



Sensor Faucets and Flush Valves



OPERATION & MAINTENANCE MANUAL
1000C Series Faucet

www.hydrotekintl.com

5055 Forsyth Commerce Rd, Ste 124, Orlando, FL 32807
Phone (800) 922-9883 | Fax (866) 670-5580



Sensor Faucets and Flush Valves

1000C Series

AC or Battery Powered Sensor Operated Faucet

The 1000C Series faucet is a 4-inch center-set, piston operated sensor faucet that provides a vandal resistant, no touch lavatory solution that promotes better hygiene and energy savings.

- **ADA Compliant.** Meets all barrier free codes
- Conserves water and energy
- Easily installed in new or retrofit applications
- Competitively priced for today's commercial market
- Promotes cleanliness & hygiene
- Proven Hydrotek craftsmanship and reliability

Features

- **ACCU-SENSE** adjustable sensor eyes.
- All solid brass construction.
- Wall mountable, waterproof control box with armored, vandal resistant control and power cables.
- Preset/adjustable sensor range of 6" - 30" for various installation requirements.
- Standard automatic time-out feature. Preset at 20 seconds, but adjustable to OFF, 30, or 60 seconds. Prevents accidental sink overflow.
- Shut-off delay is adjustable from 0.5 (preset) to 8 seconds.
- Solid brass body with cast 4" center-set and 3 point anchoring system. Twist-free and tamper resistant. Adapts to 8" center-set.
- Includes in-line filter with clean-out trap to reduce maintenance costs.
- All parts are field-replaceable to ensure quick and easy repair.
- Adjustable to AC or battery powered (additional part required).
- AC with DC backup models automatically switch to batteries during a power outage
- Slow closing, piston-operated solenoid valve provides reliable and smooth operation without water hammer.
- Superior VSI silicone elastomer piston seals are unaffected by chlorine, chloramines, or ammonia.
- Standard 0.5 GPM Laminar flow control for water conservation and annual savings.
- Control module allows a unique self-check of all electrical components.



Compliances & Certifications



- ADA Compliant
- ASME A112.18.1/CSA B125.1
- NSF/ANSI Standard 372 - Lead Free Certified
- USGBC Member

Available Models

- H-1000C-LR:** Lead Free, AC Powered
- HB-1000C-LR:** Lead Free, Battery Powered
- H-1000C-LRDC:** Lead Free, AC Powered with Battery Backup

Special Finishes

- Polished Brass (-PB)
- Brushed Nickel (-BN)
- Matte Black (-MB)
- Additional Finishes Upon Request



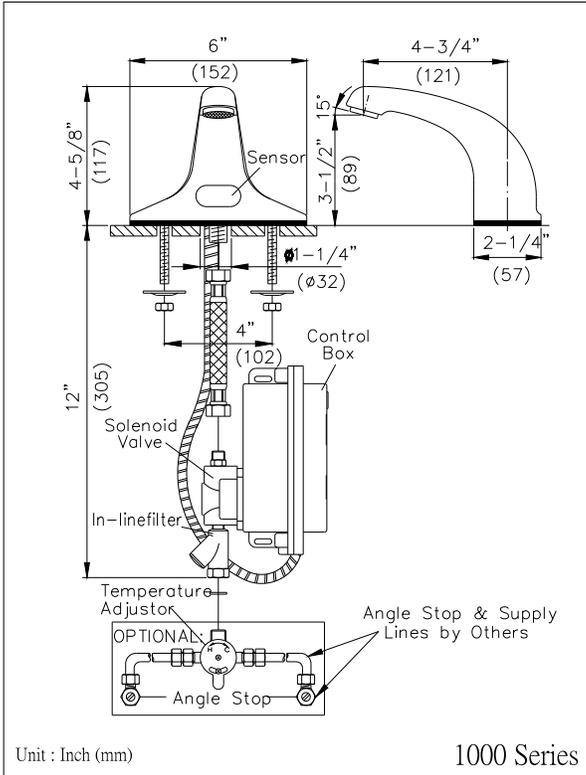
The information contained within this document subject to change without notice

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807

Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com



Deck Mounted



Specifications:

- Faucet Construction: Solid brass, chrome plated
- Control Circuit: Solid state, AC or battery, switchable
- Auto. Time-out: Preset at 20 seconds and adjustable to OFF, 30, or 60 seconds
- Line Purge (request only): 2 minute run every 12 hours or 24 hours
- Scrub Mode Delay (request only): 60, 120, 180 seconds
- Sensor Range: Preset and adjustable
- Shut-off Delay: Preset and adjustable from 0.5-8 seconds
- Control Cable: Armored, vandal resistant
- Solenoid Valve: 6V DC, normally closed
- Wattage: 0.4W (idle), 5W (in use)
- Operating Pressure: 5 psi to 125 psi
- Flow Control: 0.5 GPM, vandal resistant

AC Mode

- Power Adapter
 - Standard Plug-in: Input AC 100-240V, 60 Hz, 0.4A (UL/CSA) Output DC 15V, 0.8A/Class 2
 - Power Cable: Armored, vandal resistant
- Optional Multi-Unit: Serves up to 8 faucets (UL/CSA) Input AC 100-240V, Output DC 15V, 3.34A

Battery Mode

- Battery Powered Models: (4) AA Alkaline Batteries
- Battery Service Life: 400,000 on/off cycles, up to 4 years

Package Includes:

- (1) Faucet with electronic sensor
- (1) Control box w/6V DC solenoid and control module
- (1) 12V DC plug-in power adaptor (H-1000C and H-1000C-DC only)
- (1) In-line filter with clean-out trap
- (1) Flexible supply tube
- (1) Mounting hardware
- (1) 0.5 GPM vandal resistant flow control
- (4) AA Alkaline batteries (HB-1000C and HB-1000C-DC only)
- (1) Battery holder (HB-1000C and HB-1000C-DC only)

Dimensions:

- Base Width (Outside Measurement) 6"
- Base Depth 2-1/4"
- Faucet Height (Aerator to Base) 3-1/2"
- Faucet Height Overall 4-5/8"
- Depth (Center of Aerator to Center of Faucet Base) 4-3/4"
- Mounting Bolt Length 2-1/2"
- Mounting Type Three hole, 4" Centerset

Optional Variations and Accessories

- 1.5 GPM VR Soft-Flow Aerator; 0.35, 1.5 & 2.2 GPM Laminar Flow
- 8" Centerset Cover Plate
- HC-010 Multi-Unit Voltage Adapter (AC Powered Only) - 8 units
- HC-001 Mixing/Check Valve (Mechanical)
- HBL-03-LR Thermostatic Mixing Valve with Checks (Lead Free)
- Watersense Labeled Flow Control by Neoperl available

The information contained within this document subject to change without notice

5055 Forsyth Commerce Rd Ste 124, Orlando, FL 32807

Phone: 800.922.9883 | Fax: 866.670.5580 | hydrotekintl.com

1000C Series

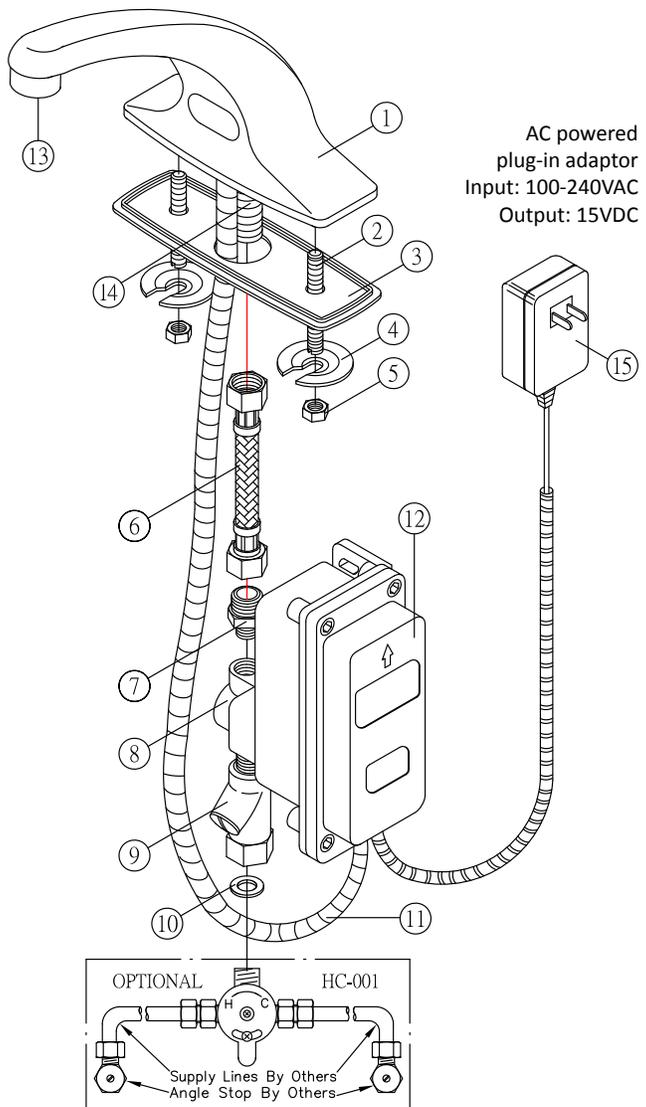
AC or Battery Powered Sensor Operated Faucet

Installation Instructions

- Prior to installation, thoroughly flush all water lines and replace stop washers, if required.
- Ensure the **Mounting Gasket (3)** is fitted onto the **Faucet Body (1)**. Attach the **Inlet Shank (14)** and **Supply Tube (6)** to the inlet on the **Faucet Body (1)**.
- Attach the **Mounting Bolts (2)** to the faucet body.
- Position faucet by lowering the **Mounting Bolts (2)**, **Inlet Shank (14)** including the attached **Supply Tube (6)**, and the **Sensor Eye Cable (11)** through the deck holes. Secure the faucet using the **Slotted Washers (4)** and the **Mounting Nuts (5)**.
- Considering the length of the **Supply Tube (6)**, drill two holes, 5 3/4" apart on the wall vertically, to mount the **Control Box (12)**, using the two mounting screws and anchors provided. Please make sure the **Control Box (12)** is mounted with the arrow on the lid pointing UP.
- Attach the **Solenoid Valve (8)** to the **Supply Tube (6)** using the **Compression Adapter (7)**.
 - Pre-tempered or cold water only:** Use a union fitting (not supplied) to connect the supply line (not supplied) from the supply stop to the **In-Line Filter (9)**.
 - Tempered water:** Attach an optional Hydrotek HC-001 or HC-003 mixing valve to the **In-Line Filter (9)**. Connect the supply lines (not supplied) to the mixing valve.

USE TEFLON TAPE FOR ALL CONNECTIONS, NO PIPE DOPE

- Connect the **Sensor Eye Cable (11)** into matching connector on the PC Board in the **Control Box (12)**; making sure the cables are seated properly.
- To ensure proper operation, "DRY TEST" the faucet by connecting power to the unit before turning water on.
 - AC Powered:** Plug the Power Adapter cable into the appropriate connector on the PC Board in the **Control Box (12)**, then plug the **Power Adapter (15)** into a 120 V AC wall outlet. Place your hand in front of the sensor eye and listen for a clicking sound.
 - Battery Powered:** Properly install new batteries into the battery holder. Place your hand in front of the sensor eye and listen for a clicking sound.
 - If there is no clicking sound, push the reset button on the PC Board inside of the **Control Box (12)**. Listen for a clicking sound.
 - **If there is still no clicking sound, call Hydrotek at the number listed below.**
- Insert the blue plug and the brass ring on the end(s) of the shielding for the **Sensor Eye Cable (11)** and the cable for the **AC Power Adapter (15)** (AC models ONLY), into the designated openings at the bottom of the **Control Box (12)**. To ensure proper water resistance, reinstall the cover for the **Control Box (12)** and tighten the screws.
- Turn on the water and check for leaks. Place hand in front of the sensor eye to activate water flow. Remove hands and the water should stop.
- Periodically clean the filter element in the **In-Line Filter (9)**.



Parts:

1. Faucet Body	9. In-Line Filter
2. Mounting Bolt (2)	10. Nylon Washer
3. Mounting Gasket	11. Sensor Eye Cable
4. Slotted Washer	12. Control Box
5. Mounting Nut	13. Aerator
6. Supply Tube	14. Inlet Shank
7. Compression Adapter	15. Power Adapter (AC models only)
8. Solenoid Valve	

HYDROTEK INTERNATIONAL, INC.

5055 Forsyth Commerce Rd., Ste 124
Orlando, FL 32807
800.922.9883 (Phone)
866.670.5580 (Fax)
www.hydrotekintl.com



IMPORTANT: (1) For outdoor installations, the faucets must be installed in fully enclosed spaces where they are completely shielded from direct sunlight, as exposure to the sun can affect performance. Hydrotek International, Inc. is not liable for any damages, malfunctions, or performance issues caused by exposure to direct sunlight.
(2) Additionally, the stop valve must not be opened beyond the point where water flow exceeds the sink drain's capacity. The sink's drain and plumbing must accommodate continuous water flow from the faucet to prevent overflow. Hydrotek is not responsible for any damages resulting from sink overflow caused by water flow exceeding the capacity of the drain or pipes. Proper installation and operation are the user's responsibility.

1000C Series

AC or Battery Powered Sensor Operated Faucet Troubleshooting Guide

OPERATION: When power is connected, the unit will automatically begin to perform the setup procedure. You will hear a click and the sensor light will flash. Once setup is complete, water will flow when the sensor is activated by placing the user's hands under the spout and will continue to flow for the duration of the sensor activation. Water flow will automatically stop once the user's hands are removed. Periodic maintenance is required for smooth and trouble-free operation.

PROBLEM	SYMPTOM	CAUSE	SOLUTION
LIMITED or NO water flow when the sensor is activated, clicking is undetectable	*Battery Units: Red sensor light is flashing continuously	Batteries are low on charge	Replace batteries
	*AC Units: Red sensor light does not flash during activation OR stays on continuously	There is no power to the unit	Verify power from the outlet. If there is power to the outlet, test the low voltage wires on the power adapter to confirm 15V+ output. If there is no voltage, replace power adapter
	Red sensor light does not flash during activation	Sensor is defective	Open control box and press RESET button on the PCB to confirm defective sensor. If clicking is detectable, replace sensor
LIMITED or NO water flow when the sensor is activated, clicking is detectable	Faucet is dripping, trickling, or does not flow at all	Water supply stop valves are closed or only partially open	Turn both stop valves fully open
	Faucet is dripping, trickling, or does not flow at all, and stop valves are fully open	Excessive line debris has clogged the inline filter and/or the aerator	Turn off both stop valves, remove inline filter screen and rinse with water. Remove aerator with aerator key and rinse with water
	Faucet is dripping, trickling, or does not flow at all, stop valves are fully open, and inline filter and aerator have been cleaned	Solenoid valve is clogged due to excessive hard water deposits	Repair solenoid valve with solenoid valve repair kit or replace complete solenoid valve assembly
	*Units with below deck mixing valves: Faucet is dripping, trickling, or does not flow at all, and stop valves are fully open	Mixing valve is defective	Disconnect tempered line and place in a bucket to confirm normal waterflow. If there is no flow, replace defective mixing valve
Continuous water flow or dripping with or without sensor activation	Water does not turn off	Possible sensor adjustment required or solenoid valve is defective	Shut off water to the unit immediately. Contact the Hydrotek Tech Support Line at the number listed below
	*3000C & 4000C MODELS ONLY: Water does not turn off	Manual override handle is enabled	Locate manual override handle on the right side and set to "automatic" position

For assistance with replacement parts or part numbers, please refer to the Assembly Parts Diagram.

For troubleshooting beyond the steps in this guide, please call:

**Hydrotek Technical Support
(800)922-9883**

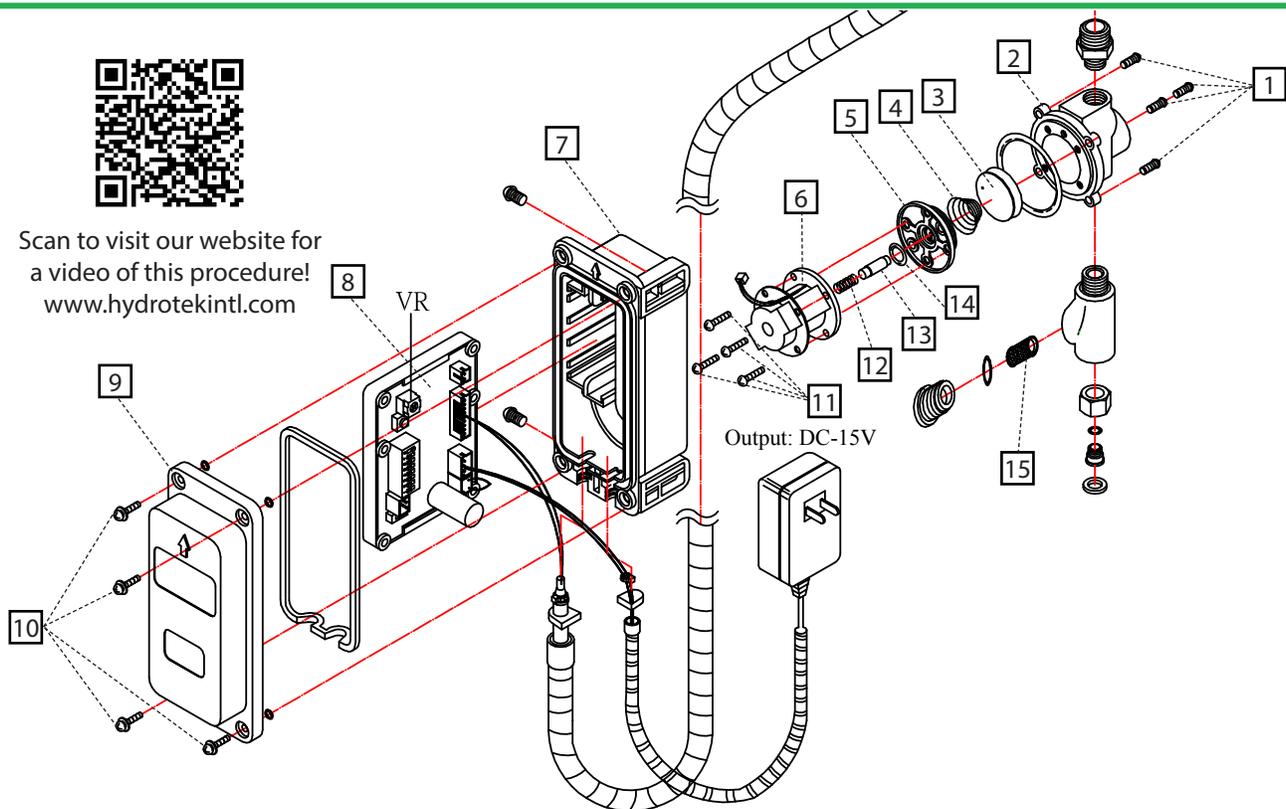
Care and Cleaning Instructions:

- **WARNING!** Using abrasive or chemical cleaners *will* damage the chrome or decorative finishes.
- Use only soap and water to clean the finish, then wipe dry with a clean cloth.
- If chemical cleaners are used for other parts of the lavatory, ensure that the faucet is protected from potential contact from those cleaners.

1000C Series

AC or Battery Powered Sensor Operated Faucet

HCB-017A Solenoid Valve Repair Kit Installation

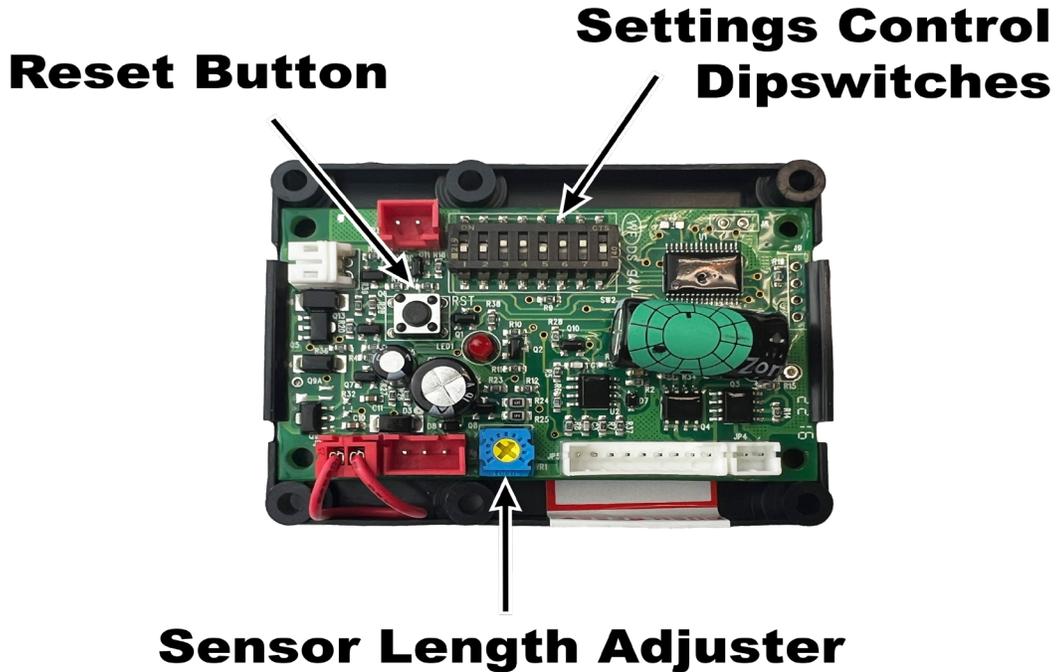


1. Turn off the water supply at the stop valve.
2. Place your hands within the sensor range to drain the residual water in the valve.
3. Disconnect both water supply lines from the solenoid valve (2) and the inline filter.
4. Remove the control box (7) from the wall, if possible, to gain easier access to the solenoid valve (2).
5. Loosen up all 4 control box cover screws (10) and remove the cover.
6. Disconnect the orange & blue solenoid wires (6) from the PC board (8).
7. Remove all 4 Philip screws (1) mounting the solenoid valve assembly (2) to the control box.
8. Remove and transfer the solenoid valve assembly (2) to a flat surface, remove all four solenoid coil screws (11), and separate the coil (6) from the valve seat (2).
9. Replace the solenoid piston (13), the piston spring (12), and the control valve's pencil size O-Ring (14).
10. Remove the control valve (5) and the Control Spring (4).
11. Gently tap the solenoid valve assembly (2) on a flat surface to remove the old control disc (3).
12. If excessive calcium, lime deposits are noticeable inside the valve body (2), use triple zero steel wool pad to smooth it out, then rinse with water ONLY.
13. Install the new control disc (3) into the valve seat, as well as the new control spring (4) into the center of the control valve (5).
14. Reinstall the control valve (5), the solenoid coil (6), and secure it with all 4 solenoid screws (11)
15. Mount the solenoid valve assembly (2) back on the control box (7) and reconnect the solenoid wire (6) to the PC board (8).
16. Remove the inline filter screen (15) and make sure it is clean of any line debris.
17. Reconnect both water supply lines to the valve assembly (2) and the inline filter.
18. With the power supply connected to the PC board, press the reset button on the PC board (8) to confirm solenoid click sound.
19. Mount the control box (7) back on the wall.
20. Turn the water ON at the stop valve and check all the connections for any possible leaks.
21. If no leak is detected, test the faucet by placing hands within the sensor range. The water should be flowing at full pressure.
22. Re-install the control box cover (9).

(For further questions, please call Hydrotek Tech Support at 1-800-922-9883 ext. 103)

1000C Series

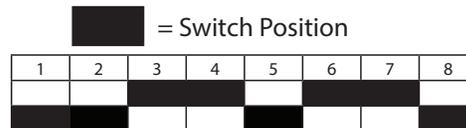
AC or Battery Powered Sensor Operated Faucet Control Module Settings



Shut Off Time Delay (After hands are removed)

Sw1	Sw2	Sw3	Delay
Off	Off	On	0.5 Sec
On	On	On	1 Sec
On	On	Off	2 Sec
On	Off	On	3 Sec
On	Off	Off	4 Sec
Off	On	On	5 Sec
Off	On	Off	6 Sec
Off	Off	Off	8 Sec

Factory Preset



Sensor Distance

Sw6	Mode	Distance
On	Std	4" - 12"
Off	Enhanced	10" - 12"

To increase distance, turn adjuster CLOCKWISE
To decrease distance, turn adjuster COUNTER-CLOCKWISE

Automatic Time Off (maximum run time after activation)

Sw4	Sw5	Time Off
On	On	Disabled
On	Off	20 Sec
Off	On	30 Sec
Off	Off	60 Sec

Faucet Switch - DO NOT TOUCH

Sw7	Sw8	Mode
On	Off	Auto Faucet

IMPORTANT: Always push the Reset Button after any adjustments

1000C Series

AC or Battery Powered Sensor Operated Faucet Assembly Parts

No	Description	Part Number
1	Aerator	HB-003SLIM0.5
2	Sensor Eye and Cable	HCC-030
3	Mounting Kit	HC-015
4	Flexible Supply Tube	HC-025B
5	Solenoid Valve Repair Kit	HCB-017A
6	Solenoid Coil	HCC-019
7	Filter Screen	HC-020
8	Inline Filter Screw Cap	HC-023D-02
9	Control Valve	HB-05-04
10	Solenoid Valve Assembly	HCC-005
11	PCB Module	HCC-011B
12	Control Box Assembly (AC)	HCC-003A
12	Control Box Assembly (Batt) <small>*HCC-103A included</small>	HCC-003B
13	AA Battery Holder	HCC-103A
14	AC Power Supply Assembly	HCC-008B

