	M-AUDIO KEYSTATION61 M														 I MK3 Key Scan											
		CN13													CN14											
		1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12
		PB	РΒ		PB	PB	PA	NC						PB			PA	PA			PA	PA	PA	PA	PB	PB
		9	8	5	4	3	15		10	9	8	15	14	13	14	15	0	1	2	3	4	5	6	7	0	1
1	C2				0			NC					1	2												
2	C#			0									1	2												
3	D		0										1	2												
4	D#	0											1	2												
5	E												1	2				0								
6	F												1	2		_	0									
7	F♯												1	2	0	0										
8	G				_						1	2	1	2	0											
9	G♯ ^			0	0						1	2														
10	A A#		0	0							1	2														
12		0	U								1	2														
13		U									1	2						0								
14											1	2					0	U								
15											1	2				0	U									
_	D#										1	2			0	0										
17					0				1	2	_	_														
18				0					1	2																
_	F#		0						1	2																
20	G	0							1	2																
21	G#								1	2								0								
22									1	2							0									
	<b>Α</b> #								1	2						0										
24									1	2					0											
25	<b>C4</b>				0	1	2																			
26	C#			0		1	2																			
27	D		0			1	2																			
28	D#	0				1	2																			
29	E					1	2											0								
30						1	2										0									
_	F♯					1	2									0										
32	G					1	2								0											
_	G#				0																				1	2
34	-			0																					1	2
	Α#		0																						1	2
36		0																							1	2
37	C5							NC										0							1	2
		1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12

		1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12
				PB	l											l .						PA			PB	PB
		9	8	5	4	3	15		10	9	8	15	14	13	14	15	0	1	2	3	4	5	6	7	0	1
_	C#							NC									0								1	2
39	D															0									1	2
40	D#														0										1	2
41					0																		1	2		
42	F			0																			1	2		
	F♯		0																				1	2		
44	G	0																					1	2		
	G#																	0					1	2		
46	A																0						1	2		
47	Α#															0							1	2		
48	В														0								1	2		
49	C6				0																1	2				
50	C#			0																	1	2				
51	D		0																		1	2				
52	D#	0																			1	2				
53	E																	0			1	2				
54	F																0				1	2				
55	F#															0					1	2				
56	G														0						1	2				
57	G#				0														1	2						
58	A			0															1	2						
59	<b>Α</b> #		0																1	2						
60	В	0																	1	2						
61	<b>C</b> 7							NC										0	1	2						
62	!																o!		1	2						
63	!															o!			1	2						
64	!														o!				1	2						

## Key:

0 – Output A 4us 4V pulse repeated at 100us intervals

1 – Input The first contact to operate.2 – Input The second contact to operate

! \_ Spare Add a diode and contact to generate codes in these unused positions

Notes on use with Midi Interface:

- a. Scanned outputs are connected to scanned inputs via dual diodes in a package marked A1, probably BAW56. Each piano key operates two contacts. The table above shows contact 1 which closes before contact 2 as the piano key is depressed. Contact 2 releases before contact 1 as the piano key is released.
- b. CN13 pin 7 has no connection.
- c. CN13 and CN14 are 2mm pitch of unknown type, with 2mm pitch ribbon cable but may be mated with 2mm pitch pin headers.
- d. A peddleboard using the same scanning formation leaves some GPIO available e.g.PA1-PB1 become available for 8 analogue expression inputs, PB3-PB14 available for additional contacts.