



# AquaSense®

## Z6913-XL and Z6915-XL Series Sensor-Operated Lavatory Faucets for Battery or Plug-In Installations.

### Installation, Operation, Maintenance and Parts Manual

Patented and Patents Pending

#### Sensor-Operated Battery-Powered Lavatory Faucets

Z6913-XL

Z6915-XL



*Shown with -CP4 option*

**Z6913-XL**



**Z6915-XL**

⚠ **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

⚠ **ADVERTENCIA:** Cáncer y daño reproductivo - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

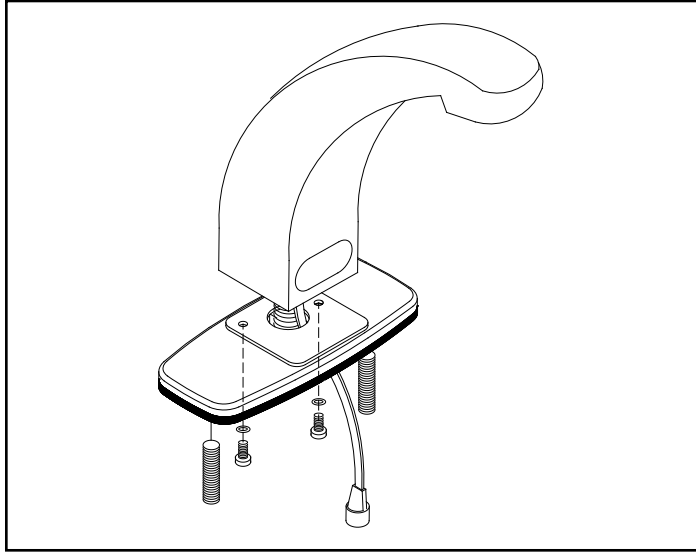
⚠ **AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### LIMITED WARRANTY

All goods sold hereunder are warranted to be free from defects in material and factory workmanship for a period of three years from the date of purchase. Decorative finishes warranted for one year. We will replace at no costs goods that prove defective provided we are notified in writing of such defect and the goods are returned to us prepaid at Sanford, NC, with evidence that they have been properly maintained and used in accordance with instructions. We shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement of the defective goods. Before installation and use, the purchaser shall determine the suitability of the product for his intended use and the purchaser assumes all risk and liability whatever in connection therewith. Where permitted by law, the implied warranty of merchantability is expressly excluded. If the products sold hereunder are "consumer products," the implied warranty of merchantability is limited to a period of three years and shall be limited solely to the replacement of the defective goods. All weights stated in our catalogs and lists are approximate and are not guaranteed.

## IMPORTANT:

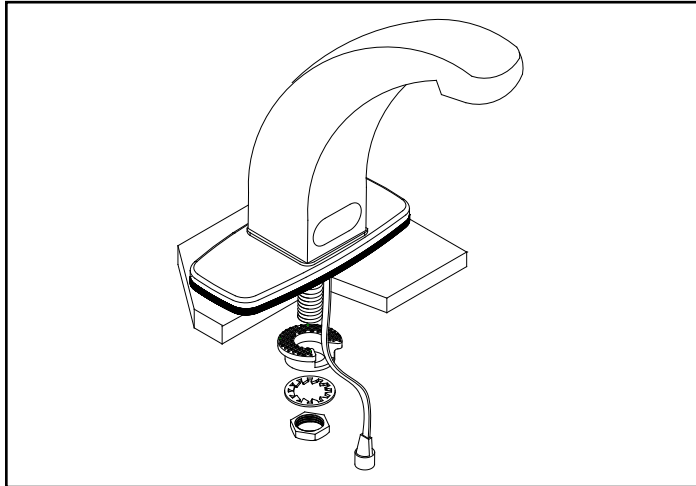
- ALL PLUMBING IS TO BE INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS.
- FLUSH ALL WATER LINES PRIOR TO INSTALLATION.
- SENSOR UNITS SHOULD NOT BE LOCATED ACROSS FROM EACH OTHER OR IN CLOSE PROXIMITY TO HIGHLY REFLECTIVE SURFACES.



### 1. - Cover Plate Installation

(For faucets with -CP4 or -CP8 suffix)

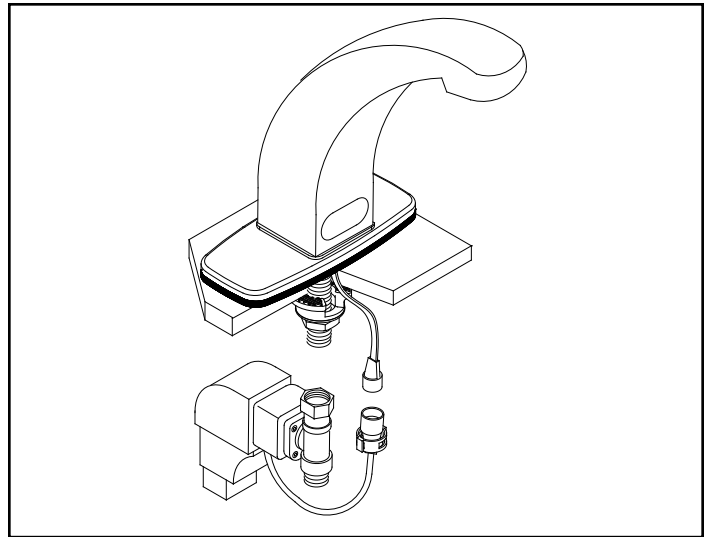
Remove adhesive backing from gasket and then pass sensor connector wire and shank through gasket. Align gasket with faucet bottom and press firmly together. Pass sensor connector and shank through cover plate and fasten to the faucet with the provided screws.



### 2.- Spout Installation

If there is an existing faucet, turn off water supply and remove the old faucet. Assure supply lines are completely flushed and free of debris. Clean lavatory rim around the mounting area for the new sensor faucet.

Place the sensor connector wire and shank through cover plate gasket and hole in the lavatory. Orient black plastic mounting washer with the slot facing up. Place mounting washer and star washer over shank and secure the entire assembly to the lavatory with the mounting nut. **The sensor wires must pass through slot in plastic mounting washer. \*Do not pinch Sensor wires.**



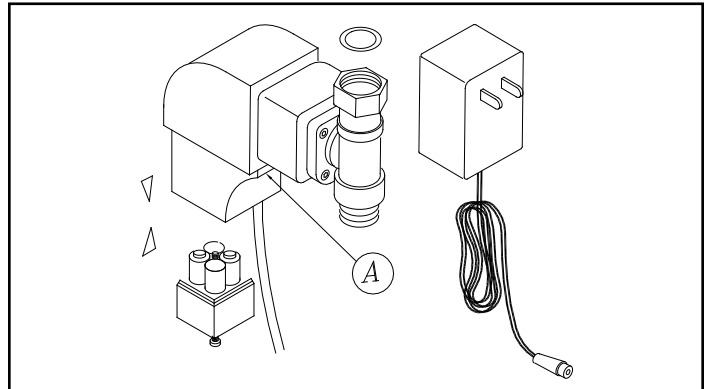
### 3.- Electronics Module Installation

Attach sensor connector wire from the faucet to the mating sensor connector wire from the electronics module. Orient connectors so that the pins are properly aligned before pressing connectors together.

**Do not force together, damage to pins may occur.** Secure the cable connectors with the locking ring provided. **Be certain that the cable connection is made before the batteries are installed.**

Attach electronics module to the shank using the hex nut and gasket provided. Orient the electronics in a convenient location and tighten hex nut.

**DO NOT USE THREAD SEALANT.**



### 4a.- Battery Installation

Loosen the battery cover screw with the supplied allen wrench. Remove the cover and install the batteries as indicated on the battery case. Replace the battery cover and secure.

### 4b.- ACA Plug-In Adapter Installation

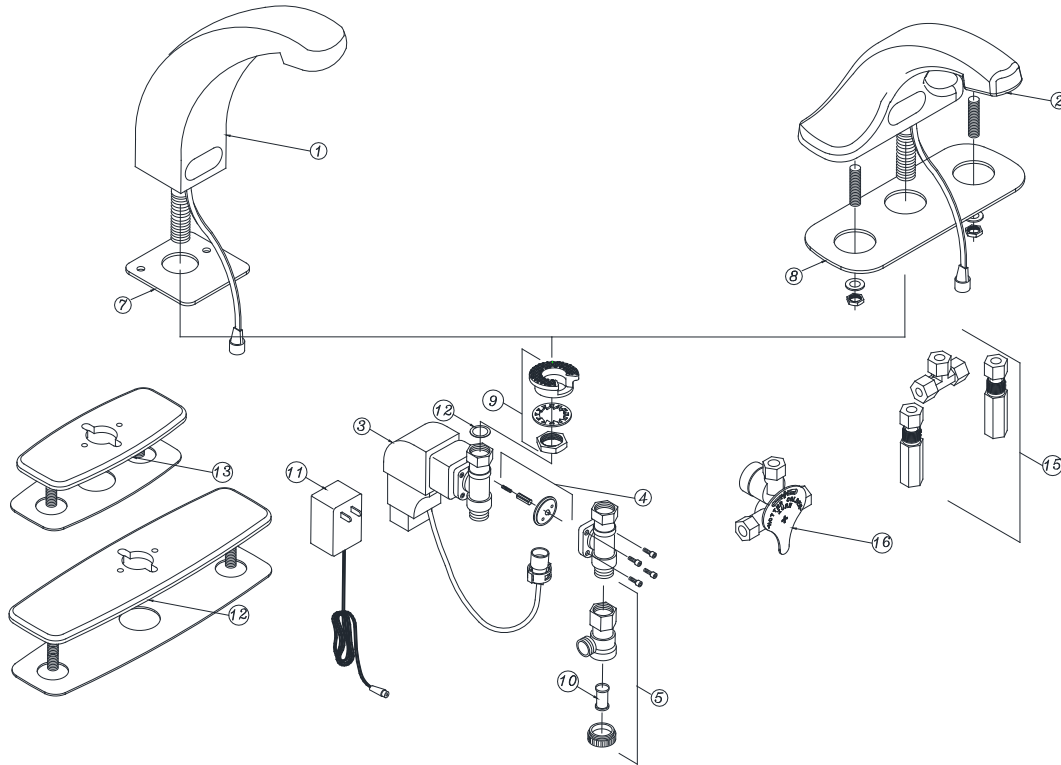
When using the -ACA plug-in power supply remove sticker at location (A) and plug in adapter.

### 5.- Filter or Mixing Tee or Mixing Valve Installation

The supplied inlet filter must be used with every faucet, unless a mixing tee or mixing valve is ordered. The inlet filter is attached directly to the electronics module's water inlet. Tempered water is then supplied to the filter using a standard 3/8" x 1/2" ball riser (supplied by others.)

The optional mixing tee assembly (-MT) or mixing valve (-MV) have integral filters and back checks. These take the place of the standard inlet filter when ordered. The mixing tee or mixing valve outlet attaches to the electronics module with a 3/8" x 1/2" ball riser (supplied by others). Hot and cold water is then supplied to the appropriate 3/8" compression inlets.

# Z6913 and Z6915 Repair Kits



| Description |                                                              | Product No.  |
|-------------|--------------------------------------------------------------|--------------|
| 1           | Z6913 Spout Assembly with Sensor                             | P6913-1-XL   |
| 2           | Z6915 Spout Assembly with Sensor                             | P6915-1-XL   |
| 3           | Electronics Box with Solenoid                                | P6900-B-L-XL |
| 4           | Solenoid Rebuild Kit (Diaphragm, plunger and plunger spring) | P6900-SRK    |
| 5           | Filter Kit                                                   | P6900-120    |
| 6           | Z6912 Base Plate Gasket                                      | P6912-42     |
| 7           | Z6913 Base Plate Gasket                                      | P6913-42     |
| 8           | Z6915 Base Plate Gasket                                      | P6915-42     |
| 9           | Mounting Kit                                                 | P6900-43     |
| 10          | Filter Screen                                                | P6900-MV-7   |
| 11          | Optional Plug-in Power Converter                             | P6900-ACA    |
| 12          | Shank Connection Gasket                                      | P6900-SG     |
| 13          | 4" Cast Cover Plate w/Gasket                                 | P6900-CP4    |
| 14          | 8" Cast Cover Plate w/Gasket                                 | P6900-CP8    |
| 15          | Mixing Tee w/Filtera and Back Checks                         | P6900-MT-XL  |
| 16          | Mixing Valve w/Filter                                        | P6900-MV-XL  |

## SPECIFICATION

|                                |                                     |
|--------------------------------|-------------------------------------|
| Voltage:                       | 6 VDC<br>(4 "AA" Alkaline)          |
| Sensor Range:                  | 6" Approximate                      |
| Operating Water Pressure:      | 20-80 psi                           |
| Ambient Temperature:           | 32°F to 122°F (0°C to 50°C)         |
| Operational Water Temperature: | 35°F to 140°F (2°C to 60°C)         |
| Aerator:                       | 1.5 GPM Vandal-Resistant (Standard) |

## OPERATION

- 1.) Invisible light rays are continually emitted from the faucet sensor.
- 2.) When the user's hands come into range of the sensor's detection zone (factory set at approximately 6"), the beam is reflected back to the sensor's receiver and converted to a low voltage electrical signal activating a solenoid valve.
- 3.) After the user removes their hands, the absence of reflected light stops the low voltage electrical signal, closing the valve. The circuit automatically resets for the next user.
- 4.) If an object is in view continuously for thirty seconds, the faucet will automatically shut off. The faucet will remain off until the object is removed. After the object is removed, the faucet functions normally.

## CARE AND CLEANING INSTRUCTIONS

**DO NOT** use abrasive or chemical cleaners to clean faucets as they will dull the luster and attack the chrome or special decorative finishes. Use only mild soap and water, then wipe dry with a clean cloth or towel. While cleaning the bathroom tile and floor, the faucet and electronics should be protected from splattering of water, cleaner, acids and cleaning fluids that can damage the sensor faucet.

## TROUBLESHOOTING GUIDE

| PROBLEM                                                   | POSSIBLE CAUSE                         | TO DIAGNOSE                                                                                                 | REMEDY                                                                                                                                                         |
|-----------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FAUCET WILL NOT FLOW WATER                                | Water supply not turned on.            | Check supply stops.                                                                                         | Turn on water.                                                                                                                                                 |
|                                                           | Batteries not connected.               | Check connections.                                                                                          | Reconnect batteries.                                                                                                                                           |
|                                                           | Cable connection is not fully engaged. | Check cable connection.                                                                                     | Remove battery, and disengage the cable connection. Check cable connection for broken pins and reconnect cable. Check battery for voltage level and reinstall. |
|                                                           | Low battery.                           | Flashing red light in sensor eye indicates low battery.                                                     | Remove batteries and replace with 4 new alkaline batteries.                                                                                                    |
|                                                           | Solenoid valve inoperative.            | Move hand in front of faucet to see if solenoid valve is clicking.                                          | If clicking, open solenoid valve and clean it.                                                                                                                 |
|                                                           |                                        |                                                                                                             | If not clicking, replace solenoid valve.                                                                                                                       |
|                                                           | Sensor/electronics are inoperative.    | Move hand in front of faucet to see if solenoid valve is clicking. See note in Step 4.                      | Remove the battery and short circuit the battery terminals with allen wrench. This will reset the electronics. Replace battery.                                |
| FAUCET CONTINUES TO RUN FOR MORE THAN 30 SECONDS OR DRIPS | Filter is plugged.                     | Shut off water supply. Remove clean out cap.                                                                | Clean the filter and reassemble.                                                                                                                               |
|                                                           | Solenoid valve is dirty.               | Open the solenoid valve and check for debris. Carefully observe the way valve goes together for reassembly. | Shut off water supply. Disassemble solenoid and remove debris from diaphragm and/or plunger tip. Reassemble solenoid.                                          |

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