# **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 #HB-2603C 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**

2603C Series ISO 9002 Certified



### 2603C Series U.S. Patent: 192530B1

# Features:

free codes

applications

and reliability

commercial market

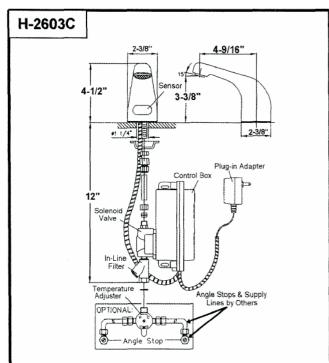
- **ACCU-SENSE** adjustable sensor eyes.
- Chrome plated, solid brass construction.
- Wall mountable, waterproof control box with armored, vandal resistant control and power cables.
- Preset/adjustable sensor range 6" 30" for various installation requirements.
- Standard automatic time-out feature. Preset at 30 but adjustable to 0, 15 or 60 seconds. Prevents accidental sink overflow.
- Shut-off delay is adjustable from 1 second (preset) to 8 seconds.
- Solid brass body with single hole deck mounting. Optional 4" or 8" Cover Plate for 3 point anchoring.

- Includes in-line filter with clean-out trap to reduce maintenance costs.
- 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.
- Standard 1.5 GPM Laminar Flow Control.
- Control module automatically performs a unique self-check of all electrical components.

# **Hydrotek Non-Mixing Automatic Faucet**

## Model H-2603C (AC) or HB-2603C (Battery)

Meets ANSI/ASME A112.18.1M-1989



# HB-2603C 4-1/2" Sensor 3-3/8" Control Box Valve In-Line Filter Temperature Angle Stops & Supply Lines by Others OPTIONAL: Angle Stop

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#### Operation:

- 1. A continuous, invisible beam is emitted from the sensor.
- The faucet is activated by placing hands under the spout within the effective range of the beam. Water starts to flow immediately for as long as the user's hands remain in the sensor range.
- When hands are removed, the water flow stops. The sensor will automatically reset and be ready for the next user.
- In battery powered mode, flashing red light will indicate low battery condition.

#### Specifications:

Faucet Construction - Solid Brass, Chrome Plated
Control Circuit - Solid state, AC or Battery, S

ontrol Circuit - Solid state, AC or Battery, Switchable
Auto. Time-out: - Preset and Adjustable for 0, 15, 30,
or 60 seconds

Sensor Range: - Preset and Adjustable

Shut-Off Delay: - Preset and Adjustable from 1 - 8

seconds

Control Cable: - Armored, Vandal Resistant Solenoid Valve: - 6V DC, Normally closed

Wattage: 0.4W (idle), 5W (in use)
Operating Pressure: 0.3 Bar to 10 Bar (5 psi to 125 psi)

Flow Control: - 1.5 GPM, Vandal Resistant

#### AC Mode

Power Adapter Standard plug-in:

(UL/CSA)
Power Cable:
Optional Multi-Unit Adapter
(UL/CSA)

Input AC 120V 60 Hz or 220 V
 Output DC 12V, 0.8A/Class 2

- Armored, Vandal Resistant- Serves up to 8 Faucets

- Input AC 120V, Output DC 12V, 3A

#### Battery Mode

Battery Powered Models: Battery Service Life:

- (4) AA Alkaline Batteries

- 400,000 on/off cycles, up to 4 years

#### Standard Package Includes:

H-26	<b>03C (AC</b> )	HB-2603C (Bat)
Х	(1) Faucet with Electronic Sensor	X
Χ	(1) Control Box w/6V DC Solenoid	X
X	(1) 12V DC Plug-in Power Adapter	
Χ	(1) In-Line Filter with Clean-Out Trap	X
Χ	(1) Copper Supply Tube, 3/8"	X
Х	(1) Mounting Hardware	X
Χ	(1) 1.5 GPM V.R. Laminar Flow Control	X
	(4) AA Alkaline Batteries	X
	(1) Battery Holder	X
D:		

#### Dimensions

Dimensions:	
Base Width (Outside Measurement)	2-3/8"
Base Depth	2-3/8"
Faucet Height (Aerator to Base)	3-3/8"
Faucet Height Overall	4-1/2"
Depth (Center of Aerator to Center of Faucet Base)	4-9/16"
Mounting Bolt Length	2-1/4"

Mounting Bolt Pattern Single-Hole Mount

#### **Optional Variations and Accessories:**

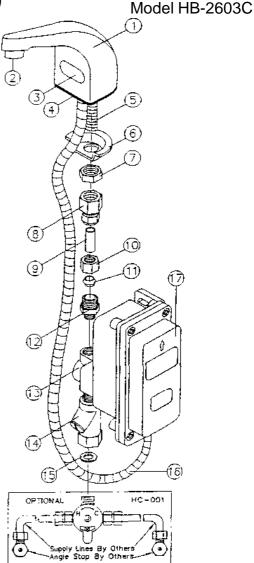
- 0.5 Rosette & 1.6 GPM VR Soft-Flow Aerator 2.0 & 2.5 GPM Laminar Flow
- 4" or 8" Centerset Cover Plate
- HC-010 Multi-Unit Voltage Adapter (AC Powered Only)
- HC-001 Mixing/Check Valve (Mechanical)
- HBL-04 Thermostatic Mixing Valve with Checks

# 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 (16) Sensor eye cable connector into the matching connector on the PC board inside the (17) Control box (pull out the PC board and Battery holder for easier access). Properly install batteries into the Battery Holder and plug Battery Holder output connector into the corresponding connector on the PC board. Place your hands in front of the faucet's Sensor eye. If there is a clicking sound, the faucet is activating properly. If not, call the factory.
- 3. After successful "DRY TEST," unplug the Sensor eye cable and Battery holder connectors from the PC board.
- Set faucet on sink. Apply plumbers putty to the bottom of the gasket. Secure faucet to the sink using (6) Washer and (7) Mounting nut. Connect (9) Supply tube to the (5) Supply rod using the (8) Compression adapter.
- 5. Connect electrical Sensor eye cable as described in STEP #2, making sure that the Sensor eye cable is seated into the Control box housing properly.
- 6. Attach (12) Compression fitting to (13) Solenoid valve outlet and connect it to (9) Supply tube using (10) Compression nut and (11) Compression ferrule. Insert (15) Nylon washer into the swivel nut located on (14) Inline filter inlet (for pre-tempered or cold water only). Using a union fitting (not supplied), connect the supply line (not supplied) from the supply stop to (14) 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 (14) In-line filter inlet. Connect Supply lines (not supplied) from hot and cold supply stops to Mixing valve or Mixing "T" inlets. Note: Use Teflon Tape, not Pipe Dope for all connections.
- 7. Turn on water and check for leaks. Connect Battery holder to the PC board. Reinstall the Control box cover and tighten screws to ensure that the box is water resistant. Place hands in front of Sensor eye to activate water flow. Remove hands and water should stop. If not, refer to the troubleshooting guide.
- 8. Periodically clean the filter element located inside (14) In-line filter.
- 9. For minor adjustments, refer to the instructions located inside the Control box cover.



	Part Number Descriptions		
1.	Faucet body	10. Compression nut	
2.	Laminar flow control	11. Compression ferrule	
3.	LED sensor	12. Compression fitting	
4.	Gasket	13. Solenoid valve	
5.	Supply rod	14. In-line filter	
6.	Washer	15. Nylon washer	
7.	Mounting nut	16. Sensor eye cable	
8.	Compression adapter	17. Control box	
9.	Supply tube		

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19   Nylon Washer   HC-002-04A     42   P.C.B   PC-009-32	25 Rubber Plug 26 Control Disc+Rubber HC-005-03E 27 Control Disc Spring 40-005-03E 28 O-Ring(H022) HC-0014-30 28 O-Ring(H023) HC-014-13 30 Control Volve 41 HB-05-04 31 O-Ring(H013) HC-014-03 32 Piston Tip 48-04-09A 33 Piston 48-04-09A 34 Piston Spring 48-04-07A 35 Piston Shaft 48-04-05A 36 Coil 37 Metal Gasket 48-04-05A 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box 41 Alkaline Battery 41 HB-09-03C 44 Alkaline Battery 45 Rubber Seal 46 Rubber Plug 47 O-Ring(H006)*4 HC-014-62 48 Box Cover 49 Screw *4 HC-013-52  49 Screw *4 HC-013-52  6 Rubber Plug 49 Screw *4 HC-013-52  6 Rubber Plug 40 Formacher 41 HB-01-0102 42 PC-B 43 Battery Holder 44 Alkaline Battery 45 Rubber Seal 46 Rubber Plug 47 O-Ring(H006)*4 HC-014-62 48 Box Cover 49 Screw *4 HC-013-52
2 O-Ring(H118) HC-014-16 3 Sensor Cover PC-004-31A 4 O-Ring(H021) HC-014-33 5 Sensor Eye & Cable PC-006-27 6 Screw+2 HC-013-27 7 Gasket B2-01-08 8 O-Ring(H012) HC-014-18 9 Supply Rod B2-018-02 10 Mounting Washer B2-01-05 11 Mounting Washer B2-01-06 12 Compression Reducer HC-009-12 13 Supply Tube H6-01-07 14 Compression Nut HC-0018-08A 15 Ferrule HC-001-07A 16 Compression Adaptor H1-03B-0104A 17 Screw+4 HC-013-57 18 Filter Body HC-023D-A 19 Nylon Washer HC-002-04A 20 Filter Screen HC-009-03 21 O-Ring(H031) HC-014-61 22 Filter Cap HC-023D-02 23 Valve Seat HB-011-03 24 O-Ring(H031) HC-014-61 49 Screw +4 HC-013-52 6 Sensor Eye & Cable PC-006-27 6 Screw+2 HC-014-18 30 Control Disc Spring HC-003-03 31 O-Ring(H022) HC-014-10 30 Control Valve HB-05-04 31 O-Ring(H013) HC-014-03 32 Piston Tip HB-04-09A 33 Piston Shaft HB-04-06A 36 Coil HB-04-06A 36 Coil HB-04-06A 37 Metal Gasket HB-04-06A 38 Lock Washer +4 HB-01-20 39 Screw +4 HC-013-35 40 Control Box HB-012-0101 41 Screw+2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)+4 HC-014-62 48 Box Cover HB-012-0201 49 Screw +4 HC-013-52	26 Control Disc+Rubber  HC-005-03E   27 Control Disc Spring  HC-003-03   28 0-Ring(H022)  HC-014-30   29 0-Ring(H023)  HC-014-11   30 Control Valve  HB-05-04   31 0-Ring(H013)  HC-014-03   32 Piston Tip  HB-04-09A   33 Piston Spring  HB-04-07A   35 Piston Shaft  HB-04-06A   36 Coil  HB-04-05A   37 Metal Gasket  HB-04B-E   38 Lock Washer +4  HB-01-20   39 Screw +4  HC-013-35   40 Control Box  HB-012-0101   41 Screw +2  HC-013-52   42 P.C.B  PC-009-32   43 Battery Holder  HB-09-03C   44 Alkaline Battery  HB-09-03C   45 Rubber Seal  HB-011-0104   47 O-Ring(H006)+4  HC-014-62   48 Box Cover  HB-012-0201   49 Screw +4  HC-013-52   6
3   Sensor Cover	27 Control Disc Spring  HC-003-03 28 0-Ring(H022)  HC-014-30 29 0-Ring(H023)  HC-014-11 30 Control Valve  HB-05-04 31 0-Ring(H013)  HC-014-01 32 Piston Tip  HB-04-09A 33 Piston Spring  HB-04-08A 34 Piston Spring  HB-04-05A 35 Piston Shaft  HB-04-05A 36 Coil  HB-04-05A 37 Metal Gasket  HB-04B-E 38 Lock Washer +4  HB-01-20 39 Screw +4  HC-013-35 40 Control Box  HB-012-0101 41 Screw +2  HC-013-52 42 P.C.B  PC-009-32 43 Battery Holder  HB-09-03C 44 Alkoline Battery  HB-09-04 45 Rubber Seal  HB-012-0102 46 Rubber Plug  HB-011-0104 47 0-Ring(H006)+4  HC-014-62 48 Box Cover  HB-012-0201 49 Screw +4  HC-013-52
4   O-Ring(H021)   HC-014-33   Sensor Eye & Cable   PC-006-27   Casket   B2-01-08   Sorew-2   HC-013-27   Casket   B2-01-08   Sorew-2   HC-014-18   Control Volve   HB-05-04   Control Volve   HB-04-08A   Control Volve   HB-04-08A   Control Volve   HB-04-08A   Control Volve   HB-04-09A   Control Volve   HB-04-08A   Control Volve   HB-04-09A   Control Volve   HB-04-08A   Cont	28
Sensor Eye & Cable   PC-006-27   6   Screw+2   HC-013-27   7   Gasket   B2-01-08   8   O-Ring(H012)   HC-014-18   31   O-Ring(H013)   HC-014-03   32   Piston Tip   HB-04-09A   33   Piston Tip   HB-04-08A   34   Piston Spring   HB-04-06A   35   Piston Shaft   HB-04-06A   36   Piston Shaft   HB-04-06A   37   Metal Gasket   HB-04-05A   38   Piston Shaft   HB-04-05A   39   Piston Shaft   HB-04-05A   39   Piston Shaft   HB-04-05A   30   Piston S	29  O-Ring(H023)  HC-014-11 30  Control Valve  HB-05-04 31  O-Ring(H013)  HC-014-03 32  Piston Tip  HB-04-09A 33  Piston  HB-04-08A 34  Piston Spring  HB-04-06A 35  Piston Shaft  HB-04-06A 36  Coil  HB-04-05A 37  Metol Gasket  HB-04B-E 38  Lock Washer +4  HB-01-20 39  Screw •4  HC-013-35 40  Control Box  HB-012-0101 41  Screw •2  HC-013-52 42  P.C.B  PC-009-32 43  Battery Holder  HB-09-03C 44  Alkaline Battery  HB-09-03C 45  Rubber Piug  HB-011-0104 47  O-Ring(H006)•4  HC-014-62 48  Box Cover  HB-012-0201 49  Screw •4  HC-013-52
Screw+2	30 Control Volve 31 0-Ring(H013) HC-014-03 31 0-Ring(H013) HC-014-03 32 Piston Tip HB-04-09A 33 Piston Spring HB-04-07A 35 Piston Shaft HB-04-05A 36 Coil HB-04-05A 37 Metal Gasket HB-04-05A 38 Lock Washer +4 HB-01-20 39 Screw +4 HC-013-35 40 Control Box HB-012-0101 41 Screw +2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-04 45 Rubber Plug HB-011-0104 45 Rubber Plug HB-011-0104 46 Rubber Plug HB-011-0104 47 0-Ring(H006)+4 HC-014-62 48 Box Cover HB-012-0201 49 Screw +4 HC-013-52
31   O-Ring(H013)   HC-014-03   Reduce   HC-014-05   Reduce   HC-014-05   Reduce   HC-009-12   Reduce   HC-009-12   Reduce   HC-001-07   Reduce   HC-013-35   Reduce   HC-013-3	31 O-Ring(H013) HC-014-03 32 Piston Tip HB-04-09A 33 Piston Spring HB-04-07A 34 Piston Spring HB-04-07A 35 Piston Shaft HB-04-05A 36 Coil HB-04-05A 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-03C 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52
8	32 Piston Tip HB-04-09A 33 Piston HB-04-08A 34 Piston Spring HB-04-07A 35 Piston Shaft HB-04-06A 36 Coil HB-04-05A 37 Metal Gasket HB-04B-E 38 Lock Washer +4 HB-01-20 39 Screw •4 HC-013-35 40 Control Box HB-012-0101 41 Screw •2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)•4 HC-014-62 48 Box Cover HB-012-0201 49 Screw •4 HC-013-52
Supply Rod   B2-01B-02   33   Piston   Spring   HB-04-08A   14   Mounting Nut   B2-01-06   35   Piston Shaft   HB-04-05A   12   Compression Reducer   HC-009-12   37   Metal Gasket   HB-04-05A   38   Lock Washer *4   HB-04-05A   39   Screw *4   HC-013-35   HC-013-36   HC-013-36   HC-014-36   HC-014-36   HC-013-36   HC-014-36   HC-013-35   HC-014-36	33 Piston Spring HB-04-08A 34 Piston Spring HB-04-07A 35 Piston Shaft HB-04-06A 36 Coil HB-04-05A 37 Metal Gasket HB-04-BE 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52  (a) (b) (c) (c) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
10   Mounting   Washer   B2-01-05   11   Mounting   Nut   B2-01-06   35   Piston   Shaft   HB-04-05A   12   Compression   Reducer   HC-009-12   36   Coil   HB-04-05A   37   Metal   Gasket   HB-04-05A   38   Lock   Washer   *4   HB-01-20   39   Screw *4   HC-013-35   HC-013-57   HC-013-57   HS   Filter   Body   HC-023D-A   19   Nylon   Washer   HC-002-04A   20   Filter   Screen   HC-009-03   21   O-Ring(H016)   HC-014-36   45   Rubber   Plug   HB-012-0102   45   Rubber   Ruber   Nuber   Nuber   Nuber   HB-011-0104   47   O-Ring(H031)   HC-014-61   48   Box   Cover   HB-012-0201   49   Screw *4   HC-013-52   6   Screw *4   HC-013-52   HC-013-52   HB-012-0102   HB-011-0104   HB-011-0201   HB-011-0104   HB-011-0201   HB-011-0104   HB-01	34 Piston Spring HB-04-07A 35 Piston Shaft HB-04-06A 36 Coil HB-04-05A 37 Metal Gasket HB-04B-E 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52
11   Mounting   Nut   B2-01-06   12   Compression Reducer   HC-009-12   36   Coil   HB-04-05A   37   Metal Gasket   HB-04B-E   38   Lock Washer +4   HB-01-20   39   Screw +4   HC-013-35   HC-0013-35   HC-013-57   HC-013-	35 Piston Shaft HB-04-06A 36 Coil HB-04-05A 37 Metal Gasket HB-04B-E 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Plug HB-011-0104 46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52
12   Compression Reducer   HC-009-12   36   Coil   HB-04-05A   37   Metal Gasket   HB-04B-E   38   Lock Washer *4   HB-01-20   39   Screw *4   HC-013-35   HC   Compression Adaptor   H1-03B-0104A   H7   Screw *4   HC-013-57   H7   Screw *4   HC-013-57   H7   Screw *4   HC-013-52   H7   Screw *2   HC-013-52   H7   Screw *2   HC-013-52   H7   Screw *2   H7   Screw *2   H7   Screw *2   H7   Screw *3   H8   Screw *4   H8   H8   H8   H8   H8   H8   H8   H	36 Coil 37 Metal Gasket HB-048-E 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52 6
13   Supply Tube	37 Metal Gasket HB-04B-E 38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52 6  40 40 40 40 40 40 40 40 40 40 40 40 40
14   Compression Nut   HC-0018-08A   15   Ferrule   HC-001-07A   39   Screw *4   HC-013-35   16   Compression Adaptor   H1-03B-0104A   40   Control Box   HB-012-0101   41   Screw *2   HC-013-52   42   P.C.B   PC-009-32   43   Battery   Holder   HB-09-03C   44   Alkaline Battery   HB-09-03C   44   Alkaline Battery   HB-09-04   45   Rubber Seal   HB-012-0102   46   Rubber Plug   HB-011-0104   47   O-Ring(H031)   HC-014-61   49   Screw *4   HC-013-55   6   MC-013-52   MC-014-61   MC-014-61   MC-014-61   MC-014-61   MC-014-61   MC-014-62   MC-013-52   MC-014-61   MC-014-62   MC-013-52   MC-014-61   MC-014-61   MC-013-52   MC-014-61   MC-014-62   MC-014-61   MC-014-62   MC-014-61   MC-014-62   MC-014-61   MC-014-62   MC-014-61   MC-014-62   MC-014-61   MC-014-62   MC-014-61   MC-014-61   MC-014-62   MC-014-61   MC	38 Lock Washer *4 HB-01-20 39 Screw *4 HC-013-35 40 Control Box HB-012-0101 41 Screw *2 HC-013-52 42 P.C.B PC-009-32 43 Battery Holder HB-09-03C 44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Piug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52
16   Compression   Adaptor   H1-03B-0104A   17   Screw +4   HC-013-57   18   Filter   Body   HC-023D-A   19   Nylon   Washer   HC-002-04A   20   Filter   Screen   HC-009-03   21   O-Ring(H016)   HC-014-36   22   Filter   Cap   HC-023D-02   23   Valve   Seat   HB-011-03   24   O-Ring(H031)   HC-014-61   HC-014-61   HC-013-52   HC-013-52   HC-013-52   HC-014-61   HC-013-52   HC-013-52   HC-014-61   HC-013-52	39 Screw +4
17   Screw +4	41   Screw *2
18   Filter   Body	A1   Screw *2
19   Nylon Washer   HC-023D-A    42   P.C.B   PC-009-32	42 P.C.B Battery Holder HB-09-03C HB-09-03C HB-09-04C HB-09-04C HB-09-04C HB-012-0102 HB-011-0104C HB-012-0201 HB-013-52 HB-01
20 Filter Screen	44 Alkaline Battery HB-09-04 45 Rubber Seal HB-012-0102 46 Rubber Plug HB-011-0104 47 O-Ring(H006)+4 HC-014-62 48 Box Cover HB-012-0201 49 Screw +4 HC-013-52 6  40 40 41 42 43 44 45 45 45 46 46 47 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48
21	## Alkaline Settlery #B=012-0102 ## Bubber Seal HB=012-0102 ## Rubber Plug HB=011-0104 ## 0-Ring(H006)*4 HC-014-62 ## Box Cover HB=012-0201 ## Box Cover HB=012-0201 ## Box Cover HB=013-52 ## Box Cover HB=013-0201 ## Box Cover HB=013-0104 ## Box Box Cover HB=013-0104 ## Box Box Box
22 Filter Cap	46 Rubber Plug HB-011-0104 47 O-Ring(H006)*4 HC-014-62 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52  6 G  6 G  6 G  6 G  6 G  7 G  7 G  8 G  8 G  9 G  9 G  9 G  9 G  9 G  9
23 Valve Seat	47 O-Ring(H006)+4 HC-014-62 48 Box Cover HB-012-0201 49 Screw +4 HC-013-52  (6)  (7)  (8)  (9)  (9)  (9)  (9)  (10)  (
24 O-Ring(H031) HC-014-61 48 Box Cover HB-012-0201 49 Screw *4 HC-013-52 6	48 Box Cover   HB-012-0201   HC-013-52   6   6   6   6   6   6   6   6   6
49 Screw +4 HC-013-52 6	49 Screw +4 HC-013-52 6 19 19 19
	A S S S S S S S S S S S S S S S S S S S
HYDROTEK	HYDROTEK Model HB-2603C

#### HYDROTEK AUTOMATIC FAUCET TROUBLESHOOTING GUIDE

(Battery Powered)

Normal Operation: When new batteries are inserted, 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. When the user's hands are placed under the spout, the red indicator light on the faucet will flash one time and water will begin to flow. Water flow will stop when hands are removed. Red indicator light flashes when batteries are low. 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 batteries, polarity of battery, and connections.	Replace batteries 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.	No light or action. Change batteries and reset the unit.	Replace PCB.
	Sensor eyes are defective.	Insert new batteries and place hands in front of Sensor eyes. Red light doesn't blink.	Replace sensor eyes and cable. Push RESET button.
	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.	Insert new batteries and reset the unit. Light blinks normally, but there is no clicking	Replace solenoid coil. Push RESET button.

Faucet will not shut off OR there is low flow:

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 Solenoid repair kit. Follow the same procedures as above for remedies.

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

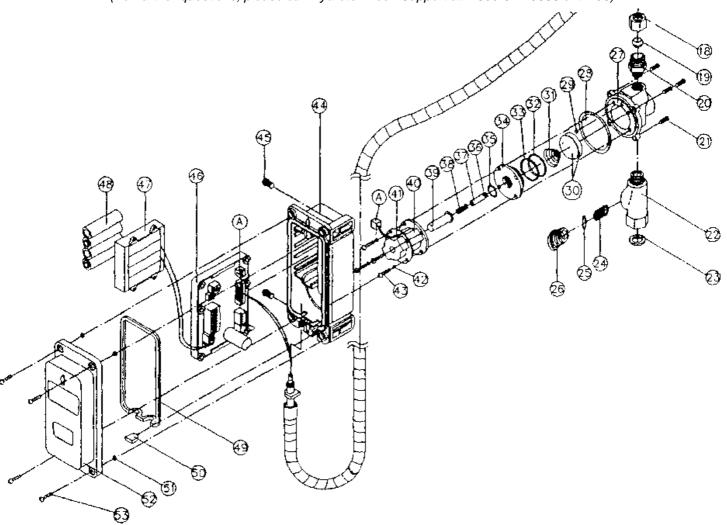
For more detailed remedy procedures, please call Hydrotek Tech Support at (800)922-9883 ext. 105

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

(AC AND BATTERY POWERED)

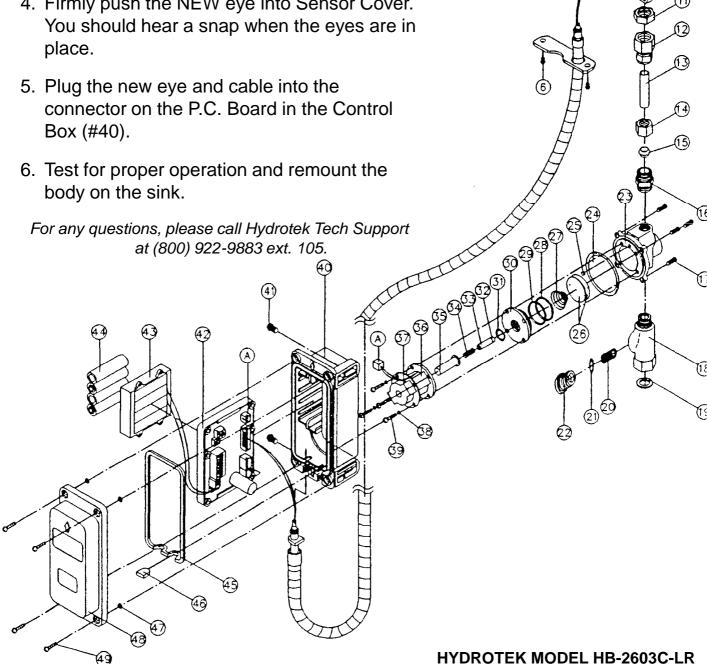
- 1. Turn off water supply at stop valve.
- 2. Remove control box (if possible) to gain access to the solenoid valve.
- 3. Remove four Screws (#21) and separate the valve from the box.
- 4. Remove four Coil Screws (#43) and separate Coil (#41) from Valve Seat (#27).
- 5. When separating Plastic Control 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)



## SENSOR EYE AND CABLE REPLACEMENT FOR 2603C SERIES FAUCETS (AC & BATTERY POWERED)

- 1. Remove faucet body from sink deck to gain access to the bracket underneath the body.
- 2. Remove the two Screws (#6) holding the eye bracket on the body.
- 3. CAREFULLY PRY Sensor Eye (#5) out of Sensor Cover (#3).
- 4. Firmly push the NEW eye into Sensor Cover. place.

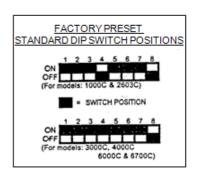


#### HYDROTEK AUTOMATIC FAUCET: DIP SWITCHES

#### \*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
OFF	OFF	60 Sec

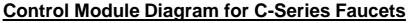
C. Sensor Distance: To increase distance, turn SDA screw <u>clockwise</u>.

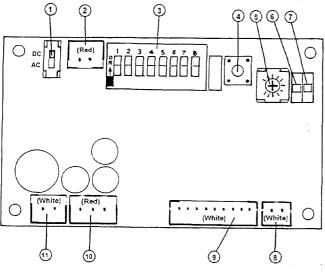
To decrease distance, turn screw counter-clockwise.

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

D. Faucet Switch:

Sw 7	Sw 8	Product
ON	OFF	Auto Faucet





- 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.

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# Suggested Backup Parts for 2603C Series Faucets

AC or Battery Powered Lavatory Faucets

Part Number From Drawing	Hydrotek Item Code	Description
47	HCC-008B	12V AC Adapter (AC Model)
18-22	HC-009B	Filter without Check
5	HCC-030	Sensor Eye & Cable
42 42	HCC-011A HCC-011B	Module – PCB for AC Model Module – PCB for Battery Model
10	HC-015C	Mounting Kit
20	HC-020	Filter Screen
26,27,31,32,33,34	HCB-017A	Valve Repair Kit
36	HCC-019	Solenoid Coil
26	HCB-005A	Control Disc Only
19	HC-040	Nylon Washer (Filter Inlet)
17-47	HCC-003A	Complete Control Box Assembly

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