

stern

STERN ENGINEERING LTD.



GREEN TIME & GREEN TIME 1000

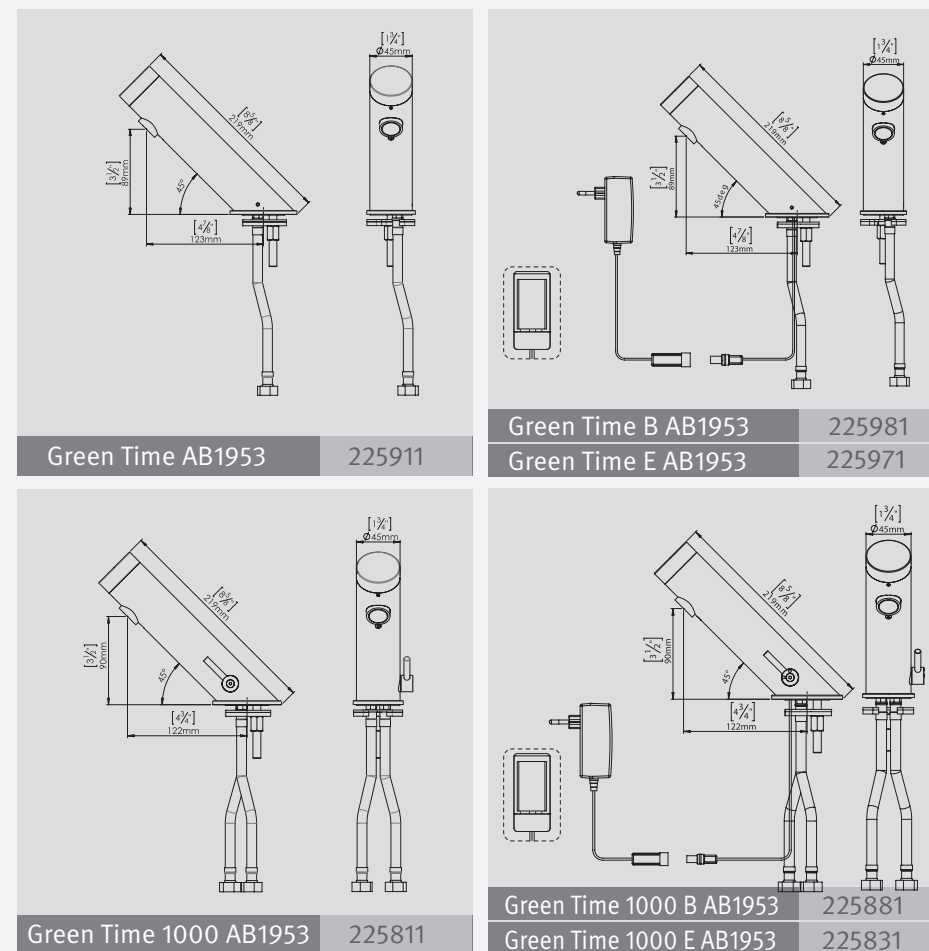
ELECTRONIC LAVATORY FAUCET

INSTALLATION AND MAINTENANCE GUIDE

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TECHNICAL DATA



Product control:	Touch using Piezo technology
Power supply:	Internal 9V battery / 9V battery / 9V 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
Flow time:	8 seconds. Adjustable.
Hot water temperature:	Max. 70° C
Programmable flow time:	1 – 60 seconds

PACK CONTENTS

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

GREEN TIME AB1953



1 x Allen key



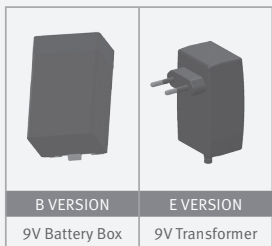
1 x Filter

1 x Tap and attachments
with internal battery



GREEN TIME B/E AB1953

1 x Tap and attachments



1 x Allen key



1 x Filter



PACK CONTENTS

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

GREEN TIME 1000 AB1953



1 x Allen key



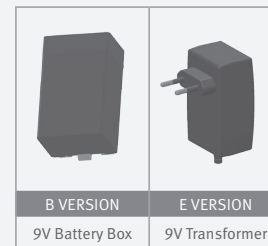
2 x Filters

1 x Tap and attachments
with internal battery



GREEN TIME 1000 B/E AB1953

1 x Tap and attachments



1 x Allen key



2 x Filters



PRE-INSTALLATION INFO

Check contents

Separate all parts from packaging and check each part with the pack contents section. Pay attention to the different model variations.

Make sure all parts are accounted for before discarding any packaging material. If any parts are missing, do not attempt to install this electronic faucet until you obtain the missing parts.

Preparation for Installation

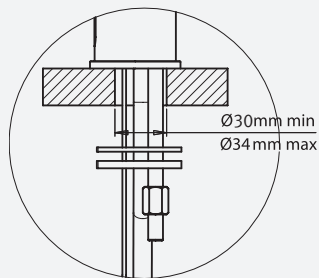
Flush water supply lines thoroughly before installing the faucet. Do not allow dirt, Teflon tape or metal particles to enter the faucet.

Shut off water supply.

Important:

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

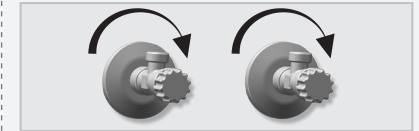
Recommended hole size



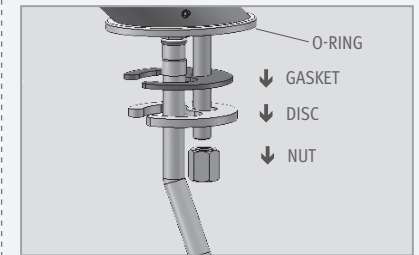
INSTALLATION

STEP 1 – PREPARATION FOR MOUNTING THE FAUCET

- 1 Shut off the water supply.

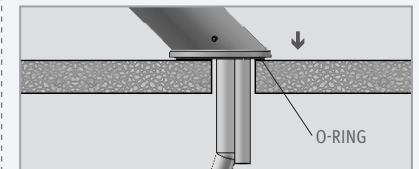


- 2 Remove the hexagonal nut, disk, and gasket. Do not remove the O-ring from the escutcheon.

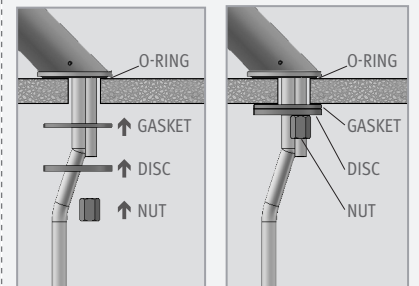


STEP 2 – INSTALLING THE FAUCET

- 1 Place the faucet base into the hole in the deck. Ensure that the O-ring is located between the bottom of the faucet and the top of the deck.



- 2 Slide the gasket and disk over the flexible hose and secure the faucet in place by firmly tightening the hexagonal nut onto the threaded rod.



INSTALLATION

STEP 3 – CONNECTING THE WATER SUPPLY

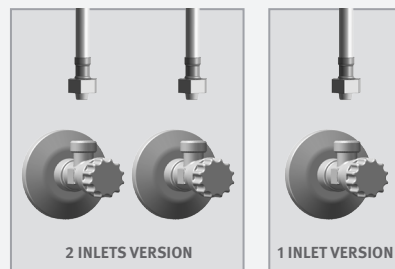
For Green Time / Green Time B/E AB1953

Connect the flexible pipe to the water supply.

1

For Green Time 1000 B/E AB1953 versions

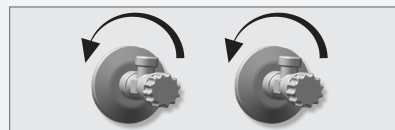
Connect the red flexible pipe to the hot water supply and the blue flexible pipe to the cold water supply.



MAKE SURE THAT THE FILTER(S) IS/ARE INSTALLED BETWEEN THE FLEXIBLE PIPE(S) AND THE SHUT OFF VALVE(S).

2

Turn on the central water supply and the shut-off valves (angle valves) and check for leaks.



NOTE: This model includes a special aerator that allows the user to adjust the direction of the water stream to avoid splashing. In order to do this, simply move the tilting face by pressing it smoothly.

ATTENTION! the aerator is tightened to prevent removal by hand.



FLOW TIME ADJUSTMENT

Adjustment levels

The flow time is programmable on site. If necessary, the default flow time of 8 seconds can be adjusted to any value between 1 and 60 seconds. The Green Time adjustment mechanism is composed of 3 adjustment levels for changing the flow time. An indicator light (LED) will guide you from one level to the other.

The following table shows the number of steps in each level, the duration of each step and how to recognize in what adjusting level you are.

	Level 1	Level 2	Level 3	Out of adjusting mode
No. of steps	10 steps	10 steps	2 steps	
Seconds to be increased by touching once	1 second	2 seconds	15 seconds	
Adjustment level indicator	After entering into adjusting mode level 1 is reached	Indicator light blinks twice	Indicator light blinks 3 times	Indicator light blinks 4 times

The following examples show how to manage the adjustment levels:

Example 1: You wish to adjust the flow time to 20 seconds.

At level 1 perform 3 steps of 1 second (you will get 3 seconds). Total: 3 seconds
Go to level 2 and perform 1 step of 2 seconds (you will get 2 seconds). Total: 5 seconds)
Go to level 3 and perform 1 step of 15 seconds (you will get 15 seconds). Total: 20 seconds.

Example 2: You wish to adjust the flow time to 45 seconds.

At level 1 perform 1 step of 1 second (you will get 1 second). Total: 1 second
Go to level 2 and perform 7 steps of 2 seconds (you will get 14 seconds). Total: 15 seconds)
Go to level 3 and perform 2 steps of 15 seconds (you will get 30 seconds). Total: 45 seconds.

Example 3: You wish to adjust the flow time to 60 seconds.

At level 1 perform 10 steps of 1 second (you will get 10 seconds). Total: 10 seconds
Go to level 2 and perform 10 steps of 2 seconds (you will get 20 seconds). Total: 30 seconds)
Go to level 3 and perform 2 steps of 15 seconds (you will get 30 seconds). Total: 60 seconds.

FLOW TIME ADJUSTMENT

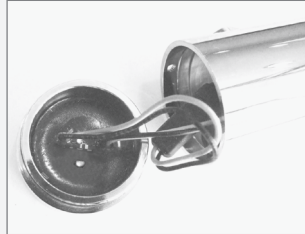
How to adjust the flow time at Green Time

- 1) Open the piezo cap using the provided 2 mm Allen key.
- 2) Disconnect the internal battery.
- 3) Touch the piezo cap twice.
- 4) Reconnect the battery.
- 5) The indicator light (LED) on the back of the Piezo cap will start blinking.

After a few blinks the LED will give a steady red light. Touch the Piezo cap when the steady red light is still on to enter into the adjusting mode. When done correctly, the light will stop blinking.

Note: If you do not press at the indicated area, the previous adjustment will remain.

- 6) By touching the Piezo cap, the new flow time will be programmed. In adjusting mode level 1, each touch increases the flow time by 1 second with a maximum of 10 seconds. You will see the LED blinking every time that a new step is performed.
- 7) If your desired flow time is within 10 seconds, no other adjusting levels are needed and you can stop pressing the Piezo cap. The LED will blink 2 times, then 3 times and after 4 times you will leave the adjusting mode. The Green Time is now adjusted to the desired flow time.
- 8) If you need to perform steps at adjusting level 2, wait after you see the LED blink twice and then, perform the needed quantity of steps (with a maximum of 10 steps of 2 seconds).
If you do not need more levels, stop pressing. The indicator light will blink 3 times and after 4 times you will leave the adjusting mode. The Green Time is now adjusted to the desired flow time.
- 9) If you need to perform steps at adjusting level 3, wait after you see the LED blink 3 times and then, perform the needed quantity of steps (with a maximum of 2 steps of 15 seconds).
- 10) To leave the adjusting mode wait until the LED blinks 4 times. The Green Time is adjusted to the desired flow time.



BATTERY REPLACEMENT

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 in Green Time AB1953, Green Time1000 AB1953:

- 1) Turn off the shut off valve.
- 2) Remove the faucet cover with the sensor, use the supplied Allen key.
- 3) Disconnect the connector coming from the electronic unit to the battery.
- 4) Replace the used battery with a new 9V battery. A Lithium battery is recommended.
- 5) Carefully place the battery inside the body and reassemble the electronic unit connector to the battery.

Important:

- Since water contacting the battery terminals rapidly drains the battery, do not allow moisture or water into the system while the battery is being replaced.
- Make sure the O-ring is still in its groove and is not damaged. If needed replace it with a new one or clean and lubricate it with silicon grease before reassembling the parts.

- 6) You must reassemble the faucet cover with the sensor within 30 seconds in order for the sensor self adjustment to be done properly.

To replace the batteries in Green Time B AB1953, Green Time1000 AB1953:

1. Carefully open the battery box.
2. Remove the old batteries.
3. Replace the used batteries with new batteries.
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.



MAINTENANCE

FILTER CLEANING INSTRUCTIONS

This faucet is provided with one or two stainless steel filter/s 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 flexible pipe.
3. Remove the filter/s and wash it/them under running water.
4. Reassemble the parts.
5. Reconnect the flexible pipe 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 faucets 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

10-Pack Solenoid Valve Kit	07232000
Seals and Screws Kit - Green Time	07210082
Seals and Screws Kit - Green Time 1000	07210083
Cover Kit for Green Time	07270085
Mixing Handle kit	07260008
Battery box for 9V battery	06530080
Transformer (EU plug)	06522091

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
No water coming out of the faucet	Low battery.	Replace battery. See page 9
	Battery is completely used up	The battery must be replaced.
	Connectors between the piezo cap connector and solenoid connector are disconnected.	Connect the piezo connectors to the solenoid.
	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.
	The central orifice in the diaphragm is plugged or the diaphragm is torn	Clean the orifice or replace diaphragm.
	The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
	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.
Water flow from spout does not stop	Debris or scale in diaphragm	Clean the orifice or replace diaphragm.
Water flow diminished	Filter or aerator is clogged	Remove, clean, re-install
The Piezo element in the faucet cap does not work	Connectors between the electronic unit and the cap are disconnected or the Piezo element does not function.	Connect the electronic unit connector to the cap connector or replace the cap.

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 soap tank.
- Use of the soap outside of viscosity specifications.
- Alteration of the original soap/foam dispenser components (including pipes).

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