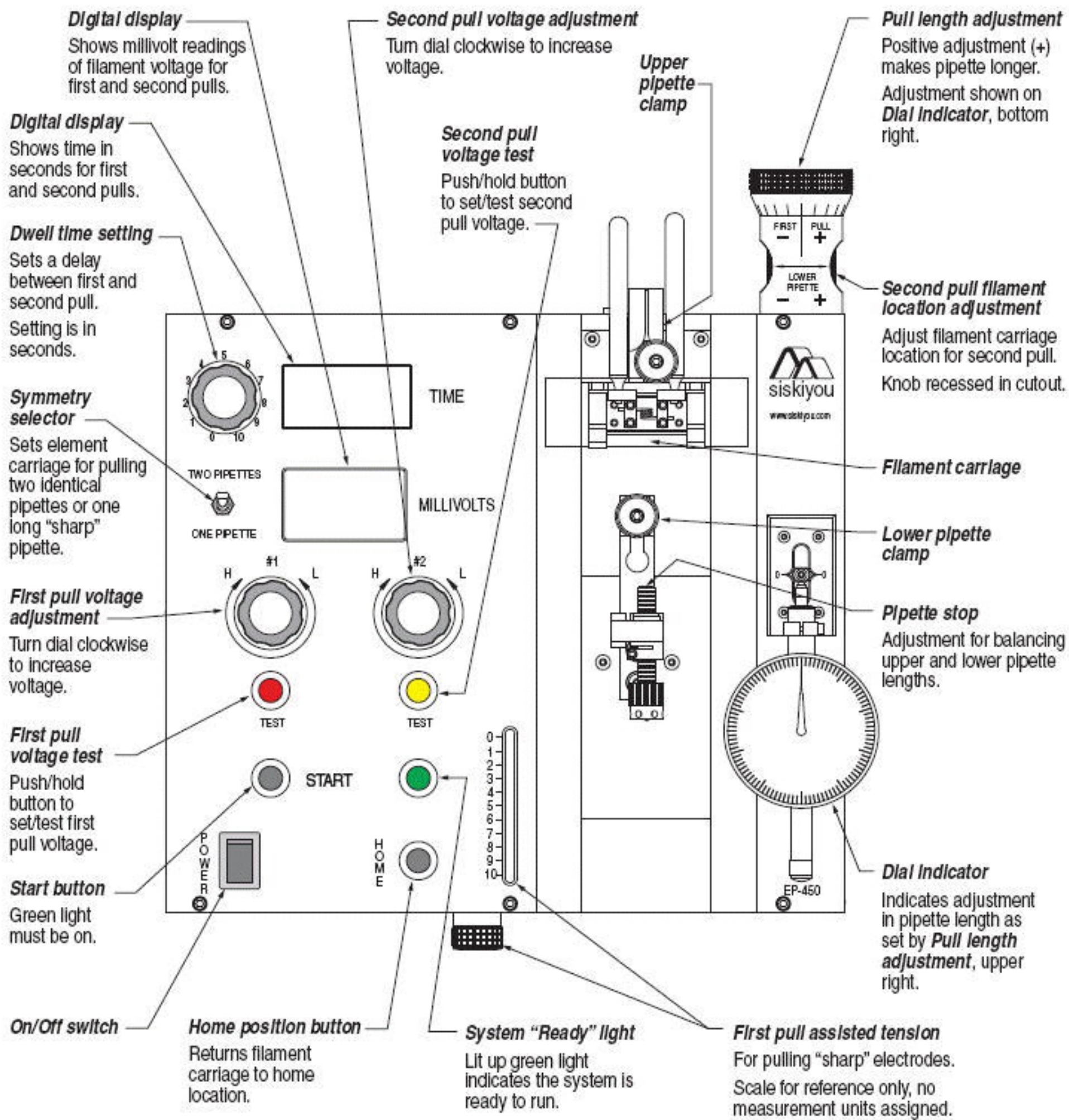


EP-450 Front Panel



Digital display
Shows millivolt readings of filament voltage for first and second pulls.

Digital display
Shows time in seconds for first and second pulls.

Dwell time setting
Sets a delay between first and second pull. Setting is in seconds.

Symmetry selector
Sets element carriage for pulling two identical pipettes or one long "sharp" pipette.

First pull voltage adjustment
Turn dial clockwise to increase voltage.

First pull voltage test
Push/hold button to set/test first pull voltage.

Start button
Green light must be on.

On/Off switch

Home position button
Returns filament carriage to home location.

System "Ready" light
Lit up green light indicates the system is ready to run.

Second pull voltage adjustment
Turn dial clockwise to increase voltage.

Second pull voltage test
Push/hold button to set/test second pull voltage.

Upper pipette clamp

Pull length adjustment
Positive adjustment (+) makes pipette longer. Adjustment shown on **Dial Indicator**, bottom right.

Second pull filament location adjustment
Adjust filament carriage location for second pull. Knob recessed in cutout.

Filament carriage

Lower pipette clamp

Pipette stop
Adjustment for balancing upper and lower pipette lengths.

Dial Indicator
Indicates adjustment in pipette length as set by **Pull length adjustment**, upper right.

First pull assisted tension
For pulling "sharp" electrodes. Scale for reference only, no measurement units assigned.