AquaSense® Z6912, Z6913 and Z6915 Series

Sensor-Operated Lavatory Faucets for Battery or Plug-In Installations

Installation, Operation, Maintenance, and Parts Manual

Patented and Patents Pending

Z6913XLCP4

Sensor-Operated Battery-Powered Lavatory Faucets
Z6912
Z6913
Z6915



Z6912



Z6915



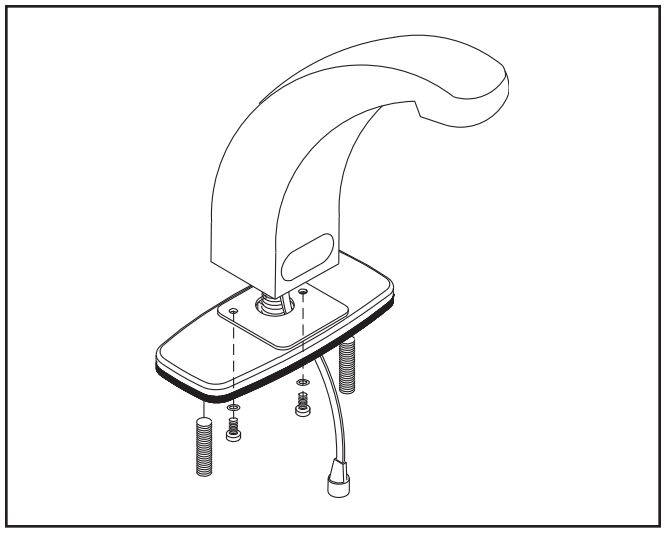
Z6913

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 cost 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.

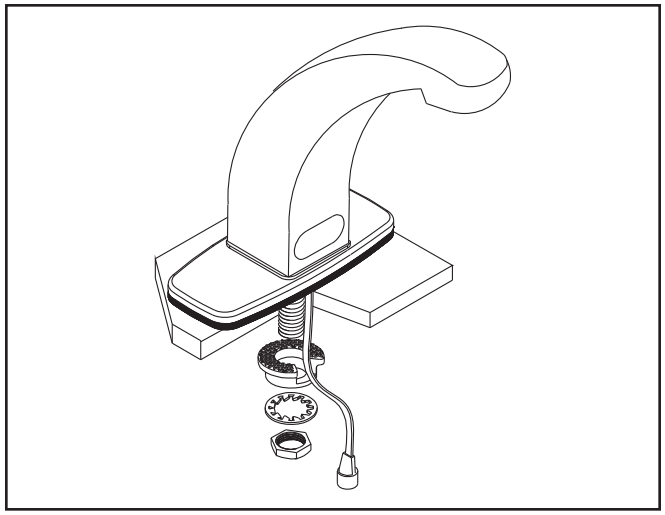
IMPORTANT:

- 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

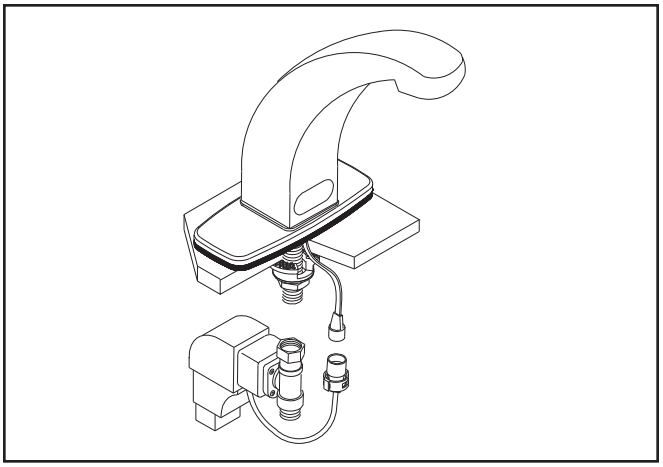
(For faucets with -CP4 or -CP8 suffix)
Remove adhesive backing from gasket and then pass sensor connector wire and shank through gasket. Align gasket with faucet bottom and press firmly together. Pass sensor connector and shank through cover plate and fasten to the faucet with the provided screws.



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.

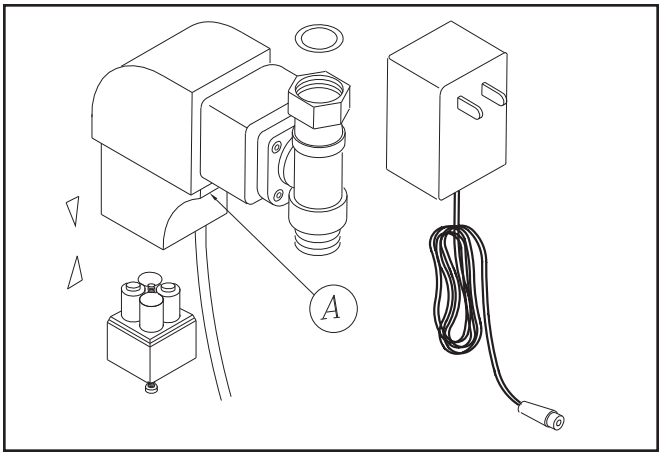
Place the sensor connector wire and shank through cover plate gasket and hole in the lavatory. Orient black plastic mounting washer with the slot facing up. Place mounting washer and star washer over shank and secure the entire assembly to the lavatory with the mounting nut. **The sensor wires must pass 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

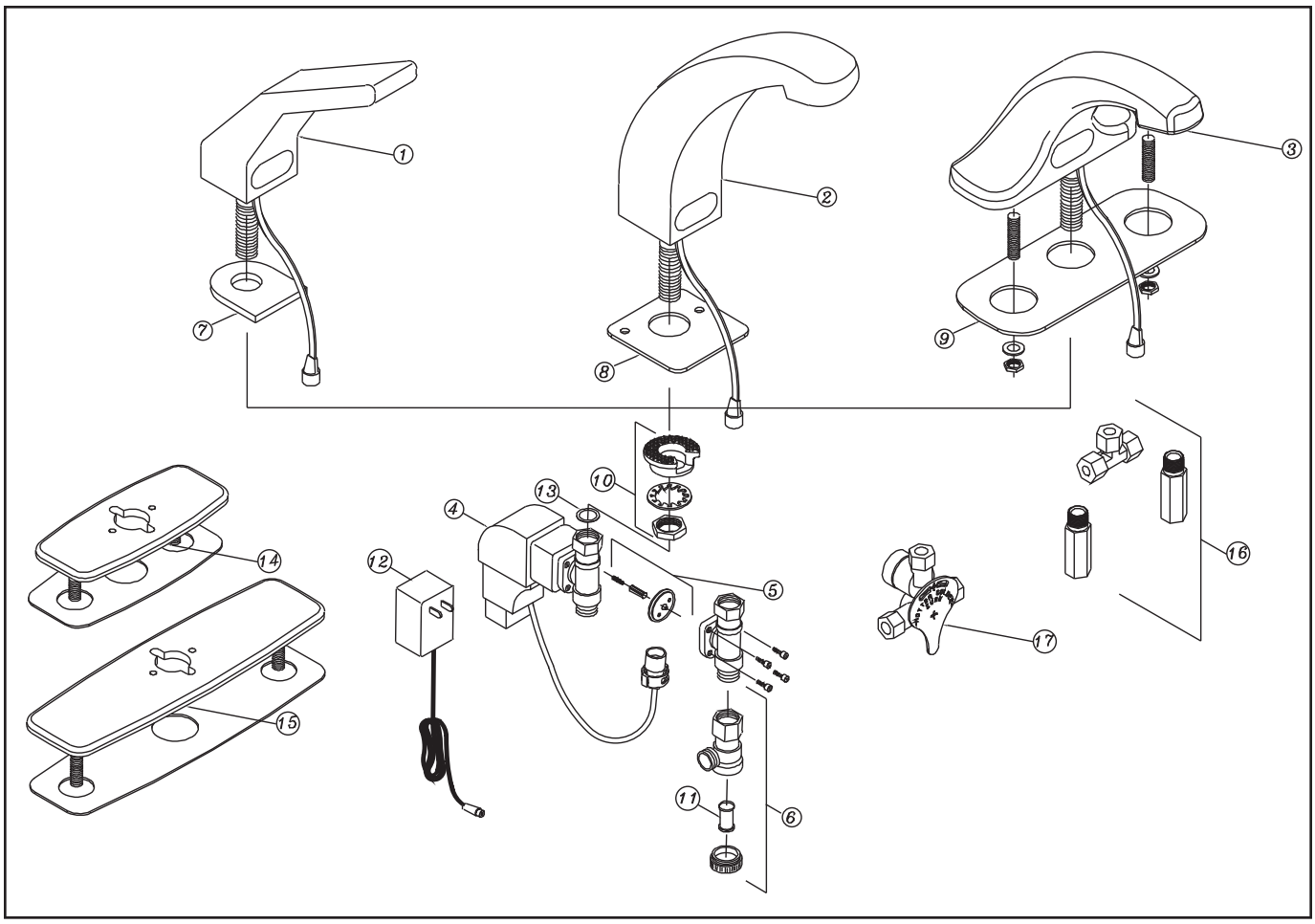
When using the -ACA plug-in power supply, remove sticker at location **(A)** and plug in adapter.

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 backchecks. 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.

Z6912, Z6913, and Z6915 Repair Kits



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

SPECIFICATIONS

Voltage:	6 VDC (4 "AA" Alkaline)
Sensor Range:	7.5" 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:	2.0 GPM Vandal-Resistant (Standard)

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.

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 (8" approximate), 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.

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 four (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.
	Filter is plugged.	Shut off water supply. Remove clean out cap.	Clean the filter and reassemble.
FAUCET CONTINUES TO RUN FOR MORE THAN 30 SECONDS OR DRIPS	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.

ZURN INDUSTRIES, INC. *COMMERCIAL BRASS OPERATION, 5900 ELWIN BUCHANAN DRIVE, SANFORD, NC, U.S.A. 27330*
PHONE: 1-800-997-3876 FAX: 919/775-3541 WEBSITE: www.zurn.com

ZURN INDUSTRIES LIMITED *3544 NASHUA DRIVE, MISSISSAUGA, ONTARIO L4V 1L2 PHONE: 905/405-8272 FAX: 905/405-1292*

© 2003 Zurn Industries, Inc.

Printed in the U.S.A. Form No. FV254, 1/03

AquaSpec® Commercial Faucets Terms and Conditions

Price and Terms of Payment

Terms are net, payable 30 days from date of invoice. All pricing is in U.S. currency. The Buyer shall pay all sales, consumers, or other applicable taxes. A 1-1/2% per month service charge will be added to all past due invoices. Annual rate 18% of the outstanding balance due.

Minimum invoice $100.00. Zurn reserves the right to apply a minimum order charge to equal $100.00. All orders are subject to credit approval by the Zurn Credit Department prior to the acceptance of an order. Orders may be refused, delivery may be withheld, or shipment stopped in transit without any liability on Zurn's part if in its sole opinion, the Buyer's ability to pay for the merchandise or the terms and conditions herein are in doubt. The Credit Department of Zurn must be notified of potential pricing errors within 30 days of invoice date.

Freight

All sales are F.O.B. Zurn's plant. Zurn will allow full freight allowance only on Zurn AquaSpec® Commercial Faucet orders of $3,000 or more. This full freight allowance is when the shipment is within the continental United States and has a destiny of a Buyer's standard address of job location. Routing of shipment shall be determined at the sole discretion of Zurn. Multi product line orders totaling $7,500 can be combined to meet FFA guidelines. Shipping dates are estimates and time of delivery is not the essence of this sale of the contract therefore. Under no circumstances will Zurn have any responsibility on account of any delays in manufacture, transportation, or otherwise.

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. Zurn will replace goods at no cost that prove defective provided Zurn is notified in writing of such defect and the goods are returned to Zurn prepaid at Falconer, New York, with evidence that they have been properly maintained and used in accordance with instructions. ZURN SHALL NOT BE RESPONSIBLE FOR ANY LABOR CHARGES OR ANY LOSS, INJURY, OR DAMAGES WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, 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 the connection therewith. Where permitted by law, 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 Zurn catalogs and lists are approximate and are not guaranteed.

Illustrations of Typical Installations

The typical installations for various products found in each product section are intended to illustrate the products and potential options for the use of these products. Under no circumstances are they to be construed as recommended installation procedures. Consult local codes and project specifications for proper installation instructions.

Returned Goods

Standard cataloged material may be returned only with written permission of Zurn. Returned goods are subject to a 25% restocking charge of total saleable material returned, plus cost of reconditioning, if necessary, to make material sellable. Transportation charges are the responsibility of the Buyer. Credit allowance will be in the form of merchandise credit only – not cash credit. The value of a return must total at least $100.00 to qualify for credit allowance. No credit will be allowed for parts unless originally ordered and invoiced as parts. No credit will be allowed for discontinued or made-to-order items. Items that have been specially made are not subject to return or cancellation except by special negotiation. Material must be returned within two years of invoice date for credit to be issued.

Shortage/Damage Claims

Notification of material shortages or incorrect filling of orders must be made to Zurn within 10 days of receipt. No claims over three months old will be honored. Buyer agrees to make all complaints for damage in transit or "short count" directly to the carrier; before the contents are unloaded have the carrier agent's acknowledgement of such damage noted on the bill of lading and to present to the carrier its agent's acknowledgement of such damaged material with formal claim covering said damage.

General

Zurn reserves the right to make changes in design or equipment of any item or product without incurring any obligation on previously sold items, and to discontinue items at any time, without notice. Possession of this Catalog or other sales literature is not to be construed as an offer to sell. All orders are subject to acceptance by the general office of Zurn in Falconer, New York.

Catalog printed in U.S.A.