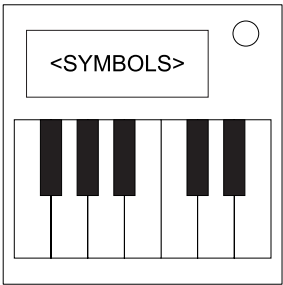# On the Subject of Not Piano Keys

We should really stop dropping modules down mine shafts.

There will be a layout of white and black keys with three musical symbols on the top. The keys are separated into 7 white and 5 black keys. Note that the larger group of black keys is to the left of the smaller group.

Obtaining the Black Key Sequence

- Take the musical symbols on the module and use them in the below tables from top to bottom to obtain a sequence of 3 distinct keys, referred to by their position from left to right.
- If the serial number contains a 0 or 5, the remaining 2 keys will be pressed from right to left. Otherwise they will be pressed from left to right.

	C	¢	∧	∨			𝄋	//	❋
♭	3	1	5	4	2	5	4	1	5
♮	5	1	4	2	2	1	4	2	5
♯	4	3	3	2	3	1	3	4	1
𝄪	5	1	2	1	1	3	1	5	5

♭	2	2	1	3	5	4	3	3	3
♮	2	3	5	1	4	4	4	2	4
♯	2	4	4	4	3	5	3	5	5
𝄪	4	1	2	3	3	4	3	3	1

	C	¢	∧	∨			𝄋	//	✳
	2	5	5	2	3	1	1	1	3
	5	4	4	2	4	5	5	2	3
	3	3	3	1	5	2	4	2	2
	4	4	5	3	1	1	3	3	5
	4	1	5	4	2	2	5	4	2
	2	4	3	4	1	4	1	4	3
	3	3	3	3	1	2	1	2	5
	4	4	5	4	2	5	3	1	2
	3	5	2	2	5	4	5	4	4

Obtaining the White Key Sequence

- Take a sequence of the numbers from 1 to 7. These represent the white keys from left to right. Based on the three symbols shown, perform 4 swaps on this sequence.
- The first symbol on the module corresponds to a 2×2 quadrant of a 3×3 grid.
- Find the intersection of the 2nd and 3rd symbols on the below page to get a cell within a 3×3 grid. The intersection will always be within the quadrant specified by the first symbol. Take the 4 pairs of numbers within that quadrant and order them in clockwise order starting with the intersection.
- For each pair of numbers, swap the numbers in those positions in the sequence.

	C	¢	∧	∨			𝄢	//	❋
	67	72	15	51	36	23	42	15	24
	21	46	31	17	26	64	71	52	13
	14	21	53	75	41	12	26	37	62
	52	17	74	43	25	31	61	24	16
	31	65	12	21	71	56	12	45	21
	76	51	37	42	21	41	21	26	63
	76	32	42	24	63	27	15	13	51
	25	13	61	16	52	71	34	21	47
	12	54	27	32	15	45	23	63	72

Interweaving the Sequences

- Once the black and white sequences have been obtained, they need to be ordered.
- Use the order according to the last digit of the bomb's serial number and press the keys in that order.
    - B# represents the #th key of the black sequence.
    - W# represents the #th key of the white sequence.

#	Sequence
0	W1, B1, W2, B2, W3, B3, W4, B4, W5, B5, W6, W7
1	B2, W2, W3, B3, W1, W6, B5, W4, B1, W5, W7, B4
2	W5, W4, W1, B2, W3, B1, W7, W2, B3, W6, B4, B5
3	W2, B2, W6, B1, W4, W7, W5, B4, W1, B5, W3, B3
4	W6, B5, W1, W5, B3, W7, B2, W3, B1, W4, W2, B4
5	W6, B1, W1, B2, B5, B4, W2, W5, W7, B3, W3, W4
6	W3, W5, W2, B5, B2, W1, B1, B3, W6, W4, B4, W7
7	B4, W7, W1, W3, B2, B3, W4, B5, W5, W2, B1, W6
8	W7, B1, W3, B5, W1, W4, B4, W5, W2, W6, B2, B3
9	W6, W3, W2, W4, B1, B3, B4, W1, W7, B2, B5, W5