MLA pipette

Seal Replacement Instructions

Introduction

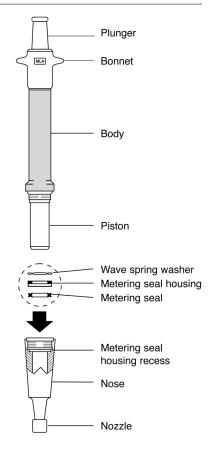
This document contains instructions for replacing seals on all MLA pipette models. Ensure you have the appropriate seal kit prior to beginning a replacement procedure.

Cat No.	Pipette Model	Cat No.	Pipette Model
9031 9032	D-Tipper or Precision, 5–30µL D-Tipper or Precision, 31–120µL	9075	Micro D-Tipper 2μL, 2 Stroke 1μL–3μL, Applicator 2μL–3μL
9033 9034 9035	D-Tipper or Precision, 121–200µL D-Tipper or Precision, 201–350µL D-Tipper or Precision, 351–1000µL	9076	Micro D-Tipper 3–4µL, 2 Stroke 4µL, Applicator 4µL
9033	D-Tipper Selectable 50/100/200µL	9077	Micro D-Tipper 5–10µL, Applicator 5–10µL
9091	Digital, 10–50µL	9093	Macro 1–5mL, Macro Selectable 2/3/4/5
9092 9094	Digital, 50–200µL Digital, 200–1000µL	9095	Macro 6–10mL

Note: Each seal kit contains pre-lubricated seal(s) for maintenance of one pipette. If additional lubricant is desired, order Cat No. 9030.

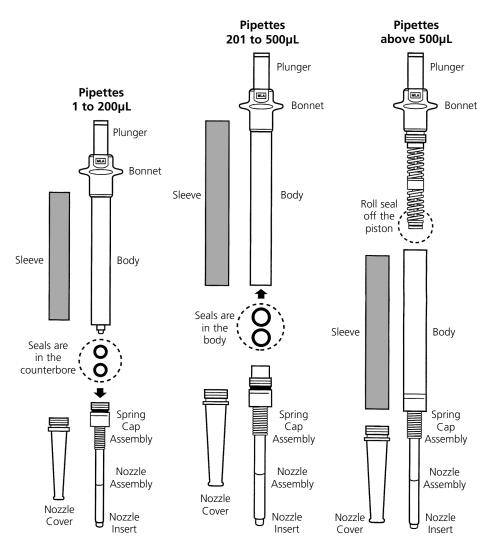
Replacement Procedure for 1-5mL Macro and Macro 2/3/4/5 Selectable Models:

- 1. Unscrew the nose from the body of the pipette.
- 2. Remove wave washer, metering seal housing and seal from inside of nose.
- 3. Remove seal from lower side of housing.
- 4. Install new pre-lubricated seal into housing.
- Press down on plunger to expose inner plunger. Insert inner plunger into seal bag to coat and lubricate it. If applicable, do not plunge air inlet hole.
- 6. Reassemble the pipette and exercise the plunger several times.
- 7. Verify pipette performance.



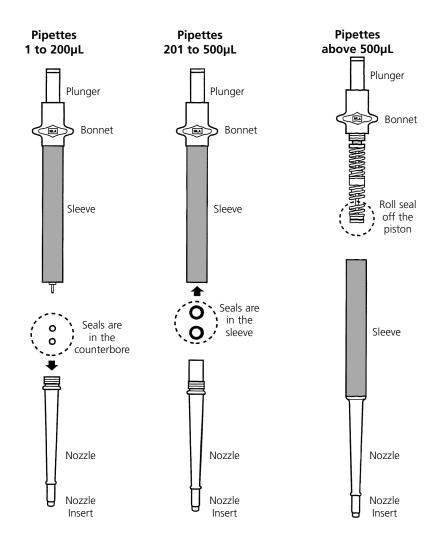
Procedure for D-Tipper, Micro D-Tipper, 2 Stroke, Digital & Applicator Models:

- 1. Locate your pipette in the appropriate diagram below.
- 2. Hold the pipette around the sleeve and with other hand, pull the nozzle cover away from the sleeve to expose the spring cap assembly.
- 3. While holding the exposed spring cap with thumb and forefinger, unscrew the nozzle cover. Remove the cover and sleeve.
- 4. Unscrew the pipette body from the spring cap assembly as indicated in the appropriate diagram.
- 5. Locate seals in pipette and remove.
- 6. Install new, pre-lubricated seals.
- 7. Press down on plunger to expose inner plunger. Insert inner plunger into seal bag to coat and lubricate it
- 8. Reassemble the pipette, exercise the plunger several times, and verify pipette performance.



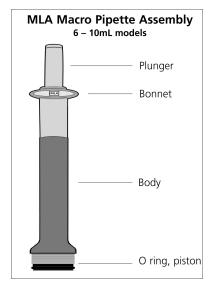
Procedure for Precision Models:

- 1. Locate your pipette in the appropriate diagram below.
- 2. Unscrew nozzle from body of pipette.
- 3. Locate seals in pipette and remove.
- 4. Install new, pre-lubricated seals.
- 5. Press down on plunger to expose inner plunger. Insert inner plunger into seal bag to coat and lubricate it
- 6. Reassemble the pipette, exercise the plunger several times.
- 7. Verify pipette performance.



Replacement Procedure for 6-10mL Macro Models:

- 1. Unscrew the nose from the body of the pipette.
- 2. Remove the O ring from the edge of the piston.
- 3. Place a new O ring onto the edge of the piston. Use finger tip to apply a small amount of the seal lubricant (Cat # 9030) to the O ring and the edges of the piston.
- 4. Install new pre-lubricated seal into housing.
- 5. Carefully insert the body into the nose and screw together to a firm stop.
- 6. Verify pipette performance.



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