

## Installation Manual



**AUTOMATIC SENSOR TAP**  
**Tube Design**  
**Wall Mounted**  
**Matte Black**

**CAT 67305B**



Revision 1



## Product Description

- No-Touch automatic sensor tap and accessories Systems
- Electronic infrared sensor with technology accurate activation
- Employs the latest in plug and play digital electronics, solid brass solenoid valve. The faucet is simple and robust with its traditional design
- The automatic no-touch infrared sensor eliminates cross-contamination.
- 70% Water Savings Extensive testing shows a significant decrease in average water usage and cost Best Performance Level
- Suitable for many locations including hotels, educational establishments, hospitals and doctor surgeries, airports, utility washrooms, public conveniences and semi-industrial locations, the Classic faucet is very reliable - and very effective.

## Features

- Construction
- Single-hole Mounting
- Solid Brass
- Sensor type : Active Electronic infrared Sensor
- Power:DC6V(four 5#-alkaline Battery)
- Battery life expectancy: 150,000 cycles
- Solenoid valve: 6 Volt magnet latching
- Working Water Pressure: 0.07Mpa -0.7 Mpa
- Supply Inlet Size: 1/2 Male
- Water Temperature Control: Optional
- Sensing Range: 5cm to 15cm Adjustable
- Response Time: 0.3 Second
- Shut-Off Delay Time: 2 Seconds
- Maximum Running Time:30- 60 Seconds
- Operating Temperature: 1 C to 60 C



## Operations

- 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, the valve is activated.
- 3) After the user removes their hands, the valve closes. The circuit automatically resets for the next user.
- 4) If an object is in view continuously for sixty seconds, the faucet will automatically shut off. The faucet will remain off until the object is removed. After the object is removed, the faucet

## Precautions before installation:

- The automatic sensor faucet should be installed above the washbasin no less than 25cm.
- Not applicable to stainless steel wash basin or other wash basin which can reflect strong light. If this can't be avoided, then the distance and the angle between the faucet and basin must be carefully adjusted to avoid disturbance from the reflection.

## Specification and technical Data

Model No: BD-8305

Power supply: (1) DC-6V (4pcs AA batteries)  
(2) AC 220V

Power consumption: avarager current is less than 20UA

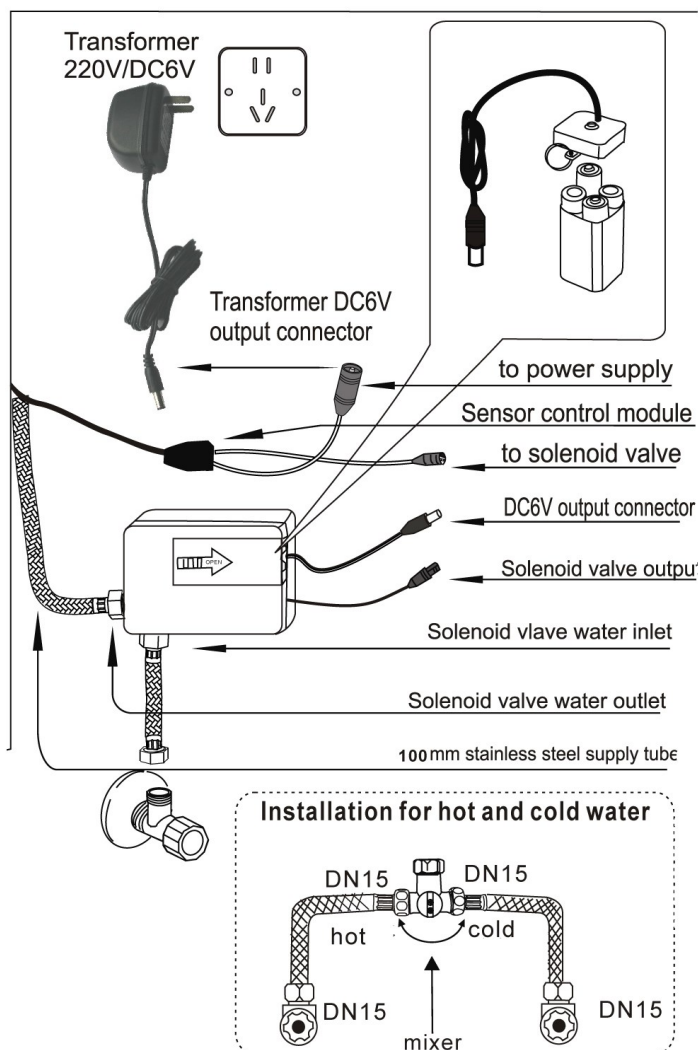
Sensing range: 20cm(according to standard whit paper)

Dimension: 22cm\*3cm

Water out method: sensor activatated, when people within sensing range water out, leave water stop at once.

Water Inlet pipe dimension: DN15

Water temperature: 0.07Mpa ~0.7Mpa



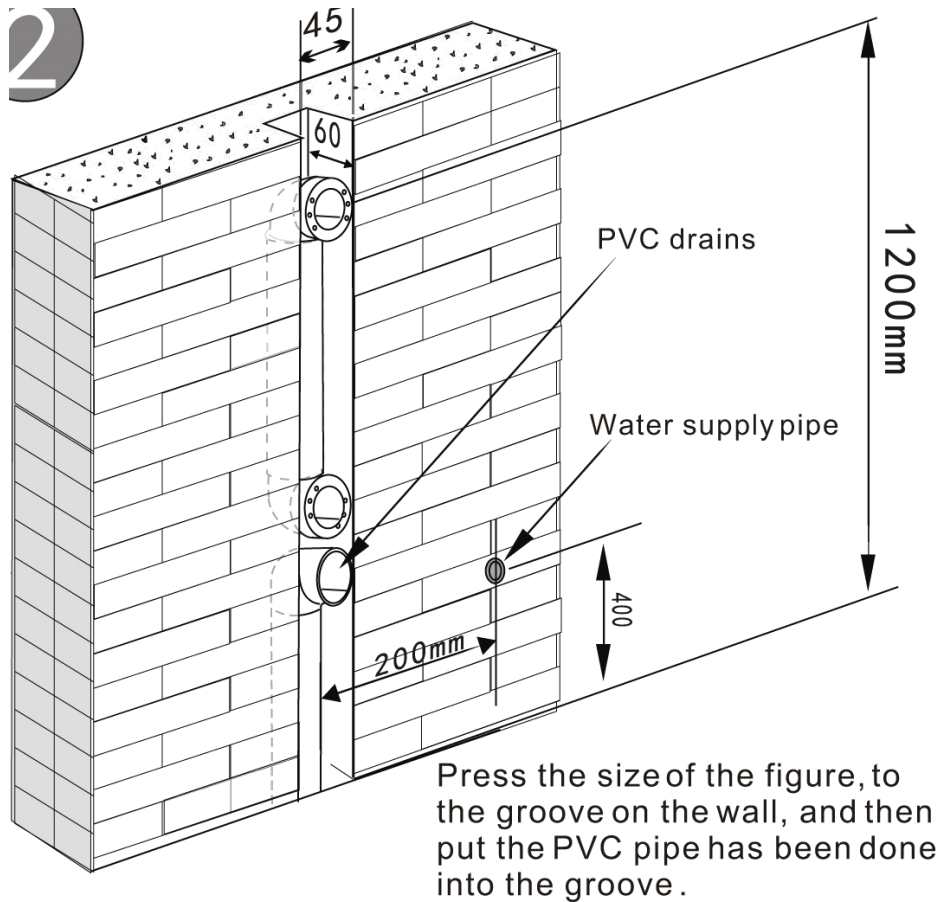
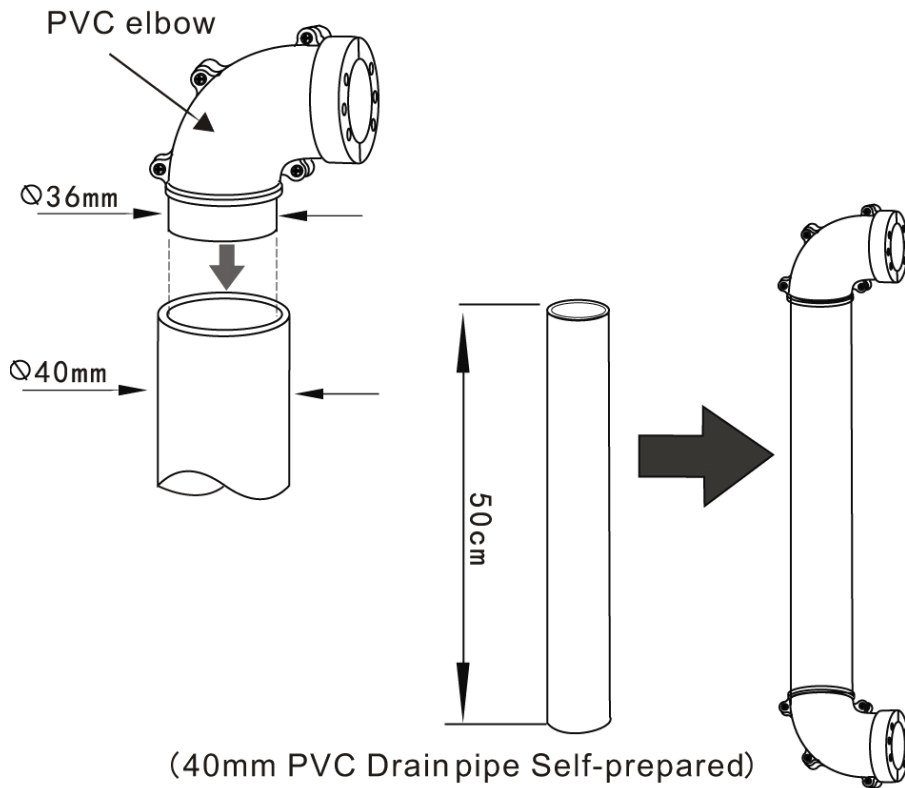
**CAT 67M**

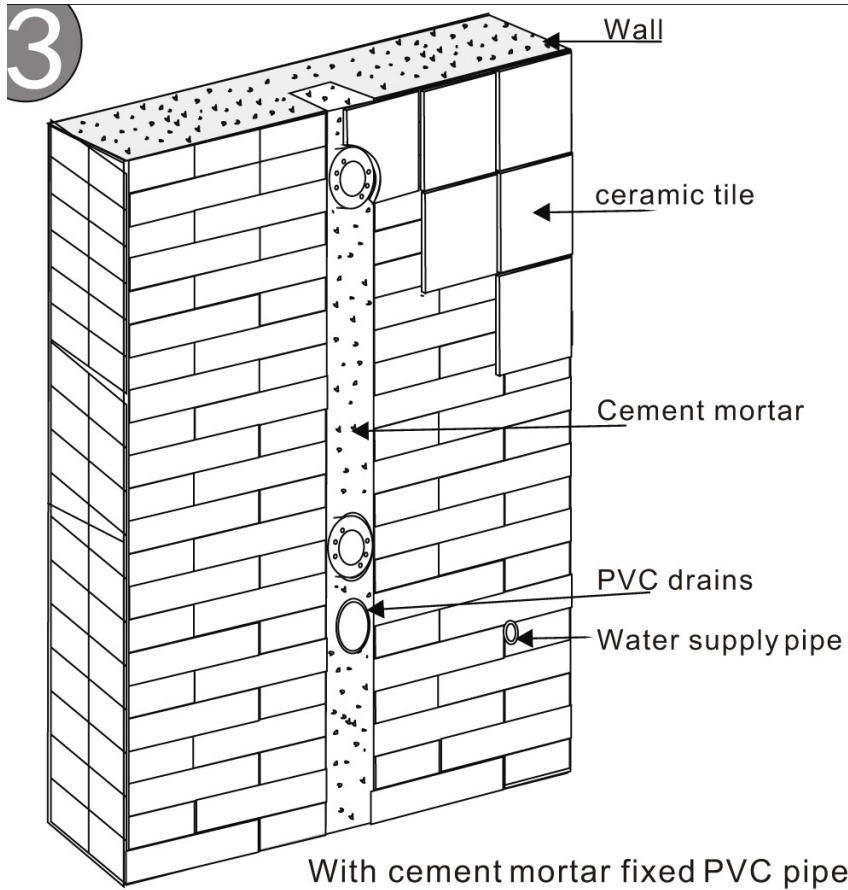
**Mixer T Piece**

*CAT 67M not supplied with tap ware, to be purchased separately.*

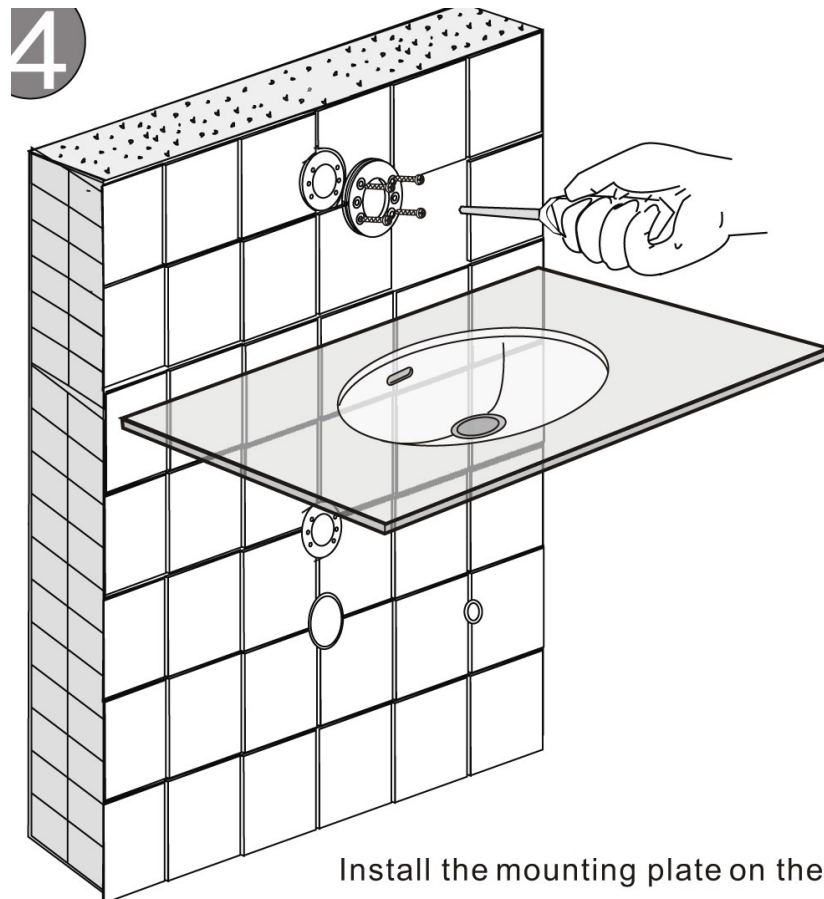
# Installation

- 1 Prepare the PVC drains in advance, according to the size of the guidelines, Put the PVC elbow into the PVC pipe.





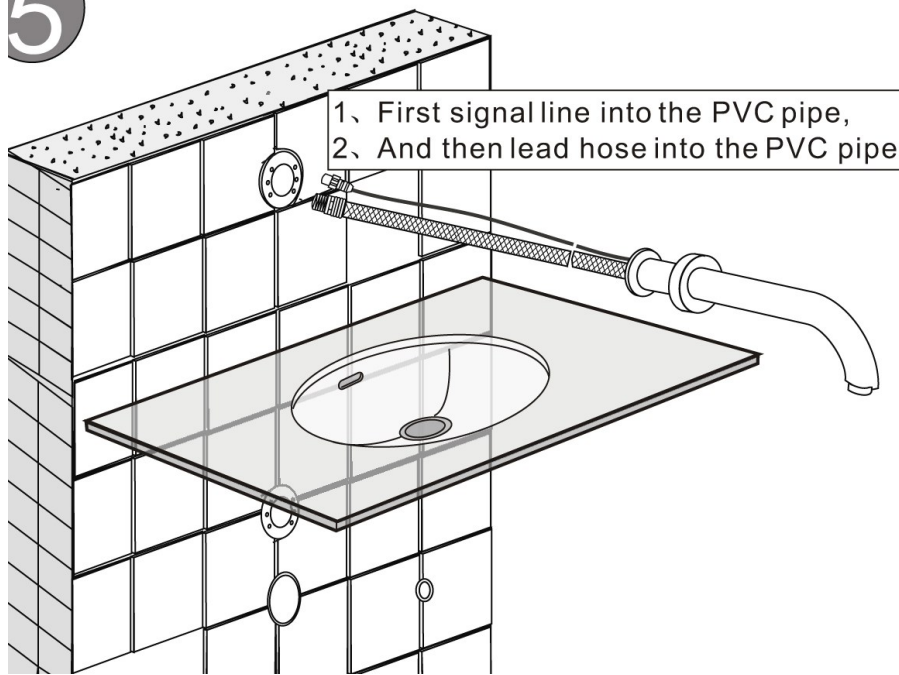
With cement mortar fixed PVC pipe,  
After the dry can be affixed to the tile



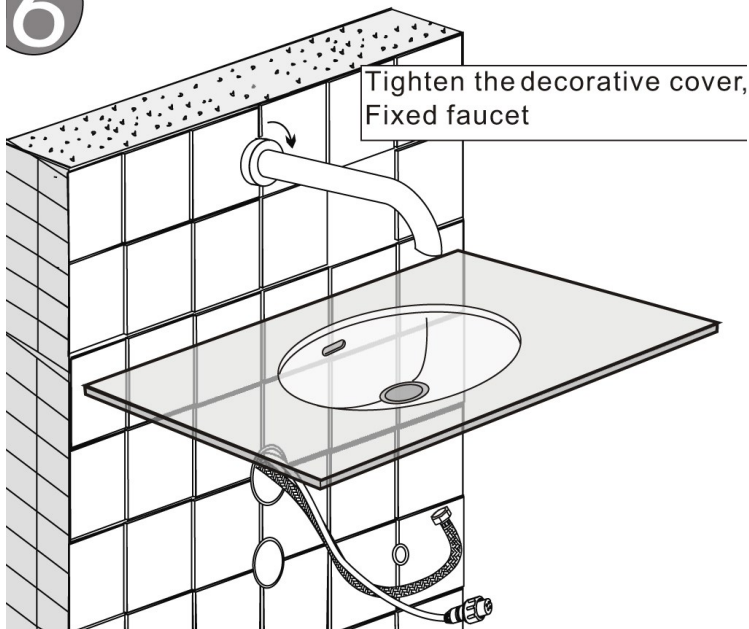
Install the mounting plate on the elbow.



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### Adjustment of the sensing range:

*The pre-set sensing range is: 10cm*

Press the function key **until the LED lamp flashes 6 times and release it at once.**

The sensor will start to adjust the sensing range automatically until it cannot detect any object ( if there is any object between the basin and sensor, this will shorten the sensing Distance )

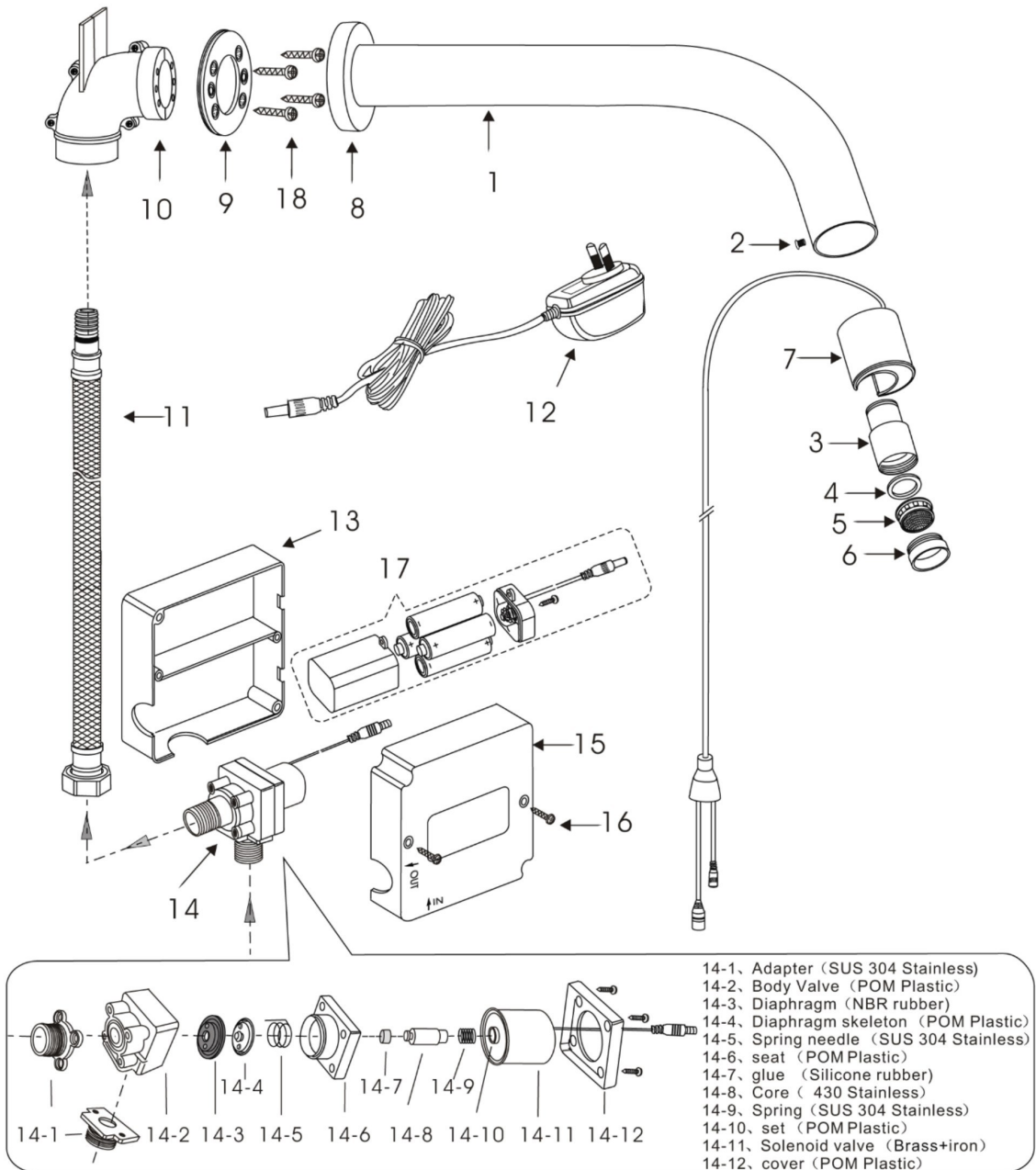
### PLEASE NOTE

***Once faucet has been installed, please stick one of the coloured dots provided on to the head of the faucet to allow the user to identify if water will flow cold or hot.***



**RED DOT—HOT WATER**  
**BLUE DOT—COLD WATER**

# Cat 67305 Wall Mounted Infrared Faucets Exploded View



ITEM	PART#	DESCRIPTION	MATERIAL	ITEM	PART#	DESCRIPTION	MATERIAL
1.	673-050	Faucet body	Brass	10.	673-057-1	PVC Elbow	PVC Plastic
2.	673-051	Screw	SUS 304 Stainless	11.	673-058	S/Steel Braided Hose ( 120cm )	SUS 304 Stainless
3.	673-033C	Spout Adapte 17#	<b>Brass CW602N</b>	12.	679-128	Power Adaptor	Electronic Hardware
4.	673-033B	Rubber Mat 16#	NBR Rubber	13.	679-120	Housing	ABS Plais
5.	673-033	Aerator 15#	POM Plastic	14.	679-122	Solenoid Valve	POM Plastic + SUS 304 Stainless
6.	673-033A	shell spout 17#	<b>Brass CW602N</b>	15.	679-120	Housing	ABS Plais
7.	673-106	Sensor ( 120cm )	Electronic Hardware	16.	679-127	Screw	SUS 304 Stainless
8.	673-055	Cover	Brass	17.	679-121	Battery nBox	ABS Plais
9.	673-056-1	copper bolt	SUS 304 Stainless	18.	679-123	Screw	201 Stainless

## Troubleshooting Guide:

Before checking for fault, please make sure the installation distance correct (refer to precautions before installation as above ). If distance is incorrect, faucet may fail.

The LED indicator will spark twice and then stop after battery installed. The sensor is good, if you put your hand within the sensing range and LED indicator sparks for one time.

### **I. Problem: put hands within the sensing range, no light from LED indicator of the sensor, faucet does not deliver water**

**Cause:** Batteries are not supplying electricity to the sensor or inadequate electricity.

**Solution:**

1. make sure the batteries are correctly installed. Check if the positive pole is connected to "+" mark on the plastic battery box. Check if negative pole is connected to "-" mark on the plastic battery box .
2. New batteries are correctly installed, LED indicator is always off, need to change the sensor control module.

**3. Inadequate electricity:** when hands are under the sensing range for 5 seconds, LED indicator blinks every 1.5 seconds, to indicate inadequate electricity, please change batteries.

4. New batteries are correctly installed. LED indicator sparks for 2 seconds and then off. Place hands within sensing range, if LED indicator lights up once, but you cannot hear the audible "click" sound from the solenoid valve, please check the connections between the sensor control model and solenoid valve. If the connections are good, please change the solenoid valve components

### **II. Problem: faucet delivers water when sensor is activated, but water flow is small**

**Cause:** low water pressure, water supply stop(s) are partially closed

**Solution:** refer to installation step3 increase water pressure, open the water supply stop(s) fully.

### **III. Problem: faucet delivers water when sensor is activated, but cannot close completely**

**Cause 1:** sand/dirty may have blocked the solenoid valve

**Solution 1:** disassemble the solenoid valve and clean it; change solenoid valve components if problem cannot be solved.

**Cause 2:** low water pressure

**Solution 2:** increase water pressure

### **IV. Problem: put hand before sensor, LED indicator lights up, but faucet cannot deliver water or water always running**

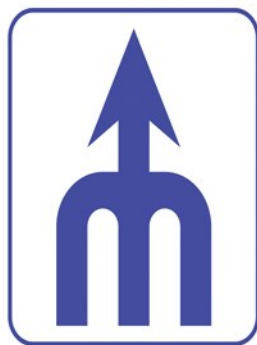
**Cause 1:** Inadequate electricity supply

**Solution 1:** keep hand within sensing range for 5sec, if the LED indicator blinks every 1.5sec. It is a hint of inadequate electricity supply, please change batteries.

**Cause 2:** Solenoid valve components defective

**Solution 2:** check the connections between solenoid valve and sensor control model, if it is in good condition, please change solenoid valve components

## Contact Us:



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