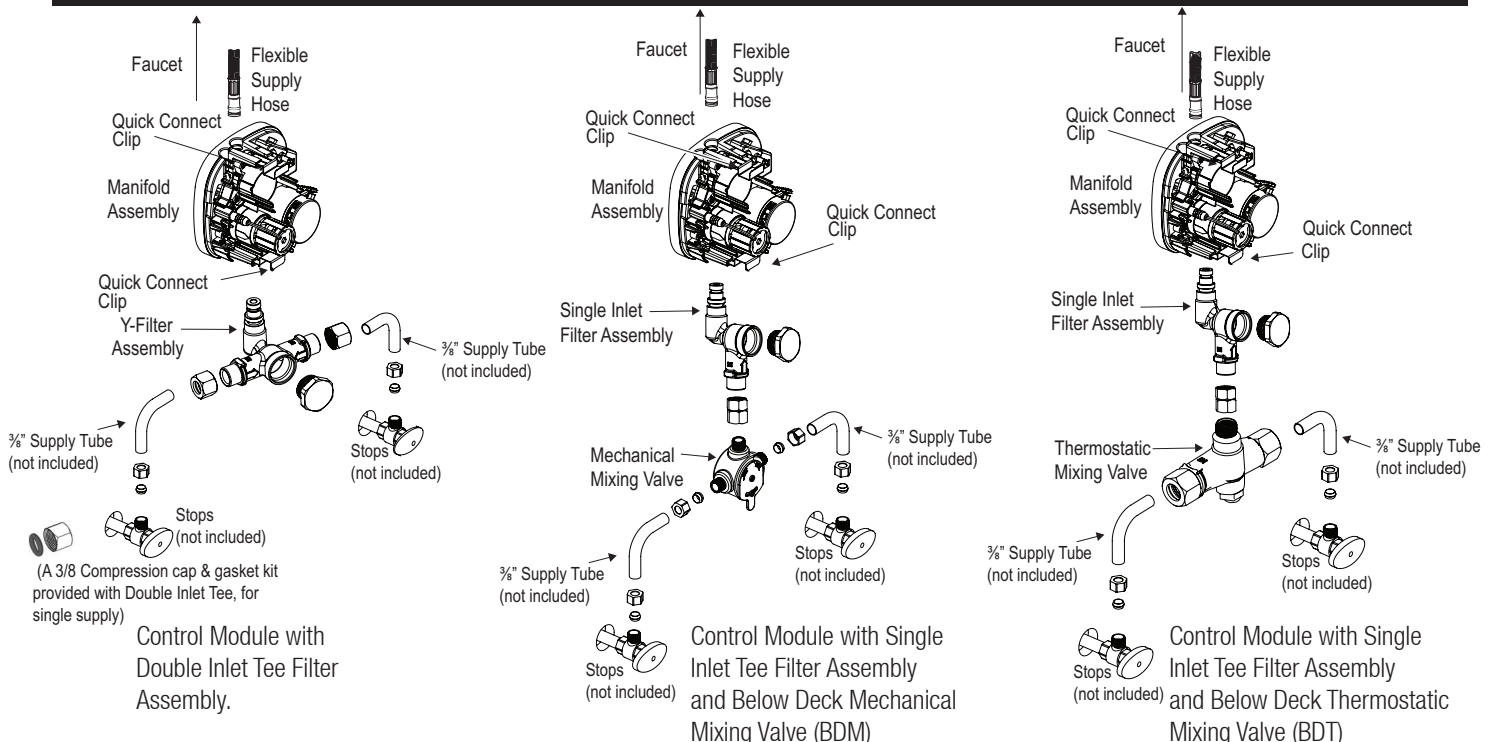
ETF-416 / 120/24 VAC Plug-in (Canada)



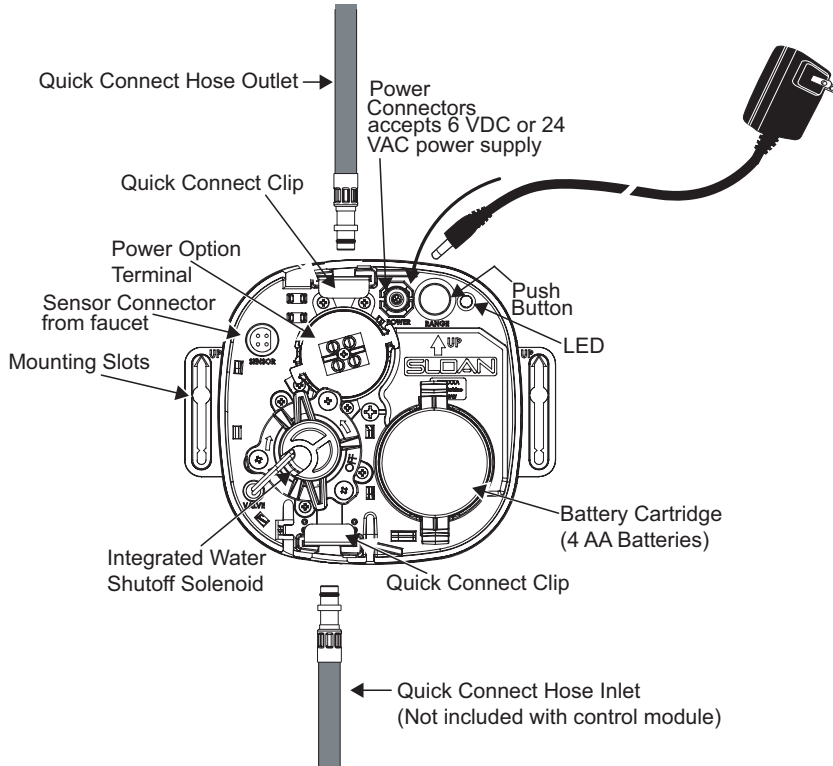
Per UL requirement: transformers used must be UL Listed **Class 2** transformers

FOR OTHER CONFIGURATIONS USING FILTER ASSEMBLY-SEE BELOW

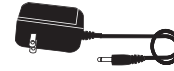
BELOW DECK CONFIGURATION



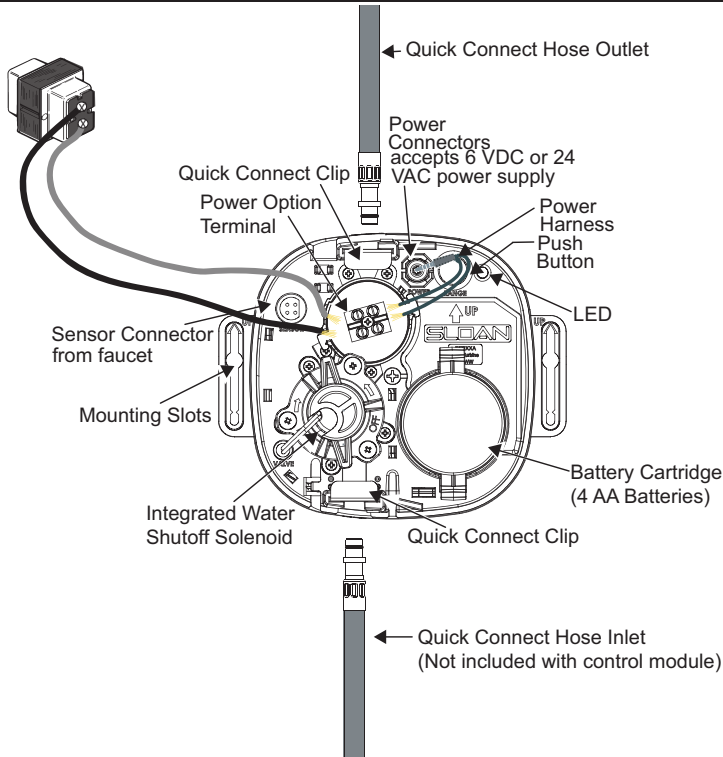
POWER OPTION 1



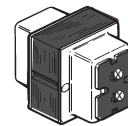
POWER OPTION 1
SFP-6 (included with -PLG models)
 120 VAC/6 VDC
 ADAPTER CONNECTION



POWER OPTION 2

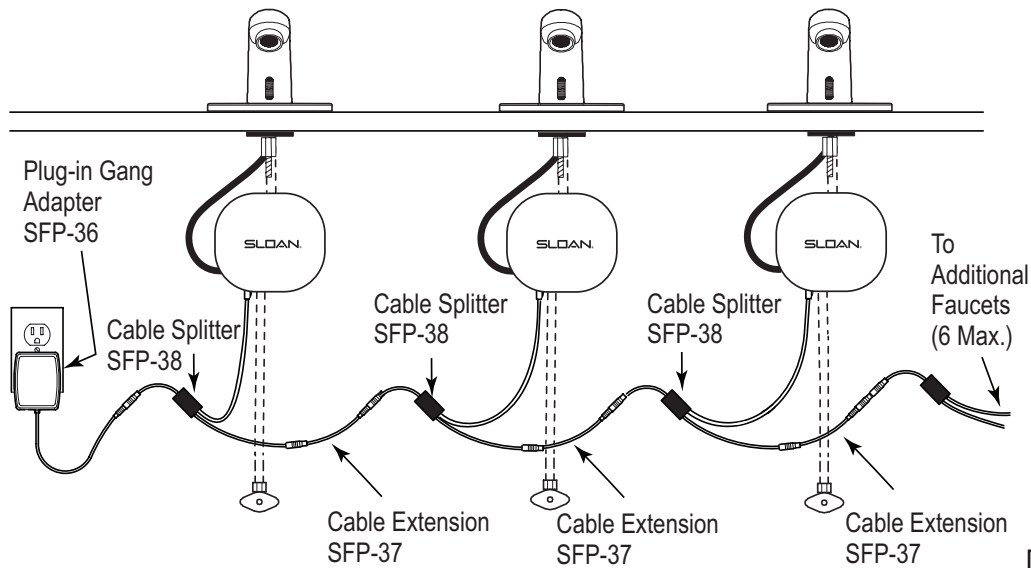


POWER OPTION 2
EL-248-40 (included with -BOX models)
 120 VAC/24 VAC
 POWER TRANSFORMER
 CONNECTION USING EFP-98
 POWER HARNESS



FOR SMT PRODUCTS, IT IS RECOMMENDED TO CONNECT NO MORE THAN 4 FAUCETS. SMT PRODUCTS REQUIRE THE USE OF A TRANSFORMER, AND BATTERIES ARE FOR BACK-UP ONLY.

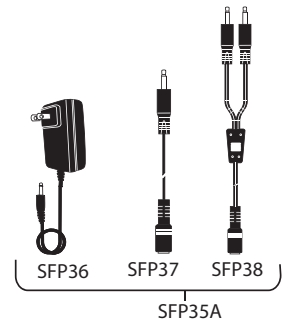
POWER OPTION 3



POWER OPTION 3

SFP-35

100-240 VAC/6 VDC (US Plug)
GANG ADAPTER CONNECTION



To connect multiple faucets to a single adapter, use the Sloan SFP-35-A Gang Adapter Kit (Purchase Separately).

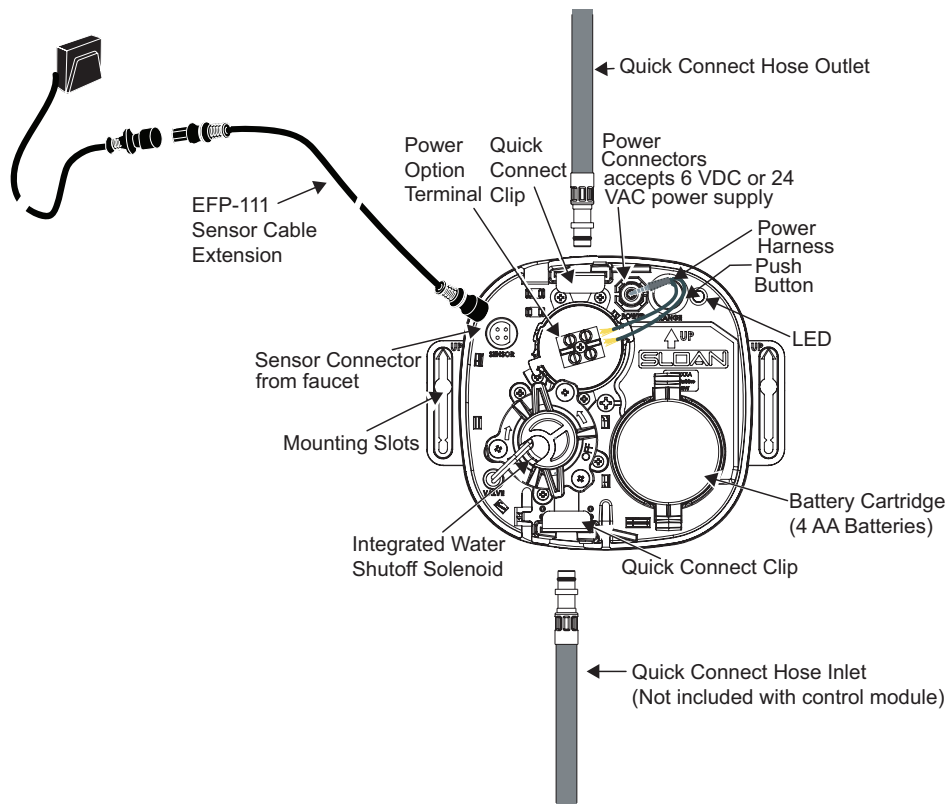
The SFP-35-A Gang Adapter Kit is supplied with cables to connect up to 6 faucets. To connect up to 8 faucets, purchase 2 additional SFP-38 Cable Splitters separately. Connect the Adapter and Cables to the Sensor Faucets as shown above.

For complete installation, refer to instructions packaged with Gang Adapter Kit.

SFP-35-A Gang Adapter Kit is only available with 2 prong US plug transformer (non-polarity).

FOR SMT PRODUCTS, IT IS RECOMMENDED TO CONNECT NO MORE THAN 4 FAUCETS. SMT PRODUCTS REQUIRE THE USE OF A TRANSFORMER, AND BATTERIES ARE FOR BACK-UP ONLY.

SENSOR CONNECTION OPTION

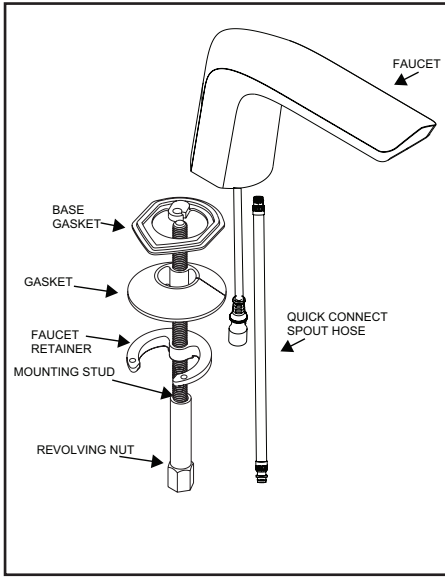


EFP-113 Sensor Cable Extension (118" Long)

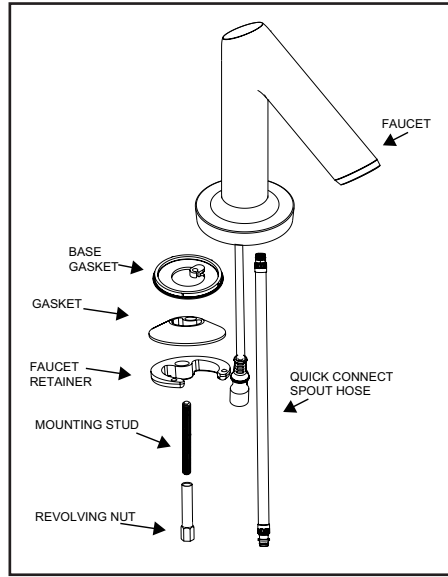
FOR CONTROL BOX LOCATED FAR FROM FAUCET (not required on all applications)

EFP-113 SENSOR CABLE EXTENSION ONLY FOR ETF500/700/800, EBF550/750/850 FAUCETS. LONGER 3/8 COMPRESSION SUPPLY REQUIRED FROM SPOUT TO MODULE HOSE (NOT PROVIDED BY SLOAN)

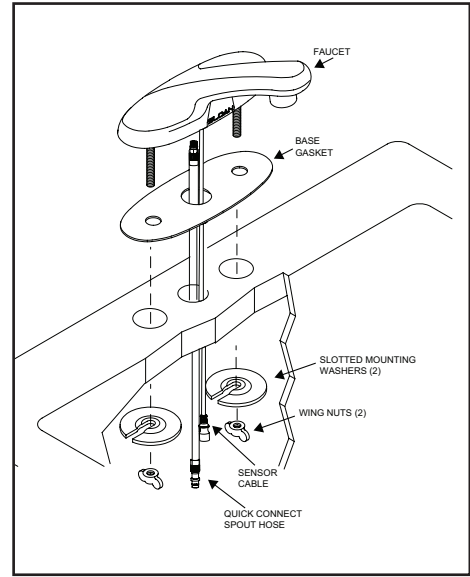
DECK MOUNTED INSTALLATIONS



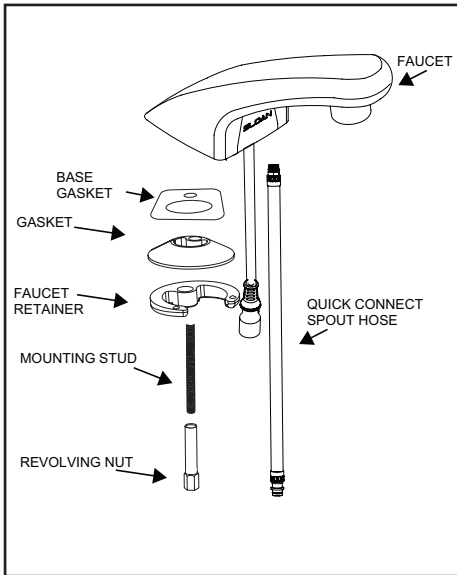
ETF-410 Mid-height, hardwired
EBF-415 Mid-height, battery



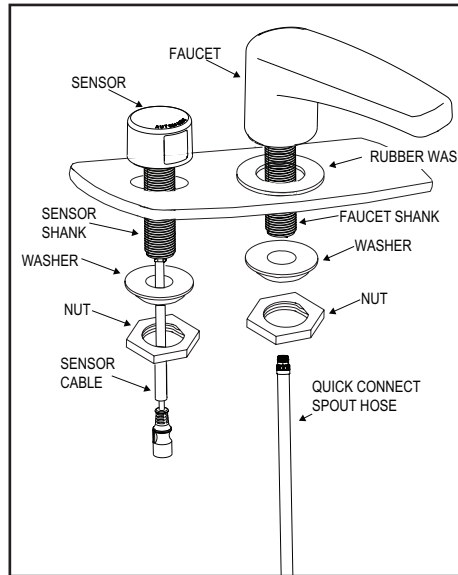
ETF-420 Mid-height, hardwired
EBF-425 Mid-height, battery



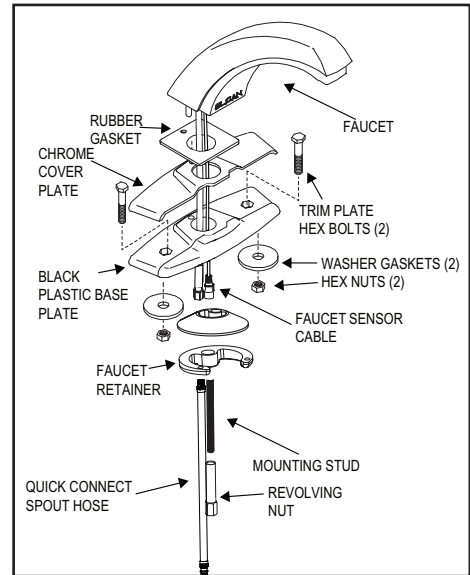
ETF-600 Low-height, hardwired
EBF-650 Low-height, battery



ETF-610 Low-height, hardwired
EBF-615 Low-height, battery

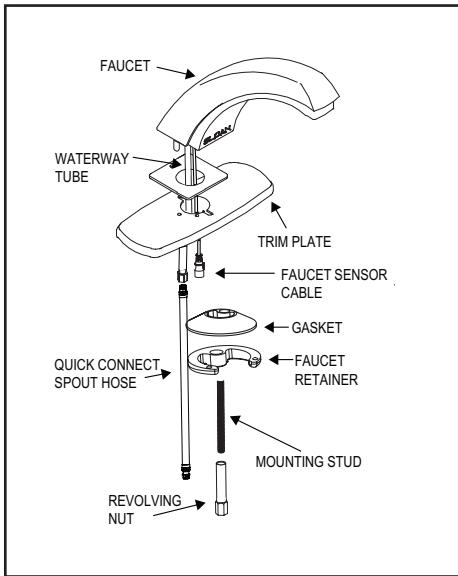


ETF-660 Low-height, hardwire with side sensor
EBF-665 Low height, battery with side sensor

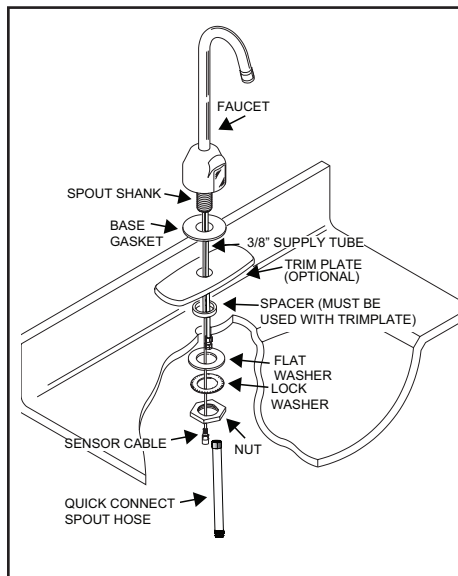


ETF-80 Mid-height, hardwired
EBF-85 Mid-height, battery

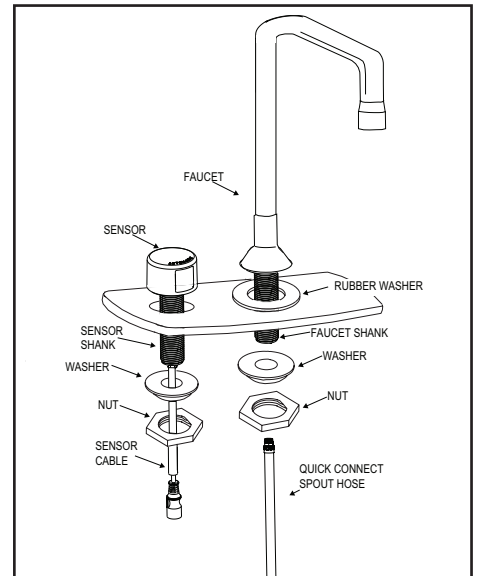
DECK MOUNTED INSTALLATIONS



ETF-880 Mid-height, hardwired
EBF-187 Mid-height, battery

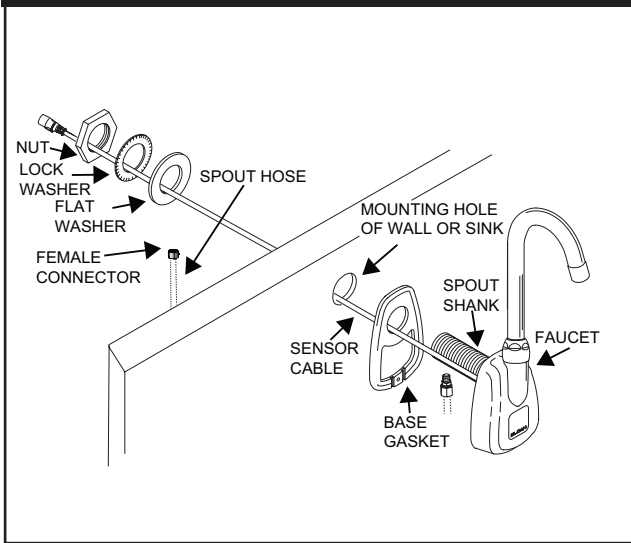


ETF-700 Hardwired
ETF-700-S Hardwired
EBF-750 Battery
EBF-750-S Battery

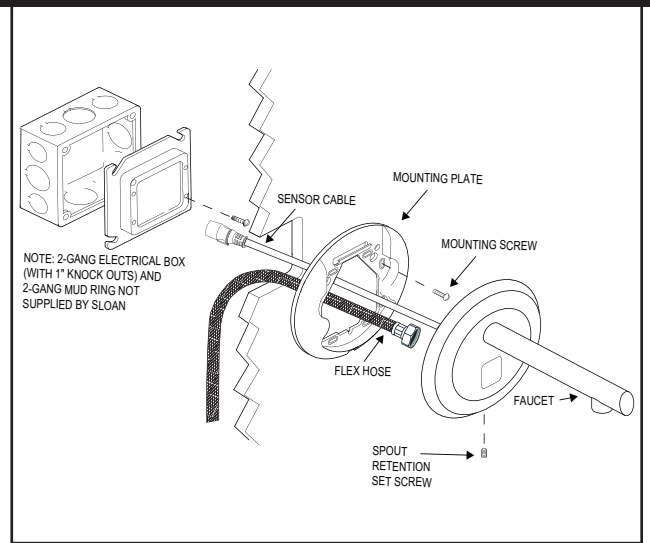


ETF-770 Hardwired with side sensor
EBF-775 Battery with side sensor

WALL MOUNTED INSTALLATIONS

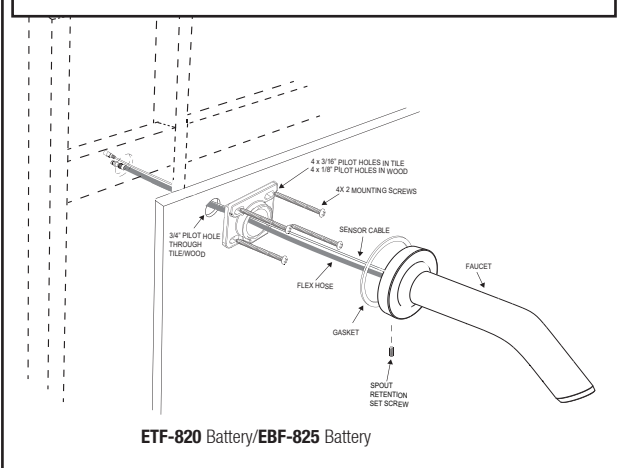


ETF-500 Hardwired / **ETF-500-S** Hardwired
EBF-550 Battery / **EBF-550-S** Battery



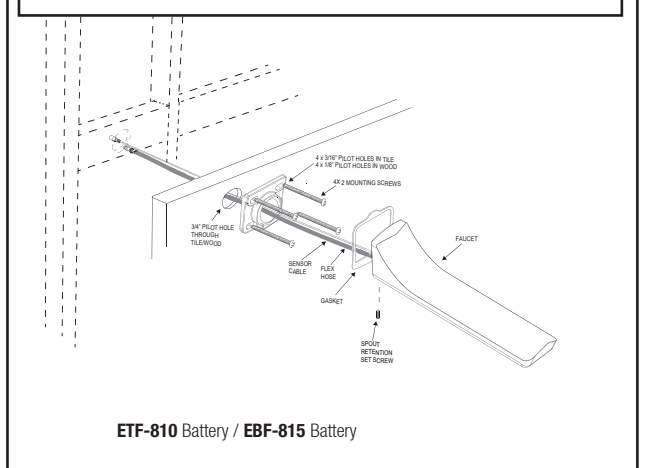
ETF-800 Hardwired
EBF-850 Battery

2x4 or 2x6 Cross member Substrate behind plywood backed tile mounting surface required - not used may result in faucet pull-out or damage. Drywall not to be used as tile backing.




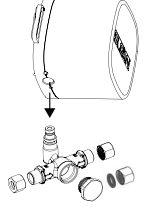
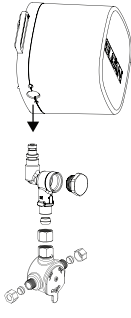
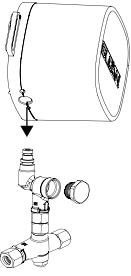
ETF-820 Battery/**EBF-825** Battery

2x4 or 2x6 Cross member Substrate behind plywood backed tile mounting surface required - not used may result in faucet pull-out or damage. Drywall not to be used as tile backing.

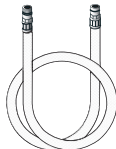



ETF-810 Battery / **EBF-815** Battery

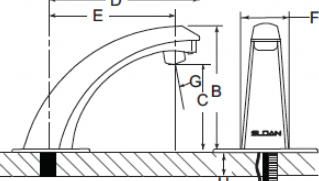
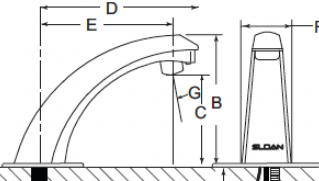
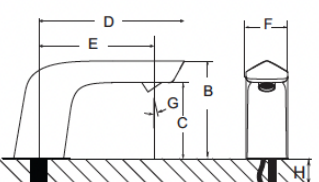
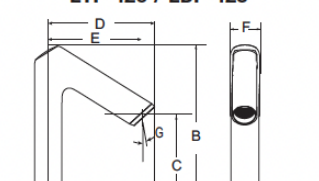
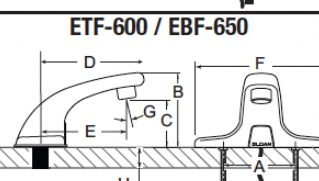
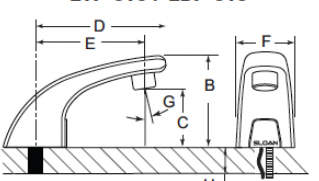
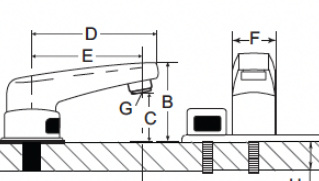
BELOW DECK CONTROL ROUGH-IN DIMENSIONS

OPTIMA CONTROL BOX	MODEL IMAGE	HEIGHT	WIDTH	DEPTH
OPTIMA CONTROL BOX		5" (127 mm)	6" (163 mm)	4 1/2" (115 mm)
OPTIMA CONTROL BOX WITH DOUBLE INLET FILTER TEE (A 3/8 Compression cap & gasket kit provided with Double Inlet Tee, for single supply)		6 1/4" (159 mm)	6" (153 mm)	4 1/2" (115 mm)
OPTIMA CONTROL BOX WITH SINGLE INLET FILTER TEE AND BDM (MIX60)		10 1/8" (258 mm)	6" (153 mm)	4 1/2" (115 mm)
OPTIMA CONTROL BOX WITH SINGLE INLET FILTER TEE AND BDT (MIX35)		10 3/4" (274 mm)	6" (153 mm)	4 1/2" (115 mm)

QUICK CONNECT HOSE/SENSOR CABLE LENGTHS

	QUICK CONNECT SPOUT HOSE LENGTH	SENSOR CABLE LENGTH
		
DECK MOUNTED MODELS	24" (610 mm)	28" (711 mm)
WALL MOUNTED MODELS	36" (914 mm)	36" (914 mm)

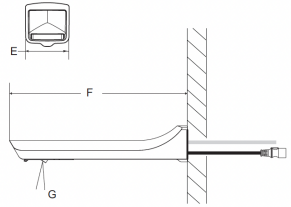
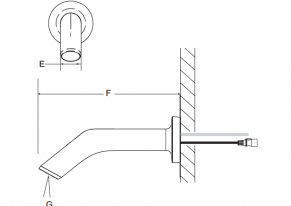
DECK MOUNTED FAUCET MODEL ROUGH-IN DIMENSIONS (WITHOUT TRIM PLATE)

	A	B	C	D	E	F	G	H
FAUCET MODEL	MOUNTING	HEIGHT 1 (DECK TO TOP OF SPOUT)	HEIGHT 1 (DECK TO CENTER OF SPRAYHEAD)	PROJECTION 1 (CENTERLINE OF FAUCET TO END OF SPOUT)	PROJECTION 2 (CENTERLINE OF FAUCET TO CENTER OF SPRAYHEAD)	WIDTH (OF FAUCET)	SPRAY ANGLE (DEGREES)	MAX. DECK THICKNESS
 <p>ETF-80 / EBF-85</p>	Single Hole 1-1/4" to 1-1/2" (32 to 38 mm) OR 4" Centerset, (3-hole) 1-3/16"	5-3/4" (146 mm)	4-1/4" (108 mm)	6-1/2" (165 mm)	5-1/8" (130 mm)	2" (51 mm)	12°	1-1/2" (38 mm) (1-1/8" with trim plate)
 <p>ETF-880 / EBF-187</p>	Single Hole 1-1/4" to 1-1/2" (32 to 38 mm)	5-3/4" (146 mm)	4-1/4" (108 mm)	6-1/2" (165 mm)	5-1/8" (130 mm)	2" (51 mm)	12°	1-1/2" (38 mm) (1-1/8" with trim plate)
 <p>ETF-410/EBF-415</p>	Single Hole 1-1/4" to 1-1/2" (32 to 38 mm)	4-1/2" (114 mm)	3-1/2" (89 mm)	6-1/2" (165 mm)	5-1/2" (140 mm)	2" (51 mm)	34°	1-1/2" (38 mm) (1-1/8" with trim plate)
 <p>ETF-420 / EBF-425</p>	Single Hole 1-3/16"	7" (178 mm)	4" (102 mm)	5.183" (132 mm)	4.69" (119 mm)	Spout: 1/33" (34 mm) Base: 2-5/8" (66 mm)	30°	1-1/2" (38 mm) (1" with trim plate)
 <p>ETF-600 / EBF-650</p>	4" or 8" Centerset, (3-hole) 1-1/4" to 1-1/2"	3-5/8" (92 mm)	2-3/16" (56 mm)	4-1/2" (114 mm)	4-1/2" (114 mm)	6-5/16" (160 mm)	12°	1-3/4" (44 mm)
 <p>ETF-610 / EBF-615</p>	Single Hole 1-1/4" to 1-1/2" OR 4" Centerset 3-hole	3-1/2" (89 mm)	2-1/12" (64 mm)	4-1/2" (114 mm)	4-1/2" (114 mm)	2-3/16" (56 mm)	12°	1-3/4" (44 mm)
 <p>ETF-660 / EBF-665</p>	4" or 8" Centerset, 1-1/4" to 1-1/2"	3-3/4" (95 mm)	2-1/4" (57 mm)	5-1/4" (133 mm)	5-1/4" (133 mm)	1-1/2" (38 mm)	5°	1-3/4" (44 mm)

GOOSENECK DECK MOUNTED / WALL MOUNTED FAUCET MODEL ROUGH-IN DIMENSIONS WITHOUT TRIM PLATE

FAUCET MODEL	A	B	C	D	E	F	G	H
	MOUNTING	HEIGHT 1 (DECK TO TOP OF SPOUT)	HEIGHT 1 (DECK TO CENTER OF SPRAYHEAD)	PROJECTION 1 (CENTERLINE OF FAUCET TO END OF SPOUT)	PROJECTION 2 (CENTERLINE OF FAUCET TO CENTER OF SPRAYHEAD)	WIDTH (OF FAUCET)	SPRAY ANGLE (DEGREES)	MAX. DECK THICKNESS
<p>ETF-770 / EBF-775</p>	Single Hole 4" or 8" Centerset, 1-1/4" to 1-1/2"	9-3/4" (248 mm)	5-1/2" (140 mm)	6-1/8" (156 mm)	5-1/2" (140 mm)	Faucet: 1" (25 mm) Base: 2" (50 mm)	0°	1-1/2" (38 mm)
<p>ETF-700 / EBF-750</p>	Single Hole 4" or 8" Centerset, 1-1/4" to 1-1/2"	10-1/4" (260 mm)	6-1/4" (159 mm)	5-1/4" (133 mm)	4-1/2" (115 mm)	1/2" (13 mm)	15°	1-1/2" (38 mm)
<p>ETF-700-S / EBF-750-S</p>	Single Hole 4" or 8" Centerset, 1-1/4" to 1-1/2"	12-1/4" (311 mm)	6-7/8" (175 mm)	9-1/2" (241 mm)	8-7/16" (215 mm)	1/2" (13 mm)	5°	1-1/2" (38 mm)
<p>ETF-500 / EBF-550</p>	Single Hole 1"	To be determined by installer	6-1/8" (156 mm)	4-9/16" (116 mm)	4-1/4" (108 mm)	1/2" (13 mm)	15°	N/A
<p>ETF-500-S / EBF-550-S</p>	Single Hole 1" Panel Mount: 5/8"	To be determined by installer	6-3/4" (171 mm)	8-3/16" (208 mm)	7-1/8" (156 mm)	1/2" (13 mm)	5°	N/A
<p>ETF-800 / EBF-850</p>	4" Electrical Box & Plaster Ring OR 2-1/2" Hole for Mounting Bracket	To be determined by installer	6-23/32" (170 mm)	6" (152 mm)	7-1/8" (156 mm)	1" (25 mm)	0°	N/A

DECK MOUNTED FAUCET MODEL ROUGH-IN DIMENSIONS (WITHOUT TRIM PLATE)

FAUCET MODEL	A	B	C	D	E	F	G	H
	HEIGHT 1 (DECK TO TOP OF SPOUT)	HEIGHT 1 (DECK TO CENTER OF SPRAYHEAD)	PROJECTION 1 (CENTERLINE OF FAUCET TO END OF SPOUT)	WIDTH (OF FAUCET)	LENGTH (OF FAUCET)	SPRAY ANGLE (DEGREES)	MAX. DECK THICKNESS	
ETF-810 / EBF-815 	1 x 3/4" Hole 4 x 3/16" Tile and 1/8" wood holes for bracket	To be determined by installer	N/A	N/A	1-29/32" (48 mm)	9-3/16" (233 mm)	0°	N/A
ETF-820 / EBF-825 	1 x 3/4" Hole 4 x 3/16" Tile and 1/8" wood holes for bracket	To be determined by installer	N/A	N/A	Faucet: 1-21/64" (33 mm) Base: 2-13/20" (67 mm)	8-3/8" (212 mm)	40°	N/A

SMT UNITS

For -SMT faucets sensor settings and hygienic line flushes may be changed, and battery strength and usage information viewed through the SC Argus Pro portal. SMT models require SC Argus Pro Portal equipment and subscription. Please contact your SC Argus Pro Sales Representative or Sloan Technical Support.

For Troubleshooting and Replacement of -SMT units, please consult the appropriate faucet Repair & Maintenance Guide. SC Argus Pro access requires a valid login to the system at sloan.sc-argus.com.

The Smart -SMT Faucet does not show up SC Argus Pro system

Log into SC Argus Pro and confirm the faucet is entered into the system by checking that the Serial Number and Token number are correctly entered. They are found on a label on the battery pack of the control box.

Confirm the faucet is located in the correct restroom in the portal. This is done by looking at the location information on the faucet page.

Confirm the faucet is within communication range of the SC Argus Pro bridge and confirm it is connected. Check its signal strength.

If the faucet is in the system and shows connected click on the 'Dispense water' action to see if the faucet responds.

If the faucet does not respond power cycling it to see if that restores communication.

Can I still connect if there is no Internet connection?

If no Internet connection is available you can use your tablet or mobile phone to connect to the Internet via a cellular connection. Once you are on the Internet, log into SC Argus Pro at sloan.sc-argus.com.

How do I change a setting?

Scroll down to the "Additional Options" area and click on 'Settings'. You can change the Sensor Range in this area. After selecting the new sensor range click on "Send to Device". Note: The flow rate cannot be changed through SC Argus Pro.

How can I enter information specific to a faucet's location or installation date?

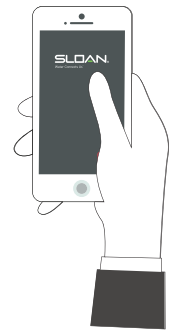
Each faucet page has a 'Notes' section under Additional Options. Click on "Notes" then click on 'Add a Note/Comment'. Enter the details you want documented such as the location, installation date, maintenance data performed, etc. Save the note.

How do I set a Line Flush or Line Purge on the faucet in SC Argus Pro?

Scroll down to the "Additional Options" area and click on 'Settings'. To set a Line Flush, click on the "Enabled" slider beneath Automatic Line Flush and slide it to the right to enable. Then select the number of second for the line to purge, and the frequency of the line flush. Click on the blue "Send to Device" box to send the setting to the faucet.

TROUBLESHOOTING INSTRUCTIONS

NOTE: To automatically check battery strength, troubleshoot, diagnose and report faucet issues with a wireless device, use the Sloan SmartPhone APP. The APP is available free-of-charge at the Apple iPhone APP store for iOS devices or the Google Play APP store for Android devices. For more information about the APP and its capabilities please visit www.Sloan.com.



LED indicator light in the IR (infrared) sensor is red.

A. Battery power is low.

Install four (4) new AA sized alkaline batteries. Check that the orientation of each battery matches the positive (+) and negative (-) symbols shown in the bottom of the battery compartment. Re-attach battery compartment to control module. Green LED will illuminate. If the Green LED does not illuminate, remove battery compartment for 10 seconds and return into place.

Faucet DOES NOT function. RED LED stays on or does not come on when unit is powered on.

A. Batteries not installed or are exhausted.

Install four (4) AA sized alkaline batteries. Check that the orientation of each battery matches the positive (+) and negative (-) symbols shown in the bottom of the battery compartment. Reattach battery compartment to control module. Green LED will illuminate. If the Green LED does not illuminate, remove battery compartment for 10 seconds and return into place.

B. Power Cable not installed (Hardwire models).

Install power cable and check connection. Guide markings are aligned on plug and module.

C. Sensor Cable not installed.

Install sensor cable and check connection. Confirm connection guide markings are aligned.

D. Sensor range is set too short and is not detecting the target.

Increase sensor detection range.

E. Sensor not functioning correctly.

Replace sensor.

Sensor is activated but faucet DOES NOT deliver water.

A. Faucet has initiated its adaptive sensing calibration program.

Wait 60 seconds before activating faucet.

B. Solenoid Cable not connected.

Check solenoid cable connection. Confirm connection guide markings are aligned.

Sensor Range Requires Manual Adjustment.

Sensor Range is measured in units from 1 to 5, with 1 being closest to the faucet and 5 being farthest from the faucet. The factory default Sensor Range is 3.

A. To determine what the current Sensor Range setting is, press the red "Sensor" button on the upper right hand corner of the Optima Control Box for 1 second. Five seconds after pressing the button, the green LED beside it will blink to indicate the Sensor Range setting. For example, if it is set at 2, the green LED will blink 2 times.

B. To adjust the Sensor Range, press and hold the red "Sensor" button for three seconds and release once the green LED comes on to indicate that you are in Sensor Range adjustment mode. Then press the "Sensor" button one second at a time for however many times you wish to increase the range. For example, if the Sensor Range is set at 2 and you wish to increase it to 4, press the "Sensor" button two times for one second each time.

C. If you wish to decrease the Sensor Range, follow the same procedure to enter into Sensor Range adjustment mode, and then press the "Sensor" button one second at a time. The button is designed to go up to 5 units and then back down to 1 unit. For example, if the Sensor Range is set at 4 and you wish to decrease it to 2, press the "Sensor" button three times for one second each time.

D. To confirm your changes, wait 5 seconds and then press the red "Sensor" button on the upper right hand corner of the Optima Control Box for 1 second. Five seconds after pressing the button, the green LED beside it will blink to indicate the Sensor Range setting. For example, if it is now set at 2, the green LED will blink 2 times.

Solenoid produces an audible "CLICK" when an object is placed in the detection zone of the sensor but NO water flows.

A. Water supply to faucet is not open.

Open supply stop(s).

B. Inlet fitting filter is clogged.

Remove, clean, and reinsert. Replace with EBF101A solenoid filter kit if necessary.

C. Aerator or spray head is clogged.

Remove, clean, and reinsert.

Solenoid valve DOES NOT produce an audible "CLICK" and NO water flows. Green LED illuminates when batteries installed.

A. Solenoid valve module is not working properly.

Replace EFP103A solenoid valve module.

TROUBLESHOOTING INSTRUCTIONS (CONT.)

Check for LED activation with sensor as well - does it illuminate when a target is placed in front of the sensor, and turn back off when target is removed?

If yes, then solenoid isn't working.

If no, then sensor is not working.

Faucet delivers only a slow flow or dribble when sensor is activated.

A. Water supply valve is partially closed.

Open the supply stop(s) completely.

B. Inlet fitting filter is clogged.

Remove, clean, and reinsert. Replace with EFP101A solenoid filter kit if necessary

C. Aerator or spray head is clogged.

Remove, clean, and reinsert.

Faucet DOES NOT stop delivering water or continues to drip after user is no longer detected (automatic shut-off fails even when batteries are removed).

A. Solenoid valve seat is dirty.

Remove, clean, and reinsert solenoid filter. Activate faucet several times to flush out dirt.

B. Sensor range is set too long and is detecting the sink or some other object.

Reduce sensor detection range.

C. Solenoid valve module is not working properly.

Replace EFP103A solenoid valve module.

The water temperature is too hot or too cold on a faucet connected to hot and cold supply lines with inlet filter fitting.

A. Supply stops are not adjusted properly.

If using Double-inlet filter tee, adjust stops for water mixture.

If using a on-demand water heater, make sure minimum flow rate is being achieved to activate heater.

NOTE: For some systems, a thermostatic mixing valve may be required. Consult local code.

CARE AND CLEANING INSTRUCTIONS

DO NOT USE abrasive or chemical cleaners (including chlorine bleach) to clean faucet 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, walls, lights, mirror, counter, sink and basin to protect the faucet from any splattering of cleaner. Acids and cleaning fluids will discolor or remove chrome plating.



FCC INFORMATION TO USERS

This equipment has been tested and found to comply with the limits for a class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

**If further assistance is required, please contact Sloan Tech Support
at 1-888-SLOAN-14 (1-888-756-2614)**

Information listed can change without notice

SLOAN • 10500 SEYMOUR AVENUE • FRANKLIN PARK, IL 60131

Phone: 1-800-982-5839 or 1-847-671-4300 • Fax: 1-800-447-8329 or 1-847-671-4380 • www.sloan.com