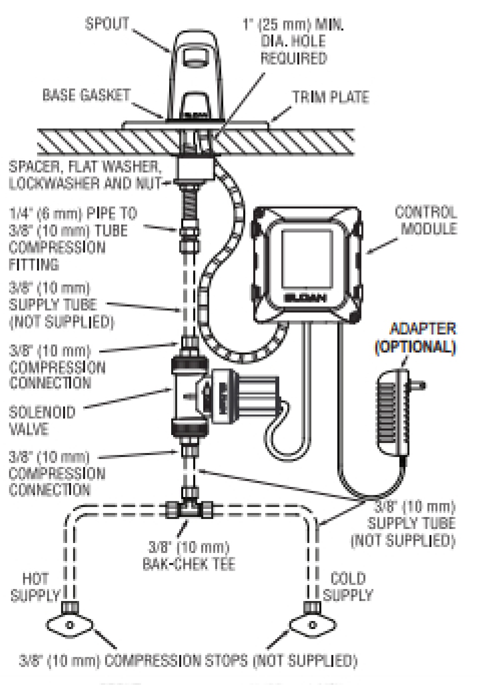
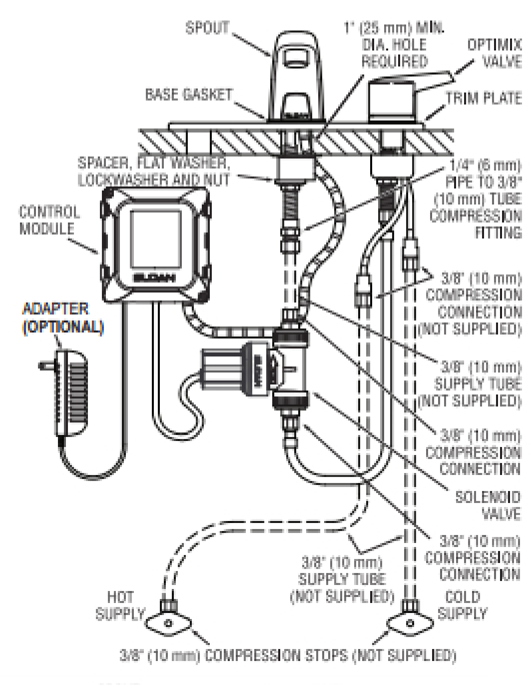
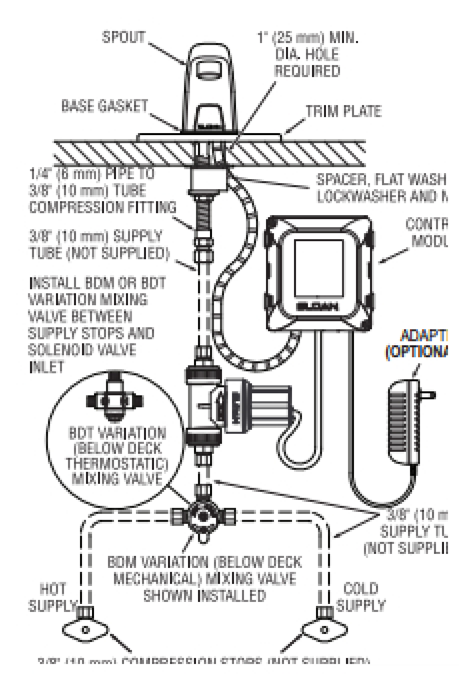
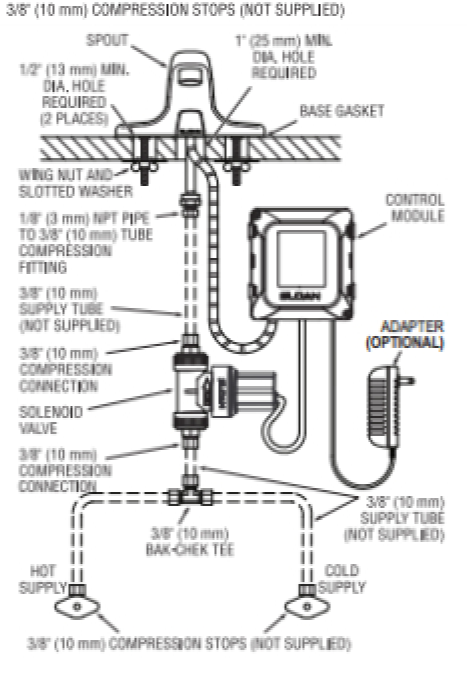
Fontana Mirage Motion Sensor Faucet

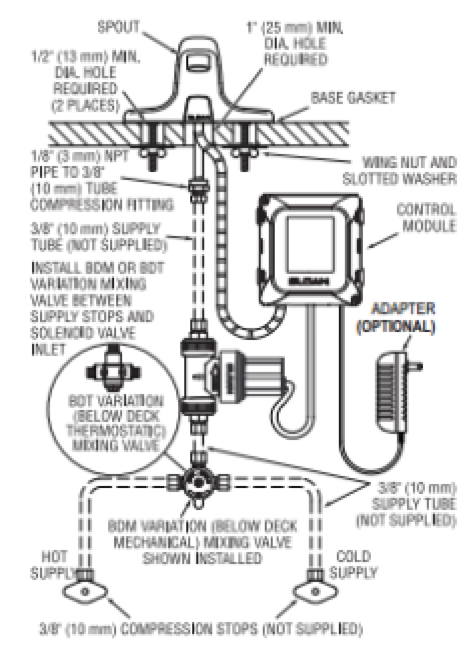
INSTALLATION INSTRUCTIONS

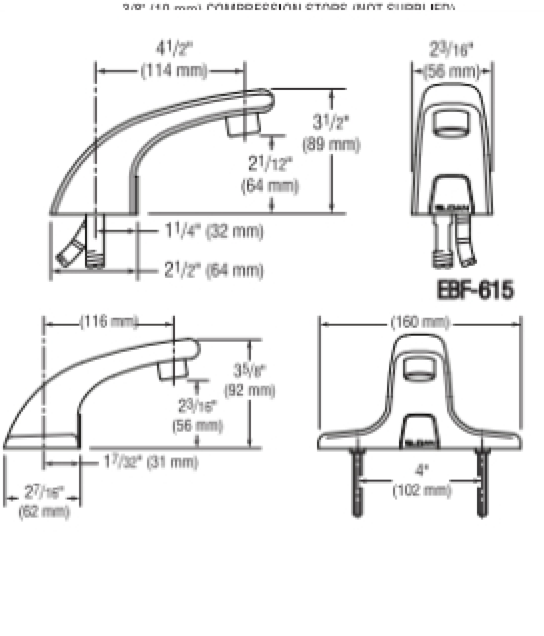


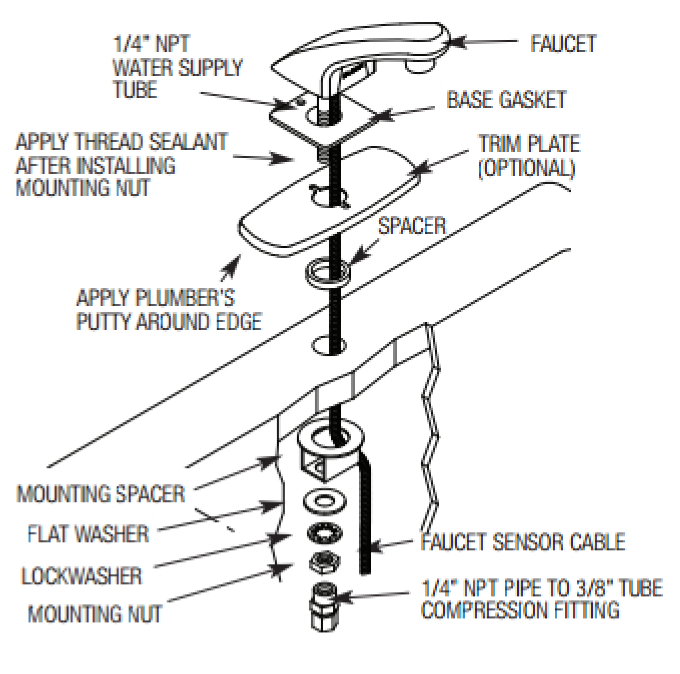


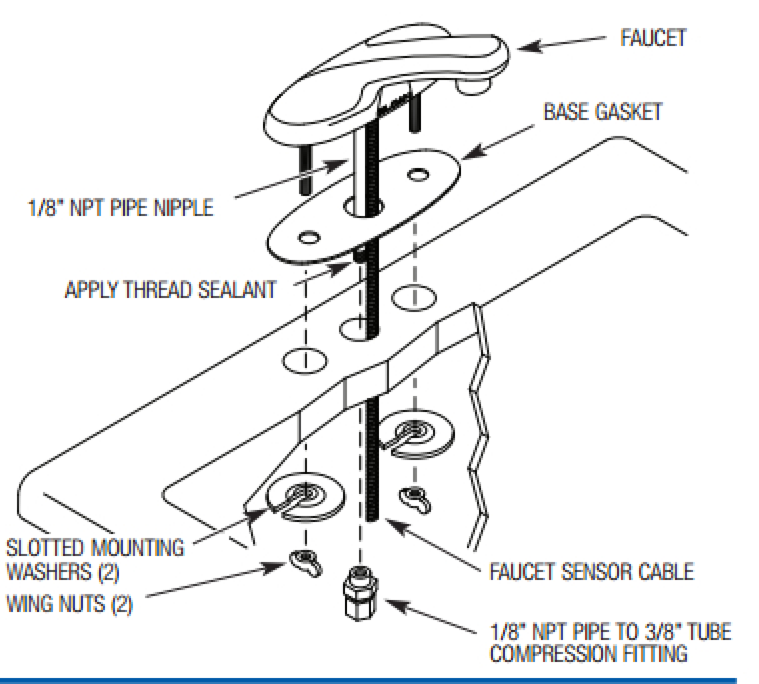






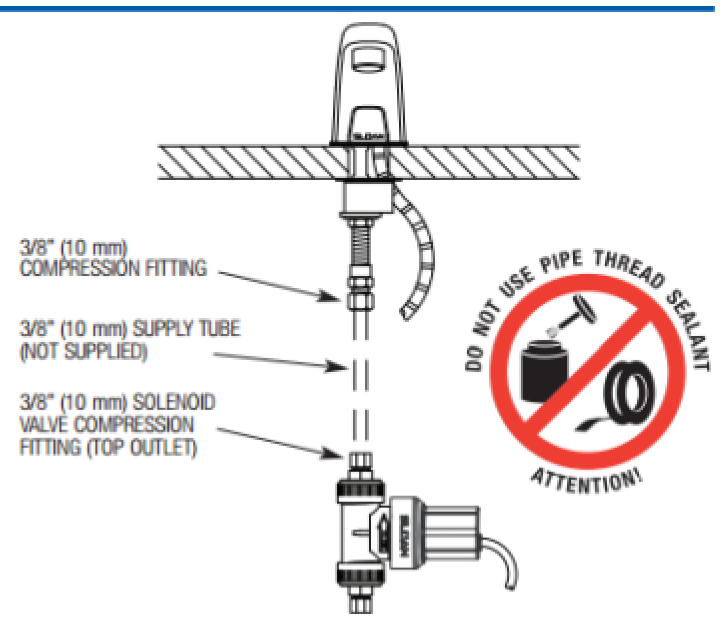






Flow direction of Valve is indicated by an arrow on Valve Body.

A Install 3/8 inch (10 mm) supply tube (furnished by installer) between the Compression Fittings on Spout and the top outlet of Valve.

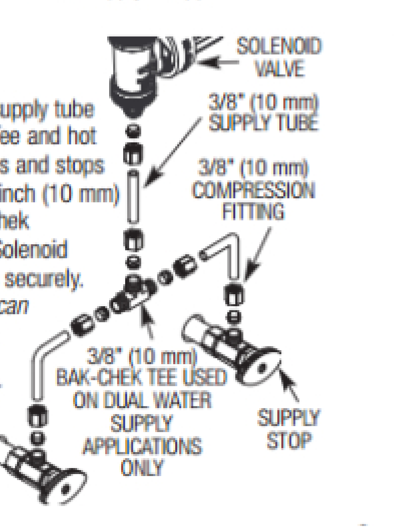


Important: *Keep thread sealant out of your waterway and prevent component part damage! Do not use sealant on compression fittings. When thread sealant is used, do not apply it to the first two "starter" threads.*
Important: *Flush dirt, debris, and sediment from the supply line(s).*

A **Dual Line Hot and Cold Water Supply Applications**

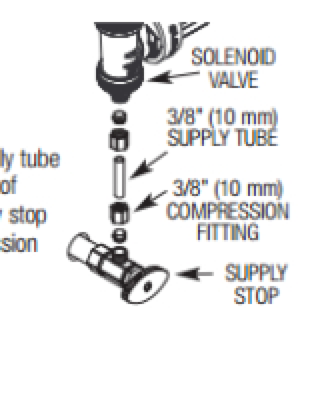
Install a 3/8 inch (10 mm) copper supply tube between Bak-Chek® Compression Tee and hot and cold supply stops. (Supply tubes and stops furnished by installer.) Install a 3/8 inch (10 mm) copper supply tube between Bak-Chek Compression Tee and inlet side of Solenoid Valve. Tighten Compression Fittings securely.

Note: *Failure to install the Bak-Chek® Tee can result in a cross flow connection when the faucet is off and the supply stops are open. If pressure of the hot and cold water supply differ, hot water can migrate into the cold water supply or vice-versa. Most plumbing codes require that the Bak-Chek® be used to prevent this.*



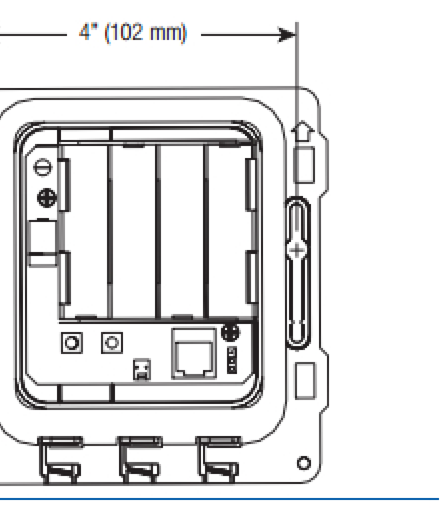
B **Single Line Water Supply Applications**

Install a 3/8 inch (10 mm) copper supply tube between the supply stop and inlet side of Solenoid Valve. (Supply tube and supply stop furnished by installer.) Tighten Compression Fittings securely.



A Install the Control Module in an appropriate location. Control Module must be installed so that all cables enter from the bottom of the unit. When installed, Cables from the Spout and Solenoid Valve to the Control Module should have some slack.

B Mount Control Module to wall using Mounting Screws and Plastic Anchors.



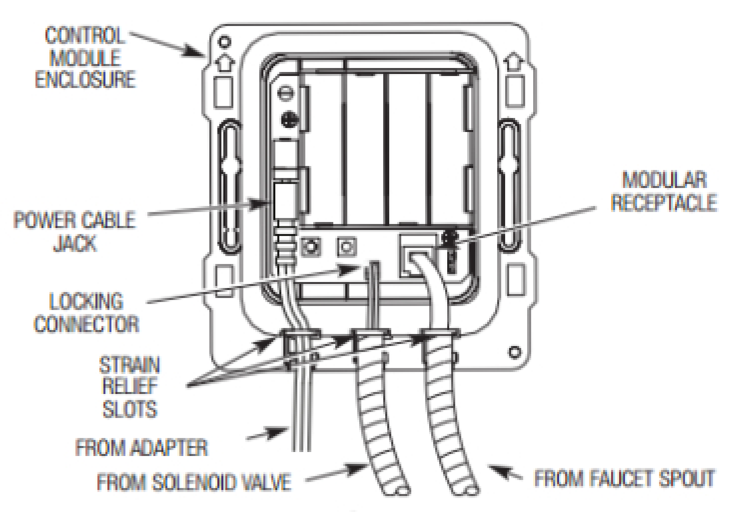
A Route Cables from Solenoid Valve and Spout to the Control Module.

B Insert Locking Connector from Solenoid Valve into mating Receptacle.

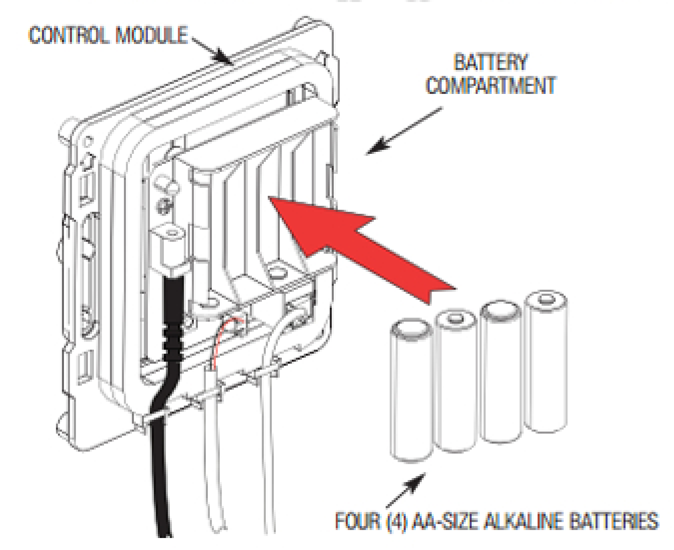
C Insert Connector from Faucet Spout into Modular Receptacle.

D Insert Power Cable Jack from Adapter (optional) into Receptacle.

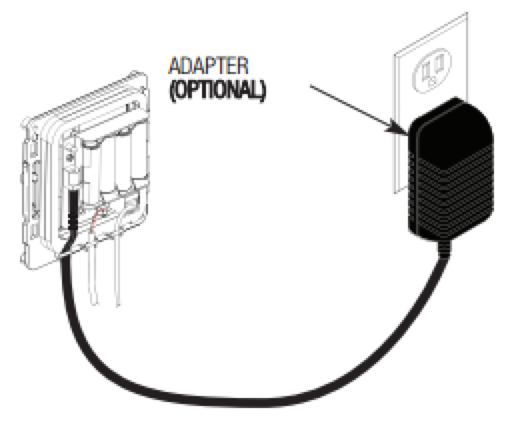
E Insert each Cable into a Strain Relief Slot.



A Insert four (4) AA-size Alkaline Batteries provided as indicated by the (+) and (—) symbols inside the Battery Compartment.

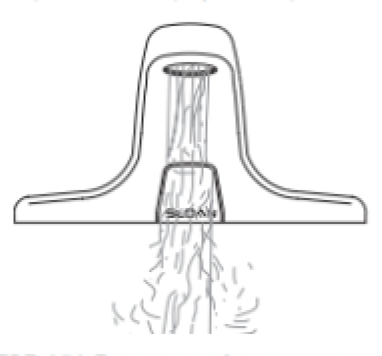


A Plug Adapter into Receptacle.



A Activate ("dry fire") Faucet by placing hands in front of the Sensor. The Solenoid Valve should "click." Once hands are removed the Solenoid Valve should click again. If this does not occur, refer to the Troubleshooting section of this instruction manual.

Once "dry firing" segment is complete, remove spray head. Open supply stop(s) then activate Faucet by placing hands in front of the Sensor. The Solenoid Valve should "click" and water should flow from the Spout.



B Activate Faucet for 30 seconds by placing hands in front of the Sensor. The Solenoid Valve should "click" and water should flow from the Spout. If this does not occur, refer to the Troubleshooting section of this instruction manual.

C Close supply stop(s) and reinstall Spray Head in Spout using the Key provided. Reopen supply stop(s), activate Faucet and check for leaks.

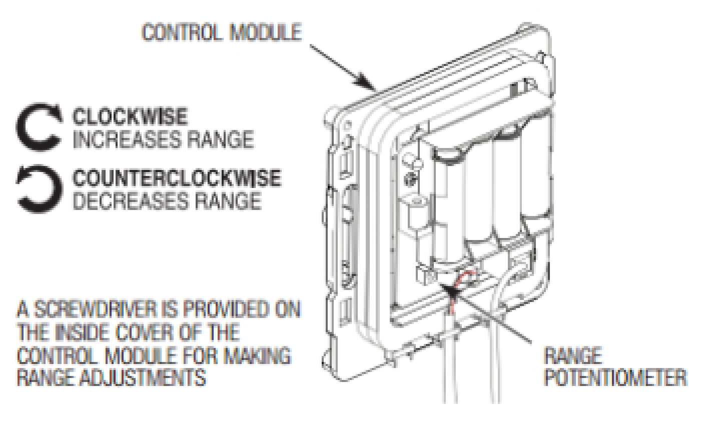
The OPTIMA *Plus* EBF-615 and EBF-650 Faucets are factory set to operate when hands are placed 4 to 5 inches (102 to 127 mm) from Sensor. This range should be satisfactory for most installations. If range adjustment is required, refer to the following range adjustment procedure.

A The Range Potentiometer is located in the Control Module.

Important: *Range Potentiometer adjustment screw rotates only 3/4 of a turn; DO NOT over-rotate. Over-rotating will damage range adjustment screw.*

B Cycle Faucet several times to assure that the Sensor will not inadvertently pick up reflection off the edge of the sink. If reflection occurs, adjust Range Potentiometer counterclockwise very slightly and again cycle Faucet.

Repeat adjustment procedure until desired range is achieved.



For jumper settings, refer to Table below or label on cover of Control Module along with the instructions in this Step.

Noise Reduction (NR) Setting

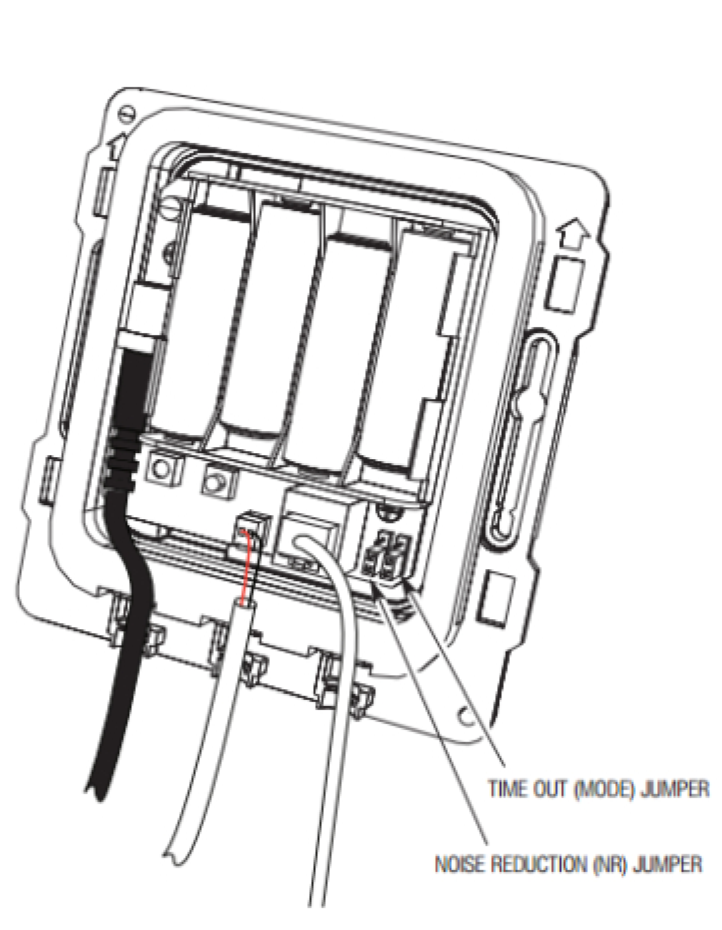
- When operating the faucet on batteries alone, set the NR jumper to bridge pins 1 and 2.
- When operating the faucet using the plug-in adapter with battery backup, bridge pins 2 and 3.

Time Out (Mode) Setting

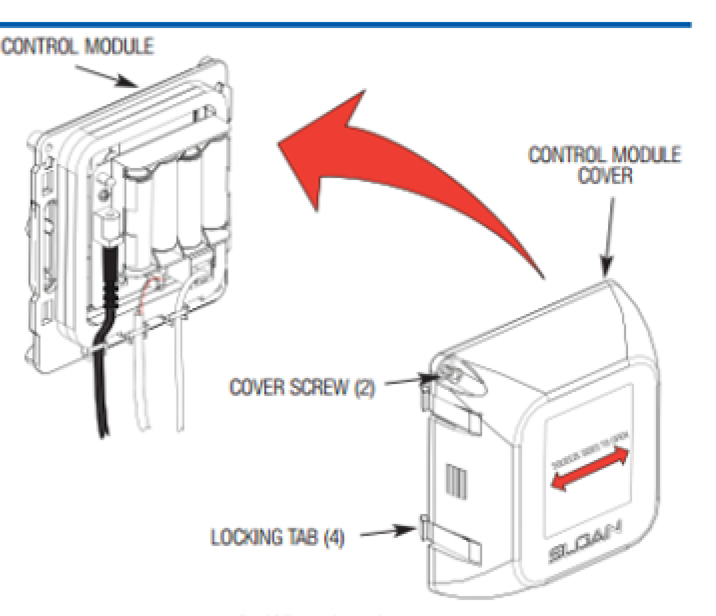
The Faucet Time Out Setting determines the maximum time the Faucet will run upon continuous activation. This timing can be changed to meet individual application requirements.

Unless otherwise specified, Faucets leave the factory set with a 30 second Time Out.

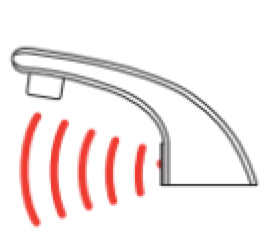
DESCRIPTION	PINS		
	1	2	3
NOISE REDUCTION (NR) SETTING			
Normal Operation (Adapter w/Battery Backup Operation)	●	●	
NR Enabled (Battery Operation Only)		●	●
TIME OUT (MODE) SETTING			
13.75 Second On Demand	●	●	
30 Second On Demand		●	●



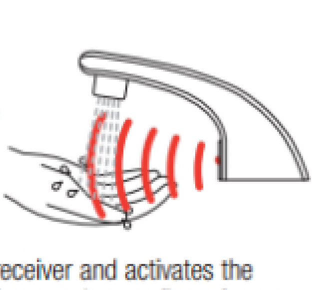
A Install Cover over the Control Module making sure that all four (4) locking tabs snap into place. Secure using the two (2) screws provided. Cover can be installed in only one orientation.



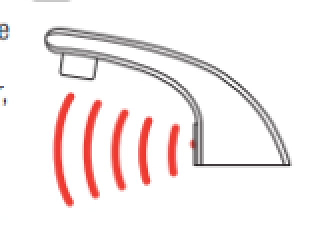
1. A continuous invisible beam of infrared light is emitted from the sensor located on the throat of the lavatory faucet.



2. As the user's hands enter the beam's effective range (beneath the spray head), the beam is reflected back into the sensor receiver and activates the solenoid valve. Tempered water flows from the faucet into the sink until the hands are removed from the beam or until the faucet reaches an automatic time out limit setting.

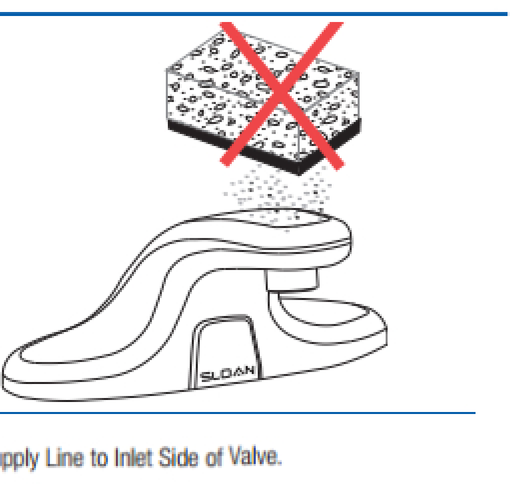


3 When hands are moved away from the sensor, the loss of reflected light initiates an electrical signal that deactivates the solenoid valve, shutting off the water flow. The circuit then automatically resets and is ready for the next user.



DO NOT USE abrasive or chemical cleaners (including chlorine bleach) to clean faucets as they may dull the luster and attack the chrome or special decorative finishes. Use **ONLY** soap and water, then wipe dry with clean cloth or towel.

While cleaning the bathroom tile, the faucet should be protected from any splattering of cleaner. Acids and cleaning fluids will discolor or remove chrome plating.



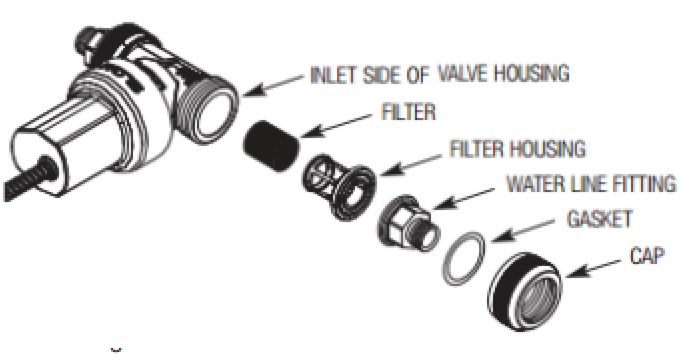
Turn off water supply at supply stop(s). Activate Faucet to relieve system pressure.

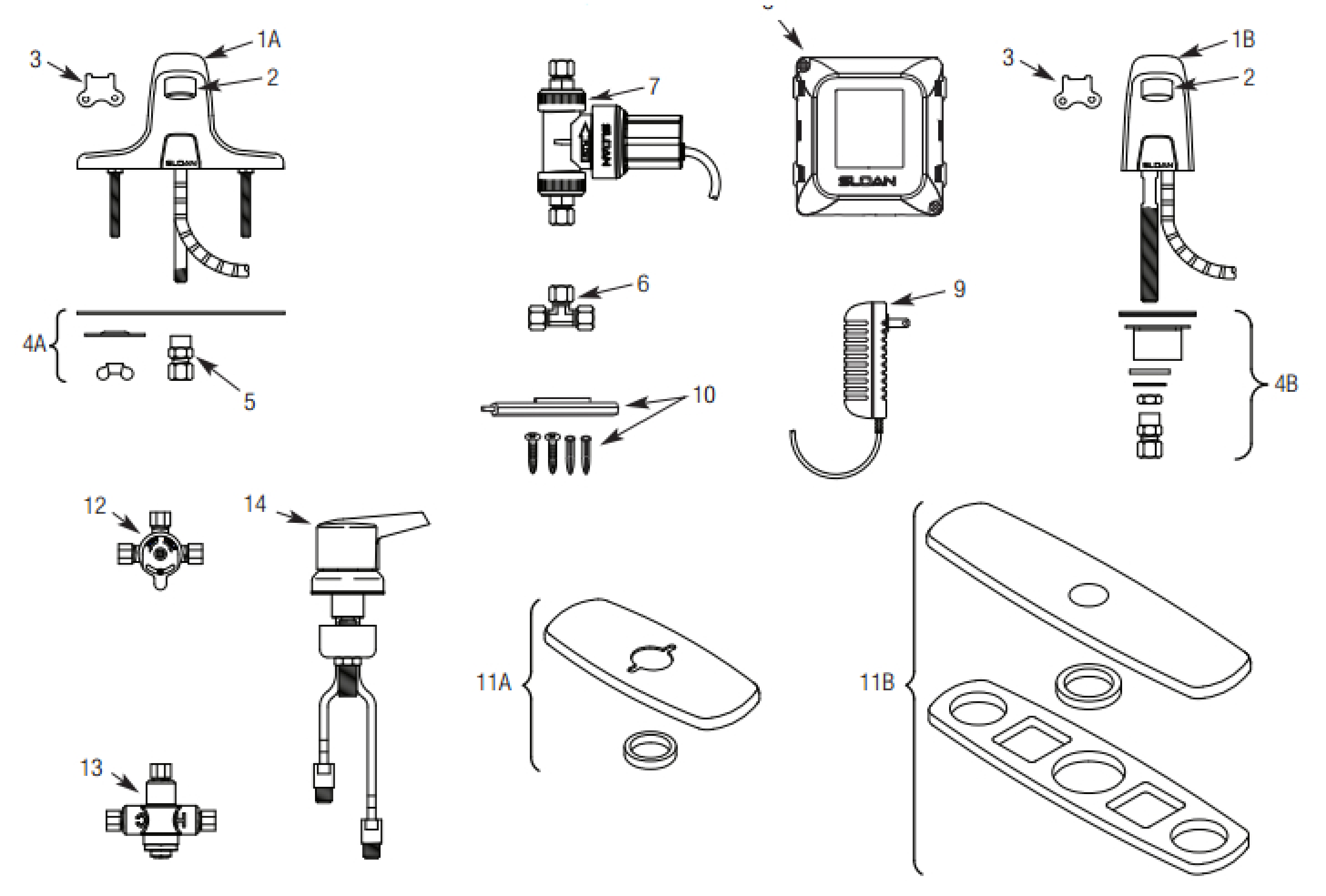
Remove Water Supply Line from Inlet Side of Valve. Remove Cap, Water Line Fitting, Gasket, Filter Housing and Filter

Slide Filter off Filter Housing. Clean Filter using fresh tap water only. If necessary, use a small brush to clean. Use caution while cleaning to prevent damage to Filter.

If any Filter components are damaged, replace as necessary. Examine the Gasket for wear or damage; replace if necessary.

Reinstall Water supply Line to Inlet Side of Valve.





This General diagram and installation instructions are not intended for any specific model, but is presented as a general guideline for Installations!