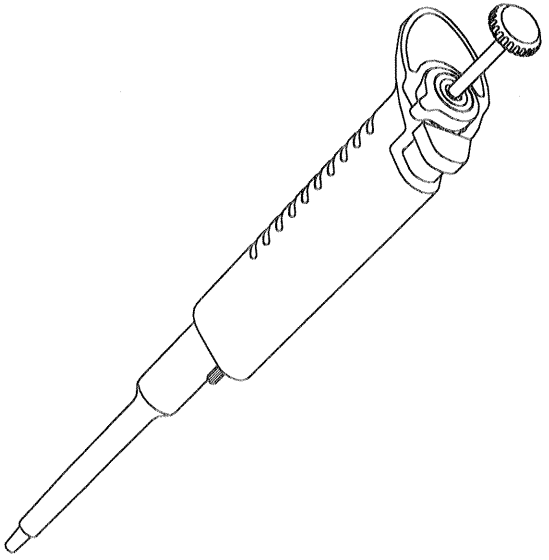
OXFORD®
LABWARE

Autoclavable *UV Stable*

BenchMate II™

Continuously Adjustable Pipette

User's Manual



- Thank you for your purchase of our ***BenchMate II***™.
- Before proceeding to work with your ***BenchMate II***™ carefully read this manual for proper use of it.

FEATURES:

- The main body of the ***BenchMate II***™ is totally autoclavable 121 °C for 20 minutes.
- The ***BenchMate II***™ is suitable for liquid handling on a clean bench because it is designed to be usable in irradiation of ultraviolet rays. (If Ultraviolet rays are applied to the unit for a considerably long time, it may discolor but this will not affect it's performance.
- The handle is ergonomically designed to reduce fatigue from repetitive use.
- The sample volume is easily adjusted by turning the thumb knob and observing the digital indictor.
- Sample volume is easily locked with the "One-Touch" lock mechanism.
- The units are capable of sampling a wide volume range: 0.1 μℓ to 10 mℓ.
- The instrument is designed so that as it is warmed by your hand, precision is minimally affected.
- PTFE (flouroplastic) seals are used to seal the piston which enables the pipette to withstand long periods of operation while maintaining accuracy and reproducibility.
- Organic solvents can be pipetted with this instrument if the "O-Ring for Organic Solvents" (Optional) is installed.
- The tip can be removed without touching it with your hands because of the tip ejection mechanism. The tip ejector mechanism is plastic which greatly reduces the chance of breaking glass test tubes or other glass labware.

** CAUTIONS **

Please read and follow the following safety precautions for using your *BenchMate II*™ properly and safely.

If the operator uses the ***BenchMate II***™ improperly, failing to observe the following instruction, injury to the user or other personnel may occur as well as damage to the instrument.

1) Do not use the instrument for any other purpose then pipetting/fractionalizing liquid.
2) Do not modify this unit in any way.
3) Handle filter replacement tool with care since it is sharp.
4) Do not use this pipette for injecting any liquid into a human.
5) Never dispense fluid in the direction of another person.
6) Never eject the tip in the direction of another person.
7) Do not eject the tip while liquid remains inside.
8) Handle the unit carefully when the tip is attached since some tips have sharp points.
9) Be sure the tip is attached firmly to the pipette or it may fall off into the sample fluid and splash the fluid.
10) If the instrument is contaminated with a substance that is harmful to the human body, clean it thoroughly before proceeding with any further operation.
11) Do not touch the tip when handling any liquid that is harmful to the human body.
12) Do not use the instrument for stirring.
13) For the ***BenchMate II***™ 10 μℓ Model, the piston extends beyond the barrel when the thumb knob is fully depressed. Therefore, do not block the barrel with your finger or any object.
14) After autoclaving, the pipette will be extremely hot. Use caution when handling the unit after autoclaving. Failure to do so may result in severe burn.
15) When pipetting Organic Solvents, be sure to use the "O-Ring for Organic Solvents" (Optional).

** RULES FOR OPERATION **

Users are required to follow the instructions listed below in order to maintain the *BenchMate II*'s™ precision and reproducibility.

1) Do not expose this instrument to sunlight 2 hours prior to use or during use. Precision may be affected. Avoid using the instrument in hot or humid areas.
2) Prior to starting work, avoid touching the barrel and tip with hands as warming could effect precision.
3) For Fractional Pipetting, follow the method explained in this manual. Otherwise, inaccuracies may occur.
4) Operate the thumb knob with a slow, smooth motion. Quick depression and release will not only result in inaccuracy, but will also damage the unit as the sample fluid will be drawn up into the instrument. To prevent malfunction, inaccuracy and contamination, a filter is attached to the ***BenchMate II***™ 1000 µℓ, 5000 µℓ and 10 mℓ.
5) Do not use a tip more than once. Using a tip more than once will cause inaccuracy and cross contamination.
6) Do not hold the instrument horizontally or up side down when liquid is in the tip. This will cause fluid to enter the barrel and contaminate or destroy the pipette.
7) After autoclaving and drying, be sure to let the pipette cool to ambient temperature before the next use.
8) After autoclaving and drying, allow all components to return to ambient temperature before re-assembling. Assembling components while they are still hot will damage the unit.
9) When turning the Thumb knob to adjust the sample volume, DO NOT turn it above the maximum sample volume or below the minimum sample volume as this will damage the instrument.
10) Do not attempt to pipette with less liquid than the set volume. If the volume of liquid is less than the set volume, it will cause liquid to spray into the barrel and damage the unit.
11) Use only Oxford brand tips. Accuracy may be affected if other tips are used.

OPERATING INSTRUCTIONS:

1. Volume Adjustment

1) Turn the lock lever counter-clockwise to loosen. (Fig. A)
2) Turn the thumb knob to set the digital counter to the desired volume. To increase the volume, turn the thumb knob counter- clockwise. To decrease the volume, turn the thumb knob clockwise. Align the number in the digital counter with the RED ARROW at the lower end of the counter. (Fig. B)
3) After setting the desired volume, lock the volume by turning the lock lever clockwise. (Fig. A).

•**NOTE: Do not exceed the instruments minimum or maximum volume range. This could damage the unit or reduce its accuracy.**

2. Extracting (Aspirating) Liquid

1) Attach a disposable tip to the barrel. It is recommended to attach the tip from a tip rack, rather than by manual insertion.
2) Press the thumb knob down from point "A" to point "B" (Fig. C)
3) While depressing the thumb knob, immerse the tip approximately 3mm into the liquid to be extracted. (Fig. D-1)
4) With the tip immersed in the liquid, allow the thumb knob to return to point "A" with a slow, gentle and smooth motion. Once the thumb knob has completely returned, keep the tip immersed in the liquid for approximately 1 second to be sure that the liquid has been completely drawn into the tip. (Fig. D-2)
5) Gently extract the instrument from the liquid so there are no drops of liquid left on the end of the tip.

•**NOTE: Do not extract liquid with the thumb knob depressed at point "C" (Fig. D-3).**

•**NOTE: Be sure to operate the thumb knob with a smooth and gentle motion. Rapidly releasing the thumb knob may cause fluid to be drawn into the main body of the pipette which will contaminate and damage the instrument.**

3. Dispensing Liquid

1) Gently place the tip on the inner wall of a proper vessel.
2) Gently press the thumb knob down from point "A" to point "B". One second later, press the thumb knob down again from point "B" to point "C" (Fig. D-4, D-5) to discharge all the fluid.

4. Tip Ejection

1) When you have completed the pipette operation or series of pipettes, eject the tip by pressing the tip ejection button. Properly dispose of the tip.

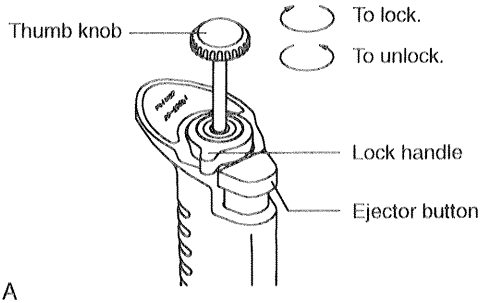


Fig. A

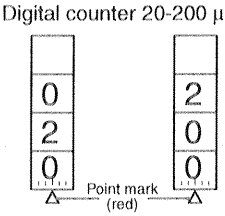


Fig. B

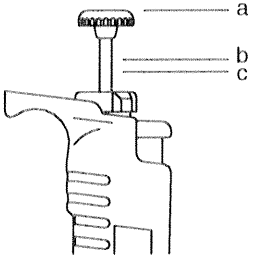


Fig. C

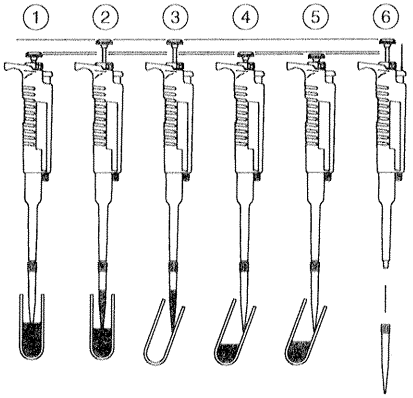


Fig. D

DISASSEMBLING / REASSEMBLING :

If issues occur as described in the "Troubleshooting" section of this manual, disassemble the instrument according to the following procedure and inspect components.

1. Disassembling

1) Remove the ejector shaft screw bolt.

- 2 μℓ ~ 200 μℓ : Figure E-1
  Turn the ejector shaft screw bolt in the direction of the arrow to remove it, then pull out the ejector shaft in the direction of the arrow.
- 5000 μℓ : Figure E-2
  Remove the three (3) ejector shaft screws with a Philips head screw driver, then pull out the ejector shaft in the direction of the arrow.
- 10 mℓ : Figure E-3
  Remove the ejector shaft screw with a Philips head screw driver, then pull out the ejector shaft in the direction of the arrow.

2) Turn the barrel counter-clockwise to remove it.

- **NOTE: When removing the barrel, take care with the internal parts as some of them will occasionally spring out of the body (2 μℓ to 1000 μℓ models).**

3) Remove internal parts one after another.

- 2 μℓ ~1000 μℓ : Figure F
  Remove the plunger, first spring, first spring holder, o- ring and seal ring from the barrel.

- **NOTE: The shape of the first spring holder differs depending on the capacity of the instrument.**

- For 20 μℓ model, remove the flouroplastic (PTFE) spacer inside.
- 5000 μℓ , 10 mℓ : Figure H and Figure I
  Remove the o-ring and seal ring from the barrel.

- **NOTE: Be careful not to lose small parts during disassembly.**

2. Reassembling:

1) Reassemble the barrel.

- 2 μℓ ~ 1000 μℓ : Figure F
  Set the first spring on the plunger. Next, set the first spring holder, seal ring and o-ring in this order. Finally, insert the assembled plunger into the barrel and screw it clockwise into the body.
- 5000 μℓ ~10 mℓ : Figure H and Figure I:
  Set the seal ring and o-ring on the plunger in this order. Insert the assembled plunger onto the barrel, taking care the o-ring does not come off the center. After insertion, screw the barrel clockwise into the body.

- **NOTE: When reassembling, be sure not to assemble the seal-ring and o-ring in the wrong order. Doing so will cause the instrument to leak, cause inaccuracy and cause failure with extracting (aspirating) fluid.**

2) Fit the ejector shaft into the body

- 2 μℓ ~ 1000 μℓ : Figure F
  While pressing the ejector button down, so the metal shaft sticks out from the center of the body, insert the ejector shaft into the body and fasten it with the screw bolt.
- 5000 μℓ ~ 10 mℓ : Figure H and Figure I
  While pressing the ejector button down, insert the ejector shaft into the body so that its mounting hole meets the threaded hole on the metal shaft and fasten the ejector shaft with the screws.

• **NOTE: After reassembling, perform a trial operation several times to be sure the instrument is function properly.**

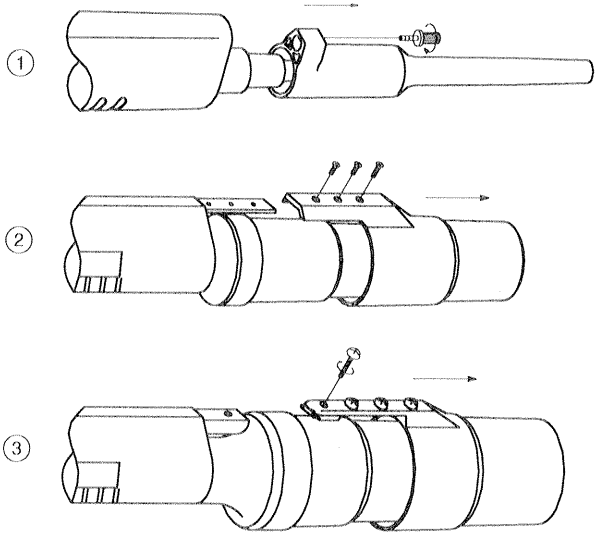


Fig. E

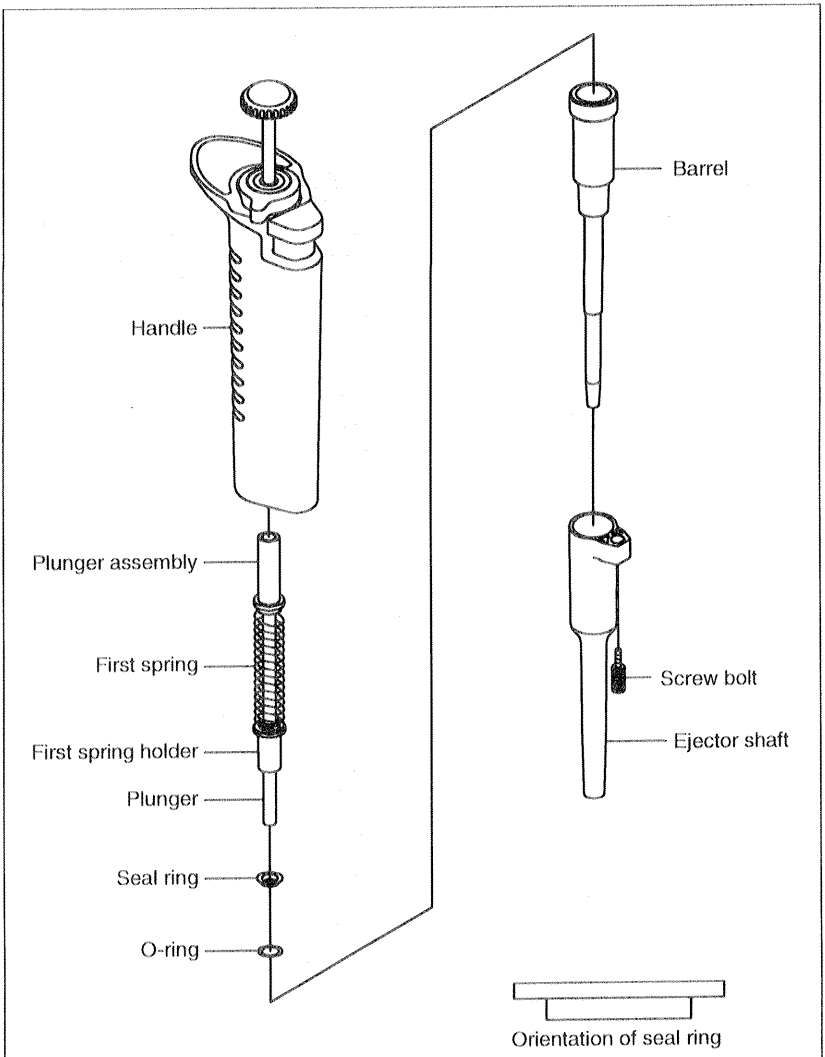

Barrel
Handle
Plunger assembly
First spring
First spring holder
Plunger
Seal ring
O-ring
Screw bolt
Ejector shaft
Orientation of seal ring

Fig. F

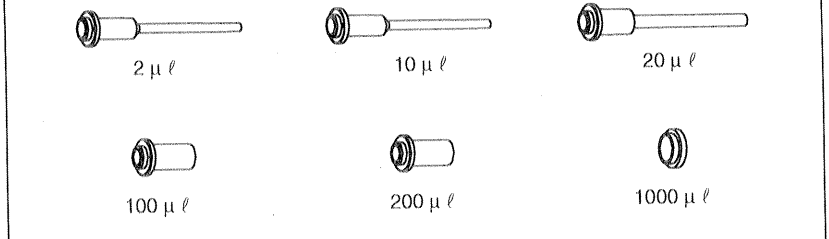

2 µ ℓ
10 µ ℓ
20 µ ℓ
100 µ ℓ
200 µ ℓ
1000 µ ℓ

Fig. G

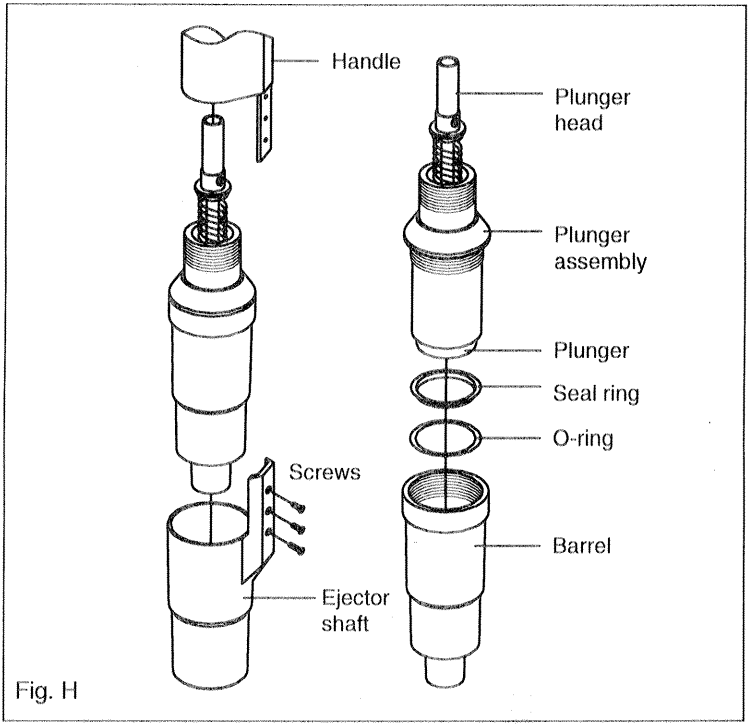

Handle
Plunger head
Plunger assembly
Plunger
Seal ring
O-ring
Screws
Barrel
Ejector shaft

Fig. H

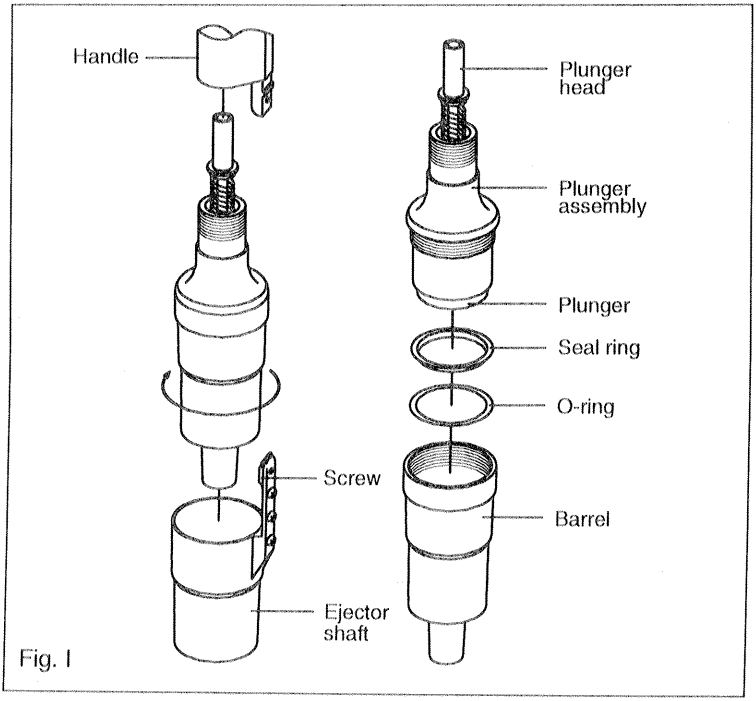

Handle
Plunger head
Plunger assembly
Plunger
Seal ring
O-ring
Screw
Barrel
Ejector shaft

Fig. I

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Autoclavable *UV Stable*

BenchMate II

Continuously Adjustable Pipette

Recalibration procedure

1. Loosen the lock lever.
2. Depress the tip ejector knob fully. (Fig. K)
3. Loosen the lock lever by turning it counter-clockwise and stop when the oval opening under the lever faces over the tip ejector knob. (Fig. K)
4. Rotate the thumb knob until one of two hex head screws comes to the top of oval opening. (Fig. K)
5. Loosen both hex head screws with a hex head wrench (1.5 mm) by turning them counter-clockwise one by one. (Fig. K)
6. Keeping the hex head wrench inserted into one hex head screw, turn the thumb knob to calibrate the pipette. (Fig. L)
7. The pipetting volume can be adjusted by rotating the thumb knob clockwise to increase and counter-clockwise to decrease. Please refer to the volume correction table.

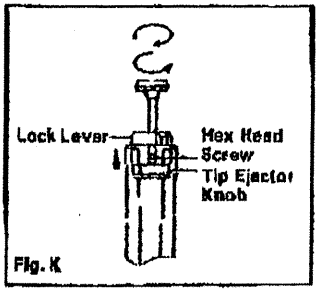

Fig. K

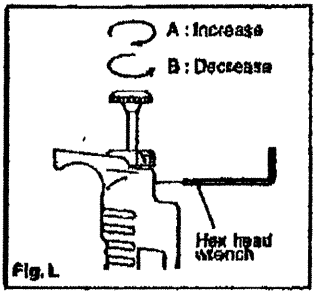

Fig. L

● Volume correction table

Catalog No.	Correction Value at Each Graduation	The Minimum Graduation
8885-501895	0.0013 ul	0.002 ul
8885-501903	0.0079 ul	0.01 ul
8885-501911	0.0128 ul	0.02 ul
8885-501929	0.0797 ul	0.1 ul
8885-501937	0.1269 ul	0.2 ul
8885-501945	0.7952 ul	1.0 ul
8885-501952	7.9960 ul	10.0 ul
8885-501960	8.0359 ul	10.0 ul

8. Tighten the both hex head screws after adjusting the thumb knob and measure the accuracy of the pipette.
9. Repeat the above procedures until the pipette is calibrated within the specified accuracy. An accuracy test should be made at the specified minimum and maximum volume of each pipette.

Filter replacement procedure

1000 μℓ : Fig. J-①, ②

① Insert the tips of the filter replacing tweezers into the two notches on the sides of the filter, and pull the filter in the direction of the arrow.

② Set the projection of a new filter in the internal groove of the nozzle, and then press the filter into the Barrel.

5000 μℓ , 10 mℓ : Fig. J-③, ④

③ Insert the filter removal tool into the filter and pull in the direction of the arrow.

④ Insert a new filter into the Barrel.

⚠ **Don't touch a filter that is contaminated with liquid harmful to humans.**

⚠ **The filter removal tool used for the 5000ul and 10ml pipette is dangerous because of its sharpened tip.**

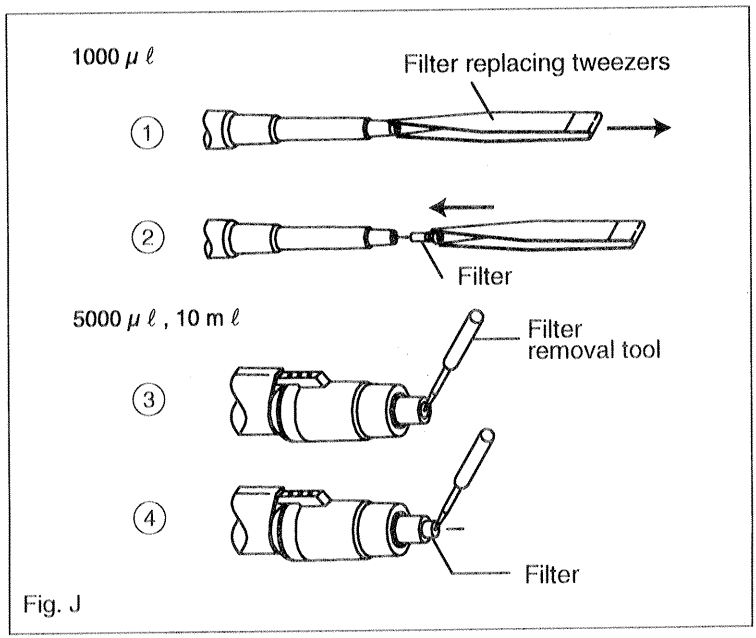

Fig. J

Autoclaving instrument

This instrument is autoclavable. When autoclaving, carry it out at 121 °C for 20 minutes following the procedure mentioned below.

① For the 1000 μℓ , 5000 μℓ and 10 mℓ types, remove the filter referring to the "Filter replacement procedure" above.

② Release the lock handle from the locked position and set the counter graduation to the allowable limit of the liquid volume.

③ After autoclaving is complete, dry the instrument completely.

Drying the instrument

Dry the instrument immediately after autoclaving is complete. It is necessary to dry the instrument with a constant temperature air-drier at 60 °C for 60 minutes or longer.

① Pull out the ejector shaft referring to "Disassembling" on page 6.
② Turn the barrel counterclockwise by two and a half turns to loosen it.
③ Put the instrument in a constant temperature air-drier for drying.
④ After the instrument is dry, wait until it returns to room temperature and then fasten the barrel cylinder and reassemble the ejector shaft into the body.

Note: If the instrument is reassembled when it is still warm, it may cause breakdown or deterioration of the instrument such as breakage of the screw threads, etc. Be sure to reassemble the instrument after it has completely cooled down. If the instrument is used when it is warm, accurate liquid handling can not be carried out.

Note: Don't touch the instrument directly with your hands just after it is dry, because it will have gotten very hot during drying. Directly touching the hot instrument may cause injury.

Catalog No.	Variable capacity (μℓ)	Liquid volume (μℓ)	Accuracy (%)	Reproducibility (%)
8885-501895	0.1 ~ 2	0.1	*	*
		2	±3.0	<1.0
8885-501903	0.5 ~ 10	0.5	*	*
		10	±1.0	<0.5
8885-501911	2 ~ 20	2	±5.0	<3.0
		20	±1.0	<0.4
8885-501929	10 ~ 100	10	±2.0	<1.0
		100	±0.8	<0.3
8885-501937	20 ~ 200	20	±1.0	<0.5
		200	±0.8	<0.2
8885-501945	100 ~ 1000	100	±1.0	<0.5
		1000	±0.7	<0.2
8885-501952	1000 ~ 5000	1000	±1.0	<0.3
		5000	±0.6	<0.2
8885-501960	1000 ~ 10000	1000	±2.0	<0.4
		10000	±0.4	<0.2

* When the liquid volume in the ***BenchMate II***-2 is 0.2 μℓ or less, its accuracy and reproducibility are greatly affected by the operator's sampling skill.

* When the liquid volume in the ***BenchMate II***-10 is below 1.0 μℓ, its accuracy and reproducibility are greatly affected by the operator's sampling skill.

Troubleshooting

Symptom	Possible cause	Remedy
The tip cannot be ejected.	The Barrel has come loose.	Try to screw the Barrel firmly into the body again.
The instrument fails to extract liquid.	The filter has soaked up liquid (1000 μ ℓ or more).	Replace the filter with a new one (supplied as a standard accessory or purchase an optional filter set for replacement).
	The O-ring and seal ring are assembled in the wrong order.	Reset the O-ring and seal ring set according to the instructions in "Disassembling / reassembling".
	The O-ring or/and seal ring set are worn.	Purchase an optional O-ring and seal ring set for replacement.
Extracted liquid leaks from the tip.	The Barrel has come loose.	Screw the Barrel firmly into the body again.
	The Barrel is worn (stepped wear can be checked by eye).	Purchase an optional barrel for replacement.
	The plunger is damaged or rusty, the O-ring and seal ring set is worn.	Purchase a replacement O-ring, seal ring set and plunger assembly.
	The tip is loosely attached.	Try to attach the tip to the Barrel tightly again.
The thumb knob operates poorly.	Liquid has been drawn into the main body.	If the push button does not work well just after extracting liquid or it is just sticking to the body, disassemble the instrument and wash / clean every part (or wipe down every part with a soft cloth). If there are some parts getting rusty or corroded inside the body, replace the parts with new ones by purchasing optional replacement parts.

If there is still something wrong with the instrument after checking the above- mentioned, immediately stop using the instrument and ask us or our agent to repair it.
Before bringing the instrument for repair, be sure to check whether it has been polluted with microbes or matter harmful to humans.

Inspection and Calibration Statement

The enclosed pipette was tested and calibrated under closely controlled environmental conditions to ensure that it meets published calibration specifications. The precision and accuracy results obtained for this pipette are provided on the enclosed calibration certificate.

Because temperature and humidity conditions affect the calibration results of liquid measurement divices, your pipette should be calibrated under conditions of use. The calibration results obtained in your laboratory may vary from our results due to differences in environmental testing conditions.

Manufactured for

OXFORD®
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RECOMMENDED OXFORD BRAND PIPETTE TIPS

Catalog No.8885-	Volumes	Tip color	Packing Description
117492	0.1 ~ 10 µ ℓ	Natural	1000 bulk - low retention
117468	0.1 ~ 10 µ ℓ	Natural	+960 in 10 racks of 96 - low retention
119464	0.5 ~ 10 µ ℓ	Natural	1000 bulk
119456	0.5 ~ 10 µ ℓ	Natural	+960 in 10 racks of 96
119126	1 ~ 200 µ ℓ	Yellow	1000 bulk
119134	1 ~ 200 µ ℓ	Yellow	+960 in 10 hinged racks of 96
119506	1 ~ 200 µ ℓ	Yellow	+960 in 10 racked inserts of 96
119266	1 ~ 200 µ ℓ	Yellow	+960 Sterile in 10 hinged racks of 96
119282	1 ~ 200 µ ℓ	Natural	+960 Pyrogen Free/Trace Metal certified in 10 hinged racks of 96
118037	1 ~ 200 µ ℓ	Natural	+960 calibrated in 10 hinged racks of 96
118706	1 ~ 200 µ ℓ	Natural	1000 calibrated bulk
119530	1 ~ 200 µ ℓ	Yellow	+960 Large Orifice in 10 hinged racks of 96
119522	1 ~ 200 µ ℓ	Yellow	1000 Large Orifice bulk
119142	201 ~ 1000 µ ℓ	Blue	1000 bulk
119159	201 ~ 1000 µ ℓ	Blue	1000 in 10 hinged racksof 100
119274	201 ~ 1000 µ ℓ	Blue	1000 Sterile in 10 hinged racks of 100
119290	201 ~ 1000 µ ℓ	Natural	1000 Pyrogen Free/Trace Metal certified in 10 hinged racks of 100
091408	1 ~ 5 m ℓ	Natural	250 bulk
081508	1 ~ 10 m ℓ	Blue	250 bulk

+ 8 x 12 Tip configuration for multi-channel pipetting.

REPLACEMENT PARTS FOR THE BENCHMATE II

Catalog No.	Description	Size	Q'ty
8885-501134	Plunger Assembly Set	2 µℓ	1
8885-501136	Plunger Assembly Set	10 µℓ	1
8885-501138	Plunger Assembly Set	20 µℓ	1
8885-501140	Plunger Assembly Set	100 µℓ	1
8885-501142	Plunger Assembly Set	200 µℓ	1
8885-501144	Plunger Assembly Set	1000 µℓ	1
8885-501146	Plunger Assembly Set	5000 µℓ	1
8885-501148	Plunger Assembly Set	10 mℓ	1
8885-501133	First Spring	2 µℓ	1
8885-501208	First Spring	10 µℓ	1
8885-501216	First Spring	20 µℓ	1
8885-501224	First Spring	100 µℓ	1
8885-501232	First Spring	200 µℓ	1
8885-501240	First Spring	1000 µℓ	1
8885-501257	First Spring	5000 µℓ	1
8885-501265	First Spring	10 mℓ	1
8885-501358	First Spring Holder	2 µℓ	1
8885-501360	First Spring Holder	10 µℓ	1
8885-501362	First Spring Holder	20 µℓ	1
8885-501364	First Spring Holder	100 µℓ	1
8885-501366	First Spring Holder	200 µℓ	1
8885-501368	First Spring Holder	1000 µℓ	1
8885-501356	First Spring and Plunger Holder with two screws	5000 µℓ/10 mℓ	1
8885-502402	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	2 µℓ	1
8885-502406	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	10 µℓ	1
8885-502414	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	20 µℓ	1
8885-502422	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	100 µℓ	1
8885-502430	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	200 µℓ	1
8885-502448	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	1000 µℓ	1
8885-502505	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	5000 µℓ	1
8885-502520	Teflon Seal/KPF Par-Fluo O-Ring Set (Organic Solvent)	10 mℓ	1
8885-504204	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	2 µℓ	1
8885-504206	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	10 µℓ	1
8885-504208	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	20 µℓ	1
8885-504209	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	100 µℓ	1
8885-504212	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	200 µℓ	1
8885-504214	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	1000 µℓ	1
8885-504216	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	5000 µℓ	1
8885-504218	Teflon Seal/Rubber Viton O-Ring Set (Non-Organic Solvent)	10 mℓ	1

Catalog No.	Description	Size	Q'ty
8885-504220	Barrel	2 µℓ	1
8885-504222	Barrel	10µℓ	1
8885-504224	Barrel	20 µℓ	1
8885-504226	Barrel	100 µℓ	1
8885-504229	Barrel	200 µℓ	1
8885-504231	Barrel	1000 µℓ	1
8885-504233	Barrel	5000 µℓ	1
8885-504235	Barrel	10 mℓ	1
8885-501604	Barrel Filters	1000 µℓ	10
8885-501612	Barrel Filters	5000 µℓ	100
8885-501620	Barrel Filters	10 mℓ	100
8885-504238	Handle and Barrel Connector	5000 µℓ	1
8885-504240	Handle and Barrel Connector	10 mℓ	1
8885-501802	Tip Ejector Screw Bolt w/Washer and Spring	2 µℓ ~ 1000 µℓ	1
8885-501828	Tip Ejector Screws (M2 x L3 x 3)	5000 µℓ	3
8885-501836	Tip Ejector Screw (S x 3/L x 1)	10 mℓ	1
8885-504303	Tip Ejector Shaft	2 µℓ	1
8885-504306	Tip Ejector Shaft	10 µℓ	1
8885-504309	Tip Ejector Shaft	20 µℓ ~ 200 µℓ	1
8885-504312	Tip Ejector Shaft	1000 µℓ	1
8885-504315	Tip Ejector Shaft	5000 µℓ	1
8885-504318	Tip Ejector Shaft	10 mℓ	1
8885-504321	Ejector Button	2 µℓ ~ 10 mℓ	1
8885-504323	Ejector Spring Holder	2 µℓ ~ 10 mℓ	1
8885-504325	Ejector Spring Holder Screw	2 µℓ ~ 10 mℓ	1
8885-504328	Ejector Spring	2 µℓ ~ 10 mℓ	1
8885-504330	Ejector Connecting Plate A	2 µℓ ~ 1000 µℓ	1
8885-504332	Ejector Connecting Plate B	5000 µℓ	1
8885-504334	Ejector Connecting Plate C	10 mℓ	1
8885-504001	Thumb Knob Set, White (Cover, Knob & Screw)	2 µℓ /10 µℓ /10 mℓ	1
8885-504003	Thumb Knob Set, Yellow (Cover, Knob & Screw)	20µℓ /100µℓ /200µℓ	1
8885-504005	Thumb Knob Set, Blue (Cover, Knob & Screw)	1000 µℓ	1
8885-504007	Thumb Knob Set, Green (Cover, Knob & Screw)	5000 µℓ	1
8885-500151	6 position Rotary Pipette Stand	All	1

WARRANTY POLICY

Your new Oxford ***BenchMate II***™ is guaranteed for two (2) years against defects in material and workmanship. This warranty becomes effective when the ultimate user receives the product and returns the warranty card. Any defects in the pipette will be replaced or repaired (at our option) and defective parts will be replaced without cost within the two (2) year period, provided the Oxford ***BenchMate II***™ has not been abused, altered contrary to instructions.

Should damage to the instrument occur due to improper use or improper maintenance (failure to provide reasonable and necessary maintenance), this warranty, written or implied, is void.

Manufactured in Japan for

OXFORD®
LABWARE

The KENDALL Company

A DIVISION OF TYCO HEALTHCARE GROUP LP

15 Hampshire Street
Mansfield, MA 02048

NICHIRYO

For repair or service, please contact your local distributor :

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Memo