Reset Function

Reset Current Single Layer (to factory settings): Choose Layer 1, 2 or 3 then press FN + R (LED 3 will flash WHITE 5 times)
Full Keyboard Reset (to factory settings): Press 2 Alt keys together for 5 seconds. (LED 3 will flash WHITE 5 times). (Warning: all programmed layers, macros and remaps will be lost)
Dip Switch Specification:
Dip Switch 1 ON: Capslock and FN keys exchange position.
Dip Switch 2 ON: Capslock and Right CTRL keys exchange position.
Dip Switch 3 ON: Left side Windows and Left Alt keys exchange position.
Dip Switch 4 ON: The Left side Spacebar becomes the FN key. Now there are two FN keys on the keyboard, but the FN key cannot switch position.

Troubleshooting

If the keyboard is not working properly, do the following steps.
1. Perform a single layer reset on the layer that is not working properly:
   a. Reset Current Single Layer (to factory settings): Choose Layer 1, 2 or 3 then press FN + R (LED 3 will flash WHITE 5 times)
2. Perform a full keyboard reset (Warning: all programmed layers, macros and remaps will be lost) Full Keyboard Reset (to factory settings):
   a. Press 2 Alt keys together for 5 seconds. (LED 3 will flash WHITE 5 times)
3. Unplug and plug all keyboard cables.
If the left half of the keyboard does not work properly, do the following steps.
1. Check the MICRO USB cable joining the two halves. Inspect the cable to check if it is faulty.
2. Visually check if the right and left MICRO USB connectors on the keyboard are damaged.
3. Confirm that the right half is working properly alone (unplug the left side).
4. Download firmware for the keyboard and test again after plugging and unplugging (firmware instructions below).
If the key fails to work or respond properly, please check it by the following steps.
1. Check that all 4 dip switches are OFF
2. Perform a single layer reset on the layer that is not working properly:
   a. Reset Current Single Layer (to factory settings): Choose Layer 1, 2 or 3 then press FN + R (LED 3 will flash WHITE 5 times)
3. Perform a full keyboard reset (Warning: all programmed layers, macros and remaps will be lost) Full Keyboard Reset (to factory settings):
   a. Press 2 Alt keys together for 5 seconds. (LED 3 will flash WHITE 5 times)
4. Check whether a single key does not respond or multiple keys do not respond.

a. If a single key does not respond, there may be a shaft fault that needs to be repaired.
b. If there are multiple keys that do not respond at the same time, a short circuit may be present somewhere inside the keyboard.
How to download or update firmware on the MISTEL keyboard:
1. Download new firmware from MISTEL web-site.
2. MISTEL can also send new firmware to you by direct mail. Remember to convert the files from .ex to .exe format to make it an executable file.
3. Connect your keyboard and computer. Start the firmware update program and press OK to update to the new firmware.
Note: Mac OSX does not support the firmware update software.

Keyboard Warranty Description

The warranty for each keyboard is one year. If the keyboard fails after the warranty period, MISTEL can repair the keyboard but you will be asked to pay for shipping to and from MISTEL. Repair costs will only be charged for major parts failures.
If the keyboard fails within one year, we will provide free repair service. Please send the keyboard to us for maintenance and repair. We will send it back to you as soon as possible after repair or provide parts for you to replace on your own. If the keyboard is damaged due to human factors or the keyboard is damaged due to external forces, we can provide repairs but will charge shipping and repair fees. If the keyboard has water or fluid inside the PCB, DO NOT wash it with water, but use only a dry cloth. Fluid in the keyboard can cause corrosion, requiring the entire PCB to be replaced.
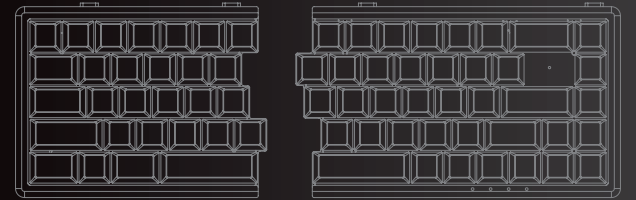**If you need any other service or help with your new keyboard, please email MISTEL at: services@mistelkeyboard.com**

MISTEL
DREAMING ON YOUR FINGERTIPS.

Warranty confirmation form Reseller

MISTEL

BAROCCO
KEYBOARD

MD650L
User manual

ML | CHERRY
MECHANICAL
SWITCH

The MD650L BAROCCO is the second split keyboard from MISTEL, following our first split keyboard, the MD600. BAROCCO means "Combination": a joining or merging of different parts or qualities in which the component elements are individually distinct. We've brought together these unique parts to give you a 65% keyboard that can be used in split mode or joined together. The BAROCCO can be packed away for travel, so that you can enjoy the split, mechanical keyboard life anywhere you choose. New to the MD650L, we've added an additional right-hand column and individual arrow keys, bringing this keyboard to a new level of seamless interaction.

We've employed the new Cherry ML switch which is a low profile mechanical switch using 3mm of travel instead of the typical 4mm found in full sized switches. This makes the MD650L much thinner than its predecessor, adding to its portability. We've also designed a custom low profile full-surface keycap, more suitable for long typing sessions, and giving the overall keyboard structure a thinner and more compact design. When you pick up the MD650L, you'll feel the high quality and strength of the all-aluminum CNC frame and body. Finally, we've included purpose built MISTEL firmware to deliver both a highly customizable yet easy to use keyboard experience.

Box Contents

▪ MD650L Keyboard (two halves)
▪ Micro to Micro USB Cable (joining two halves)
▪ Mini USB Cable
▪ Key Puller (Be sure to use the key puller to disassemble the keycap. It must be inserted into the shaft body downwards at a vertical angle.)
▪ User Manual
▪ Extra Orange Keycaps (Enter and Escape Keys)
▪ Spare ML Switch

Specifications

▪ Model：MD650L BAROCCO
▪ Keyboard Layout：ANSI
▪ Keycap：Custom ML ABS Keycap
▪ Macro Function：YES
▪ Polling Rate：1000Hz
▪ Key Switch：Cherry ML Switch ML1A (Tactile, Silent)
▪ Matrix：NKRO
▪ Media Key：YES
▪ On-Board Memory：YES
▪ Dimensions：325mm x 106mm x 16mm (Length x Width x Height)
▪ Weight：920g

Keyboard Installation

Check the keyboard and contents before use to ensure everything is functioning properly:
▪ All dip switches OFF
▪ All keys press properly and smoothly
▪ All accessories are in the box

Congratulations, now let's get the keyboard going. The right half of the keyboard is the "master", so first plug the MICRO USB cable (orange ends) joining the left and right sides. Then use the MINI USB cable (black ends) to plug the right half of the keyboard into your computer. To use only the left half of the keyboard, insert the MINI USB cable into the connector on the left keyboard and remove the MICRO USB cable joining the halves. Note: When the left and right keyboards are connected, if you connect the MINI USB cable to the left half of the keyboard, the keyboard will not function.

Default Keyboard Arrangement

Default Layer FN Keymap

Keyboard and Layers	Media Keys	Other Keys
FN + 1-0, -, =: F-Keys 1-12	FN + Q: Previous Track	FN + P: Print Screen
FN + Esc: ` and ~ characters	FN + W: Play/Pause	FN + [: Scroll Lock
FN + ": Change Keyboard Layout (QWERTY, Colemak, Dvorak)	FN + E: Next Track	FN + H: Home
FN + M: Default Layer	FN + S: Volume Up	FN + N: End
FN + <: Layer 1	FN + D: Volume Down	FN +]: Pause
FN + >: Layer 2	FN + F: Volume Mute	FN + ;: Insert
FN + ?: Layer 3		FN + I: Up Arrow
FN + R: Reset Layer		FN + J: Left Arrow
FN + G: 0.1ms		FN + K: Down Arrow
FN + B: 0.5ms		FN + L: Right Arrow
FN + T: 15ms		FN + Z: Right Mouse Click
		FN + Y: Calculator

MD650L Indicator LEDs

LED 1: CAPSLOCK Indicator. LED will be white when CAPSLOCK is ON.
LED 2: Keyboard Arrangement Indicator, choose between QWERTY, Colemak, and Dvorak arrangements.

To switch layouts, press FN+' (Function + Apostrophe/Quotes)
LED 2 OFF: QWERTY layout
LED 2 GREEN: Colemak layout
LED 2 BLUE: Dvorak layout
LED 3: Keyboard Layer Indicator, choose different programming layers for the keyboard. This allows each key to have a different function programmed for each layer.
LED OFF: Default Layer (FN + M)
LED RED: Layer 1 (FN + <)
LED GREEN: Layer 2 (FN + >)
LED BLUE: Layer 3 (FN + ?)
LED 4: Macro Programming Indicator.
To enter macro programming mode:
1. Choose Layer 1, 2, or 3
2. Press FN + RIGHT CTRL (LED 4 will turn BLUE)
3. Press the key TWICE where the macro will be stored. The LED 4 will blink BLUE. (for example, press the "C" key if you want to assign a macro to the "C" key).
4. Enter the combination of keys for the macro (for example, press CTRL + C to assign the "Copy" command to the "C" key).
5. Press the PN key once to save the new setting. The LED 4 will turn solid BLUE again.
6. Repeat steps 3 through 5 until all your macros are stored. When complete, exit using step 7.
7. When finished entering macros: Press FN + right CTRL again to exit the macro mode. At this time, the LED 4 LED will turn OFF.
Note:
1. Macro programming is prohibited on the default layer.
2. Macro programming is allowed on FN layers 1, 2, and 3.
3. Macro is not allowed on the following keys, for example, T/G/B/Default layer/ Layer 1/Layer 2/Layer 3/right Ctrl keys/".

Remapping Function

To move a command from one key to another. For example, to remap the FN key to the Capslock key.
1. Choose layer 1, 2 or 3 (FN + <, FN + >, FN + ?)
2. Press Target Key + Left Shift (for example FN + Left Shift) for 3 seconds (LED 4 blink RED)
3. Press the New Function Key (for example Capslock).
4. The Target Key is now remapped as the New Function Key (for example, now the FN command is activated when pressing the Capslock key).
Note:
You cannot move the FN key to Right CTRL. Right Shift or Left Shift in Layer 1, 2 or 3.