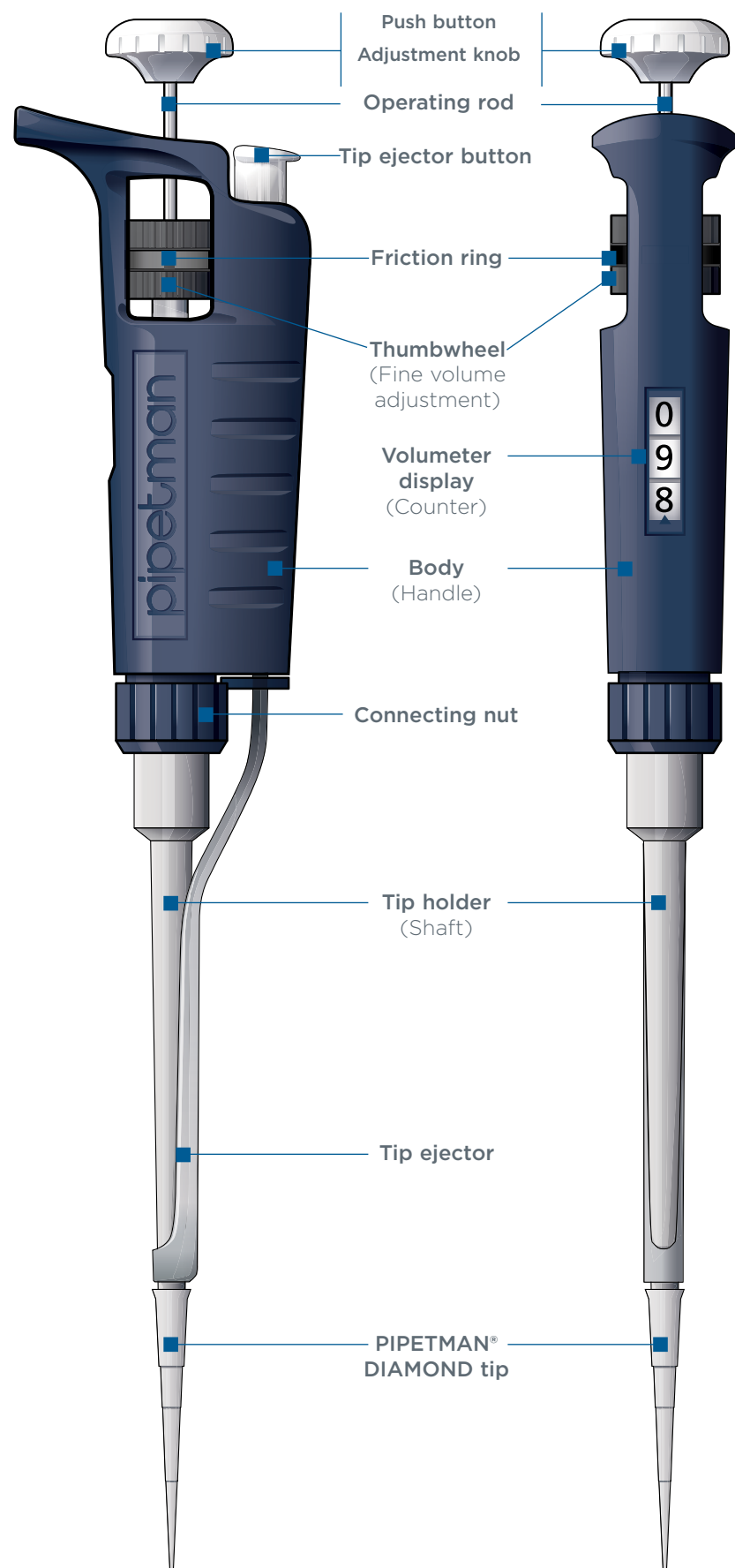




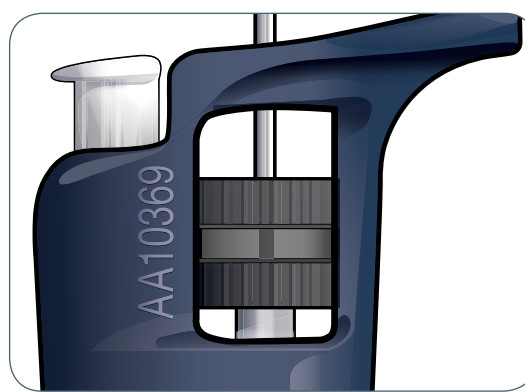
pipetman®

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 last service date



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	Before 1984 G 80 12345 Month Year Production number	
Q	1997 / 2019		
R	1998 / 2020	Jan. 1984 — Dec. 2005 G 10369 H Year Production number Month	
S	1999 / 2021		
T	2000 / 2022	After January 2006 A A 50001 Year Month Production number	
U	2001 / 2023		
W	2002 / 2024		
X	2003 / 2025		
Y	2004 / 2026		
Z	2005 / 2027		

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-immersion 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	<p>To avoid losing or damaging fragile parts, reassemble the pipette immediately</p> <p>Be sure to respect the correct order of parts: the piston seal should always be positioned before the O-ring</p>
Check these Piston surface corroded, scratched, or damaged Piston Seal and O-ring damaged (mechanical damage or chemical attack)	<p>Note: You should never disassemble the body (handle) of the pipette</p>

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