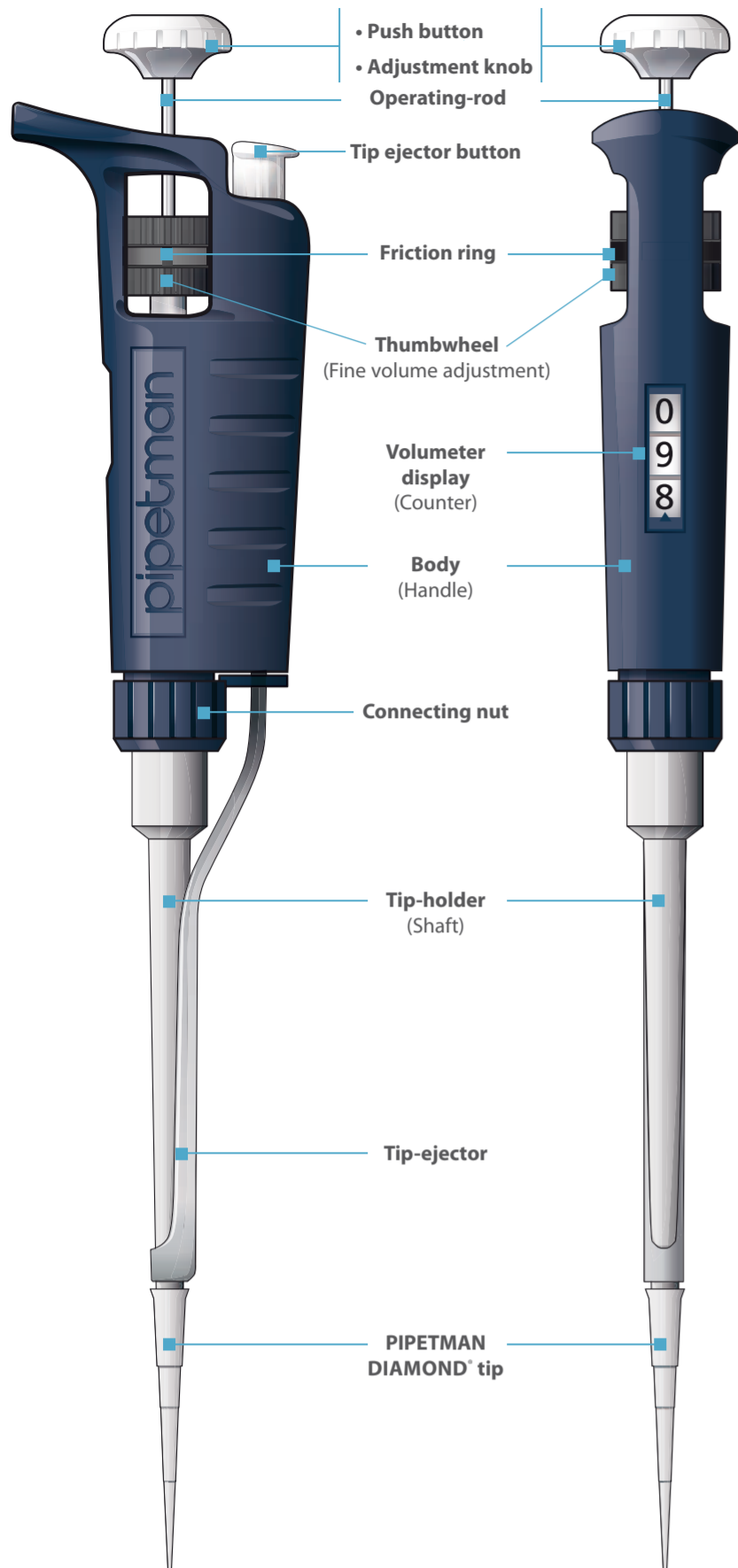




pipetman®

The World Pipetting Standard!

Two Minute Inspection



1 STEP 1 Check the Records

- ▶ Use the serial number to identify the pipette and to determine its age
- ▶ Check laboratory records for the date of last servicing



Letter	Year	Letter	Month
A	1984 / 2006	A	January
B	1985 / 2007	B	February
C	1986 / 2008	C	March
D	1987 / 2009	D	April
E	1988 / 2010	E	May
G	1989 / 2011	G	June
H	1990 / 2012	H	July
J	1991 / 2013	J	August
K	1992 / 2014	K	September
L	1993 / 2015	L	October
M	1994 / 2016	M	November
N	1995 / 2017	N	December
P	1996 / 2018		
Q	1997 / 2019		
R	1998 / 2020		
S	1999 / 2021		
T	2000 / 2022		
U	2001 / 2023		
W	2002 / 2024		
X	2003 / 2025		
Y	2004 / 2026		
Z	2005 / 2027		

Before 1984			
G	80	12345	
Month	Year	Production number	

Jan. 1984 - Dec. 2005			
G	10369	H	
Year	Production number	Month	

After January 2006			
A	A	50001	
Year	Month	Production number	

2 STEP 2 General Appearance

Checked point	Possible causes
Operating-rod - bent ? - corroded ?	<ul style="list-style-type: none"> • Dropped • Lengthy immersion in corrosive liquid for decontamination • Lengthy exposure to corrosive vapors
Volumeter - dial alignment ? - clarity of numbers ?	<ul style="list-style-type: none"> • Autoclaving changed the appearance and function (the body must not be autoclaved)
Tip-ejector - corroded ? - broken ?	<ul style="list-style-type: none"> • Lengthy immersion in corrosive liquid for decontamination • Lengthy exposure to corrosive vapors
Tip-holder - physical or chemical damage ?	<ul style="list-style-type: none"> • Repeated blows • Lengthy immersion in corrosive liquid for decontamination • Lengthy exposure to corrosive vapors

3 STEP 3 Check Functions

Procedure	Possible causes
Large volume adjustment 1 Set volume at maximum (i.e. nominal volume) assessing the movement of the friction ring 2 Activate the push-button to test movement during aspirate and dispense strokes	<ul style="list-style-type: none"> • Irregular movement hitching, due to damage to the friction ring • No displacement bent operating rod • Jerky movement corroded, dirty or scratched piston
Volumeter adjustment 1 Go through the entire range. The settings should correspond to the pipette's useful volume range (minimum to nominal volume)	<ul style="list-style-type: none"> • No adjustment autoclaving • Incorrect volume setting Misindexing; pipette adjustment screw has been incorrectly reassembled
Tip-ejection system 1 Fit tip and depress tip-ejector button 2 Observe function of tip-ejector 3 Disassemble tip-ejector	<ul style="list-style-type: none"> • No movement broken return spring • Improper fit not tight enough • Can't disassemble corrosion

4 STEP 4 Leak Test

Procedure	Possible causes
1 Fit PIPETMAN DIAMOND® tip 2 Set volume at maximum (i.e. nominal volume) 3 Pre-rinse by aspirating and dispensing water, several times 4 Aspirate water 5 Hold the pipette in the vertical position for 20 seconds 6 For P2 to P200, re-immers in the test liquid; fluid level in tip should remain constant 7 Observe if a drop or a leak appears at the orifice of the tip	<ul style="list-style-type: none"> • End of tip-holder may be scratched/damaged (mechanical or chemical) • Improper fit • Use of non-Gilson tips • Organic solvent, vapor pressure
Check these Tip-holder - leak ? Tip - leak ?	

5 STEP 5 Disassembly - Reassembly

Disassembly	Reassembly
1 Eject the tip 2 Pull the tip-ejector down 3 Unscrew the connecting nut 4 Separate the handle from the bottom part 5 Remove the piston from the tip-holder	To avoid losing or damaging fragile parts, reassemble the pipette immediately Be sure to respect the correct order of parts: the piston seal should always be positioned before the O-ring
Check these Piston surface corroded, scratched or damaged Piston Seal and O-ring damaged (mechanical damage or chemical attack)	Note: You should never disassemble the body (handle) of the pipette

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