

**INSTALLATION AND INSTRUCTION  
MANUAL FOR SENSOR FAUCET  
ASF-03(B) / ASF-03(E)**

**Note to Installer:** Please give this manual to the end user after installation for better performance and maintenance of sensor faucets

**Installation:**

- 1) This sensor faucet is for wall mount installation.
- 2) A conduit pipe needs to be provided in the wall as shown in Figure 1 for passage of the sensor wire and water supply pipe. The conduit pipe outer diameter should not be more than 1.25" or 31.75 mm. The control box of the sensor faucet is installed below the counter as shown. The vertical distance between the upper and lower conduit openings on the wall ideally should be about 650 mm or less so that the sensor wire and water supply pipe can be fitted properly. If this distance is more than 650 mm, then verify that the water supply pipe and sensor wire do not fall short for connections between the sensor tap and control box.

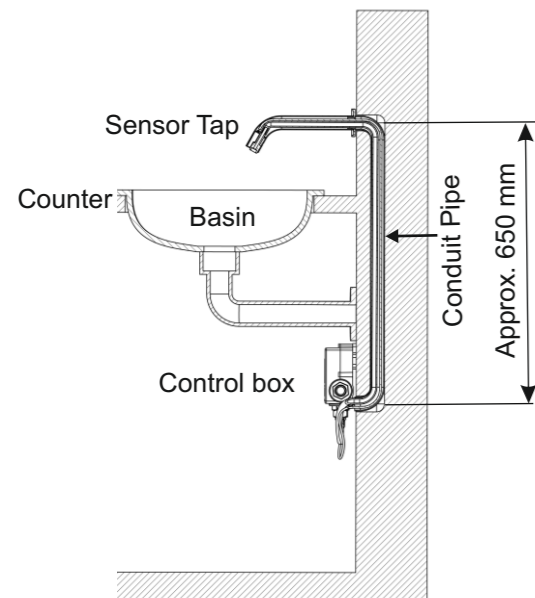


Figure 1

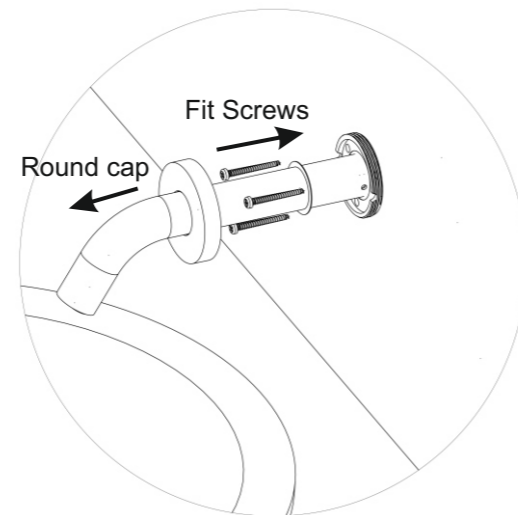


Figure 2

- 3) For fitting spout of the faucet on the wall, loosen the round cap on the brass flange as shown in Figure 2 by rotating it. Pass the water supply pipe and sensor wire with connector through the conduit pipe. Mark the spots through brass flange on the wall for drilling the holes. After drilling the holes on the wall, fit the brass flange on the wall with the three screws (provided) and fit the round cap back in its place.

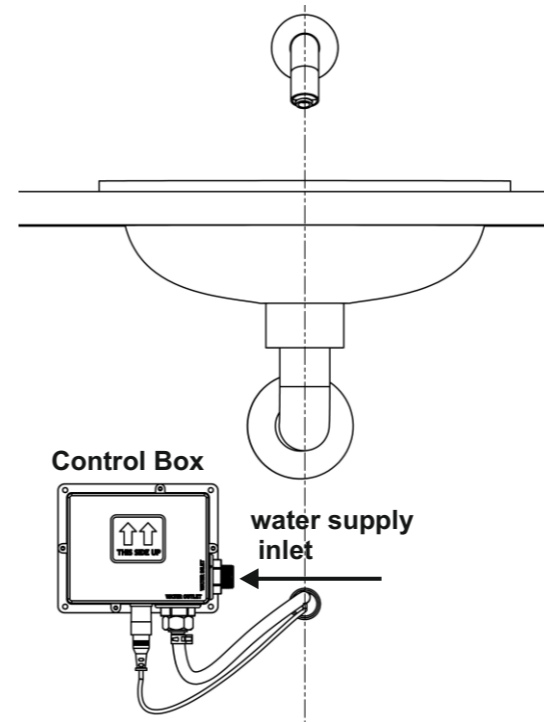


Figure 3

- 4) Fit the control box under the counter as show in Figure 3. The orientation of the box should be as shown. **DO NOT FIT THE CONTROL BOX IN ANY DIFFERENT POSITION** so the water will not directly flow into the control box in case of water leakage from the pipes. Connect the water supply pipe and sensor wire connector from the conduit pipe with the control box as shown.
- 5) The water supply inlet will get the water connection from the angle cock (not provided). Flexible pipe for water supply inlet connection is provided in the box. Make sure the rubber washers (provided) are used while making the water inlet and outlet connections to avoid leakages.
- 6) Solenoid valve and the power supply unit are located inside the control box as shown in Figure 4. Solenoid valve controls the water flow to the sensor faucet. The power supply unit in case of electrically operated versions (models with suffix 'E') is fitted with a power supply cord to be connected to the wall socket. In case of battery operated versions (models with suffix 'B'), it has a battery box for 4 'AA' alkaline batteries.
- 7) The connectors from the AC/DC power supply unit and solenoid valve are connected to the junction connector.

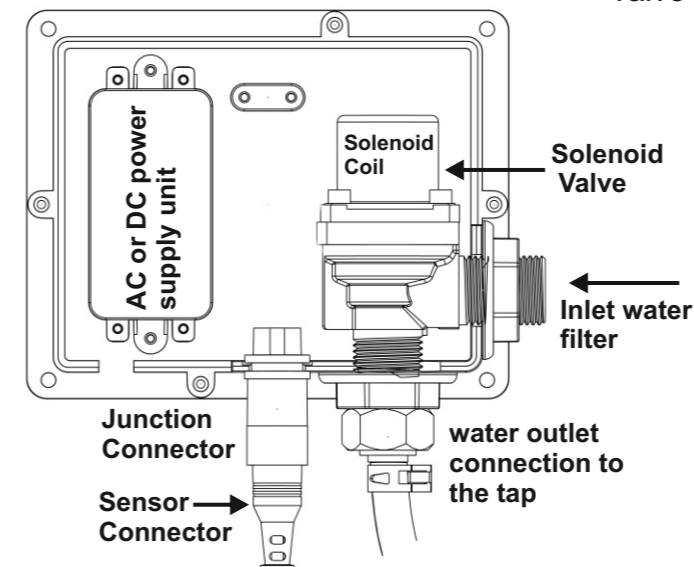


Figure 4

**Precautions:**



- 1) Do not use abrasive cleaning chemicals to clean the sensor taps.
- 2) Do not splash water on the control box.
- 3) Clean inlet filter at regular intervals.
- 4) In case of battery operated versions, use good quality alkaline batteries only.
- 5) Use genuine spare parts only

**How to replace sensor**

- 1) The sensor is located at the tip of the faucet. First remove the sensor connector fitted to the junction connector in the control box as shown in Figure 4. Loosen the screw / allen bolt holding the sensor and aerator assembly as shown in Figure 5. Once it is loosened, pull out the sensor along with the wire through the conduit pipe.
- 2) If required, remove the sensor tap from the wall (Refer Fig. 2). Replace the faulty sensor with a new one in its position. Push the sensor connector and wire through the tap and the conduit pipe in the wall. It might be helpful to attach a thick wire to the end of the sensor connector and push it first through the conduit pipe. Once the wire appears from the bottom end of the conduit pipe, pull it to pass the sensor wire and connector through the conduit.
- 3) Fit the sensor wire connector into the control box. Verify the sensor tap is working properly.
- 4) Fit the sensor and aerator assembly in its place by fixing the screw / allen bolt.

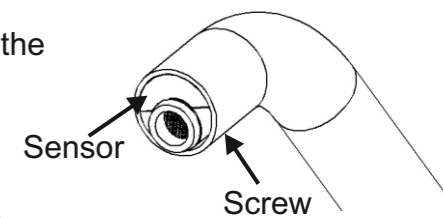
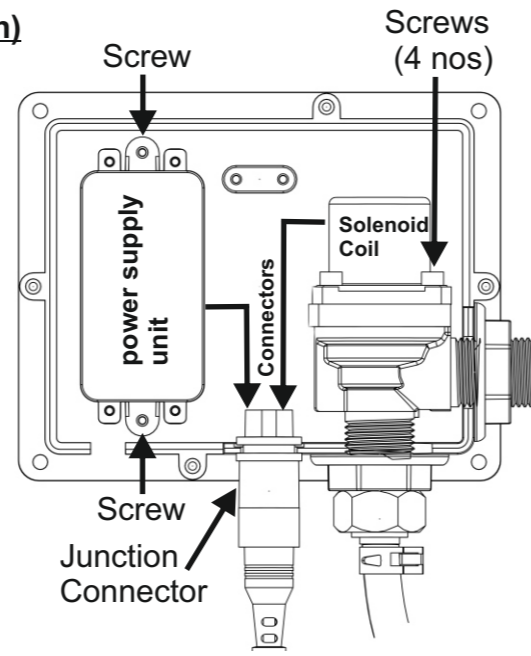


Figure 5

## Trouble Shooting

### How to replace the power supply unit (For Electrical Version)

- 1) Unplug the power supply plug from the socket. Open the control box cover. Remove the screws fitting the power supply unit to the control box as shown in Figure 6.
- 2) Remove the connector going into the junction connector from the power supply unit.
- 3) Fit the new power supply unit to the control box with the screws. Plug the connector back into the junction connector.
- 4) Fit the cover of the control box and plug the power supply cord in the socket.
- 5) Verify the sensor tap is working properly.



**Figure. 6**

### How to replace batteries (For Battery operated version)

- 1) Open the control box cover and the lid of the power supply unit by removing the screws.
- 2) Replace the old batteries with new batteries.
- 3) Fit the power supply lid and control box cover back in its place.
- 4) Verify the sensor tap is working properly.

### How to replace the solenoid coil

- 1) Open the control box cover. Unplug the connector going from the solenoid valve to the junction connector.
- 2) Remove the four screws fitting the solenoid valve coil to its body as shown in Figure 6.
- 3) Replace the old solenoid valve coil with the new coil. Fit the connector from the solenoid coil to the junction connector.
- 4) Verify the sensor tap is working properly and there is no water leakage from the solenoid valve. Fit the control box cover.

### How to replace solenoid valve

- 1) Open the control box cover. Unplug the connector going from the solenoid valve to the junction connector.
- 2) Replace the old solenoid valve with new one. Fit the solenoid connector to the junction connector.
- 3) Verify the sensor tap is working properly and there is no water leakage from the solenoid valve. Fit the control box cover back in its place.

Sr. No.	Problem	Check	Cause	Solution
1	No Water flowing	If the sensor LED is not blinking while using the sensor tap.	Sensor is faulty	Replace the sensor
		If the sensor LED is blinking while using and you can hear the 'tick' sound of the solenoid valve	Power supply unit is faulty	Replace the power supply unit
		If the sensor LED is blinking while using and you cannot hear the 'tick' sound of the solenoid valve If LED is constantly blinking at regular intervals	The filter is choked Water supply pressure is too low Water supply is shut off	Clean the inlet filter Water supply pressure is less than the shut off water pressure. Increase the water supply pressure. Start the water supply
2	Water is continuously flowing	If there is debris in the solenoid valve	The solenoid valve is faulty	Replace the solenoid valve
		If the filter is choked	Battery is low	Replace old batteries with new batteries
3	Water flow is too less	If the water pressure is less	The debris does not allow the solenoid valve to completely shut off	Remove the solenoid valve coil and clean the rubber diaphragm and inside cavity and fit the coil back in place
		If the water tank is directly overhead on the same or next floor	The debris in the filter does not allow proper water flow 14 psi water pressure is desired for optimal operation of solenoid valve When the water level drops in the tank the water supply pressure can reduce leading to less flow	Clean the inlet filter 14 psi water pressure is desirable. Pressure pump can be installed to increase water supply pressure Increase the water level in the tank or install pressure pump to increase pressure