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CORNING | STRIPETTOR™ PLUS

INSTRUCTION MANUAL

Models:

4090 – 120V US

4091 -- 230V EU

4092 -- 230V UK

4093 -- 100V JP



Warnings

Before using the Stripettor™ Plus pipetting controller for the first time, please read this entire operating manual carefully. To guarantee problem free, safe operation, it is essential to observe the following points:

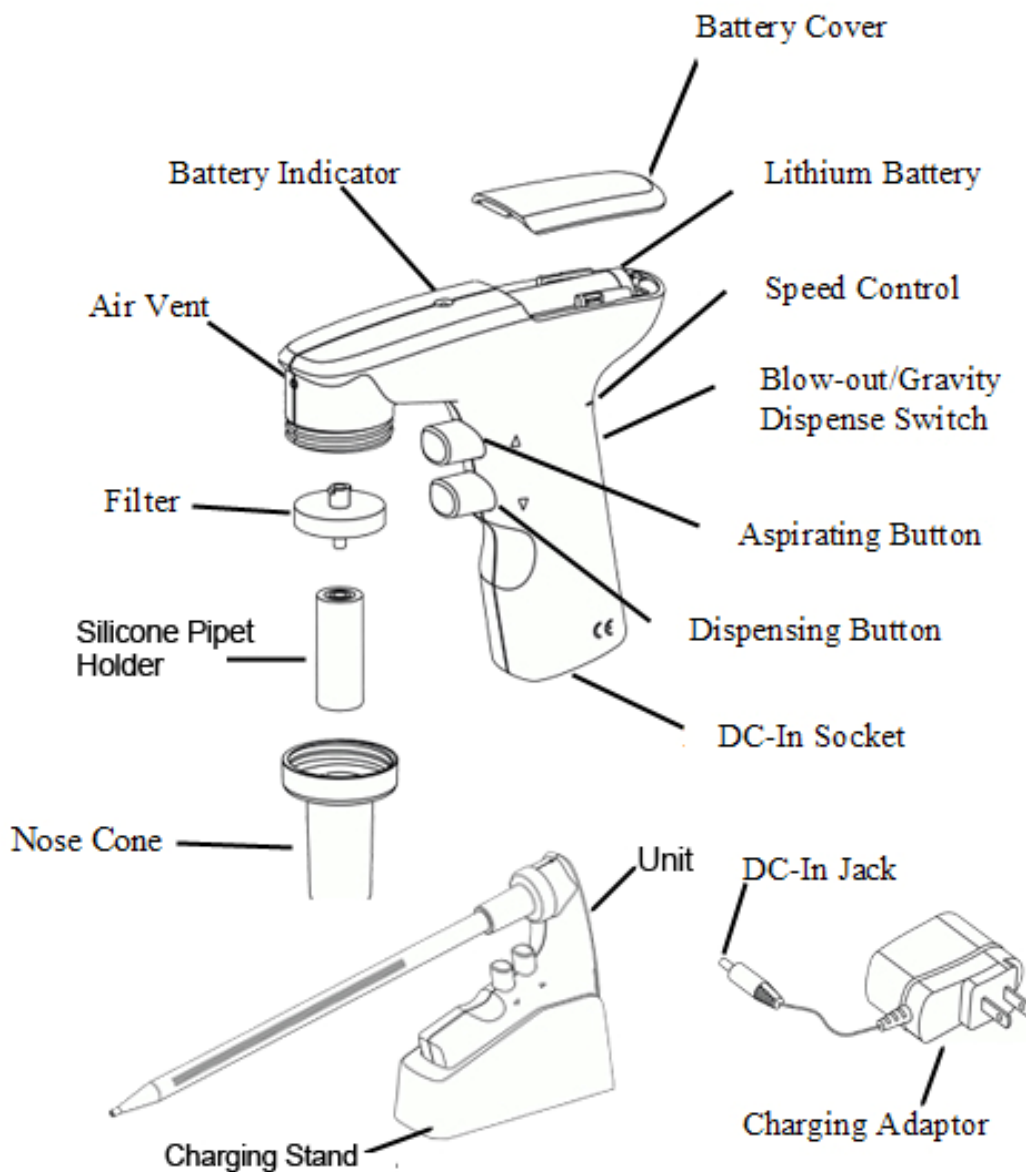
- When using infectious, radioactive, toxic and other solutions which may pose health risks, please observe appropriate safety precautions.
- Do not use the Stripettor Plus pipetting controller in a potentially explosive environment or with potentially explosive, flammable liquids.
- When using organic solvents or corrosive chemicals, please check their compatibility with the Stripettor Plus pipetting controller.
- The Stripettor Plus pipetting controllers operate on a small but powerful Lithium-ion battery. Misuse or abuse of the Lithium-ion battery may cause damage or injury through fire, electric shock, or chemical leakage.
- Do not incinerate the Lithium battery or expose it to excessive heat.
- Do not short-circuit, puncture, crush, disassemble, damage, force over-discharge (reversal) or modify the battery.
- Do not expose the battery to water or moisture.
- Only use the battery specified in this manual.
- Only use the specified battery charging adaptor to charge the battery. Use the unauthorized battery charging adaptor might cause short-circuit or fire on the Stripettor Plus pipetting controller.
- Do not use a leaking battery.
- If charging is not completed within the specified time period, unplug the charger and discontinue charging immediately.
- The charger and battery temperature rises with extended periods of use. Care should be taken to avoid burns.
- Burns may result if the battery is removed immediately after extended periods of use.
- If fluid from the battery enters your eye, immediately rinse the eye with plenty of fresh water and contact a doctor. If fluid from the battery makes contact with your skin or clothing, wash the area thoroughly with water.
- The Stripettor Plus pipetting controller can't be used with solvents whose vapors attack silicone, ABS, Polypropylene, Nitrile butadiene rubber, Polyvinylidene Fluoride.
- Please observe the relevant regulations to dispose the battery.
- All repairs should be carried out by authorized service personnel only

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General Information

Corning's Stripettor™ Plus pipetting controller is ergonomic, light weight, and offers precise control of aspiration and dispensing. Designed for use with Corning's Stripette® seriological pipets, the pipetting controller is also compatible with most glass and plastic serological pipets from 1 mL to 100 mL. Speed range is adjustable via a control wheel on the back of the instrument and aspirating and dispensing can be finely controlled by the pressure sensitive buttons. The Stripettor Plus pipetting controller comes equipped with both blow out and gravity modes. The unit operates on a rechargeable Lithium battery. A battery indicator light lets the user know when it's time to recharge; the Stripettor Plus pipetting controller can be used while charging.



Technical Specifications

Pipet types	1-100 mL plastic/ glass pipet
Max aspiration speed	6 mL/seconds
Dispense Mode	Blow-out or Gravity
Speed Control Wheel	Continuous, "+": Fast, "-": Slow
Charging Adaptor	120/100V or 230V 50/60Hz with US/EU/UK plug
Filter	Hydrophobic 25 mm diameter, 0.2 µm
Autoclavable	Nose cone, pipette holder and filter only
Operating Temperature	+10 - 35°C
Operating Humidity	RH: 0 - 85%
Battery	3.7 V, 1100 mAh or above, Li-Ion
Weight	186 g, including a battery
Housing Material	Acrylonitrile Butadiene Styrene (ABS)
Nose Cone Material	Polypropylene
Pipet Holder	Silicone
Certification	Complies with CE, Class B (EN61000-6-3/EN61000-6-1) RoHS compliant

Note: Specifications are subject to change without notice.

Unpacking the Corning Stripettor™ Plus Pipetting Controller

Open the Stripettor Plus pipetting controller package and confirm that all items are included:

1. Stripettor Plus pipetting controller unit with a Lithium battery included
2. Charging Stand
3. AC-DC charging adaptor
4. Operation manual
5. Spare hydrophobic PTFE filter, 0.2 µm

If there are any items missing, damaged, or not according to your order, please contact your distributor or sales representatives for replacement immediately.

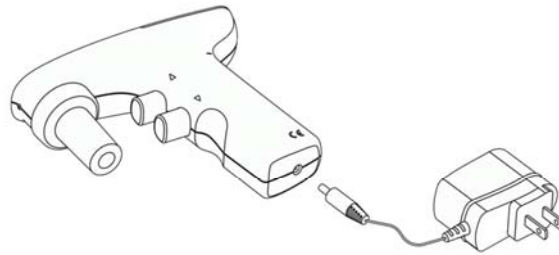
Operating the Corning Stripettor™ Plus Pipetting Controller

A) Recharging the Battery

A



B



Please charge the Lithium battery 6 hours before first-time operation.

When the battery indicator turns red (low battery), follow the steps below to recharge the battery.

- Place the unit in the charging stand and the DC-in jack of charging adaptor in the base charging stand (Image A) –or–
- Plug the DC-in jack of charging adaptor to the DC-in socket in the base of the unit (Image B)
- Plug the charging adaptor into an external power source.
- The battery indicator will turn red during charging period.
- After the battery is fully charged, the battery indicator will turn green again. The charging period may take about 6 hours.

Note:

1. Please do not over-charge the battery for a long period of time.
2. The Stripettor Plus pipetting controller can be operated during recharging period.
3. When battery is fully charged, Stripettor Plus pipetting controller can be used about 4.5 hours.
4. The Lithium Battery can be changed by the following procedures:
 - 1.) Lift the battery cover and
 - 2.) Disconnect the battery's connector.

B) Starting Pipetting

To Aspirate:

1. Carefully hold the pipet and insert it securely into the nose cone and silicone pipet holder.
2. Select the pipetting speed by rotate the speed control wheel.
3. Press down the aspirating button.

To Dispense:

1. In “Blow-Out mode”, press down the dispensing button.
2. If “Gravity mode (G)” is chosen, the liquid in the pipet is dispensed by gravity only. The flow rate is regulated by the pressure applied to the dispensing button.

Preventative Maintenance

A) Changing Filter/Silicone Pipet Holder

The hydrophobic filter and pipet holder will require occasional replacement, particularly when aspirating speed is decreased. Rotate the nose cone counter-clockwise direction to loose it. Remove or replace the wet, dirty filter/worn pipet holder with the new ones. Reassemble the device.

Cat. Number	Description	Qty/Cs
4094	PTFE Autoclavable Filters, 0.2 µm	5
4095	PTFE Autoclavable Filters, 0.45 µm	5
4096	Replacement Silicone Pipet Holder	1

B) Cleaning and Disinfecting

Before cleaning, disconnect the unit from the charging adaptor.

The Stripettor™ Plus pipetting controller can be cleaned with most common laboratory disinfectants, such as 60% Isopropanol, 70% ethanol or mild detergent. The PTFE filter, polypropylene nose cone and silicone pipet holder can be autoclaved.

Troubleshooting

To ensure the product's quality and performance, the Stripettor Plus pipetting controller is designed to be robust and long-lasting.

If the problems can't be resolved with the solution below, please contact the authorized distributors to arrange a DOA/RMA service.

Symptom	Possible Cause	Solution
Reduced suction efficiency	Filter blocked, dirty or wet	Clean or replace filter
	Low battery	Recharge battery
Pipet drips	Pipet not securely inserted in silicone pipet holder	Insert pipet further
	Pipet holder or pipet damaged	Replace pipet holder or pipet
Pipet loose	Pipet holder damaged	Replace pipet holder

Service and Repair Information

If you have a question about the Corning Stripettor™ Plus pipetting controller or have a service inquiry, contact Corning Technical Information Center immediately at:

- 1.800.492.1110 (for toll-free calling within the U.S. and Canada)
- 1.978.442.2200 (outside the U.S.), or
- Contact your local Corning support office listed in the back of this manual.

Before returning any unit for service, a Return Authorization (RA) number must first be obtained. Equipment sent in without out prior authorization will be returned at the customer's expense. When returning a unit to Corning for service, it should be sent in the original packaging. If this is not possible, be sure that the unit is sufficiently packed. Any damage resulting from improper packaging is the responsibility of the customer. A written explanation should accompany the unit along with the RA number.

Warranty

Corning Incorporated (Corning) warrants that this product will be free from defects in material and workmanship for a period of two (2) years from date of purchase. CORNING DISCLAIMS ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Corning's sole obligation shall be to repair or replace, at its option, any product or part thereof that proves defective in material or workmanship within the warranty period, provided the purchaser notifies Corning of any such defect. Corning is not liable for any incidental or consequential damages, commercial loss or any other damages from the use of this product.

This warranty is valid only if the product is used for its intended purpose and within the guidelines specified in the supplied instruction manual. This warranty does not cover damage caused by accident, neglect, misuse, improper service, natural forces or other causes not arising from defects in original material or workmanship. This warranty does not cover motor brushes, fuses, light bulbs, batteries or damage to paint or finish. Claims for transit damage should be filed with the transportation carrier.

In the event this product fails within the specified period of time because of a defect in material or workmanship, contact Corning's Customer Service at the following numbers: USA: 1-800-492-1110; Canada: 1-978-442-2200. For other regions of the world, please visit www.corning.com/lifesciences or see the included instruction manual for a list of World Wide Support Offices.

Corning's Customer Service team will help arrange local service or provide a return authorization number and shipping instructions. Products received without proper authorization will be returned. All items returned for service should be sent postage prepaid in the original packaging or other suitable carton, padded to avoid damage. Corning will not be responsible for damage incurred by improper packaging. Corning may elect for onsite service for larger equipment.

Some states do not allow limitation on the length of implied warranties or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights. You may have other rights which vary from state to state.

No individual may accept for, or on behalf of Corning, any other obligation of liability, or extend the period of this warranty.

For your reference, make a note of the serial number, date of purchase and supplier here.

Serial No. _____ Date Purchased _____

Supplier _____

Declaration of Conformity



Corning Life Sciences hereby confirms that the product

Stripettor™ Plus Pipetting Controller

Is in accordance with the following directives and standards:

2006/95/EC	Low Voltage Directive
2004/108/EC	EMC Directive
98/37/EC	Machine Directive
2002/95/EC	RoHS
2006/96/EC	WEEE

EN 61000-6-3:2007

EN 61000-3-2:2006

EN 61000-3-3: 1995 + A1: 2001 + A2:2005

EN 61000-6-1: 2007

IEC 61000-4-2: 1995 + A1: 1998 + A2:2000

IEC 61000-4-3: 2002 + A1: 2002

IEC 61000-4-4: 2004

IEC 61000-4-5: 1995 + A1: 2000

IEC 61000-4-6: 1996 + A1: 2000

IEC 61000-4-11: 2004

Michael Rosenblum
Quality Manager

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to both Part 15 of the FCC Rules and the radio interference regulation of the Canadian Department of Communications. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference which case the user will be required to correct the interface at his own expense.

Product Disposal



This symbol, if present on the product, indicates that the product was planned for use in a country complying with the Waste Electrical and Electronic Equipment EU Directive, 2002/96/ED. This symbol indicates that this equipment must not be disposed of with unsorted municipal waste. It is the product user's responsibility to correctly dispose of waste equipment by handing it over to an authorized facility for separate collection and recycling. It is the product user's responsibility to decontaminate waste equipment from biological, chemical, and/or radiological hazards prior to disposal.

Additional information pertaining to the disposal of Corning per the WEEE Directive can be obtained at www.corning.com/weee.

Please register your warranty online at
<http://www.corning.com/lifesciences/warranty>

CORNING

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f 0800 918 636

Germany
t 0800 101 1153
f 0800 101 2427

The Netherlands
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f 31 20 659 76 73

United Kingdom
t 0800 376 8660
f 0800 279 1117

All other European Countries
t 31 (0) 20 659 60 51
F 31 (0) 20 659 7673

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t (55-11) 3089-7419
f (55-11) 3167-0700

Mexico
t (52-81)8158-8400
f (52-81) 8313-8589

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