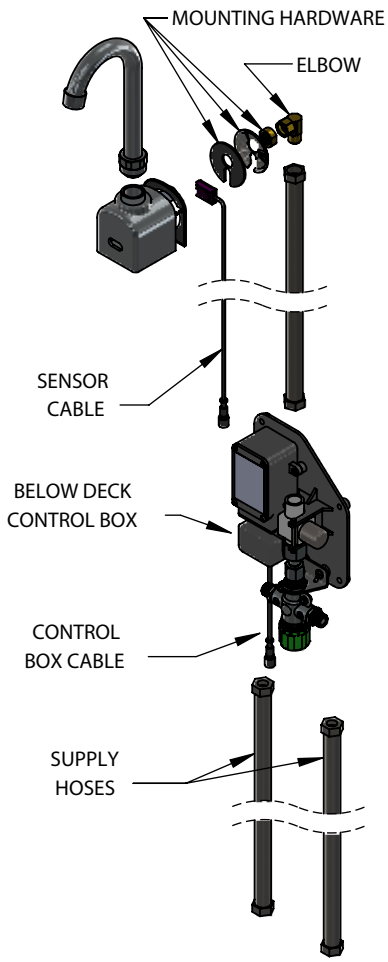
Encore®
by Component Hardware

Intelli-Flo™

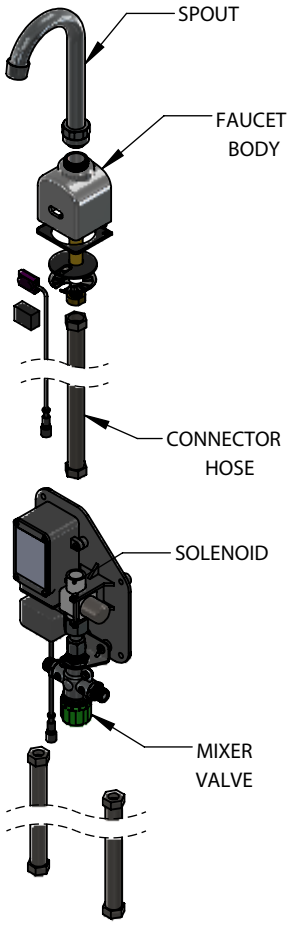
Electronic Faucets and EZ-Electronic™ Hand Wash Station

- **INSTALLATION INSTRUCTIONS**
- **PARTS BREAKDOWN**
- **MOUNTING TEMPLATE**

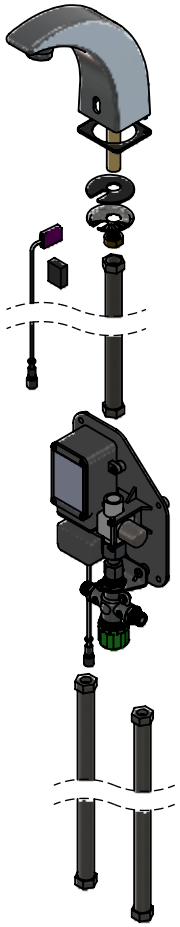
Intelli-Flo™ INSTALLATION INSTRUCTIONS



(A) KE19-1000 Series



(B) KE19-4000 Series

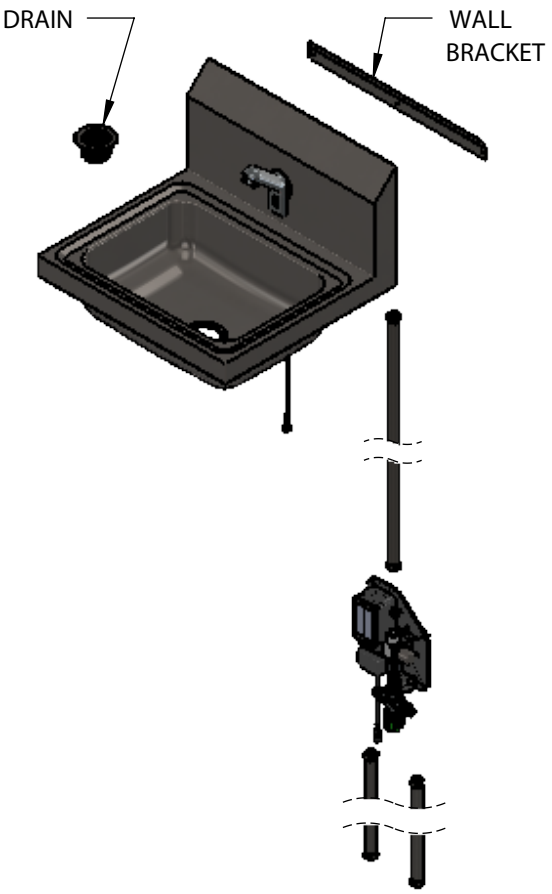


(C) KE21-7000 Series

KE19 / KE21 SERIES INSTALLATION

1. AVOID CONTACT WITH WATER DURING ASSEMBLY TO MINIMIZE CHANCE OF WATER DAMAGE.
2. INSTALL SPOUT ONTO FAUCET BODY (A AND B).
3. PREPARE SINK FOR ANTI-ROTATION PIN (OPTIONAL).
   - MARK HOLE LOCATION AS USING SUPPLIED TEMPLATE AND DRILL APPROPRIATELY SIZED HOLE
   - INSTALL ANTI-ROTATION PIN ONTO FAUCET BODY
4. PASS SENSOR CABLE THROUGH MOUNTING HOLE AND MOUNT FAUCET ONTO SINK WITH PROVIDED MOUNTING HARDWARE.
5. FOR WALL MOUNT FAUCET DESIGNS (A), CONNECT 90 DEGREE ELBOW AT THE FAUCET SHANK.
6. CONNECT CONNECTOR HOSE TO THE ELBOW (A) OR DIRECTLY TO FAUCET SHANK (B AND C).
7. MOUNT BELOW DECK CONTROL BOX AT APPROPRIATE DISTANCE BELOW SINK (SO SENSOR CABLE CAN CONNECT) USING MINIMUM TWO MOUNTING SCREWS (NOT PROVIDED) IN OPPOSITE CORNERS.
8. CONNECT OTHER END OF CONNECTOR HOSE TO THE SOLENOID.
9. CONNECT SUPPLY HOSES TO THE MIXING VALVE.
10. REMOVE BLACK CAP FROM CONTROL BOX CABLE AND CONNECT CABLE TO THE SENSOR.
11. CONNECT POWER SUPPLY (IF PROVIDED) TO THE WALL OUTLET.
12. FAUCET WILL START WITHIN A COUPLE OF SECONDS.

Intelli-Flo™ INSTALLATION INSTRUCTIONS

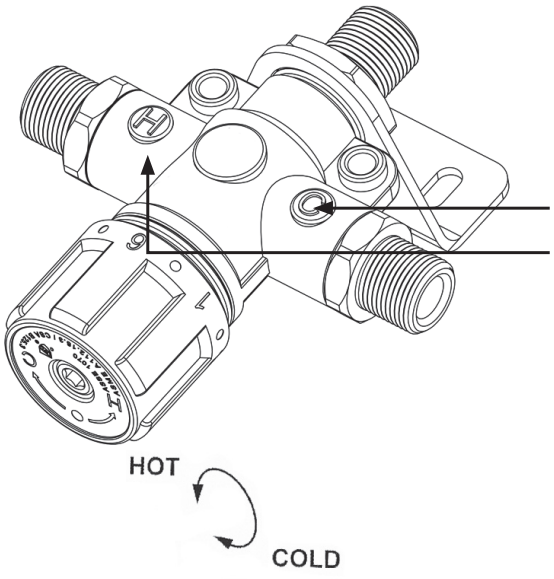


(E) KE25 Series

KE25 / KE28 SERIES INSTALLATION

1. AVOID CONTACT WITH WATER DURING ASSEMBLY TO MINIMIZE CHANCE OF WATER DAMAGE.
2. INSTALL DRAIN ONTO SINK.
3. MOUNT BRACKET (WALL BRACKET) ONTO WALL. CONNECT CONNECTOR HOSE TO THE 90 DEGREE ELBOW BEHIND SINK.
4. MOUNT SINK ONTO THE WALL BRACKET.
5. MOUNT BELOW DECK CONTROL BOX AT APPROPRIATE DISTANCE BELOW SINK (SO SENSOR CABLE CAN CONNECT) USING MINIMUM TWO MOUNTING SCREWS (NOT PROVIDED) IN OPPOSITE CORNERS.
6. CONNECT OTHER END OF CONNECTOR HOSE TO THE SOLENOID.
7. CONNECT SUPPLY HOSES TO THE MIXING VALVE.
8. REMOVE BLACK CAP FROM CONTROL BOX CABLE AND CONNECT CABLE TO THE SENSOR.
9. CONNECT POWER SUPPLY (IF PROVIDED) TO THE WALL OUTLET.
10. FAUCET WILL START WITHIN A COUPLE OF SECONDS.

MIXING VALVE INSTALLATION



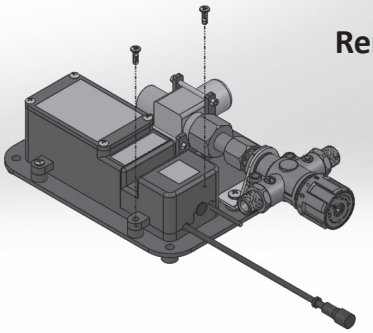
IMPORTANT:

When adjusting temperature, turn dial toward ‘C’ until it stops.

Then slowly begin turning toward ’H’ until desired temperature is reached.

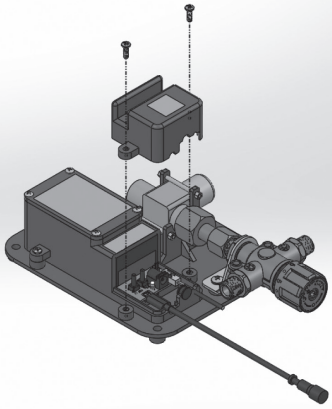
NOTE: Dial will continue to turn past highest number.

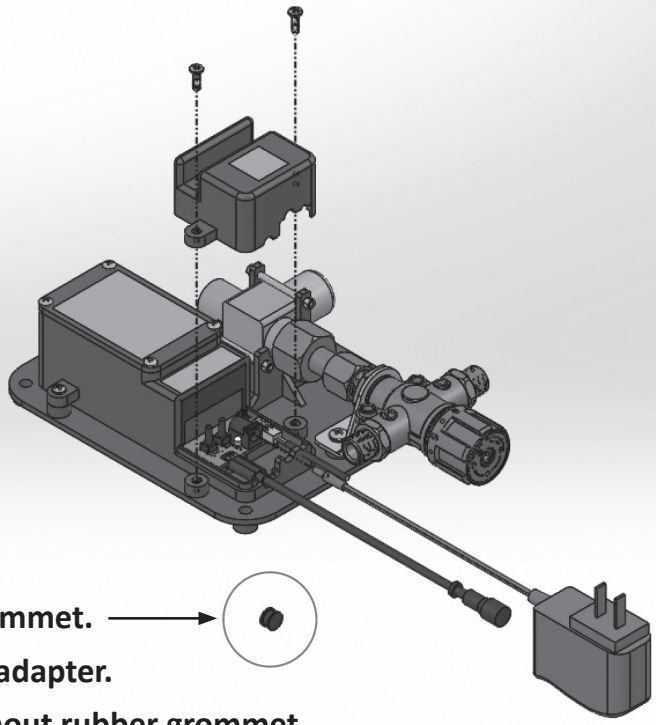
Intelli-Flo™ TO CONNECT TO AC POWER



Remove two bottom screws as shown.

Remove bottom cover exposing AC port.





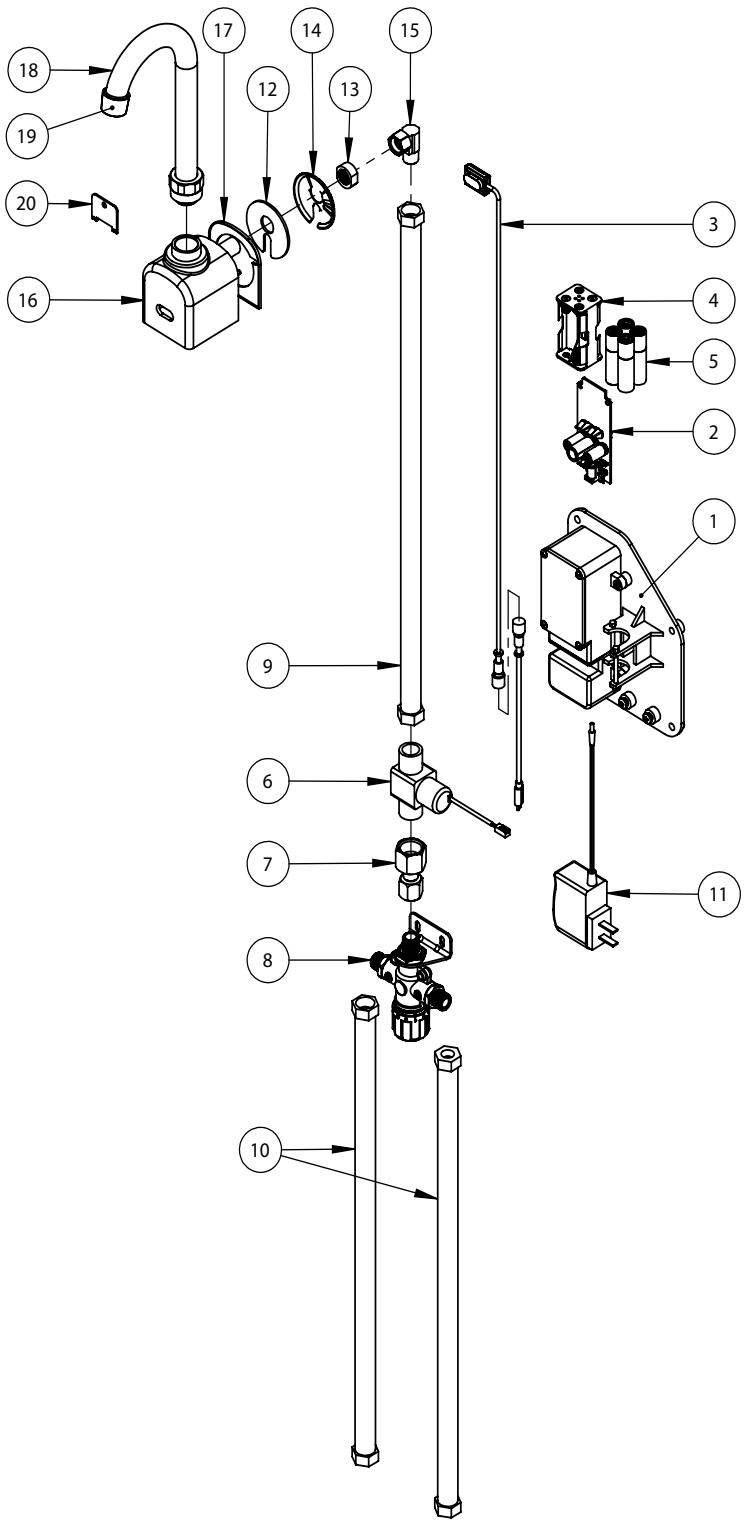
Remove rubber grommet.

Connect AC power adapter.

Reinstall cover without rubber grommet.

Intelli-Flo™ KE19-1000 Series Intelli-Flo™ Electronic Faucet

REF.	MODEL NO.	DESCRIPTION
1	KL19-Y006	BELOW DECK ENCLOSURE ASSEMBLY
2	K19-X064-A	GEN. 2 PCB BOARD, BELOW DECK
3	KL19-Y007-A	GEN. 2 ABOVE DECK SENSOR ASSEMBLY
4	K19-X068	BATTERY HOLDER
5	K90-X031	BATTERY, AA 1.5V (4 PACK) - DC ONLY
6	KL19-X006	SOLENOID, ELECTRONIC FAUCET
7	KL19-Y023	SWIVEL FITTING
8	KL19-X025	THERMOSTATIC MIXING VALVE
9	KL12-Y020	WATER SUPPLY HOSE, 1/2 FIP X 3/8 OD INLET
10	KL84-604145	WATER SUPPLY HOSE, 3/8 X 3/8 OD INLET
11	K19-X033	POWER ADAPTER, U.S., 9V, 800MA, UL - AC ONLY
12	K19-X021	WASHER
13	K19-X022	NUT
14	K19-X023	LOCK WASHER
15	KL19-X024	LOW LEAD FITTING, ELBOW, 90 DEGREE
16	KL19-Y004-M	WALL MOUNT BODY ASSEMBLY WITH SENSOR AND GASKET
17	K19-X003	GASKET, WALL MOUNT FAUCET BODY
18	KS11-12-X000	3” GOOSENECK SPOUT
	KS11-12-X002	6” GOOSENECK SPOUT
	KS11-12-X001	8-1/2” GOOSENECK SPOUT
19	KN50-X201-A	0.5GPM VANDAL RESISTANT AERATOR
	KN50-X201-F	1.5GPM LAMINAR AND VANDAL RESISTANT AERATOR
20	KN50-X201-K	KEY FOR VANDAL RESISTANT AERATOR - TAMPER PROOF ONLY

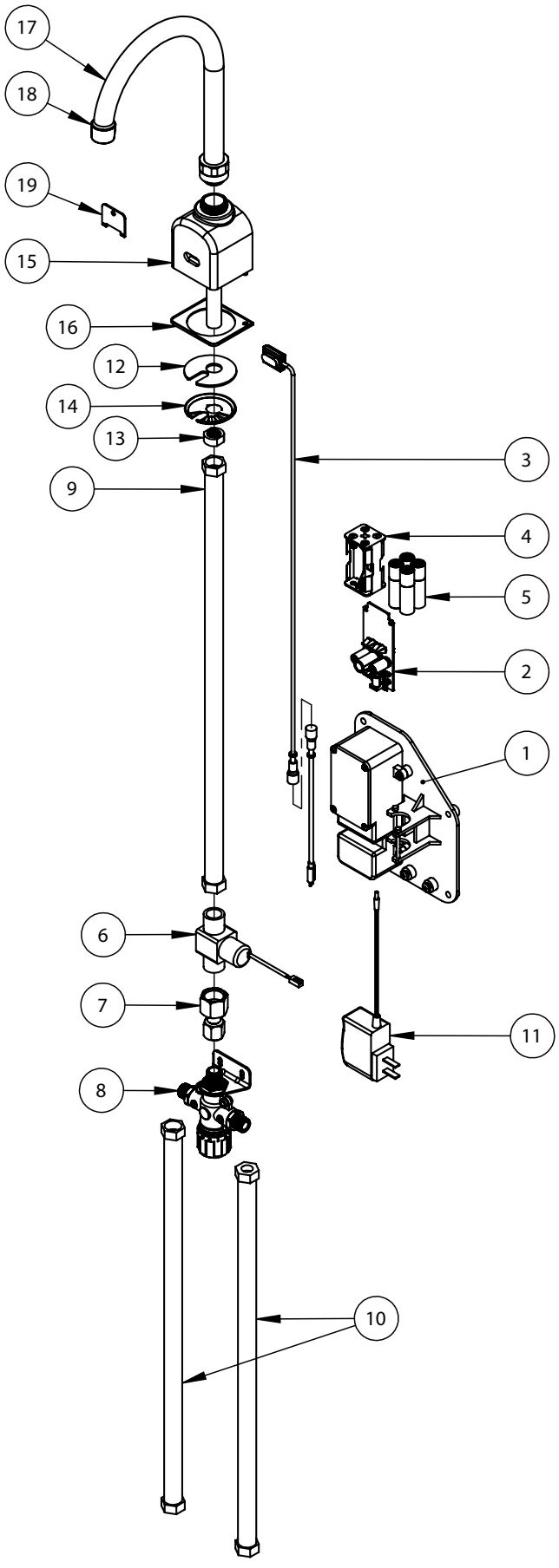




Intelli-Flo™ KE19-4000 Series Intelli-Flo™ Electronic Faucet

REF.	MODEL NO.	DESCRIPTION
1	KL19-Y006	BELOW DECK ENCLOSURE ASSEMBLY
2	K19-X064-A	GEN. 2 PCB BOARD, BELOW DECK
3	KL19-Y007-A	GEN. 2 ABOVE DECK SENSOR ASSEMBLY
4	K19-X068	BATTERY HOLDER
5	K90-X031	BATTERY, AA 1.5V (4 PACK) - DC ONLY
6	KL19-X006	SOLENOID, ELECTRONIC FAUCET
7	KL19-Y023	SWIVEL FITTING
8	KL19-X025	THERMOSTATIC MIXING VALVE
9	KL12-Y020	WATER SUPPLY HOSE, 1/2 FIP X 3/8 OD INLET
10	KL84-604145	WATER SUPPLY HOSE, 3/8 X 3/8 OD INLET
11	K19-X033	POWER ADAPTER, U.S., 9V, 800MA, UL - AC ONLY
12	K19-X021	WASHER
13	K19-X022	NUT
14	K19-X023	LOCK WASHER
15	KL19-Y003-M	DECK MOUNT BODY ASSEMBLY WITH SENSOR AND GASKET
16	K19-X005	GASKET, DECK MOUNT FAUCET BODY
17	KS11-12-X000	3" GOOSENECK SPOUT
	KS11-12-X002	6" GOOSENECK SPOUT
	KS11-12-X001	8-1/2" GOOSENECK SPOUT
18	KN50-X201-A	0.5GPM VANDAL RESISTANT AERATOR
	KN50-X201-F	1.5GPM LAMINAR AND VANDAL RESISTANT AERATOR
19	KN50-X201-K	KEY FOR VANDAL RESISTANT AERATOR - TAMPER PROOF ONLY

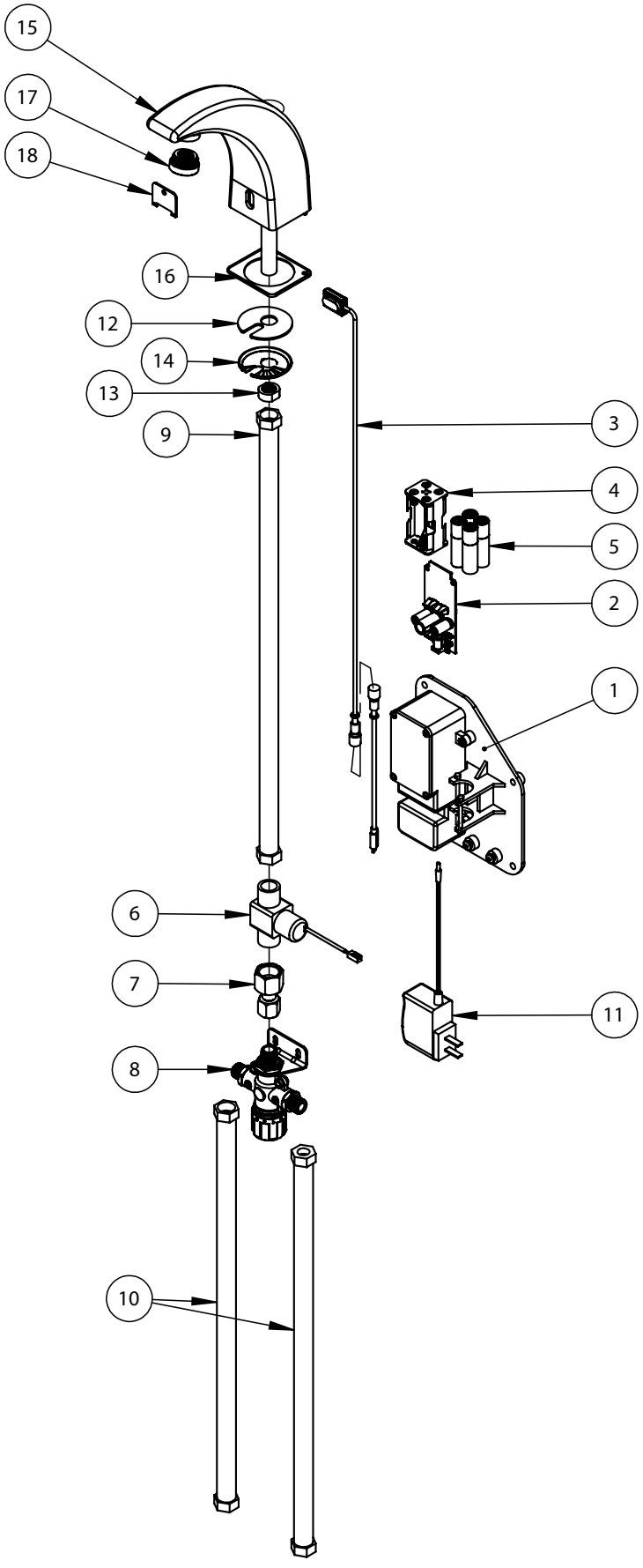




Intelli-Flo™ KE21-7000 Series Intelli-Flo™ Electronic Faucet

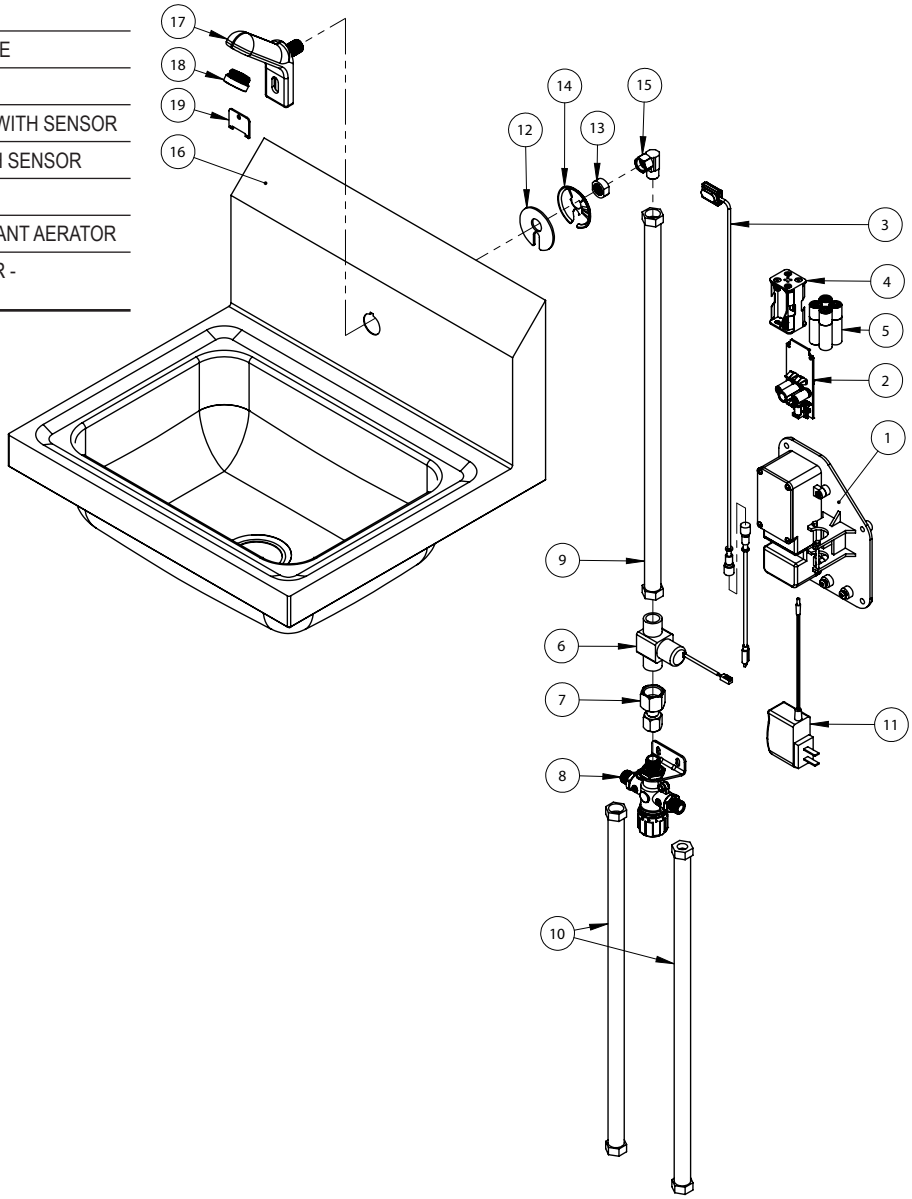
REF.	MODEL NO.	DESCRIPTION
1	KL19-Y006	BELOW DECK ENCLOSURE ASSEMBLY
2	K19-X064-A	GEN. 2 PCB BOARD, BELOW DECK
3	KL19-Y007-A	GEN. 2 ABOVE DECK SENSOR ASSEMBLY
4	K19-X068	BATTERY HOLDER
5	K90-X031	BATTERY, AA 1.5V (4 PACK) - DC ONLY
6	KL19-X006	SOLENOID, ELECTRONIC FAUCET
7	KL19-Y023	SWIVEL FITTING
8	KL19-X025	THERMOSTATIC MIXING VALVE
9	KL12-Y020	WATER SUPPLY HOSE, 1/2 FIP X 3/8 OD INLET
10	KL84-604145	WATER SUPPLY HOSE, 3/8 X 3/8 OD INLET
11	K19-X033	POWER ADAPTER, U.S., 9V, 800MA, UL - AC ONLY
12	K19-X021	WASHER
13	K19-X022	NUT
14	K19-X023	LOCK WASHER
15	KL21-Y002-M	BODY AND SHANK ASSEMBLY WITH SENSOR AND GASKET
16	K21-X005	GASKET, RESTROOM DECK MOUNT FAUCET BODY
17	KL50-X203-S	0.5GPM VANDAL RESISTANT AERATOR
	KL50-X204-S	1.5GPM LAMINAR AND VANDAL RESISTANT AERATOR
18	KN50-X201-KS	KEY FOR VANDAL RESISTANT AERATOR - TAMPER PROOF ONLY





Intelli-Flo™ KE25 Series Intelli-Flo™ EZ Handwash Station

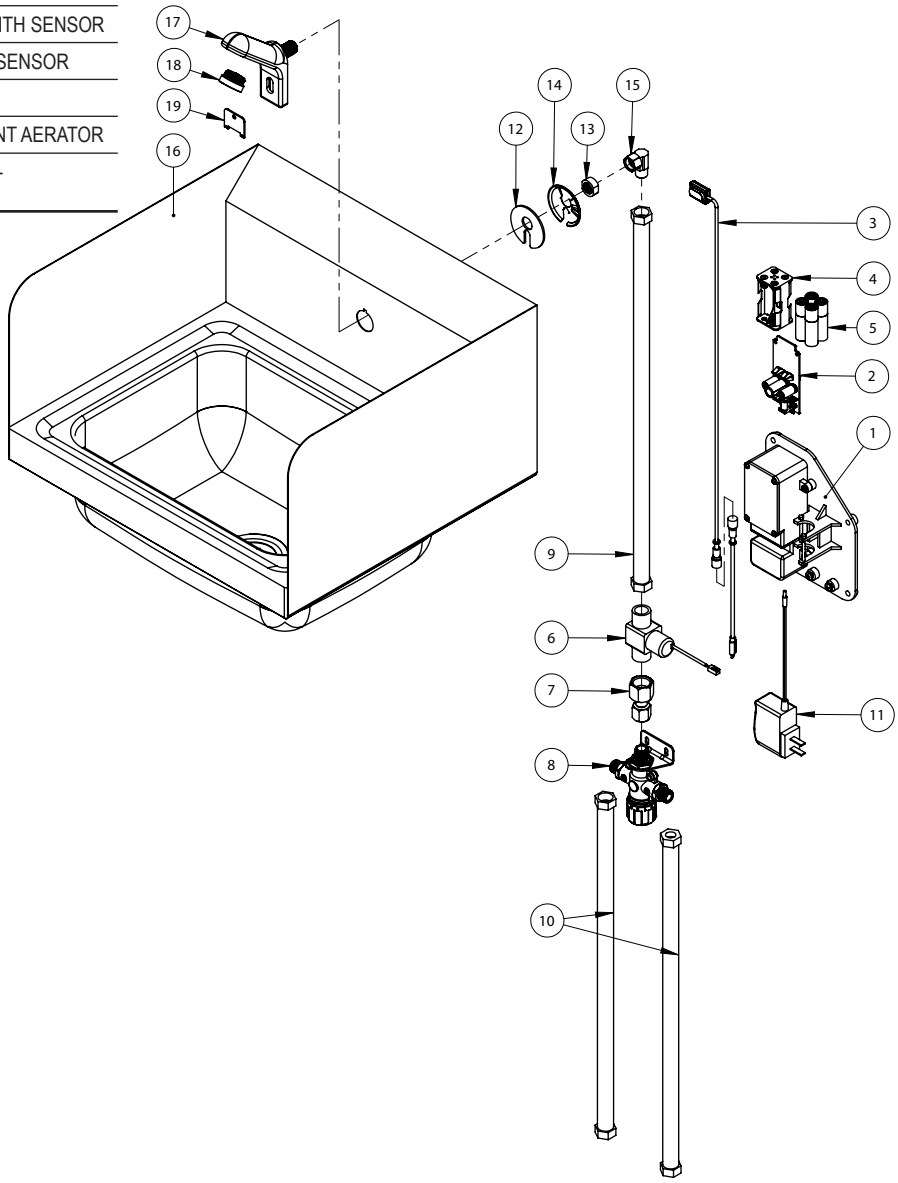
REF.	MODEL NO.	DESCRIPTION
1	KL19-Y006	BELOW DECK ENCLOSURE ASSEMBLY
2	K19-X064-B	GEN. 2 PCB BOARD, BELOW DECK
3	KL19-Y007-B	GEN. 2 ABOVE DECK SENSOR ASSEMBLY
4	K19-X068	BATTERY HOLDER
5	K90-X031	BATTERY, AA 1.5V (4 PACK) - DC ONLY
6	KL19-X006	SOLENOID, ELECTRONIC FAUCET
7	KL19-Y023	SWIVEL FITTING
8	KL19-X025	THERMOSTATIC MIXING VALVE
9	KL12-Y020	WATER SUPPLY HOSE, 1/2 FIP X 3/8 OD INLET
10	KL84-604145	WATER SUPPLY HOSE, 3/8 X 3/8 OD INLET
11	K19-X033	POWER ADAPTER, U.S., 9V, 800MA, UL - AC ONLY
12	K19-X021	WASHER
13	K19-X022	NUT
14	K19-X023	LOCK WASHER
15	KL19-X024	LOW LEAD FITTING, ELBOW, 90 DEGREE
16	FS20-101405B1	S/S HAND-SINK 10" X14" X 5"
17	KL09-Y004-A	EZ SINK OUTLET FOR LAMINAR FLOW WITH SENSOR
	KL09-Y004-B	EZ SINK OUTLET FOR PCA SPRAY WITH SENSOR
18	KN50-X203-A	0.5GPM VANDAL RESISTANT AERATOR
	KN50-X203-F	1.5GPM LAMINAR AND VANDAL RESISTANT AERATOR
19	KN50-X201-K	KEY FOR VANDAL RESISTANT AERATOR - TAMPER PROOF ONLY





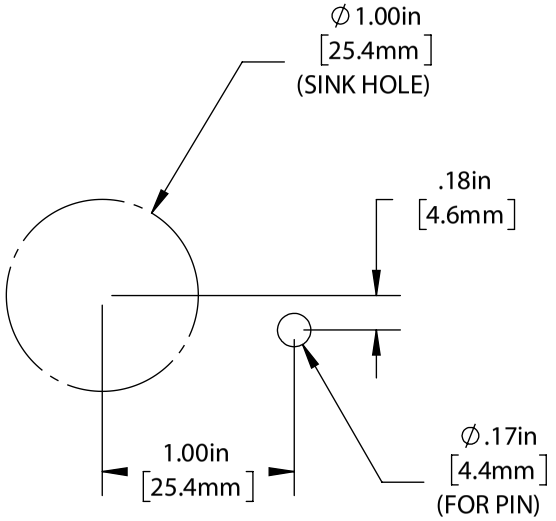
Intelli-Flo™ KE28 Series Intelli-Flo™ EZ Handwash Station

REF.	MODEL NO.	DESCRIPTION
1	KL19-Y006	BELOW DECK ENCLOSURE ASSEMBLY
2	K19-X064-B	GEN. 2 PCB BOARD, BELOW DECK
3	KL19-Y007-B	GEN. 2 ABOVE DECK SENSOR ASSEMBLY
4	K19-X068	BATTERY HOLDER
5	K90-X031	BATTERY, AA 1.5V (4 PACK) - DC ONLY
6	KL19-X006	SOLENOID, ELECTRONIC FAUCET
7	KL19-Y023	SWIVEL FITTING
8	KL19-X025	THERMOSTATIC MIXING VALVE
9	KL12-Y020	WATER SUPPLY HOSE, 1/2 FIP X 3/8 OD INLET
10	KL84-604145	WATER SUPPLY HOSE, 3/8 X 3/8 OD INLET
11	K19-X033	POWER ADAPTER, U.S., 9V, 800MA, UL - AC ONLY
12	K19-X021	WASHER
13	K19-X022	NUT
14	K19-X023	LOCK WASHER
15	KL19-X024	LOW LEAD FITTING, ELBOW, 90 DEGREE
16	FS17D-10145AXZ	S/S HAND SINK W/ SPLASH GUARDS
17	KL09-Y004-A	EZ SINK OUTLET FOR LAMINAR FLOW WITH SENSOR
	KL09-Y004-B	EZ SINK OUTLET FOR PCA SPRAY WITH SENSOR
18	KN50-X203-A	0.5GPM VANDAL RESISTANT AERATOR
	KN50-X203-F	1.5GPM LAMINAR AND VANDAL RESISTANT AERATOR
19	KN50-X201-K	KEY FOR VANDAL RESISTANT AERATOR - TAMPER PROOF ONLY

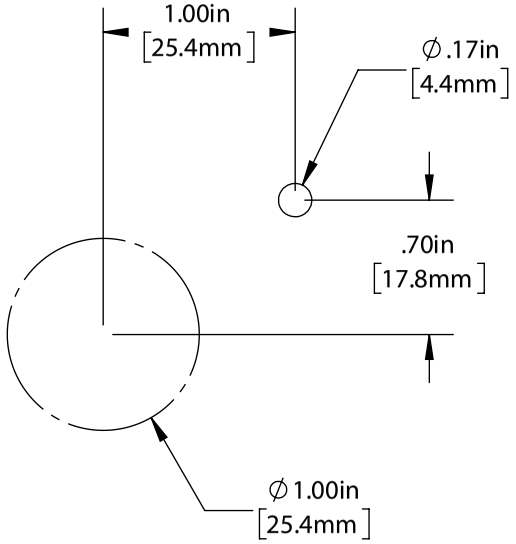




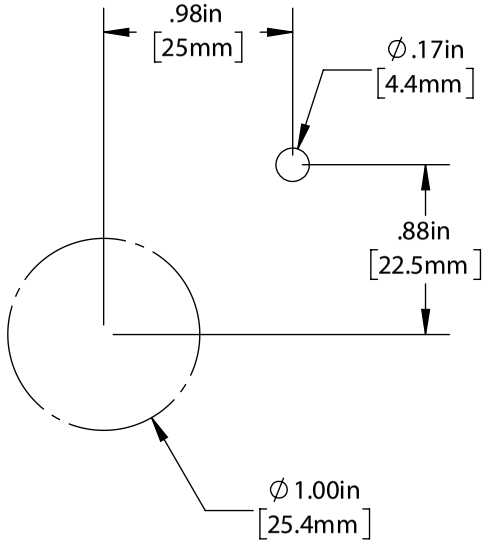
USE THIS TEMPLATE TO DRILL OR PUNCH HOLE FOR ANTI-ROTATION PIN



(WALL MOUNT FAUCET, DESIGN A)



(DECK MOUNT FAUCET, DESIGN B)



(DECK MOUNT RESTROOM FAUCET, DESIGN C)

TROUBLESHOOTING GUIDE

PROBLEM: Faucet Will Not Turn On

POSSIBLE CAUSE	DIAGNOSIS	SOLUTION
Low battery – system disabled	RED LED double-flashes every 5 seconds	Replace batteries
Power supply failure	Weak or dead batteries	Replace batteries
	One or more batteries polarity-reversed	Correctly install batteries
	Adapter is not working	Verify outlet has power
		Replace adapter
Cable not connected	Cable disconnected	Connect cable
	Cable improperly mated	Reconnect cable properly
Electronic PCB is defective	Press FLUSH button; water should flow	Replace PCB
Sensor is not working	Wave hand in front of sensor; LED should blink	Replace sensor
Sensor is optically occluded	Soap, scum, or object blocking sensor	Clean sensor
Thermostatic mixing valve shut-off	Sensor works, solenoid clicks	Turn mixing valve dial clockwise toward cold supply, let sit five to ten minutes
Thermostatic mixing valve (water temperature is more than 120°F, 49°C)	Sensor works, solenoid clicks	Reduce water temperature below 120°F (49°C) Thermostatic valve shuts off above 120°F (49°C)

PROBLEM: Operation Seems Erratic / False Triggering Occurs

POSSIBLE CAUSE	DIAGNOSIS	SOLUTION
Sensor is optically occluded	Soap, scum, or object blocking sensor	Clean sensor
Rapid drip or slight stream	Water should be “OFF” when valve is closed	Replace valve
Water flows and/or stops or has low flow after some iteration.	Sensor works, solenoid clicks	Make sure both (hot and cold) supplies are fully open. Also adjust the thermostatic valve dial if needed.

PROBLEM: Batteries Don’t Last Very Long

POSSIBLE CAUSE	DIAGNOSIS	SOLUTION
Cheap batteries	Low battery RED LED alert occurs after a relatively short period of time	Replace batteries with new Alkaline batteries and/or use adapter
Batteries near end-of-life		

PROBLEM: Water Will Not Shut Off

POSSIBLE CAUSE	DIAGNOSIS	SOLUTION
Solenoid installed backwards	Arrow on solenoid should be pointing in direction of water flow	Disconnect solenoid and turn to proper direction
Failed solenoid	Sensor will blink	Replace solenoid
Flush button pressed by mistake	Sensor light blinking continuously	Press flush button once to stop

INTELLI-FLO™ ELECTRONIC FAUCETS WARRANTY

Encore Plumbing Products are manufactured to a rigid code of quality standards and subjected to extensive testing prior to shipment. We ensure that each product that leaves our factory is in perfect working order. With proper care this Encore Product will provide its user years of satisfying service.

Component Hardware warrants that its Encore KE19, KE21 and KE25 Series of electronic faucets will remain free from defects in material and workmanship for three (3) years from the user’s date of purchase. Liability under this limited warranty is restricted to replacement of, or repair of, the Encore Series product or part found to be defective. Component Hardware shall not be responsible for labor costs or any other damages, either direct or consequential. Encore Series products or parts which have been altered in any manner after purchase are excluded from this limited warranty. Component Hardware does not assume responsibility for any damage incurred as a result of shipping. Those claims must be filed with the shipper. This warranty does not apply in states or provinces, which do not permit restrictions on the length of warranty or on the exclusion of direct or consequential damages.

Replacement or repair of a product or part under this limited warranty will be made within a reasonable time after Component Hardware is notified of the alleged defect or, if Component Hardware desires to inspect the allegedly defective product or part, within a reasonable time after that inspection.

ANY WARRANTIES, REPRESENTATIONS OR STATEMENTS BY AN AGENT OF COMPONENT HARDWARE THAT DIFFER IN ANY WAY FROM THE TERMS OF THIS WRITTEN AGREEMENT SHALL HAVE AND SHALL BE GIVEN NO FORCE OR EFFECT.

No defective product or part should be shipped to Component Hardware without authorization obtained from it in advance. Claims for unauthorized shipping expenses will not be honored. At Component Hardware’s option, it may request return of the allegedly defective product or part for inspection. Permitted returns of allegedly defective products or parts under this limited warranty shall be delivered to Component Hardware, 1890 Swarthmore Avenue, Lakewood, NJ 08701. Please mark carton Attn: **ENCORE WARRANTY DEPARTMENT**.

THIS LIMITED WARRANTY IS GIVEN EXPRESSLY AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR OTHERWISE, AND CONSTITUTES THE ONLY WARRANTY MADE BY COMPONENT HARDWARE.

COMPONENT HARDWARE®

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www.componenthardware.com

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