



Inserting the locking clip Multi-channel lower part

Instructions for use

eppendorf



Copyright© 2012 Eppendorf AG, Hamburg. No part of this publication may be reproduced without the prior permission of the copyright owner.

eppendorf®, Eppendorf Research® plus, Eppendorf Xplorer® and Eppendorf Xplorer® plus are registered trademarks of Eppendorf AG, Hamburg, Germany.

Registered trademarks are not marked in all cases with ™ or ® in this manual.

Inserting the locking clip – Instructions for use

Table of contents

1	Product description	4
2	Installation	4
2.1	Releasing the multi-channel lower part	4
2.2	Opening the multi-channel lower part	4
2.3	Removing the channel	5
2.4	Fitting the channel	6
2.5	Closing the multi-channel lower part	7
2.6	Checking the function	7
2.7	Removing the locking clip	7
3	Ordering Information	7

Inserting the locking clip – Instructions for use

1 Product description

Applies to multi-channel lower parts with the following nominal volumes:

- 10 µL
- 100 µL
- 300 µL

Applies to the following pipettes:

- Research[®] plus
- Xplorer[®]
- Xplorer[®] plus

With spring-loaded tip cones the movement can be blocked with a locking clip. To do this, all springs are replaced by locking clips.

Insert the locking clips, if you are:

- using pipette tips over an extended period.
- using pipette tips by other manufacturers and the tips bend during dispensing.

2 Installation

2.1 Releasing the multi-channel lower part

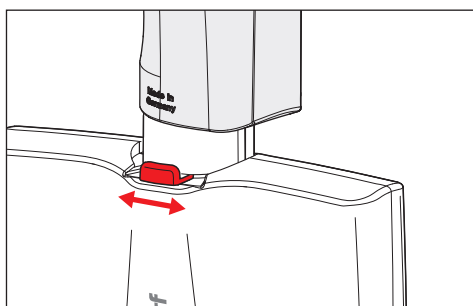


Fig. 1: Release the lever for the lower part

- ▶ Push the lever to the left or to the right and pull the lower part off.

2.2 Opening the multi-channel lower part

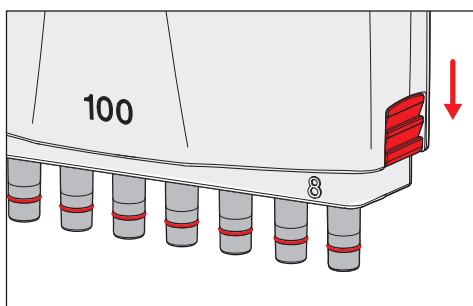


Fig. 2: Open / close cover plate latch

- ▶ Push both side latches downwards.
- ▶ Carefully remove the cover plate.
- ▶ Put down the lower part with the lever facing downwards.

Inserting the locking clip – Instructions for use

2.3 Removing the channel

A channel consists of a piston, a cylinder and a tip cone. To insert the locking clips, all channels must be removed.

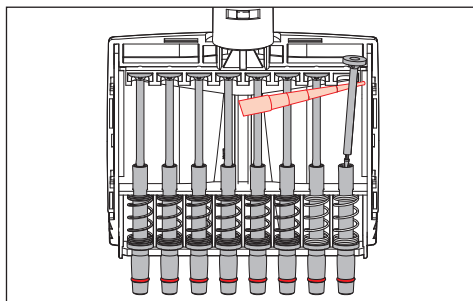


Fig. 3: Release the piston

- ▶ Release the piston from the upper rail, using a pointed object.
- ▶ Carefully remove the piston. **Do not** bend the piston.

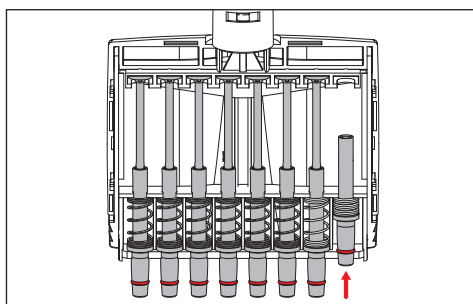


Fig. 4: Compress the spring.

- ▶ Push the tip cone in.

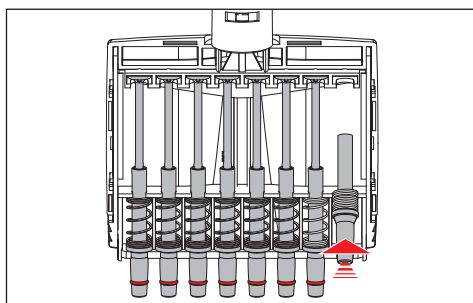


Fig. 5: Lift the tip cone

- ▶ Hold the tip cone, lift and release it from the lower rail.

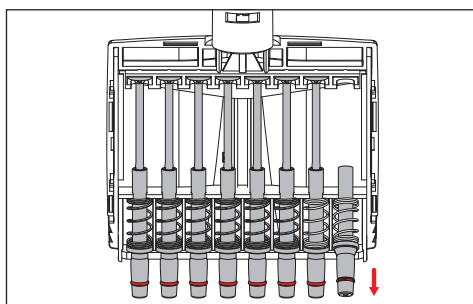


Fig. 6: Remove the tip cone

- ▶ Carefully untension the spring.
- ▶ Remove the tip cone and the spring from the lower rail.

Inserting the locking clip – Instructions for use

2.4 Fitting the channel

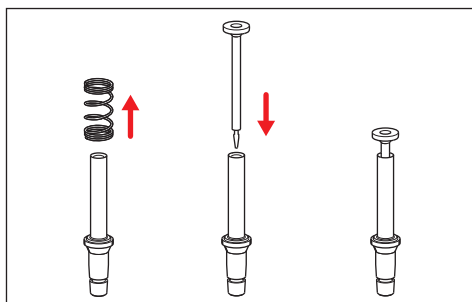


Fig. 7: Remove the spring and insert the piston

- ▶ Remove the spring.
- ▶ Insert the piston into the tip cone.



Keep the springs so that you can re-use them.

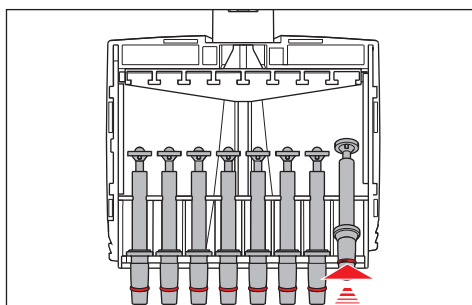


Fig. 8: Insert the piston into the tip cone.

- ▶ Insert the channels one by one, without the springs.

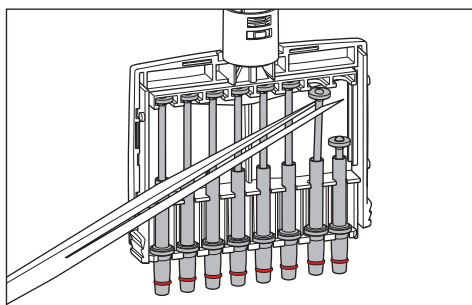


Fig. 9: Insert the pistons

- ▶ Carefully insert the pistons into the upper rail.

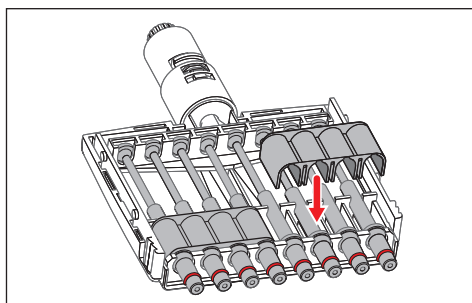


Fig. 10: Insert the locking clip

- ▶ Insert the locking clip.

Inserting the locking clip – Instructions for use

2.5 Closing the multi-channel lower part

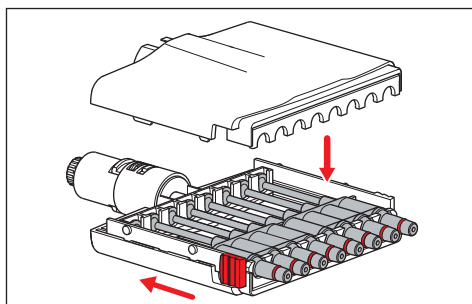


Fig. 11: Attach the cover plate

- ▶ Attach the cover plate.
- ▶ Push both side latches upwards.

2.6 Checking the function

Please ensure that all parts are assembled correctly.

- ▶ Carry out a gravimetric test of the systematic and random errors.

2.7 Removing the locking clip

Prerequisites

Pin from the delivery package of the pipette.

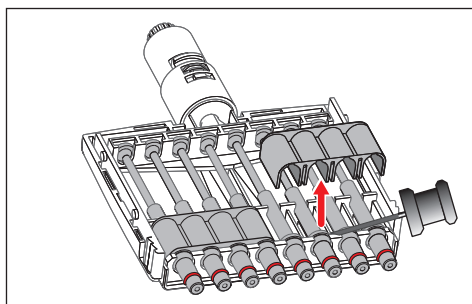


Fig. 12: Lift the locking clip using the pin

- ▶ Remove the locking clip.
The springs can now be re-inserted.

3 Ordering Information

Order no. (international)	Description
	Locking clip
	To prevent spring loading of multi-channel lower parts (10 µL, 100 µL, 300 µL)
3122 612.006	2 pieces for 8-channel lower parts
3122 613.002	3 pieces for 12-channel lower parts



Evaluate your operating manual

www.eppendorf.com/manualfeedback

eppendorf

Your local distributor: www.eppendorf.com/worldwide

Eppendorf AG · 22331 Hamburg · Germany · Tel: +49 40 53801-0 · Fax: +49 40 538 01-556 · E-mail: eppendorf@eppendorf.com

Eppendorf North America, Inc. · 102 Motor Parkway · Hauppauge, N.Y. 11788-5178 · USA

Tel: +1 516 334 7500 · Toll free phone: +1 800-645-3050 · Fax: +1 516 334 7506 · E-mail: info@eppendorf.com

Application Support Europe: Tel: +49 1803 666 789 (Preis je nach Tarif im Ausland; 9 ct/min aus dem dt. Festnetz; Mobilfunkhöchstpreis 42 ct/min)
support@eppendorf.com

North America: Tel: +1 800 645 3050 · E-mail: techserv@eppendorf.com

Asia Pacific: Tel: +60 3 8023 6869 · E-mail: support_asiapacific@eppendorf.com