SysEx KNOB SETTINGS										
1	2	3		4	5	6		7		8
SysEx START	Bastl ID	TYPE	//	knob number	ctrl#	ctrl#	//	range	//	SysEx END
240	48	1	CC	n (0-59)	# (0-127)	/	(0-127)	/		247
		2	NRPN bipolar		LSB (0-127)	MSB (0-127)	(0-16383)	r (1-63)		
		3	NRPN unipolar		LSB (0-127)	MSB (0-127)	(0-16383)	r (1-127)		
		4	DX7		MSB (0-1)	LSB (0-127)	(0-144)	r (1-99)		
		15	CC on MIDI CH#		# (0-127)	/	(0-127)	MIDI CH# (1-16)		
		16	disable knob		/	/		1		
* 240	48		invert direction (r	,	1	/		yes/no (1/0)		247
		18	NRPN exponent		LSB (0-127)	MSB (0-127)	(0-16383)	r (1-4)	164/200/1	600/2000

<sup>\*</sup> this sysex has to be sent also for each knob.

SysEx GLOBAL SETTINGS (after each knob has been set)

1	2	3		4		5
SysEx START	Bastl ID	command	//	value	//	SysEx END
240	48	9	GLOBAL	CH# (1-16)	MIDI channel	247
* 240	48	19	NRPN LSB data	on/off (0-1)	1 disables LSB	247
240	48	5	PRESET SAVE	s (0-4)	memory SLOT	247

<sup>\*</sup> this command enables NRPN data LSB on CC# 38 (optional according to MIDI standard).

PARAMETERS ARE SHOWN IN DECIMAL UNIT. According to which MIDI compiler you're using, conversion to HEXADECIMAL UNIT might be required.

## 60KNOBS MIDI chart

example //	knob parameters	knob direction
1st knob CC #55	240 48 1 0 55 0 247	240 48 17 0 0 247
2nd knob NRPNb #127 range 11	240 48 2 1 127 0 11 247	240 48 17 1 0 247
3rd knob NRPNu #199 range 127	240 48 3 2 71 1 127 247	240 48 17 2 0 247
4th knob DX7 #39 range 31	240 48 4 3 0 39 31 247	240 48 17 3 0 247
5th knob CC #127 on MIDI CH 16	240 48 15 4 127 16 247	240 48 17 4 0 247
6th knob disabled	240 48 16 5 0 0 247	240 48 17 5 0 247
7th knob CC #21 range inverted	240 48 1 6 21 0 247	240 48 17 6 1 247
8th knob NRPNp #407 range 1600	240 48 18 7 23 3 247	240 48 17 7 0 247

## example

//	command line
Set GLOBAL MIDI CH to 1	240 48 9 1 247
Disable NRPN LSB data out	240 48 19 1 247
Save ALL settings on memory slot 1	240 48 5 0 247