

# stern

STERN ENGINEERING LTD.



## CSABA 2-IN-1

TOUCH FREE DECK-MOUNTED SINGLE UNIT  
ELECTRONIC FAUCET AND SOAP DISPENSER

INSTALLATION AND MAINTENANCE GUIDE

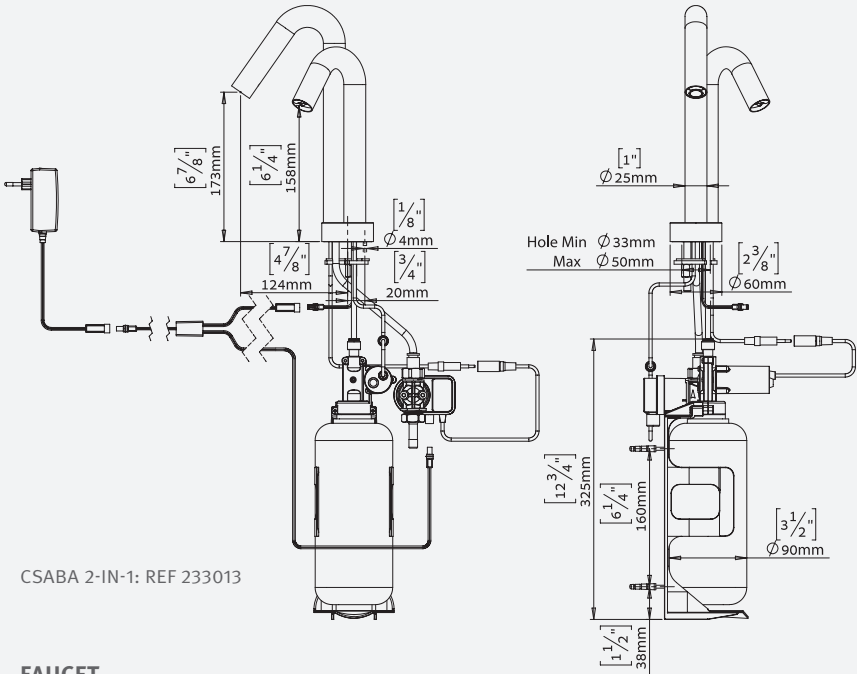
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# TECHNICAL DATA

CSABA 2-IN-1



## FAUCET

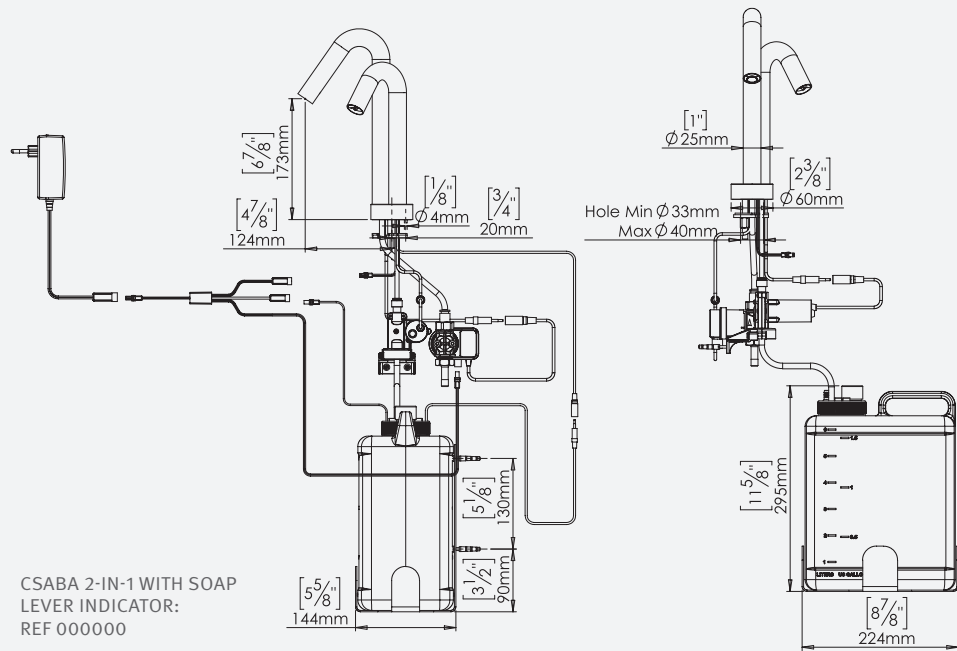
Power supply	Dual Power Input Box. 12V Transformer
Recommended water pressure	0.5-8.0 bar (7-116 PSI) With water pressure of more than 8 bars, use a pressure reducing valve for reduction.
Preset sensor range	100 mm / 39.37" (customizable with optional remote control). Self Adaptive.
Minimum sensor range	30 mm / 1.18"
Maximum sensor range	120 mm / 4.72"
Security time	90 seconds (can be reduced with optional remote control)

## SOAP DISPENSER

Capacity	1 Liter / 33.8 oz or 6 Liters / 1.6 gallon
Power Supply	12V transformer or battery 6 X type D
Soap viscosity	100 – 3800 cPs
Standard discharge	1.4CC, Adjustable
Sensor range	35-155 mm +/- 10 mm / 1.38"-6.10" +/-0.39" (customizable by optional remote control)
Preset sensor range	80 mm +/- 10 mm / 3.15" +/- 0.39"

# TECHNICAL DATA

## CSABA 2-IN-1 WITH SOAP LEVEL INDICATOR



CSABA 2-IN-1 WITH SOAP  
LEVER INDICATOR:  
REF 000000

### FAUCET

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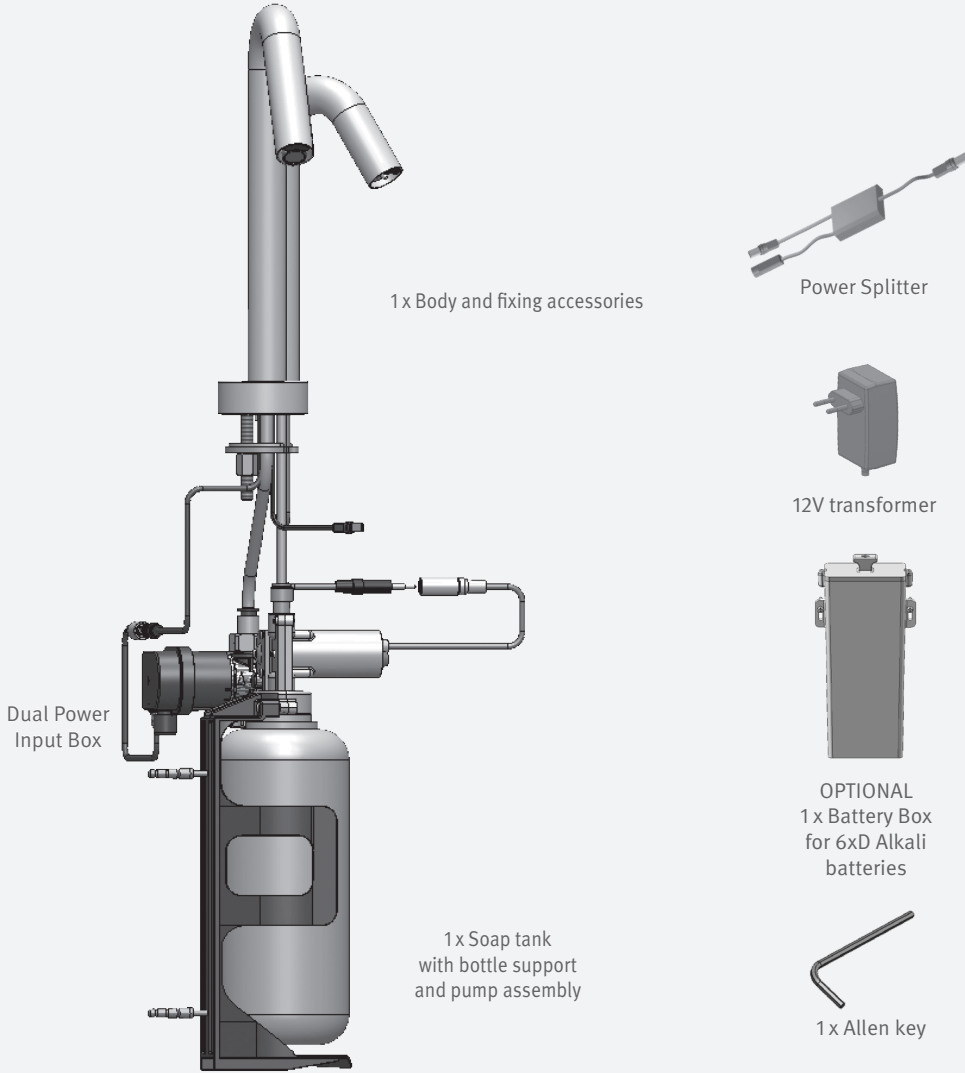
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# PACK CONTENTS

## CSABA 2-IN-1

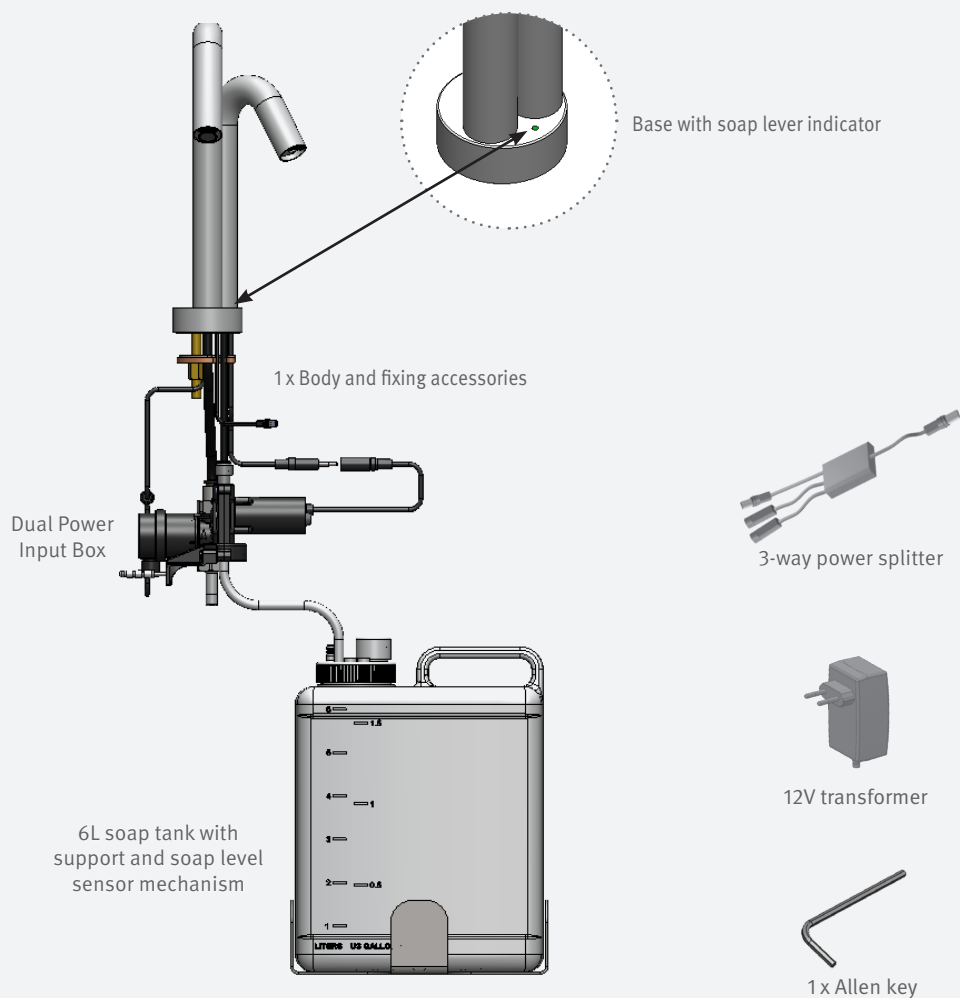
Familiarize yourself with the part names and confirm that the parts are included.



## PACK CONTENTS

### CSABA 2-IN-1 WITH SOAP LEVEL INDICATOR

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



## PRE-INSTALLATION INFO

### CHECK CONTENTS

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 electronic faucet until you obtain the missing parts.

### WARNINGS

Do not install facing a mirror or any other electronic system operated by an infrared sensor. To prevent reflection problems, it is recommended to keep a minimum distance of 1.50 meters between the faucet and any other objects. Stern liquid soap dispensers, with proper care, will provide long term trouble free service. Quality liquid soap of recommended viscosity and pH levels are the main factors for smooth operation of your dispenser. If needed, use a viscometer to verify the viscosity of your soap to ensure maximum benefit. The recommended range for liquid soap viscosity is 100-3800 cPs. Thicker liquid soap flows slower and inhibits the pump valve, causing strain and damage.

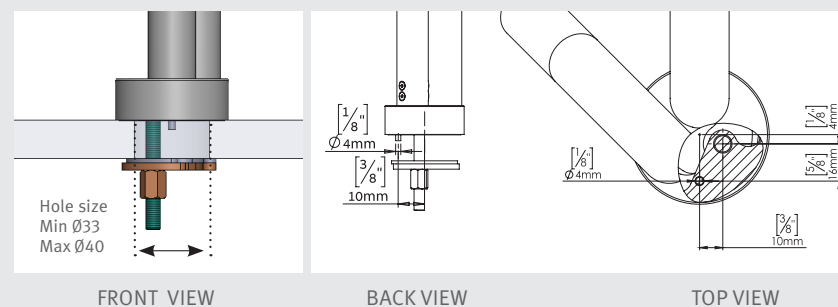
Stern liquid soap dispensers are suitable for use with any generic liquid soap of the correct viscosity and pH. The pH level of all soap used in Stern liquid soap dispensers should be between 6.5 to 8.5. Lower levels will cause corrosion to the metal dispenser and even the rubber and plastic components. Higher pH levels will cause swelling to rubber parts and degradation of plastic components over time.

### PREPARATION FOR INSTALLATION

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


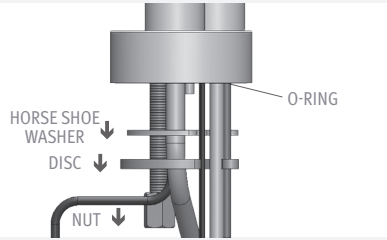
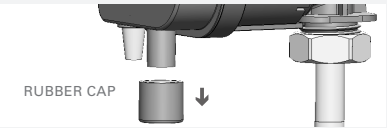

IMPORTANT: All plumbing is to be installed in accordance with applicable codes and regulations.

### RECOMMENDED HOLE SIZE

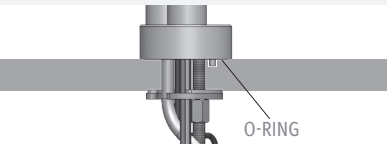
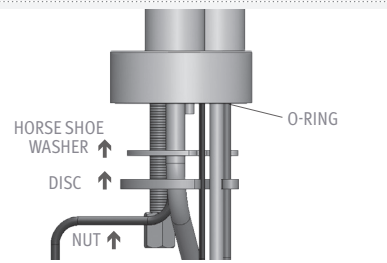


## INSTALLATION

### STEP 1 – PREPARATION FOR MOUNTING

1	Shut off the water supply.	
2	Remove the hexagonal nut, disk and horse shoe washer. Do not remove the O-ring from the base of the faucet	
3	Remove the IP67 rubber cap protecting the transformer socket at the dual power input box.	
4	Connect the transformer into the transformer socket and plug it into the electricity socket.	


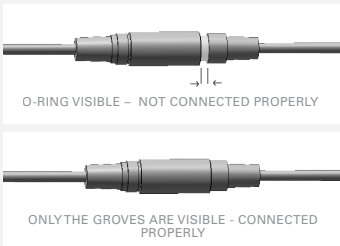
### STEP 2 – INSTALLATION PROCESS

1	Place the faucet with O-ring into the hole in deck or lavatory. Make sure the O-ring is located between the deck or lavatory and the bottom of the faucet.	
2	Slide the horse shoe washer, disk and hexagonal nut over the flexible hose and secure the faucet into place.	


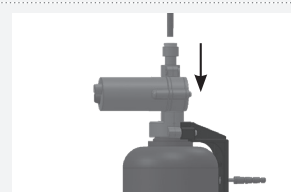
## INSTALLATION

### STEP 3 – CONNECTING THE WATER SUPPLY

NOTE: Flow direction is denoted by the arrow on the solenoid housing.

1	Connect the dual power box to the water supply lines.	
2	Connect the black flexible tube to the quick connector on the top of the dual power box.	
3	For battery versions: Place battery into the Dual Power input box.	
4	Connect the 4 contacts connector coming from the faucet body to the one at the dual power input box. Please note that since the connector is water proof, some friction might apply. <b>IMPORTANT:</b> the 4 contacts connector should be connected properly so that the white o-ring is not visible and a clicking sound is heard. <b>PAY ATTENTION:</b> If the 4 contacts connectors will not be connected properly, the motor will work continuously.	

### STEP 4 – INSTALLING THE SOAP TANK

1	Fix the bottle support to the desired location. The pump MUST be within reach range of the cable and black supply tube.	
2	Snap the soap pipe from the dispenser body into the quick connection fitting of the pump.	

## INSTALLATION

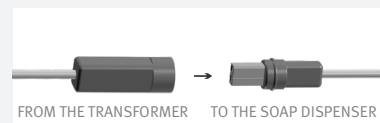
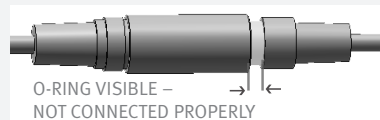
### STEP 5- CONNECTING THE FAUCET

- 1 Turn on the central water supply. Check for leaks. Remove the protective sticker from the sensor.
- 2 Connect the power source.
- 3 Once the power source is connected, wait 15 seconds to allow the system to set the ideal sensor range. A LED will flash continuously to indicate this adjustment PERIOD. THE SOLENOID VALVE WILL OPEN FOR 1 SECONd to indicate that the ideal sensor range was set.
- 4 If the automatically adjusted sensor range is not satisfactory to your purposes, please refer to the section entitled "Settings adjustment".



### STEP 5 – CONNECTING THE SOAP DISPENSER

- 1 Remove the protective sticker covering the sensor. Keep away from the sensor range.
- 2 Connect the motor connector to its matching connector coming from the electronic unit. Please note that since the connector is water proof, some friction might apply.
- 3 Plug the transformer into the electricity socket and connect the transformer connector

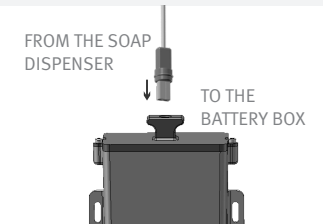


## INSTALLATION

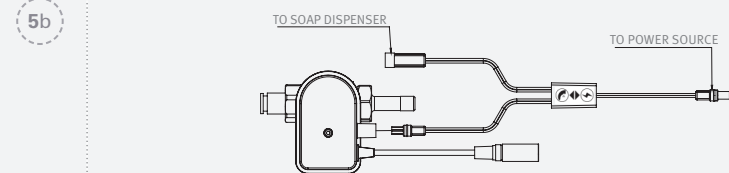
- 4 Wait about 10 seconds before you put your hands within the sensor range.



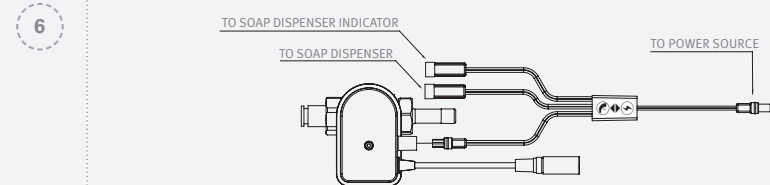
- 5a **For battery versions:**  
Install the battery box on the wall underneath the sink and connect the battery connector.  
**Caution:** make sure to connect the connectors according to the indication on the battery box sticker.



- Transformer version (regular):**  
Connect the power splitter as indicated on the sticker - one end goes to power source and each of other two ends goes to faucet's and the soap dispenser's electrical connectors.



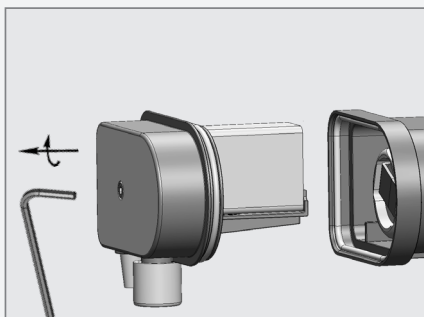
- For Soap level indicator version:**  
Connect the power splitter as indicated on the sticker - one wire end goes to power source and each of other three wire ends goes to faucet, soap dispenser and soap level indicator electrical connectors.



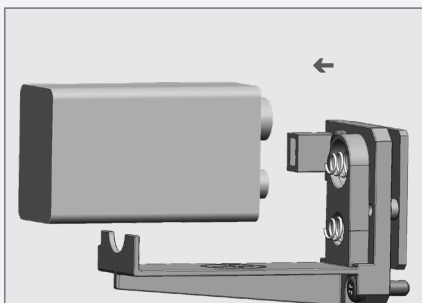
## BATTERY REPLACEMENT - FAUCET

When the battery weakens, the red indicator light will blink at a constant rate when the user's hands are within the sensor range. The battery must be replaced within two weeks.

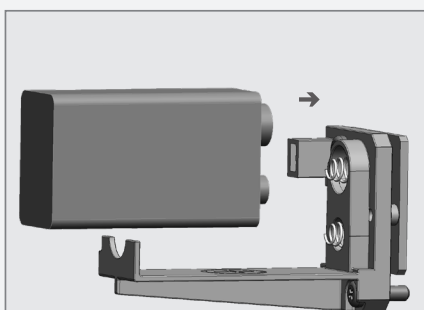
To replace the battery at Tubular DM B:



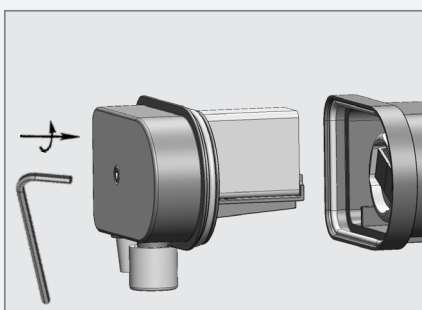
1 Carefully open the dual power input box using the 2.5mm Allen key provided.



2 Remove the old battery.



3 Replace the used battery with a new 9V battery (Lithium battery is recommended).



4 Close the box

IMPORTANT: Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.



## BATTERY REPLACEMENT - SOAP DISPENSER

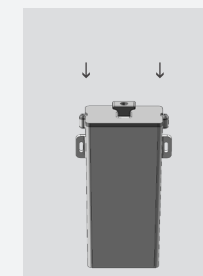
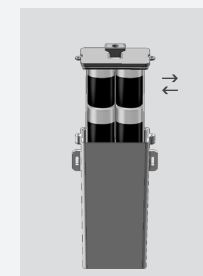
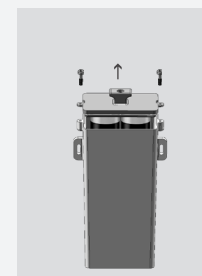
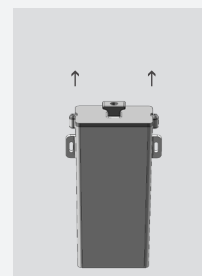
### Battery models only

When the battery weakens, the red indicator light will blink at a constant rate when the user's hands are within the sensor range. The battery must be replaced within two weeks.

To replace the battery in battery models:

1. Carefully open the battery box, use a 2.5 mm Allen key
2. Remove the old batteries
3. Replace the used batteries with new D batteries
4. Close the box.




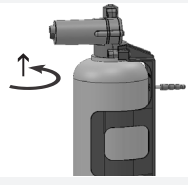
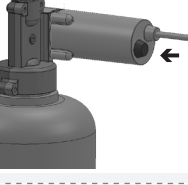

NOTE: Do not mix used batteries with new ones.



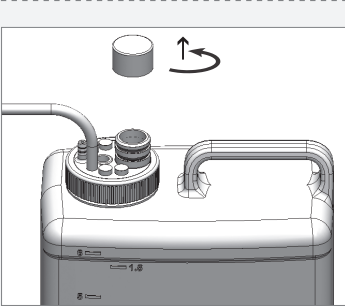
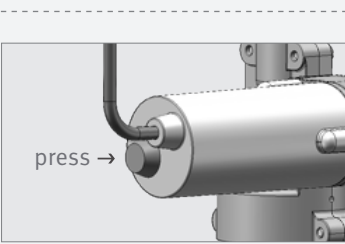

Important: Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.



## FILLING THE SOAP TANK

1	Unscrew the soap tank from the pump assembly and pull it out of the bottle support.	
2	Fill in the liquid soap up to the top line.	
3	Insert the bottle inside the bottle support.	
4	Screw the soap tank back to the pump assembly. Make sure the tank is firmly secured into place.	
5	Press the refill button located at the back of the pump assembly until soap starts coming out of the soap dispenser spout. This operation can also be done using the soap dispenser remote control Refill function.	
6	<b>NOTE:</b> Once the soap in the soap tank has reached the bottom line the soap tank should be refilled. To refill the soap tank please refer to steps 1-5.	

## FILLING THE SOAP TANK - SOAP LEVEL INDICATOR

1	Remove the cap from the soap tank and fill the soap tank with liquid soap until it is full.	
2	Press and hold the refill button located at the back of the pump assembly until soap is dispensed from the soap dispenser spout.	
3	Alternately, press the FILL button on the soap or foam dispenser remote control (if available).	



## REMOTE CONTROL FUNCTIONS - SOAP & WATER



### Adjusting the settings with the remote control

If necessary, the sensor settings can be adjusted as following:

Shut off the water supply. In order to adjust the sensor with the remote control, hold the remote control straight in front of the sensor in a distance of about 6-8" (15-20cm). 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 LED in the front of the sensor will occur. At this stage, you can change the setting by pressing the (+) or the (-) buttons, every push will increase or decrease one level. After finishing the adjustment, turn the water supply back on.

## REMOTE CONTROL FUNCTIONS - SOAP & WATER

Stern's advanced 13 keys remote control enables adjustments of products including a self-adjusting or dual flush sensor. The following settings can be adjusted and the following functions can be performed:



### DETECTION RANGE:

The detection range refers to the greatest distance an object can be located to activate the system.

The sensor range can be changed using this button on the remote control.

Press the Range button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the detection range and - to reduce it.

**Note:** Once you have changed the detection range with the remote control, the distance will be remembered by the sensor, even if the power source is disconnected. To get back to the self adjustment mode, use the ADJ button only.



### ENTRANCE TO THE SELF ADJUSTMENT MODE:

This button operates faucets including a self adjusting sensor only.

Check that no objects are in front of the sensor. Press the ADJ button. Once a quick flashing of the LED in the sensor eye is perceived, remove your hand holding the remote control away from the sensor area. The ideal sensor range for the specific location will be set automatically. Once the self adjustment has taken place the solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.



### RESET BUTTON:

This function allows the sensor to return to the original factory preset settings.

If your product includes a self adjusting sensor, the RESET button restores all the factory settings except for the sensor range. To enter the self adjusting mode, use the ADJ button. To change the sensor range, use the RANGE button. If required, press the Reset button and the + button together.

## REMOTE CONTROL FUNCTIONS - SOAP & WATER



**1-4 DROP KEY:** The 1-4 drop keys allow the user to choose the desired soap quantity at liquid soap dispensers.\*

 0.7 to 0.9  1.2 to 1.6  1.6 to 1.9  2.1 to 2.3

Indication: continuous blinking of the LED in the sensor eye.  
\*The exact dosage depends on soap viscosity.



**SOAP QUANTITY:** Press the Soap button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the soap quantity and – to decrease it.

Indication: Continuous blinking of the LED in the sensor eye.



**AIR RATIO:** Press the Air button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the air ratio and – to decrease it.

Indication: Continuous blinking of the LED in the sensor eye.



**FILL BUTTON:** To prime the soap: once the soap tank has been filled / re-filled, press the FILL button. The pump will run for one minute for priming the soap to the soap dispenser spout.

To stop this activity press the FILL button again. If the soap has not started coming out of the spout, press the Fill button again.



**TEMPORARY OFF FUNCTION:** This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning).

Faucets and or soap dispensers will remain shut for 1 minute when this button is pressed once.

To cancel this function and to return to normal operation press the On/Off button again or wait 1 minutes.

**NOTE:** To enter the self adjusting mode, use the ADJ button. To change the sensor range, use the RANGE button.

## MAINTENANCE - FAUCET

### Filter cleaning instructions

This tap 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 water supply pipe from the dual power input box and disassemble the filter which is located under inlet nipple.
3. Wash the filter under running water.
4. Reassemble the parts.
5. 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 us 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.

If system chemical disinfection is practiced, chlorine can be used (calculated chlorine concentration of 50mg/l maximum in water per one hour dwell time) at service interval frequency.

## MAINTENANCE - SOAP DISPENSER

### 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 soap dispenser. For surface cleaning use ONLY soap and water, then wipe dry with a clean cloth or towel. When cleaning bathroom tiles, the soap dispenser should be protected from any splattering of harsh cleansers.

### Disassemble of the soap pipe from the pump

The soap pipe can be disconnected from the soap pump by a simple slide & pull action. The sliding ring of the quick connection fixation nipple on the pump should be pulled down. It releases the open end of the soap pipe which can then be easily pulled out.

### Clean the soap tank

Clean out the tank prior to refill by flushing warm water through the hoses and pump until clean water is released from the spout. TIP: Keeping a spare tank will enable this process to be completed in a speedy and hygienic manner with minimal downtime.

## SPARE PARTS LIST

10-pack Sensor kit for faucet	08008006
10-pack Sensor kit for soap dispenser	08008005
10-Pack Solenoid	07232005
Soap dispenser pump assembly	07222028
Filter for faucet	08530013
Dual power input box (excluding solenoid and battery)	06530042
12V Transformer	06522081
Soap & water remote control (optional)	07100014

## TROUBLESHOOTING- FAUCET

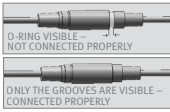
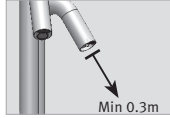
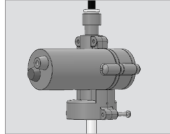


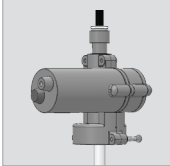


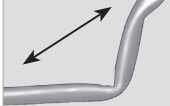
PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the faucet:	1. Sensor flashes continuously when user's hands are within the sensor's range.	Low battery.	Replace battery
	2. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Range is too short. 2. Range is too long. 3. Battery is completely used up 4. Unit is in "Security Mode"*	Increase the range Decrease the range The battery must be replaced.
	3. LED in the sensor flashes once when user's hands are within the sensor's range.	5. Sensor is picking up reflections from the washbasin or another object. 1. Connectors between the electronic unit and solenoid are disconnected.	Eliminate cause of reflection. Connect the electronic unit connectors to the solenoid.
		2. Debris or scale in 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.
		3. The central orifice in the diaphragm is plugged or the diaphragm is torn	Clean the orifice or replace diaphragm.
		4. The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
		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.	Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that blocks the product.
	1. Sensor flashes once when user's hands are within the sensor's range.	1. Debris or scale in diaphragm	Clean the orifice or replace diaphragm.
	2. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Sensor is dirty or covered.** 2. Sensor is picking up reflections from the washbasin or another object.	Clean or eliminate cause of interference. Decrease the range or eliminate cause of reflection.
	Water flow diminished	Filter or aerator is clogged	Remove, clean, re-install

\* "Security Mode": If the sensor is covered for more than 90 sec. the faucet will automatically shut off water flow.

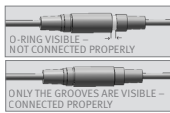
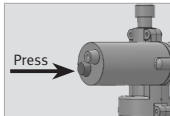
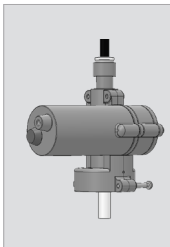
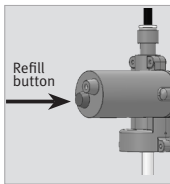
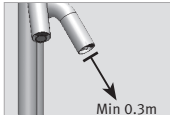
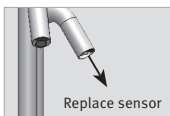
To return to normal operation remove any blockage.

\*\* In this case, the water flow will stop anyway after 90 seconds because of the security time.

## TROUBLESHOOTING- SOAP DISPENSER

Indication	Investigation	Cause	Solution	Illustration
False activation: Soap dispensing	Continuous discharge from the nozzle	AUX connector not fully inserted	The connector should be inserted fully until white o-ring is not visible. Remove the o-ring if necessary	
	Random discharge from the nozzle	Reflection issue from other object	Eliminate any cause of reflection and if necessary use appropriate remote control to shorten detection range.	
	Soap discharging from pump housing.	Damaged pump due to high viscosity or debris in pipes	Replace the Pump. Rinse warm water through the pipe and the body of the soap dispenser all the way to the nozzle.	
Soap not dispensing	Pump is making sounds when sensor is activated	Soap tank is empty	Fill with soap with correct viscosity (100 - 3800 cPs) and prime pipes using the fill button on remote control.	
		Soap dispenser has not been primed	Prime the soap dispenser by pressing the fill button on the remote or by pressing the refill button located at the bottom of the pump, until soap exits the nozzle.	
		Damaged pump (discharge from housing)	Replace the Pump	
	High viscosity soap (> 3800 cPs)	Debris or dried soap in the pipe or tank	Run warm water through pipe, pump, and body all the way to the nozzle. Replace with soap of correct viscosity.	
			NOTE: Using the soap dispenser with high viscosity soap may cause permanent damage to the pump and shorten the lifecycle.	
		Bent pipes	Unbend or straighten pipes.	

## TROUBLESHOOTING - SOAP DISPENSER

Indication	Investigation		Cause	Solution	Illustration
Soap not dispensing	Pump is not making sound when the sensor is activated	Sensor is blinking when hand is placed in front	AUX connector not fully inserted	The connector should be inserted fully until the white o-ring is not visible. Remove the o-ring if necessary	
			Refill button on pump does not activate the pump.	Replace the Pump. Rinse warm water through the pipe and the body of the soap dispenser all the way to the nozzle.	
			Damaged pump (discharge from housing).		
			Debris or dried soap in the tank or tubing	Run warm water through pipe, pump, and body all the way to the nozzle. Replace with soap of correct viscosity. NOTE: Using the soap dispenser with high viscosity soap may cause permanent damage to the pump and shorten the lifecycle.	
	Sensor is not blinking when hand is placed in front	Refill button on pump does not activate the pump.	Transformer: Check operation with functioning transformer. Where necessary replace with appropriate transformer. For part numbers see spare parts list.		
			Battery: Check operation with functioning battery pack. Where necessary, replace batteries or replace the battery pack: Battery pack (without batteries)		
			Reflection issue from other object	Eliminate any cause of reflection and use appropriate remote control to shorten detection range.	
			Damaged sensor	If the above two solutions have not resolved this issue replace with appropriate sensor. For part numbers see spare parts list.	

## TROUBLESHOOTING - SOAP LEVEL INDICATOR

PROBLEM	INDICATOR	CAUSE	SOLUTION
The indicator is red, but the tank is full, or the indicator is green, but the tank is empty		The floaters are stuck	Open the coupling nut, unscrew the cover and take the sleeve with the level indicator assembly out. Rinse the floaters in the running water and assemble back in the tank.
The LED indicator is off		The connectors between the soap dispenser pump and the top filling mechanism, or the power connectors are not connected properly.	The connectors between the soap dispenser pump and the top filling mechanism, or the power connectors are not connected properly.
The tank still has soap in it, but the soap is not coming out		The pipes of the Soap Dispenser was not inserted properly and does not reach the bottom of the tank.	Insert the pipe. Make sure that the end of the pipe is approximately 2 cm longer than the tank inner base.
		No priming was performed.	Press the refill button located at the bottom of the pump to prime the soap to the spout. Alternatively, remote control FILL button can be used for priming.

## LIMITED WARRANTY

Y. Stern Engineering Ltd. warrants that its electronic products will be free of defects in material and workmanship during normal use for two years from the date the product is purchased.

If a defect is found in normal use, Y. Stern Engineering Ltd. will, at its discretion, repair, provide a replacement part or product, or make appropriate adjustments. Damage caused by accident, misuse, or abuse is not covered by this warranty. Improper care and cleaning will void the warranty. Proof of purchase (original sales receipt) must be provided to Stern Engineering Ltd. with all warranty claims.

Stern Engineering Ltd is not responsible for labor charges, installation, or other incidental or consequential costs other than those noted above. In no event shall the liability of Stern Engineering Ltd. exceed the purchase price of the product.

If you believe that you have a warranty claim, contact your Stern Distributor, Dealer or Plumbing Contractor. Please be sure to provide all pertinent information regarding your claim, including a complete description of the problem, the product, model number, the date the product was purchased, from whom the product was purchased and the installation date. Also include your original invoice.

Y. STERN ENGINEERING AND/OR SELLER DISCLAIM ANY LIABILITY FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. This warranty excludes product damage due to installation error, incorrect maintenance, wear and tear, battery, product abuse, or product misuse, whether performed by a contractor, service company, or the consumer. This warranty does not cover product damage caused by 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 or sanitizer tank.
- Use of the soap or sanitizer outside of viscosity specifications.
- Alteration of the original soap/foam/sanitizer dispenser components (including pipes).

Failure to adhere to the safety precautions and/or installation recommendations outlined in this Installation Guide will void the warranty.

# stern

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