wasd

V3 / V3B Quick Reference Guide
Version 1.20 Firmware

The V3 keyboard features a DIP switch on the backside of the keyboard to enable or disable various modes of function.

Box Contents
1. Mechanical Keyboard   x1
2. USB Cable   x1
3. Wire Keycap Puller   x1

DIP Switch Settings
Unplug keyboard before changing DIP switch positions.
Plug the keyboard back in for new settings to take effect.

Switch State	Function	Notes
SW 1 Off SW 2 Off	QWERTY Mode	Default QWERTY Layout
SW 1 On SW 2 Off	Mac Mode	QWERTY Layout, Reverses Alt and OS Key Positions
SW 1 Off SW 2 On	Dvorak Mode	Dvorak Layout
SW 1 On SW 2 On	Colemak Mode	Colemak Layout
SW3 Off	Scroll Lock LED = Scroll Lock LED	
SW3 On	Scroll Lock LED = Current Layer LED	
SW4 Off / On	Factory Reset	Unplug keyboard and set SW4 on. Plug in keyboard. All indicator LED's will flash red for 20 seconds and then solid blue, then solid green which means factory reset is complete.
SW 5 Off SW 6 Off	Fn key enabled Layers disabled Pgm key disabled	Only Fn key is enabled (Default) Menu Key = Fn Key Right Ctrl = Right Ctrl
SW 5 On SW 6 Off	Fn key enabled Layers enabled Pgm key disabled	Only Fn key, and Layers are enabled Menu Key = Fn Key Right Ctrl = Right Ctrl
SW 5 Off SW 6 On	Fn key enabled Layers enabled Pgm key enabled	All special functions enabled (Fn, Layers, Pgm) Menu Key = Fn Key Right Ctrl = Pgm Key
SW 5 On SW 6 On	Fn key disabled Layers disabled Pgm key disabled	All special functions disabled Menu Key = Menu Key Right Ctrl = Right Ctrl

Function Key Shortcuts

Key Combination	Shortcut	Notes
Media Keys		
Fn + Insert	Play / Pause	
Fn + Home	Stop	
Fn + Delete	Previous	
Fn + End	Next	
Fn + Page Up	Volume Up	
Fn + Page Down	Volume Down	
Fn + Pause	Mute	
LED Lighting Controls		
Fn + F10	Adjust LED backlight timeout function 7 steps - 10 sec, 30 sec, 1min, 5min, 10min, 30min, 1 Hour, Off	CODE Models only
Fn + F11	Adjust LED backlighting brightness 6 steps - dimmest to brightest	CODE Models only
Fn + F12	Turn LED backlighting on / off	CODE Models only
Indicator LED Programming Controls		
Fn + F6	Red Level 0 – 9	Accessible only in LED Programming Mode
Fn + F7	Green Level 0 – 9	
Fn + F8	Blue Level 0 – 9	
Macro Programming Controls		
Fn + m	Switch to Layer 1	
Fn + ,	Switch to Layer 2	
Fn + .	Switch to Layer 3	
Fn + /	Switch to Layer 4	
Fn + 1	Add 10ms delay to macro	Accessible only in Macro Programming Mode
Fn + 2	Add 100ms delay to macro	
Fn + 3	Add 1000ms delay to macro	

Macro Programming

Action	LED State LED1 = Caps Lock, LED2 = Scroll Lock
1. Enable Pgm Key and Fn Key	LED1+2 = Normal function
2. Press Pgm + Fn to enter Macro Programming	LED1 = Green
3. Press target key or key combo	LED1 = Red
4. Input Programming	LED2 = Flash red on input
5. Press Pgm to save macro	LED1+2 = Flash green 2 times
6. Go back to Step 3 or press Pgm + Fn to exit Macro Programming	LED1+2= back to normal function
Moving Fn, Pgm, Layer Swap (M or < or >or ?), or Backlight Control (F10, F11, F12) key positions	
1. Enable Pgm Key and Fn Keys	LED1+2 = Normal function
2. Press Pgm + Fn to enter relocation Programming	LED1 = Green
3. Press and hold Pgm or Fn, or Layer Swap, or Backlight Function key for 5 seconds	LED1 = Red LED2 = Flash red, then solid green after 5 seconds
4. Input destination key	LED1 = Solid green LED2 = Flash Green
5. Go back to Step 3 to move another or press Pgm + Fn to exit relocation Programming	LED1+2= back to normal function

Macro Programming Limitations

1. Each layer can record up to 64 macros
2. Each macro can hold up to 32 keys (not including delay functions)
3. Target can be single key or a combo using Fn key up to 3 keys
   (ie: "W", "Fn + W", "Fn + Ctrl + W")
4. When moving Fn, Pgm, Layer swap, or backlighting control keys; if the key position is already populated with a function it will not allow you to overwrite, you must move the underlying function first.

Clear Macro Programming for Layer

Press and hold the Fn key, left shift and the target layer key for 2 seconds. LED's will flash blue 5 times indicating that layer has been reset. (For example, hold Fn + left shift + m to reset Layer 1)

Indicator LED Programming

Action	LED State
1. Enable Pgm Key Default position for Pgm key is RCtrl Key	Normal Function
2. Press Pgm + ScrLk to enter LED Programming	Flash green 3 times
3a. To program indicators: Press the key of the target LED (ie: Num Lock, Caps Lock, Scroll Lock)	Target LED displays current color
3b. To program Layer 1 – 4 indicators: Press the Fn + layer key to program layer indicator color (ie: Fn + m, Fn + **,** , Fn + **.** , Fn + /)	Flash red, then displays current color
4. Press Fn + F6, F7, or F8 to cycle through RGB colors	Target LED displays current color
5. Press Pgm to save color	Flash green 3 times
6. Go back to step 3 or press Pgm + ScrLk to exit LED Programming	Back to normal function