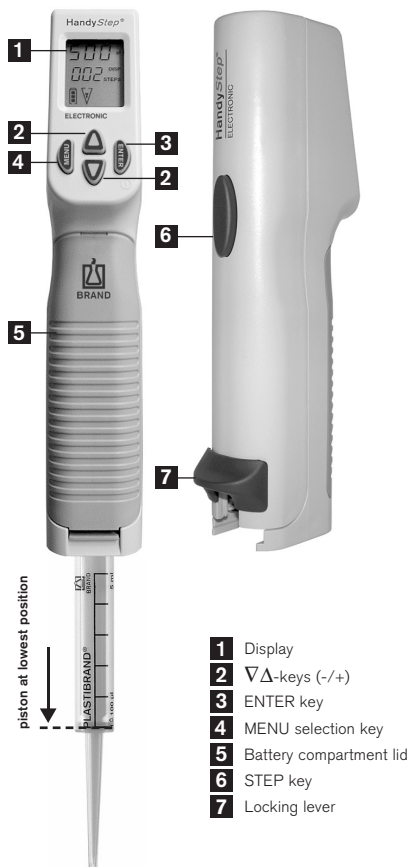


Short Instructions HandyStep® electronic¹

See reverse side for troubleshooting

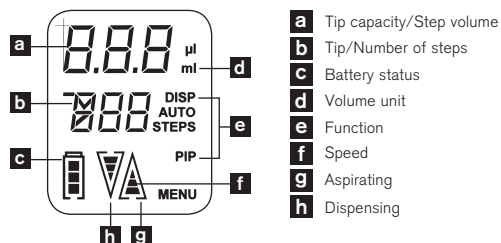
Operating elements



Note:

Please do not twist the tip inside the instrument.

Display



Mounting PD-Tip™ or other standard-sized syringe tip

1. Ensure locking lever is in fully upright position.
2. Slide tip in completely sideways.
3. Slide locking lever down completely.
4. If the display shows a flashing volume, the tip is not encoded for volume. Use $\blacktriangle/\blacktriangledown$ to scroll to the correct tip volume. Confirm tip volume by pressing ENTER.

Warning:

Never try to remove tip when piston is not completely lowered.

Removing tip from instrument

1. Press \blacktriangledown until **E** appears in the display.
2. Push the **STEP** key. Pipette should empty, and piston will be in fully lowered position.
3. Lift the locking lever and slide the tip out.

Navigating the menus:

HandyStep® electronic uses a two-tier menu system for easy navigation. To activate the second tier, press and hold the **ENTER** key for more than 3 seconds.

First Tier Menus

Adjusting volume

1. Press **MENU** once
2. Use $\blacktriangle/\blacktriangledown$ to adjust the desired volume
3. Press **ENTER** to confirm setting

Auto-dispensing mode

1. Press **MENU** twice
2. Use $\blacktriangle/\blacktriangledown$ to turn **AUTO-DISP** mode on or off
3. Press **ENTER** to confirm setting

Second Tier Menus

Selecting Aspiration Dispensing speed

1. Press and hold **MENU** for greater than 3 seconds
2. Use $\blacktriangle/\blacktriangledown$ to adjust aspiration speed
3. Press **ENTER** to confirm setting
4. Use $\blacktriangle/\blacktriangledown$ to adjust dispensing speed
5. Press **ENTER** to confirm setting

Selecting Pipetting/ Dispensing mode

1. Press and hold **MENU** for greater than three seconds. Release, then tap once.
2. Use $\blacktriangle/\blacktriangledown$ to select **PIP** or **DISP** mode.
3. Press **ENTER** to confirm.

¹ For quick reference only. Read Operating Manual completely before use. For more complete instructions, consult your Operating Manual.

Troubleshooting and Quick Reference for HandyStep® electronic



For comprehensive instructions, see Operating Manual

See other side for Short Instructions.

General Overview of Error Codes

Err Tip	Tip alignment error
Err 001	Tip insertion/removal error
Err 002	HandyStep® electronic motor under excessive strain
Err 003 and higher	Instrument electronic malfunction

Problem	Cause	Corrective action	How to prevent
Slow motor/ faint display	Low battery	Charge or change battery	—
Media drips from tip/ aspirates bubbles	Leaky tip	Change tip	—
Instrument displays Err Tip	Usually as a consequence of not clearing an Err 001 properly	1. Press ENTER key 2. Open locking lever 3. Remove tip 4. Close locking lever	Follow "How to clear Err 001" below
Instrument displays Err 001	Opening of locking lever when piston not in fully lowered position	1. Press ENTER key 2. Close locking lever 3. Push STEP key	Ensure piston is in lowest position before lifting locking lever
Instrument displays Err 002	Obstruction of tip orifice while aspirating or dis- pensing	1. Clear obstruction 2. Press ENTER key 3. Push STEP key	Keep tip orifice clear
Instrument displays Err 002 (cont.)	Media is too viscous		Reduce speed of instru- ment, or use less viscous media
Instrument displays Err 003 or higher	Software malfunction	1. Press ENTER key 2. Push STEP key 3. If error does not clear, remove battery, wait for about 10 sec., and replace	—
Instrument displays Err 003 or higher (cont.)	Hardware malfunction	—	If error does not clear call BrandTech Customer Service
Instrument displays ErrVol	▲ key pressed while dispensing	1. Press ENTER key 2. Push STEP key	Don't press ▲ while dispensing
Instrument displays ACC when placed in charging dock	Battery missing from instrument	Insert battery	—
Charge indicator is flashing	Battery recently removed. Charge level indicator may be inaccurate	Charge battery inside the instrument for at least 3.5 hours	Only remove battery as required