

## On the Subject of Misordered Keys

*Make keys ordered again!*

**Note:** If it is not exactly one key which turns black when highlighted, you are looking at the wrong manual.

This module consists of 6 coloured keys, each of which has a 1 - 6 digit label, consisting of numbers in the range 1 - 6.

The possible colours for both the keys and the numbers labelling them are: (R)ed, (G)reen, (B)lue, (C)yan, (M)agenta, and (Y)ellow.

One of the six keys will turn black when highlighted.

This key is referred to as "K" throughout the manual.

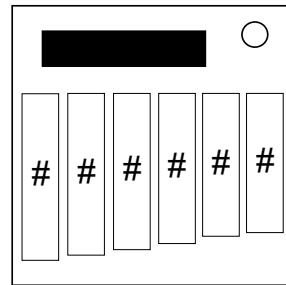
The information given by each key is used to locate a number of cells, each within a 6x6 grid, which will have values in the range 1 - 6.

Each key has two values attributed to it. The two sets of keys each contain exactly one of each number in the range 1 - 6.

**Push the keys in ascending order of the second set of key values whose positions are given by the first set of key values.**

Pushing the keys in the wrong order will result in a strike.

If there is any mistake/disambiguity on the manual, please contact Fang#1167.



First Key ValuesKey Position = 1

Red, Pl		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	1	5	6	4	2	3
	2	6	2	3	5	4	1
	3	2	4	1	6	3	5
	4	3	1	4	2	5	6
	5	5	3	2	1	6	4
	6	4	6	5	3	1	2

Green, Pl		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	4	1	5	3	6	2
	2	5	6	2	1	3	4
	3	6	2	4	5	1	3
	4	2	3	1	6	4	5
	5	1	5	3	4	2	6
	6	3	4	6	2	5	1

Blue, Pl		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	6	2	1	5	3	4
	2	3	4	6	2	1	5
	3	1	3	2	4	5	6
	4	4	5	3	1	6	2
	5	2	6	5	3	4	1
	6	5	1	4	6	2	3

Cyan, Pl		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	5	3	4	2	1	6
	2	2	1	5	4	6	3
	3	4	5	6	3	2	1
	4	1	6	2	5	3	4
	5	3	4	1	6	5	2
	6	6	2	3	1	4	5

Magenta, Pl		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	3	4	2	6	5	1
	2	1	5	4	3	2	6
	3	5	6	3	1	4	2
	4	6	2	5	4	1	3
	5	4	1	6	2	3	5
	6	2	3	1	5	6	4

Yellow, Pl		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	2	6	3	1	4	5
	2	4	3	1	6	5	2
	3	3	1	5	2	6	4
	4	5	4	6	3	2	1
	5	6	2	4	5	1	3
	6	1	5	2	4	3	6

**Key Position = 2**

Red, P2		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	2	4	1	6	3	5
	2	5	3	2	1	6	4
	3	6	2	3	5	4	1
	4	4	6	5	3	1	2
	5	1	5	6	4	2	3
	6	3	1	4	2	5	6

Green, P2		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	6	2	4	5	1	3
	2	1	5	3	4	2	6
	3	5	6	2	1	3	4
	4	3	4	6	2	5	1
	5	4	1	5	3	6	2
	6	2	3	1	6	4	5

Blue, P2		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	1	3	2	4	5	6
	2	2	6	5	3	4	1
	3	3	4	6	2	1	5
	4	5	1	4	6	2	3
	5	6	2	1	5	3	4
	6	4	5	3	1	6	2

Cyan, P2		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	4	5	6	3	2	1
	2	3	4	1	6	5	2
	3	2	1	5	4	6	3
	4	6	2	3	1	4	5
	5	5	3	4	2	1	6
	6	1	6	2	5	3	4

Magenta, P2		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	5	6	3	1	4	2
	2	4	1	6	2	3	5
	3	1	5	4	3	2	6
	4	2	3	1	5	6	4
	5	3	4	2	6	5	1
	6	6	2	5	4	1	3

Yellow, P2		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	3	1	5	2	6	4
	2	6	2	4	5	1	3
	3	4	3	1	6	5	2
	4	1	5	2	4	3	6
	5	2	6	3	1	4	5
	6	5	4	6	3	2	1

Key Position = 3

Red, P3		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	4	6	5	3	1	2
	2	2	4	1	6	3	5
	3	1	5	6	4	2	3
	4	5	3	2	1	6	4
	5	3	1	4	2	5	6
	6	6	2	3	5	4	1

Green, P3		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	3	4	6	2	5	1
	2	6	2	4	5	1	3
	3	4	1	5	3	6	2
	4	1	5	3	4	2	6
	5	2	3	1	6	4	5
	6	5	6	2	1	3	4

Blue, P3		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	5	1	4	6	2	3
	2	1	3	2	4	5	6
	3	6	2	1	5	3	4
	4	2	6	5	3	4	1
	5	4	5	3	1	6	2
	6	3	4	6	2	1	5

Cyan, P3		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	6	2	3	1	4	5
	2	4	5	6	3	2	1
	3	5	3	4	2	1	6
	4	3	4	1	6	5	2
	5	1	6	2	5	3	4
	6	2	1	5	4	6	3

Magenta, P3		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	2	3	1	5	6	4
	2	5	6	3	1	4	2
	3	3	4	2	6	5	1
	4	4	1	6	2	3	5
	5	6	2	5	4	1	3
	6	1	5	4	3	2	6

Yellow, P3		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	1	5	2	4	3	6
	2	3	1	5	2	6	4
	3	2	6	3	1	4	5
	4	6	2	4	5	1	3
	5	5	4	6	3	2	1
	6	4	3	1	6	5	2

**Key Position = 4**

Red, P4		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	5	3	2	1	6	4
	2	3	1	4	2	5	6
	3	4	6	5	3	1	2
	4	2	4	1	6	3	5
	5	6	2	3	5	4	1
	6	1	5	6	4	2	3

Green, P4		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	1	5	3	4	2	6
	2	2	3	1	6	4	5
	3	3	4	6	2	5	1
	4	6	2	4	5	1	3
	5	5	6	2	1	3	4
	6	4	1	5	3	6	2

Blue, P4		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	2	6	5	3	4	1
	2	4	5	3	1	6	2
	3	5	1	4	6	2	3
	4	1	3	2	4	5	6
	5	3	4	6	2	1	5
	6	6	2	1	5	3	4

Cyan, P4		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	3	4	1	6	5	2
	2	1	6	2	5	3	4
	3	6	2	3	1	4	5
	4	4	5	6	3	2	1
	5	2	1	5	4	6	3
	6	5	3	4	2	1	6

Magenta, P4		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	4	1	6	2	3	5
	2	6	2	5	4	1	3
	3	2	3	1	5	6	4
	4	5	6	3	1	4	2
	5	1	5	4	3	2	6
	6	3	4	2	6	5	1

Yellow, P4		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	6	2	4	5	1	3
	2	5	4	6	3	2	1
	3	1	5	2	4	3	6
	4	3	1	5	2	6	4
	5	4	3	1	6	5	2
	6	2	6	3	1	4	5

**Key Position = 5**

Red, P5		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	6	2	3	5	4	1
	2	4	6	5	3	1	2
	3	3	1	4	2	5	6
	4	1	5	6	4	2	3
	5	2	4	1	6	3	5
	6	5	3	2	1	6	4

Green, P5		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	5	6	2	1	3	4
	2	3	4	6	2	5	1
	3	2	3	1	6	4	5
	4	4	1	5	3	6	2
	5	6	2	4	5	1	3
	6	1	5	3	4	2	6

Blue, P5		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	3	4	6	2	1	5
	2	5	1	4	6	2	3
	3	4	5	3	1	6	2
	4	6	2	1	5	3	4
	5	1	3	2	4	5	6
	6	2	6	5	3	4	1

Cyan, P5		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	2	1	5	4	6	3
	2	6	2	3	1	4	5
	3	1	6	2	5	3	4
	4	5	3	4	2	1	6
	5	4	5	6	3	2	1
	6	3	4	1	6	5	2

Magenta, P5		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	1	5	4	3	2	6
	2	2	3	1	5	6	4
	3	6	2	5	4	1	3
	4	3	4	2	6	5	1
	5	5	6	3	1	4	2
	6	4	1	6	2	3	5

Yellow, P5		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	4	3	1	6	5	2
	2	1	5	2	4	3	6
	3	5	4	6	3	2	1
	4	2	6	3	1	4	5
	5	3	1	5	2	6	4
	6	6	2	4	5	1	3

Key Position = 6

Red, P6		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	3	1	4	2	5	6
	2	1	5	6	4	2	3
	3	5	3	2	1	6	4
	4	6	2	3	5	4	1
	5	4	6	5	3	1	2
	6	2	4	1	6	3	5

Green, P6		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	2	3	1	6	4	5
	2	4	1	5	3	6	2
	3	1	5	3	4	2	6
	4	5	6	2	1	3	4
	5	3	4	6	2	5	1
	6	6	2	4	5	1	3

Blue, P6		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	4	5	3	1	6	2
	2	6	2	1	5	3	4
	3	2	6	5	3	4	1
	4	3	4	6	2	1	5
	5	5	1	4	6	2	3
	6	1	3	2	4	5	6

Cyan, P6		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	1	6	2	5	3	4
	2	5	3	4	2	1	6
	3	3	4	1	6	5	2
	4	2	1	5	4	6	3
	5	6	2	3	1	4	5
	6	4	5	6	3	2	1

Magenta, P6		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	6	2	5	4	1	3
	2	3	4	2	6	5	1
	3	4	1	6	2	3	5
	4	1	5	4	3	2	6
	5	2	3	1	5	6	4
	6	5	6	3	1	4	2

Yellow, P6		Label Colour					
		R	G	B	C	M	Y
First Digit of Label	1	5	4	6	3	2	1
	2	2	6	3	1	4	5
	3	6	2	4	5	1	3
	4	4	3	1	6	5	2
	5	1	5	2	4	3	6
	6	3	1	5	2	6	4

## Second key values

Apply the list of conditions on the labels of each key from left to right to obtain the second key values.

If a condition applies, but its second key value has been previously assigned, continue working down the list.

Ignore K: its second key value will be the one remaining value once the others have been assigned.

First Key Value will be abbreviated as FKV.

If the...	..,then the second key value is the...
label has only one digit	position of the key whose FKV is that digit.
label has three or more digits that only appears exactly once*	FKV of K.
sum of digits is greater than 15	FKV of the key whose position is the last digit.
label has less than 3 distinct digits	position of the key whose FKV is the last digit.
label contains no odd numbers	position of the key whose FKV is the position of this key.
label contains both 1 and 6*	position of the key whose FKV is the first digit of K.
label contains at least two distinct even numbers*	position of the key whose FKV is the last digit of K.
label has only one digit	value given by Grid A.
label has more than one digit	value given by Grid B.
key has not been assigned a value	lowest unassigned.

\*If the rule is previously applied, skip the rule.

Grid A: label has only one digit

		Label Colour					
		R	G	B	C	M	Y
Label	1	2	1	5	3	4	6
	2	6	3	2	1	5	4
	3	5	4	3	6	2	1
	4	3	6	4	2	1	5
	5	1	5	6	3	4	2
	6	4	2	1	5	6	3

Grid B: label has more than one digit

		Label Colour					
		R	G	B	C	M	Y
Last Digit of Label	1	+	L	F	P	!	#
	2	F	#	L	!	+	P
	3	P	!	+	F	#	L
	4	#	+	!	L	P	F
	5	L	P	#	+	F	!
	6	!	F	P	#	L	+

F- The first digit of the label.

L- The last digit of the label.

#- The number of digits on the label.

+- One plus the sum of labelled digits modulo 6.

P- The position of the key.

!- The lowest digit that appear the most in the label.