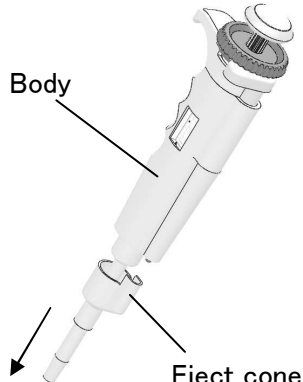
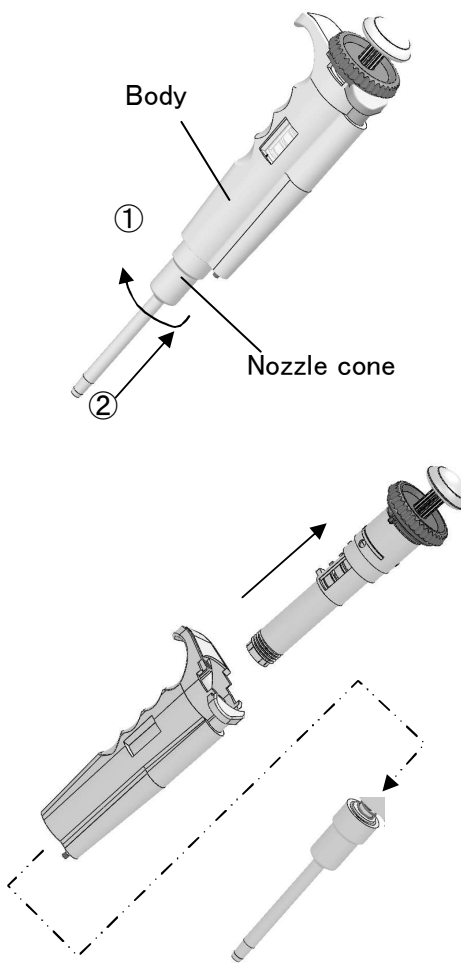
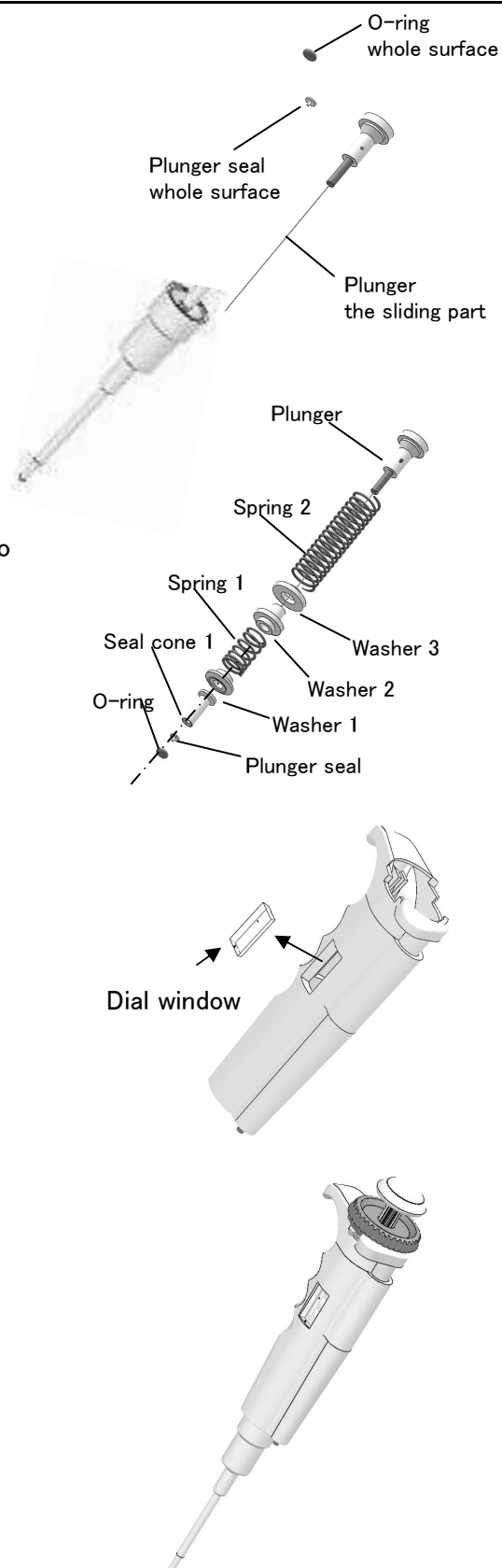


Manual		Reg. No.	SY-029017-N	Approval	Confirmation	Author
		Product	NEXTY Pipetter N1-2, N1-10, N1-20			
Process	Maintenance	Name	Maintenance • Calibration Manual			
Process		Point • Method • Diagram • etc.				
1 Remove eject cone		<p>• Fix body and pull eject cone toward the arrowed direction.</p> <p>*It is easier to remove while keeping eject button being pushed down.</p> 				
2 Remove nozzle cone and inner body		<p>① Loosen the nozzle cone by 1.5 rotations.</p> <p>② Fix the body and push the nozzle cone in the arrowed directions.</p> <p>- This unfixes and lifts up the inner body.</p> <p>- Then, loosen the nozzle cone completely and take it out.</p> <p>- Pull up the inner body.</p> <p>*Pay attention so that other parts do not fall apart.</p> 				

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		Product	NEXTY Pipetter
Process	Maintenance	Name	NT-2, NT-10, NT-20 Maintenance • Calibration Manual
Process		Point • Method • Diagram • etc.	
3	Cleaning	<ul style="list-style-type: none"> <li>• Wipe up the inside of the nozzle cone and all the other parts with clean cloth.</li> </ul>	
4	Grease up	<ul style="list-style-type: none"> <li>• Spread small amount of special grease on whole surface of O-ring, plunger seal and the sliding part of plunger.</li> <li>• Special grease Toray Dow Corning HP-300 (Silicone grease)</li> <li>* Pay attention so that dusts do not stick while greasing.</li> </ul>	
5	Assemble the nozzle unit	<ul style="list-style-type: none"> <li>• Reassemble parts in reverse process to disassemble the unit.</li> <li>* Nozzle cone torque is 1.3N•m</li> </ul>	
6	Remove the dial window	<ul style="list-style-type: none"> <li>• Push dial window off from inside body.</li> </ul>	
7	Assemble except for the dial window	<ul style="list-style-type: none"> <li>• Insert the inner unit along the positioning guide.</li> <li>• Fit the nozzle unit.</li> <li>• Fit the eject cone.</li> </ul>	



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Process	Maintenance	Name	NT-2, NT-10, NT-20 Maintenance • Calibration Manual
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8 Calibration	<ul style="list-style-type: none"> <li>• Keep the pipettors in a room under controlled temperature and humidity before calibration.</li> <li>• Unlock the lock lever.</li> <li>• Pipette distilled water with the volume dial set at the center of the minimum volume in the specification and then measure the pipetted volume.</li> <li>• Adjust the dial so as to match the measured volume by rotating a screwdriver inserted beneath the dial.</li> </ul> <p>*Unlock the lock lever when you adjust the dial and lock it when you pipette. (Recommended head width of the screwdriver is 2.8mm)</p>		
9 Precision test	<ul style="list-style-type: none"> <li>• Test the precision after calibration by inputting data on an inspection report.</li> </ul>		
10 Precision standard	<p>2 <math>\mu</math>l / Accuracy: <math>\pm 2.5\%</math> 1.95~2.05 <math>\mu</math>l Precision: CV 1.0%  0.2 <math>\mu</math>l / Accuracy: <math>\pm 15\%</math> 0.197~0.23 <math>\mu</math>l Precision: CV 8.0%</p> <p>10 <math>\mu</math>l / Accuracy: <math>\pm 1.0\%</math> 9.9~10.1 <math>\mu</math>l Precision: CV 0.5%  1 <math>\mu</math>l / Accuracy: <math>\pm 5.0\%</math> 0.95~1.05 <math>\mu</math>l Precision: CV 2.5%</p> <p>20 <math>\mu</math>l / Accuracy: <math>\pm 1.0\%</math> 19.8~20.2 <math>\mu</math>l Precision: CV 0.5%  2 <math>\mu</math>l / Accuracy: <math>\pm 6.0\%</math> 0.08~0.32 <math>\mu</math>l Precision: CV 3.0%</p>		
11 Put the dial window	<p>Check the direction of the dial window and push it back onto the body.</p>		

