

### **COLUMBIA SPECIFICATIONS**

### HANDS-FREE WALL MOUNTED WASH STATIONS

### AC OR BATTERY POWERED

2

- □ (1) Two-person wall mount wash station
- $\square$  (2) AC or battery powered sensor faucet assembly
- □ (2) Wall mounting brackets
- □ (2) Support brackets

Parts List

- $\Box$  (2) Mixing check value
- $\hfill\square$  (1) Strainer assembly with basket

#### **Tools Required**

Tape Measure
Adjustable Wrench
Drill Motor and Drill Bits
Pipe Wrench
Level
Safety Glasses
Screw Drivers: 1 Phillips & 1 Standard
Pencil
Socket Wrench

### **Installation Instructions**

#### Step 1

- 1. Establish sink location on the wall.
- Determine desired height for the top of the backsplash from finished floor and draw a level line which will be the top edge of the wall mounting bracket.
- 3. Hold the wall mounting bracket against the wall and mark the wall where the holes are. Drill holes and secure bracket to the wall as shown in illustration A. Screws are not provided.

#### Step 2

- 1. Install strainer assembly.
- 2. Install faucets to the sink following the instructions provided with sensor unit.
- 3. Attach supply tube with elbow to back of faucet.
- 4. Install mixing check valve and compression fitting to control box of each sensor faucet.

#### Step 3

- 1. Position the sink onto wall bracket.
- Loosely attach support brackets under sink and push against wall then mark holes for drilling as shown in illustration B.
- 3. Remove support brackets from sink and drill holes for mounting fasteners (not provided).
- 4. Re-mount support brackets to sink and fasten to wall.

#### Step 4

- 1. Connect waste line to strainer assembly (s).
- 2. Mount sensor control box at desired location on wall.
- 3. Connect power line from sensor to control box.
- 4. Attach supply tube from faucet to control box.
- 5. Connect hot and cold water from the source to mixing check valve (s).
- Remove aerator from the spout assemblies and flush water system. (see step 7 sensor installation instructions)
- 7. Check connections for leaks.
- 8. Replace aerator onto the spout (s).
- 9. We recommend sealing top of backsplash to wall as shown in illustration C.

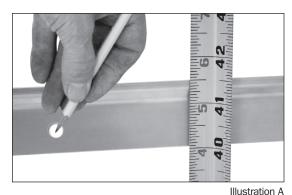






Illustration B



Illustration C

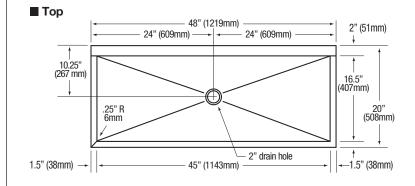
COLUMBIA PRODUCTS

### **COLUMBIA SPECIFICATIONS**

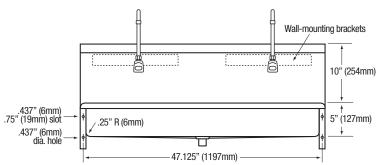
### HANDS-FREE WALL MOUNTED WASH STATIONS

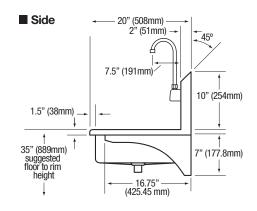
### AC OR BATTERY POWERED

3

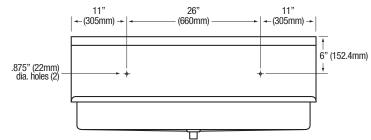




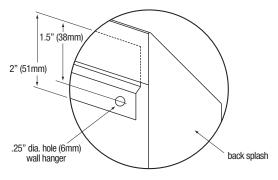




Hole Configurations



#### Wall Mounting Detail



COLUMBIA PRODUCTS

1622 Browning • Irvine, CA • 92606-4809 • Phone: 949.474.0777 • Toll Free: 800.626.2117 • Fax: 949.474.1191 • www.columbiasinks.com • email: info@columbiasinks.com

# **HYDROTEK INTERNATIONAL, INC.**

5055 Forsyth Commerce Rd., Ste. 124, Orlando, FL 32807 Phone (800)922-9883 / Fax (866)670-5580 www.hydrotekintl.com

## **OPERATION & MAINTENANCE MANUAL**

## HYDROTEK MODEL #H-6700C FAUCET

TECHNICAL SUPPORT TEAM: Michael Hu & Armin Kharazi Phone (800) 922-9883 ext. 105 Email: mike@hydrotekintl.com or armin@hydrotekintl.com



# Solid Brass AC or Battery Powered Automatic Faucet

6700C Series

ISO 9002 Certified

# High Technology For No Touch Operation

- 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

## 6700C Series



# **Features:**

- ACCU-SENSE adjustable sensor eyes.
- Chrome plated, solid brass construction.
- Wall mountable, waterproof control box with armored, vandal resistant control and power cables.
- Preset/adjustable sensor range 6" 30" for various installation requirements.
- Standard automatic time-out feature. Preset at 0 but adjustable to 15, 30 or 60 seconds. Prevents accidental sink overflow.
- Shut-off delay is adjustable from 1 second (preset) to 8 seconds.
- Includes in-line filters with clean-out trap to reduce maintenance costs.
- Standard 6" gooseneck spout and 2.0 GPM laminar flow control.

- Single-hole, wall/splash mounting.
- All parts are field replaceable to ensure quick and easy repair.
- Same faucet, field switchable to/from AC Powered or Battery Powered.
- Slow closing, piston-operated solenoid valve provides reliable and smooth operation without water hammer.
- Superior VSI silicone elastomer piston seals are unaffected by chlorine, chloromines or ammonia.
- Control module automatically performs a unique self-check of all electrical components.
- No-touch system enhances hygiene in the medical, institutional, food service industries, etc.

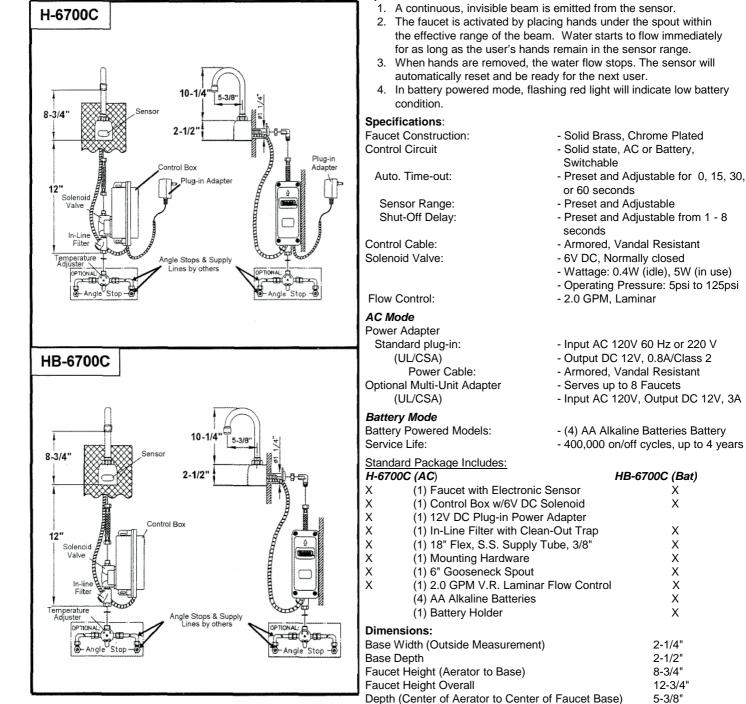
# **Hydrotek Automatic Gooseneck Faucet**

**Non-Mixing / Wall Mounted** 

Model H-6700C (AC) or HB-6700C (Battery)

Meets ANSI/ASME A112.18.1M-1989

### Operation:



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Optional Variations and Accessories:

Mounting Bolt Length

Mounting Bolt Pattern

 1.6 GPM Soft-Flow Aerator 1.5 & 2.5 GPM Laminar Flow Control and Rose Spray Head

1-7/16"

Single-Hole Mount

- HC-010 Multi-Unit Voltage Adapter (AC Powered Only)
- HC-001 Mixing/Check Valve (Mechanical)
- HBL-04 Thermostatic Mixing Valve with Checks
- 8" deep Gooseneck and 6" or 8" Swing Spout

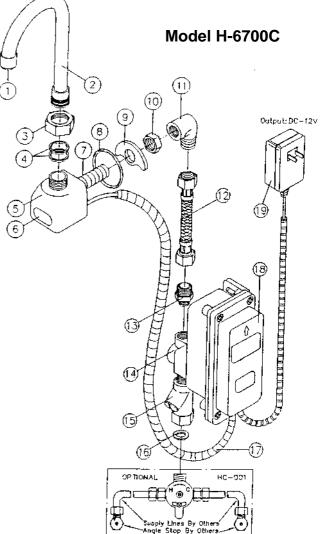
## INSTALLATION INSTRUCTIONS

## Hydrotek Non-Mixing Automatic Faucet (AC Powered)

- 1. Prior to installing this faucet, thoroughly flush all water lines and replace stop washers, if necessary.
- To ensure proper operation, "DRY TEST " the faucet by plugging (17) Sensor eye cable connector into the matching connector on the PC board inside the (18) Control box. Plug (19) Power adapter output connector into matching connector on PC board located inside the (18) Control box. Plug (19) Power adapter into 120 V AC outlet. Place your hand in front of faucet sensor eye. If there is a clicking sound, the faucet is activating properly. If not, call the factory.
- After successful "DRY TEST," unplug connectors from both the Sensor eye cable and Power adapter to the PC board.
- Loosen (1) Flow control device and assemble (2) Gooseneck spout using (4) Split washers and (3) Spout nut. Mount Gooseneck spout onto (5) Faucet body. Feed (17) Sensor eye cable through sink wall and mount faucet onto the sink using (8) O-ring, (9) Washer, and (10) Mounting nut. Attach (11) 90 Degree elbow to (7) Supply rod.
- 5. Connect electrical Sensor eye cable and Power adapter as described in STEP #2, making sure that the Sensor eye and Power adapter cables are seated into the Control box housing properly.
- Attach (13) Compression fitting to (14) Solenoid valve and connect it to the (11) Elbow using (12) Supply tube. Insert (16) Nylon washer into the swivel nut located on the (15) In-line filter inlet (for pre-tempered or cold water only). Using a union fitting (not supplied), connect supply line (not supplied) from supply stop to (15) In-line filter inlet swivel nut (for tempered water).

>>Attach optional Hydrotek HC-001 Mixing/Check Valve or HC-003 Mixing "T" w/checks to In-line filter inlet. Connect supply lines (not supplied) from hot and cold supply stops to Mixing valve or Mixing "T" inlets. Use Teflon Tape, not Pipe Dope for all connections.

- 7. Turn on water and check for leaks. Plug (19) Power adapter into 120V AC outlet. Reinstall Control box cover and tighten screws to insure that the box is water-resistant. Coil excess Power Adapter wire and secure in a safe, dry area. Place hand in front of Sensor eye to activate water flow. Remove hands and water should stop. If not, refer to troubleshooting guide.
- 8. Periodically clean the filter element located inside the In-line filter.
- 9. For minor adjustments, refer to the instructions located inside the Control box cover.



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	Part Number Descriptions			
1.	Laminar flow control	11. 90 Degree elbow		
2.	Gooseneck spout	12. Supply tube		
3.	Spout nut	13. Compression fitting		
4.	Split washer	14. Solenoid valve		
5.	Faucet body	15. In-line filter		
6.	LED sensor	16. Nylon washer		
7.	Supply rod	17. Sensor eye cable		
8.	O-ring	18. Control box		
9.	Washer	19. Power adapter		
10.	Mounting nut			

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NO	DESCRIPTION	PART NO.	N
1	Flow Control Device		4
2	Gooseneck Spout	HC-026D-01	4
3	0-Ring(H018)*2	HC-014-09	4
4	Spout Nut	H4-01D-02A	4
5	Spil Washer*2	H4-01-03	4
6	Body	B67-01D-01B	4
7	0-Ring(H118)	HC-014-16	4
8	Sensor Cover	PC-004-31A	4
9	0-Ring(H021)	HC-014-33	4
10	Sensor Eye & Cable	PC-006-28	• 4
11	Screw*2	HC-013-27	5
12	Screw*4	HC-013-04	5
	Bottom Cover	B67-01-02A	5
	0-Ring(H012)	HC-014-18	
15	Supply Rod	B67-01B-03A	
16	0-Ring(H224)	HC-014-45	
17	Mounting Washer	H2-03B-0101A	
18	Mounting Nut	B2-01-06	
19	Elbow	B67-01-04A	
20	Supply Tube	HC-004-04	
21	Compression Adaptor		
22	Screw*4	HC-013-57	
23		HC-023D-A	
24		HC-002-04A	
25	Filter Screen	HC-009-03	
26	0-Ring(H016)	HC-014-36	
27	Filter Cap	HC-023D-02	
28	Valve Seat	HB-011-03	
29	0-Ring(H031)	HC-014-61	
	Rubber Plug	HB-02-06	ł
31	Control Disc+Rubber	HC-005-03E	]
32	Control Disc Spring	HC-003-03	ļ
33	0-Ring(H022)	HC-014-30	]
34	0-Ring(H023)	HC-014-11	]
35		HB-05-04	
36		HC-014-03	
37	Piston Tip	HB-04-09A	1
38		HB-04-08A	]
	Piston Spring	HB-04-07A	1

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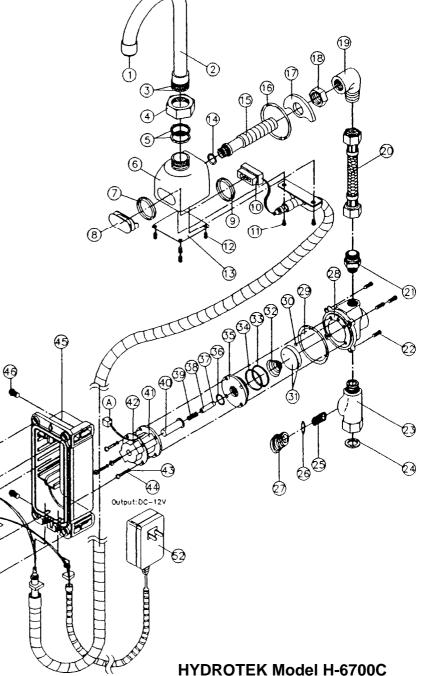
(A)

43

60,49

5)

10	DESCRIPTION	PART NO.
ŧÒ	Piston Shaft	HB-04-06A
41	Coil	HB-04-05A
<del>1</del> 2	Metal Gasket	HB-04B-E
43	Lock Washer *4	HB-01-20
44	Screw *4	HC-013-35
45	Control Box	HB-012-0101
16	Screw *2	HC-013-52
47	P.C.B	PC-009-32
18	Rubber Seal	HB-012-0102
49	0-Ring(006)*4	HC-014-62
50	Box Cover	HB-012-0201
51	Screw *4	HC-013-52
52	Ac Adaptor	HC-012-07D
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HYDROTEK Model H-6700C

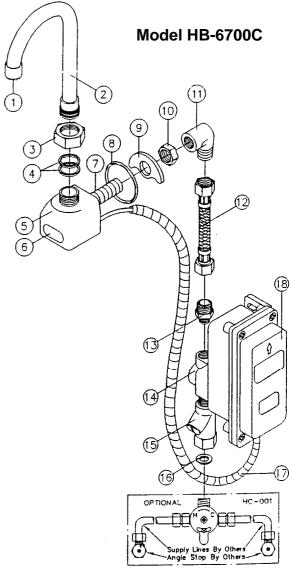
# INSTALLATION INSTRUCTIONS

## Hydrotek Non-Mixing Automatic Faucet (Battery Powered)

- 1. Prior to installing this faucet, thoroughly flush all water lines and replace stop washers, if necessary.
- 2. To ensure proper operation, "DRY TEST " the faucet by plugging (17) Sensor Eye Cable connector into the matching connector on the PC board inside the (18) Control Box. Pull out PC board for easier access. Properly install batteries in Battery Holder and plug Battery Holder output connector into the corresponding connector on the PC board. Place your hand in front of faucet sensor eye. If there is a clicking sound, the faucet is activating properly. If not, call the factory.
- 3. After successful "DRY TEST," unplug Sensor Eye Cable and Battery Holder connectors from the PC board.
- \*\*Use Teflon Tape, not Pipe Dope for all connections. Loosen (1) Flow Control Device and assemble (2) Gooseneck Spout using (4) Split Washers and (3) Spout Nut. Mount gooseneck spout onto (5) Faucet Body. Feed (17) Sensor Eye Cable through the sink wall and mount the faucet onto the sink using (8) Oring, (9) Washer and (10) Mounting Nut. Attach (11) 90-Degree Elbow to (7) Supply Rod.
- 5. Connect Sensor Eye Cable as described in STEP #2, making sure that the Sensor Eye cable is seated into the Control box housing properly.
- Attach (13) Compression Fitting to (14) Solenoid Valve outlet and connect it to (12) Supply Tube using (11) Elbow and (13) Compression Fitting. Insert (16) Nylon Washer into swivel nut located on (15) In-line Filter Inlet (for pre-tempered or cold water only). Using a union fitting (not supplied), connect supply line (not supplied) from supply stop to (15) In-line Filter inlet swivel nut (for tempered water).
   >Attach optional Hydrotek HC-001 Mixing/Check Valve or HC-003 Mixing "T" w/checks to In-line filter inlet. Connect supply lines (not supplied) from hot and cold supply stops to Mixing valve or Mixing "T" inlets.

Use Teflon Tape, not Pipe Dope for all connections.

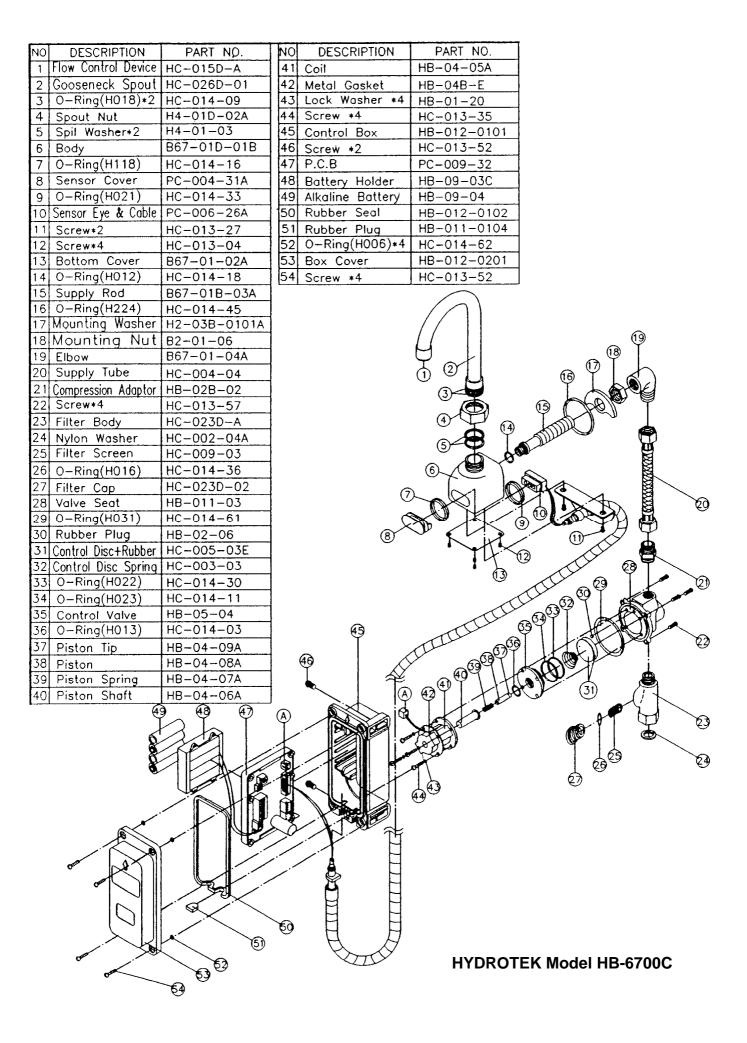
- Turn on water and check for leaks. Connect Battery holder to the PC board and reinstall the Control box cover. Tighten screws to ensure that the box is water resistant. Place hand in front of Sensor eye to activate water flow. Remove hands and water should stop. If not, refer to troubleshooting guide.
- Periodically clean the filter element located inside the (15) In-line filter.
- 9. For minor adjustments, refer to the instructions located inside the Control box cover.



Part No. Description	Part No. Description
1. Laminar Flow Control	10. Mounting Nut
2. Gooseneck Spout	11. 90 Degree Elbow
3. Spout Nut	12. Supply Tube
4. Split Washer	13. Compression Fitting
5. Body	14. Solenoid Valve
6. LED Sensor	15. In-Line Filter
7. Supply Rod	16. Nylon Washer
8. O-Ring	17. Sensor Eye Cable
9. Washer	18. Control Box

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### HYDROTEK AUTOMATIC FAUCET TROUBLESHOOTING GUIDE

(AC Powered)

Normal Operation: When power is connected or RESET button is pushed, the lights on the Printed Circuit Board (PCB) will blink in the following sequence: red – red (with solenoid clicking) – green – red – red. Green light will remain lit. When the user's hands are placed under the spout, the red indicator light on the faucet and PC board will illuminate and water will begin to flow. Water flow will stop when hands are removed. Always push the RESET button BEFORE attempting to diagnose any problem and AFTER taking corrective action.

PROBLEM	POSSIBLE CAUSE	TO DIAGNOSE	REMEDY
Faucet will not turn on:	Water not turned on.	Check water supply.	Turn water on.
	Power supply failure.	Check power adapter voltage, polarity, wires, and connections.	Replace power adapter and reconnect. Push RESET button.
	Sensor distance is too short.	Use hand/palm to find focal point of sensor beam.	To adjust sensor distance out, turn adjustment clockwise. Push RESET button.
	Electronic PCB is defective.	With power adapter plugged in, push RESET button. No light, no action.	Replace PCB.
	Sensor eyes are defective.	With power adapter plugged in, place hands in front of sensor eyes. Indicator light on faucet does not blink.	Replace sensor eyes and cable.
	Solenoid valve is clogged.	Solenoid is clicking but no water is coming out.	Clean solenoid and blow free all by-pass holes. Replace control disc. Push RESET button.
	In-line filter is clogged.	Open clean-out trap and check filter screen.	Clean or replace filter screen.
	Solenoid coil is defective.	With power adapter plugged in, push the RESET button. Light blinks but no solenoid clicking.	Replace solenoid coil. Push RESET button.
Faucet will not shut	-	blinks but no solenoid clicking. bsed. Turn off water and activate fau	<b>u</b>

off:

**not shut** Solenoid valve is normally closed. Turn off water and activate faucet. If there is a clicking sound, the solenoid valve is dirty. If there is no clicking sound, then replace solenoid valve. Other factors could be problematic (Sensor distance adjustment could be too long or electronic PCB could be defective). If the faucet is dripping, the solenoid valve needs a rebuild kit. Follow the same procedures as above for remedies.

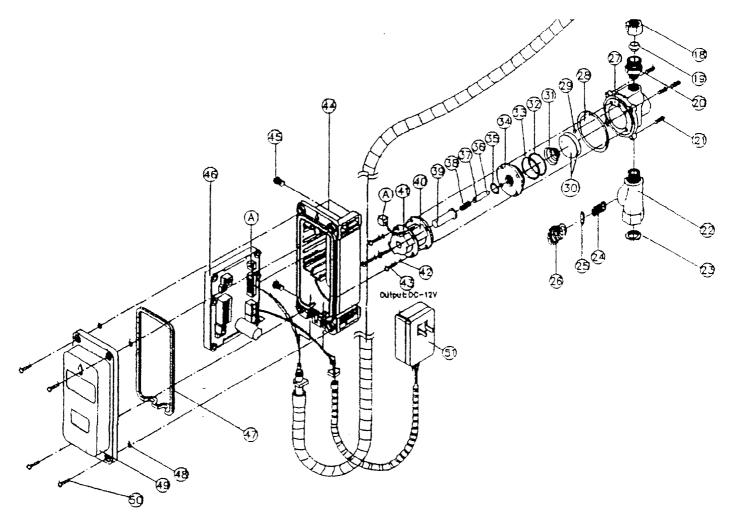
**IMPORTANT:** Periodic maintenance is required for smooth and trouble-free operation of this faucet.

For more detailed remedy procedures, please call Hydrotek Tech Support at (800)922-9883 ext. 105

## SOLENOID VALVE CLEANING FOR HYDROTEK 1000C, 2603C, 6000C, 6700C FAUCETS

- (AC AND BATTERY POWERED)
- 1. Turn off water supply at stop valve.
- 2. Remove control box (if possible) to gain access to the solenoid valve.
- 3. Remove four Screws (#21) and separate the valve from the box.
- 4. Remove four Coil Screws (#43) and separate Coil (#41) from Valve Seat (#27).
- 5. When separating Plastic Control Valve (#34) be careful to retain the small Orange Rubber Plug (#29). Re-install this on Brass Valve Seat (#27).
- 6. Clean or replace Control Disc (#30), Disc Spring (#31), Piston & Tip (#36 and 37), Piston Spring (#38), and check Sleeve (#39) for corrosion.
- 7. Re-install all parts in same order as the diagram below.
- 8. Re-install solenoid on the control box and re-mount box in water line.
- 9. Check and clean Filter Screen (#24) in Filter Body (#22).
- 10. Reset P.C. Board and make sure solenoid clicks open and thumps closed.
- 11. Turn on water and check for leaks and proper operation.

(For further questions, please call Hydrotek Tech Support at 1-800-922-9883 ext. 105)

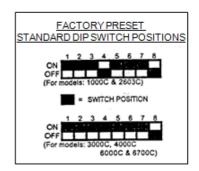


### **HYDROTEK AUTOMATIC FAUCET: DIP SWITCHES**

### \*NOTE: ALWAYS PUSH THE RESET BUTTON AFTER ANY ADJUSTMENTS\*

A. Shut Off Time Delay (After hands are removed):

Sw 1	Sw 2	Sw 3	Time Delay
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	ON	7-Sec
OFF	OFF	OFF	8-Sec



B. Automatic Time Off (Maximum run time after activation):

	Sw 4	Sw 5	Time Off
	ON	ON	0 Sec
	ON	OFF	15 Sec
	OFF	ON	30 Sec
ĺ	OFF	OFF	60 Sec

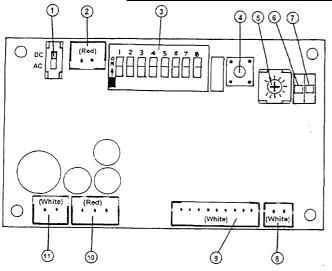
C. Sensor Distance: To increase distance, turn SDA screw <u>clockwise</u>. To decrease distance, turn screw counter-clockwise.

Sw 6	Mode	Distance
ON	Std	4" – 12"
OFF	Enhanced	10" – 24"

D. Faucet Switch:

Sw 7	Sw 8	Product
ON	OFF	Auto Faucet

### **Control Module Diagram for C-Series Faucets**



- 1. AC/DC Switch
- 2. Battery Holder Pin Connector (Red)
- 3. Dip Switches
- 4. Reset Button
- 5. Sensor Distance Adjustment (SDA)
- 6. Indicator LED (Green)
- 7. Indicator LED (Red)
- 8. Solenoid Pin Connector (White)
- 9. Sensor Eye Control Cable (White)
- 10. AC Power Adapter Pin Connector (Red)
- 11. Battery Holder Pin Connector (White)

### Hydrotek International, Inc. Phone: 800-922-9883 / Fax: 866-670-5580

### Suggested Backup Parts for 6700C Series Faucets AC or Battery Powered Lavatory Faucets

Part Number From Drawing	Hydrotek Item Code	Description
49	HCC-002	AA 1.5V Battery *4 req. per faucet (for Battery Model)
52	HCC-008B	12V AC Adapter (for AC Model)
23-27	HC-009B	In-line filter
10	HCC-033	Sensor Eyes & Cable
47 47	HCC-011A HCC-011B	Module – PCB for AC Model Module – PCB for Battery Model
17-18	HC-015C	Mounting Kit
25	HC-020	Filter Screen
20	HC-025E	Flexible Supply Tube
1	HB-003CF	Laminar Flow Control
31,32,36,37,38,39	HCB-017A	Valve Repair Kit
41-42	HCC-019	Solenoid Coil Only
27-54	HCC-003B	Complete Control Box Assembly

(Please visit www.hydrotekintl.com to view our most current Products Pricing Sheet)