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**DOLPHIN SERIES**  
ELECTRONIC LAVATORY FAUCETS

INSTALLATION & MAINTENANCE GUIDE

**DOLPHIN SB**



**DOLPHIN SE**



**DOLPHIN GB**



**DOLPHIN GE**



**DOLPHIN LB**



**DOLPHIN LE**



**DOLPHIN BB**



**DOLPHIN BE**



STERN ENGINEERING LTD.

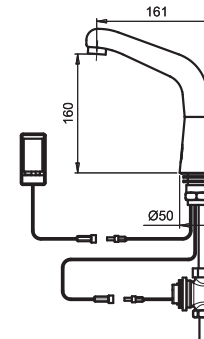
# TROUBLE SHOOTING

Problem	Indicator	Cause	Solution
No water comes out of the tap:	1. Sensor flashes continuously when user's hands are within the sensor's range. 2. Red light in the sensor does not flash when user's hands are within the sensor's range.	Low battery.	Replace battery.
		1. Range is too short. 2. Range is too long. 3. Battery is completely used up. 4. Unit is in "Security Mode". 5. Sensor is picking up reflections from mirror or other object.	Increase the range. Decrease the range. The battery must be replaced. Eliminate cause of reflection.
Water flow from spout does not stop:	3. Red light in the sensor flashes when user's hands are within the sensor's range.	1. Connectors between the electronic unit and solenoid are disconnected. 2. Debris or scale in solenoid.	Connect the electronic unit connectors to the solenoid. Unscrew solenoid, pull out the plunger and the spring from the solenoid and clean them. Use scale remover material if needed. When replacing the plunger, please make sure that the spring is in vertical position. Clean the orifice or replace diaphragm.
		3. The central orifice in the diaphragm is plugged or the diaphragm is torn. 4. The water supply pressure is higher than 8 bar. 5. The water supply pressure is under 8 bars and yet the pressure in the faucet's body is higher. This situation could be caused by a sudden increase in the water supply pressure that the back-check prevents from dropping, even after water supply pressure drops under 8 bars.	Reduce the water supply pressure. Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that blocks the product.
Water flow diminished.	1. Sensor flashes when user's hands are within the sensor's range. 2. Red light in the sensor does not flash when user's hands are within the sensor's range.	Debris or scale in diaphragm or the diaphragm is torn. 1. Sensor is dirty or covered**.	Clean the orifice or replace diaphragm. Clean or eliminate case of interference.
		2. Sensor is picking up reflections from mirror or another object. Filter or aerator is clogged.	Decrease the range or eliminate cause of reflection. Remove, clean and reinstall.

# TECHNICAL DATA



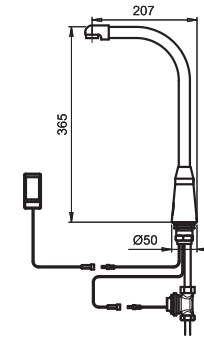
DOLPHIN SB - DOLPHIN SE  
Electronic faucet for cold or premixed water



- Installation:**
- Power specification:**
- Power Supply:**
- Security time:**
- Recommended water pressure:**
- Preset sensor range:**
- Minimum sensor range:**
- Maximum sensor range:**
- Security time:**
- Hot water temperature:**



DOLPHIN GB - DOLPHIN GE  
Electronic faucet for cold or premixed water



- Deck mounted**
- 9V low voltage system**
- 9V battery or 9V transformer**
- Optional: 6 x 1.5 AA batteries**
- 90 seconds. Can be reduced with the remote control.**
- 0.5-8.0 bar (7-116 PSI)**
- With water pressure of more than 8 bars, use a pressure reducing valve for reduction.**
- 220 mm Adjustable**
- 80 mm**
- 300 mm**
- 90 seconds**
- Max 70° C**

## RANGE ADJUSTMENT / BATTERY REPLACEMENT INSTRUCTIONS

### Adjusting the sensor with a remote control - optional:

In order to adjust the sensor with a remote control you should hold the remote control straight in front of the sensor in a distance of about 4" (10cm). Choose the function you want to adjust by pressing once on one of the function buttons. After pressing once on a specific function button, a quick flashing of the red light in front of the sensor will occur. At this stage, you can change the adjustment by pressing the (-) or (+) buttons, every push will increase or decrease one level.

**Range:** Press + to increase the detection range and - to decrease the detection range of the sensor. **The remote control may also be used to adjust:**

**Flow Time:** Press + to increase the security time and - to decrease it.

**Delay In:** Function available at remote control 7B only. Changes the time the water will start flowing when the user's hands are within the sensor range. Press + to increase it and - to decrease it.

**Delay Out:** Function available at remote control 7B only. Changes the time of water flow after the user's hands are removed. Press + to increase it and - to decrease it.

**On/Off:** This function allows to clean the faucet easily. Press this function button and the faucet will remain off for 1 minute. To cancel this function press the on/off button again.

**Reset:** This function allows coming back to all the factory settings. Press the Reset button and without releasing it, press one time the + button.

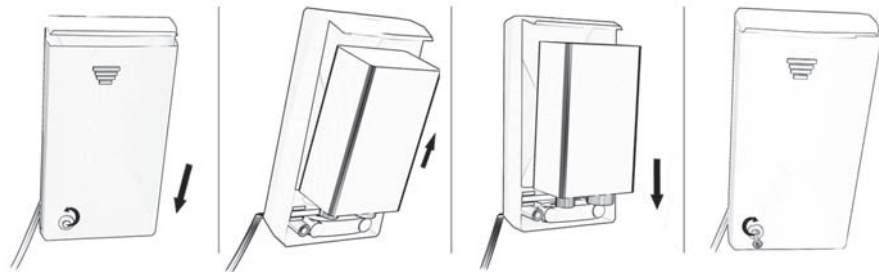


### Battery replacement instructions - Dolphin B models only

When the battery weakens, the red indicator light will blink at a constant rate. The battery must be replaced within two weeks.

To replace the battery follow these instructions:

1. Carefully open the battery box and remove the old battery.
2. Replace the used battery with a new 9V battery (Lithium battery is recommended).
3. Close the box.



## P R E - I N S T A L L A T I O N I N F O R M A T I O N

### Check contents

Separate all parts from the packaging and check each part with the pack contents section.

Pay attention to the different models variations.

Make sure all parts are accounted for before discarding any packaging material.

If any parts are missing, do not attempt to install your Dolphin electronic faucet until you obtain the missing parts.

### Warnings

Do not install the faucet facing a mirror or any other electronic system operated by an infra-red sensor.

To prevent reflection problems, it is recommended to keep a minimum distance of 1.50 meters between the faucet and other objects.

### Preparation for installation

Flush the water supply lines thoroughly before installing the faucet. Do not allow dirt, Teflon tape or metal particles to enter the faucet.

Shut off the water supply.

### Important

All plumbing is to be installed in accordance with applicable codes and regulations.

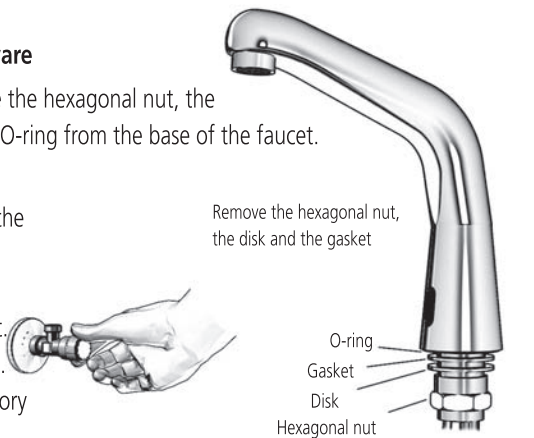
# F A U C E T I N S T A L L A T I O N

## Step 1 - Remove all mounting hardware

1. Shut off the water supply and remove the hexagonal nut, the disk and the gasket. Do not remove the O-ring from the base of the faucet.

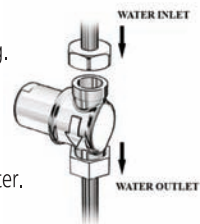
## Step 2 - Installing the faucet

1. Place the faucet with the O-ring into the hole in the deck or lavatory. Make sure the O-ring is located between the deck or lavatory and the bottom of the faucet.
2. Slide the gasket over the flexible hose.
3. Secure the faucet to the deck or lavatory with the hexagonal nut and the disk.



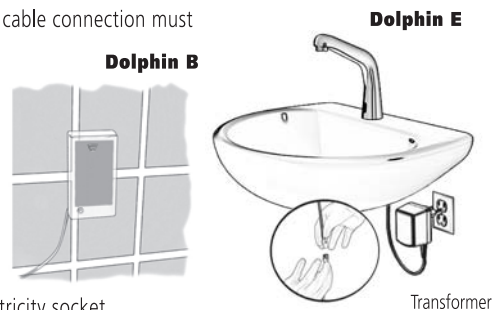
## Step 3 - Connecting the water supply

1. Fit the flexible pipe coming from the Dolphin base to the solenoid valve housing.
  2. Fit the water supply inlet to the adapter at the solenoid valve housing.
- Important:** inlet and outlet should follow the indicating arrow at the solenoid housing.
- Note:** make sure the filter is located between the solenoid housing and the adapter.
3. Turn on the central water supply and the shut-off valve. Check for leaks.



## Step 4 - Connecting the power source

1. Connect the water proof connector from the electronic unit to the solenoid's valve connector.
2. Connect the power source:
  - a. For Dolphin B: Connect the other water proof connector from the electronic unit to the battery box connector. Install the battery box at the wall under the sink using the two sided adhesive foam tape. The cable connection must point down. (You can use an optional extension cable in order to assemble the battery box up to 10 ft. away from the sink. See section "Spare parts")
  - b. For Dolphin E: Connect the other water proof connector from the electronic unit to the transformer connector. Plug the transformer into the electricity socket.
3. Important: After connecting the power source, wait a few seconds before activating the faucet to avoid entering into "adjusting mode". Activate the faucet.
4. If the range is unsatisfactory, refer to the section entitled "Range adjustment"

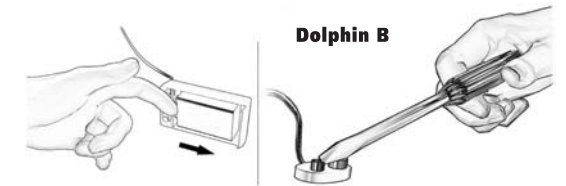
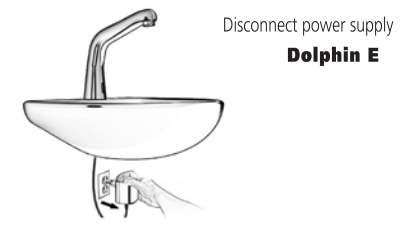


# R A N G E A D J U S T M E N T

The sensor range is the greatest distance that an object can be away from the sensor to activate the faucet. The sensor is factory preset. If necessary, it may be adjusted as follows:

## Adjusting the sensor range:

1. Disconnect the power supply, battery or transformer, from the sensor.
  2. Make a short circuit between the (+) and the (-) of the sensor. You can use a screw driver or another conductor material to make this short circuit. Alternatively, after disconnecting the power supply, activate the sensor three or four times.
- Do not make a short circuit on the power supply or on the sensor when the power supply is connected to the sensor.**



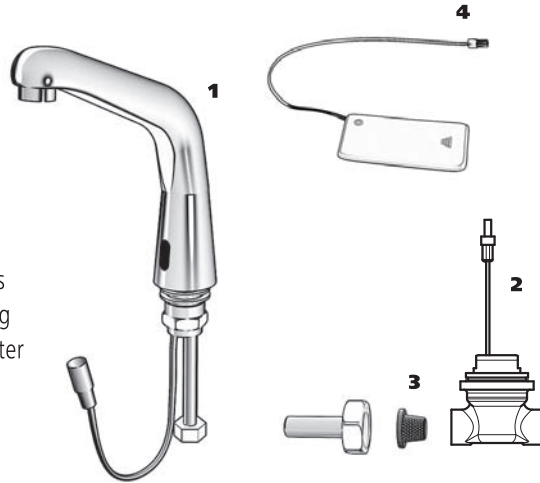
3. Reconnect the power supply to the sensor.
  4. To enter the adjusting mode, put your hand in front of the sensor at a distance of 2" (5cm) to 4" (10cm) within 5 seconds from the reconnection of the power supply.
- Note:** If you will not put your hand in front of the sensor after connecting the power supply, the sensor will not enter adjusting mode and the previous adjustment will return.
5. When the sensor enters adjusting mode and your hand is in front of the sensor, a slow flashing of the red light in front of the sensor will occur.
  6. Keep your hand in front of the sensor until the slow flashing changes to quick flashing. At this point, move your hand to the required distance from the sensor and wait until the red light will stop flashing.
  7. When the red light has turned off, the sensor is adjusted to the required distance.
  8. Check the distance you have set and if it is not satisfactory, follow steps 1-6.



# P A C K C O N T E N T S

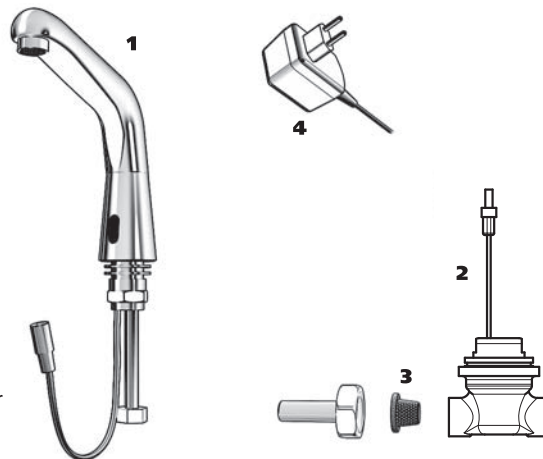
Familiarize yourself with the parts names and confirm that the parts are included.

## 1. Dolphin B models



1. 1x Tap and attachments
2. 1x Solenoid and housing
3. 1x Filter and filter adapter
4. 1x Battery box

## 2. Dolphin E models



1. 1x Tap and attachments
2. 1x Solenoid and housing
3. 1x Filter and filter adapter
4. 1x Transformer

# M A I N T E N A N C E / S P A R E P A R T S

## Filter cleaning instructions

This mixer is provided with a stainless steel filter preventing foreign particles to enter the lines. If the water flow has decreased, this may be because the filter is clogged. The filter can be cleaned as follows:

1. Shut-off the water shut off valve.
2. Disconnect the solenoid housing from the angle valve and disassemble the filter adapter from it.
3. Remove the filter and wash it under running water.
4. Reassemble the parts.
5. Reconnect the solenoid housing and restore the incoming water supply.
6. Make sure that there is no water leakage.

## Care and cleaning of chrome and special finishes

**DO NOT** use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the faucet. For surface cleaning of faucet use **ONLY** soap and water, then wipe dry with clean cloth or towel. When cleaning bathroom tile, the faucets should be protected from any splattering of harsh cleansers.

## Spare parts list

- |                         |                  |
|-------------------------|------------------|
| 1. Seals and Screws Kit | Cat.No. 07210004 |
| 2. Sensor Kit           | Cat.No. 07220039 |
| 3. Insert Kit           | Cat.No. 07240006 |
| 4. Solenoid Valve Kit   | Cat.No. 07230002 |
| 5. Diaphragm            | Cat.No. 04500001 |
| 6. Battery box          | Cat.No. 06530008 |

## Optional accessories

- |                              |                  |
|------------------------------|------------------|
| 7. IP 67 Battery box         | Cat.No. 06530020 |
| 8. Remote control            | Cat.No. 07100001 |
| 9. Spout Type S              | Cat.No. 07015020 |
| 10. Spout Type B             | Cat.No. 07015022 |
| 11. Spout Type L             | Cat.No. 07015021 |
| 12. Spout Type G             | Cat.No. 07015023 |
| 13. Transformer junction box | Cat No. 06530021 |
| 14. Mixing valve             | Cat. No. 200065  |

# I N d E X

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# W A R R A N T Y

## L I M I T E D W A R R A N T Y

This product is covered by a limited warranty of two years from date of purchase.

During this period, STERN undertakes, at its option, to repair or replace any faults caused by defective materials or manufacturer defaults that may arise (see Stern Warranty).

The guarantee does not cover faults or damage caused by incorrect installation and/or maintenance, wear and tear, battery, or water composition. This includes, but is not limited to the following:

- Incorrect installation, inversions of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply.

\* "Security Mode": If the sensor is covered for more than 90 sec. the faucet will automatically shut off water flow. To return to normal operation remove any blockage.

\*\* Water flow will stop after 90 seconds because of the security time.