## DOEPFER





# pocket Control

## **Owners Manual**

Written by Andy Horrell



#### **Notes**

# Doepfer **pocket** Control

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56	38	NRPN102 MSB
57	39	NRPN102 LSB
58	3A	NRPN120 MSB [EMU ABS]
59	3B	NRPN120 LSB [EMU ABS]
60	3D 3C	NRPN127 MSB [Soundblaster AWE 32/64]
61	3D	NRPN127 LSB [Soundblaster AWE 32/64]
62	3E	free
63	3F	free
64	40	XG Drum Pitch Coarse
65	41	XG Drum Pitch Fine
66	42	XG Drum Level
67	43	XG Drum Alternate Group
68	44	XG Drum Pan
69	45	XG Drum Reverb Send
70	46	XG Drum Chorus Send
70 71	47	XG Drum Variation Send
72		
72	48	XG Drum Key Assign
	49	XG Drum Receive Note Off
74	4A	XG Drum Receive Note On
75	4B	XG Drum Filter Cutoff Frequency
76	4C	XG Drum Filter Resonance
77	4D	XG Drum EG Attack Rate
78	4E	XG Drum EG Decay 1 Rate
79	4F	XG Drum EG Deacy 2 Rate
80	50	XG Multipart
81	51	XG A/D
82	52	XG Effect
83	53	XG Effect 2-byte
84	54	XG Reverb Type
85	55	XG Chorus Type
86	56	XG Variation Type
87	57	XG EQ
88	58	XG Insertion Effect 1
89	59	XG Insertion Effect 2
90	5A	XG Insertion Effect 1Type
91	5B	XG Insertion Effect 2 Type
92	5C	free
93	5D	free
94	5E	free
95	5F	free
96	60	GS Effect
97	61	MC303 Global
98	62	MC303 Channel
99	63	free
100	64	Strings
101	65	free
	•	. Parameter 2 values between 101 and 126 are not defined
		. (Reserved for future expansion)
126	7E	free
127	7F	No Event

#### Parameter 3:

Range  $00 \sim 7F$  The meaning of parameter 3 depends on what parameter 2 is set to.

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#### **FORWARD**

How long have you wanted to:

Control your (software) synthesizer without having to use virtual faders, and having to look at a computer screen and use a mouse?

Use the full capability of your computer's built-in soundcard?

Have realtime control for synths that have limited or no realtime controls

Could the control possibilities of your master keyboard be improved? Now it's time to discover new uses for real time control by using the **Doepfer Pocket Control**.

#### The Pocket Control

The Pocket Control (referred to as the **pocketC**) is a device, that everyone could use, such as for the computer in the studio or for live use in professional and semi-professional situations.



What can the pocketC do?

The **pocket**C can assign each of the 16 control knobs to individual Midi events. This Midi event controlled can be selected from a list of preset options (giving over 16,000 different event combinations), such as controllers, mono & poly aftertouch, pitch bend, RPN/NRPN, XG-SysEx, GS/XG controller, program change and even note on/off events. These events can be from any of the 16 Midi channels, or the master channel (which allows easy selection of the controlling MIDI channel). The permutation of possibilities is therefore up to 17 (channel options) \* 16,000 (event combinations), which is over 250,000 possible combinations! The system is also ready to take even further SysEx messages and data formats in future updates.

The low cost of the **pocketC** allows for applications where multiple **pocketC's** can be used chained together.

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The **pocketC** does not have a built in power supply (not enough room left inside!), but uses an external adaptor which can be from 7v to 12v and at least 100mA. The connection polarity is positive inner. Although the **pocketC** has a built in protection diode for protection against incorrect polarity, the **pocketC** can still be damaged by using an incorrect adaptor, so only use an approved adaptor and avoid using multipolarity type adaptors with voltage level and polarity switching, as inadvertant settings can cause problems.



Connect the MIDI out of the controlling keyboard to the MIDI IN of the **pocket**C. The MIDI input also allows control of the **pocket**C, such as with program changes to select presets, and to receive it's own Sys-Ex messages for setting up the 128 preset memories (held in non-volatile memory).



Connect the MIDI OUT of the **pocketC** to the sequencer (computer) or sound generator MIDI in. The **pocketC** merges the incoming data with it's own data, so the MIDI OUT is a data merge of MIDI in and data generated by the **pocketC**. There is no use for a separate MIDI thru with this type of device. Note that if extremely large Sys-Ex dumps are passed through the **pocketC** then it is advisable not to move any **pocketC** knobs whilst this transmission is taking place, as the merge abilities of the **pocketC** were not intended to work whilst this kind of intense transmission is taking place.

If multiple **pocketC's** are being used then the MIDI connections can be chained together so that all the **pocketC's** produce one composite data from the last MIDI out in the chain.

#### **Functions of the LED**



The LED indicates the status of the **pocketC** in various modes. For example, under normal operation the LED indicates MIDI input activity, and also MIDI out activity when moving the control knobs on the **pocketC**. The LED also indicates:-

Parameter 2: Event Definition

Decimal					
1 01 Pitch Bend 2 02 Mono Afterouch 3 03 Program Change 4 04 Poly Aftertouch 5 05 Note On 6 06 Note Off 7 07 fire 8 08 RPNO MSB 9 09 RPNO LSB 10 0A RPN1 MSB 11 0B RPN1 MSB 12 0C fire 13 0D fire 14 0E RPN127 MSB 15 0F RPN127 LSB 16 10 NRPNO MSB 17 11 NRPNO MSB 18 12 NRPN1 MSB 19 13 NRPN1 LSB [XG Multi / GS] 19 13 NRPN1 LSB 20 14 NRPNS MSB 21 15 NRPN MSB 22 16 NRPNS MSB 23 17 NRPNS LSB 24 18 NRPN10 MSB 25 19 NRPN10 LSB 26 1A NRPN20 MSB 27 1B NRPN10 LSB 28 1C NRPN1 MSB 29 1D NRPN21 LSB 30 1E NRPN21 LSB 31 1F NRPN22 LSB 31 1F NRPN22 LSB 31 1F NRPN22 LSB 32 20 NRPN22 LSB 33 21 NRPN23 MSB 34 22 NRPN24 MSB 35 25 NRPN24 MSB 36 24 NRPN26 MSB 37 25 NRPN24 MSB 38 26 NRPN26 MSB 39 27 NRPN24 LSB 30 1E NRPN24 MSB 31 1F NRPN24 LSB 32 20 NRPN24 MSB 33 21 NRPN24 LSB 34 22 NRPN24 MSB 35 23 NRPN24 LSB 36 24 NRPN25 MSB 37 25 NRPN24 LSB 38 26 NRPN26 MSB 39 27 NRPN26 LSB 39 27 NRPN26 LSB 30 NRPN26 MSB 31 NRPN26 MSB 31 NRPN26 MSB 32 NRPN26 MSB 33 21 NRPN26 MSB 34 22 NRPN26 MSB 35 23 NRPN26 MSB 36 24 NRPN26 MSB 37 25 NRPN26 MSB 38 26 NRPN26 MSB 39 27 NRPN26 LSB 39 27 NRPN26 LSB 39 27 NRPN26 LSB 30 NRPN26 MSB 31 NRPN27 LSB 32 NRPN26 MSB 33 26 NRPN26 MSB 34 26 NRPN26 MSB 35 NRPN26 LSB 36 27 NRPN26 MSB 37 25 NRPN26 MSB 38 26 NRPN26 MSB 39 27 NRPN26 LSB 30 NRPN26 MSB 31 NRPN27 LSB 32 NRPN26 MSB 33 26 NRPN26 MSB 34 27 NRPN26 MSB 35 NRPN26 LSB 36 27 NRPN26 MSB 37 25 NRPN26 MSB 38 26 NRPN26 MSB 39 27 NRPN26 LSB 39 27 NRPN26 LSB 30 NRPN28 MSB 31 NRPN32 LSB 32 NRPN38 MSB 33 NRPN38 MSB 34 NRPN39 LSB 35 NRPN39 LSB 36 NRPN30 LSB 37 NRPN30 LSB 38 NRPN31 LSB 39 NRPN31 LSB 30 NRPN32 LSB 31 NRPN32 LSB 31 NRPN32 LSB 32 NRPN33 MSB 33 NRPN33 LSB 34 NRPN33 LSB 35 NRPN30 LSB 35 NRPN30 LSB 36 NRPN30 LSB 37 NRPN30 LSB 38 NRPN30 LSB 38 NRPN31 LSB 39 NRPN31 LSB 30 NRPN33 LSB 31 NRPN32 LSB 31 NRPN32 LSB 31 NRPN32 LSB 32 NRPN33 MSB 33 NRPN33 LSB 34 NRPN33 LSB 35 NRPN33 LSB 35 NRPN33 LSB 36 NRPN30 LSB 37 NRPN33 MSB 38 NRPN33 LSB 38 NRPN33 LSB 39 NRPN33 LSB 30 NRPN33 LSB 31 NRPN33	_	Decimal	Hex	Definition	
2		0	00		
3			01	Pitch Bend	
4 04 Poly Aftertouch 5 05 Note On 6 06 Note Off 7 07 free 8 08 RPNO MSB 9 09 RPNO LSB 10 0A RPNI MSB 11 0B RPNI MSB 11 0B RPNI MSB 11 0E RPNI27 MSB 15 0F RPN127 LSB 16 10 NRPNO MSB 17 11 NRPNO MSB 18 12 NRPNI MSB 18 12 NRPNI MSB 18 12 NRPNI MSB 19 13 NRPNI LSB 19 13 NRPNI LSB 19 13 NRPNI LSB 20 14 NRPNS MSB 21 15 NRPNS MSB 21 1 NRPNS MSB 22 1 RPNN MSB 23 17 NRPNS MSB 24 18 NRPNI 0 MSB 25 19 NRPNI 0 MSB 26 1A NRPNS 0 MSB 27 1B NRPNI 0 LSB 28 1C NRPN20 LSB 30 1E NRPN20 LSB 31 1F NRPN21 LSB 31 1F NRPN21 LSB 31 1F NRPN22 LSB 31 1F NRPN22 LSB 32 20 NRPN22 LSB 33 21 NRPN21 LSB 34 1 RRPN22 LSB 35 20 NRPN23 MSB 36 24 NRPN22 LSB 37 RPN22 LSB 38 IXG Drum Instrument Cutoff 39 Drum Instrument EG Attack 31 1F NRPN22 LSB 32 20 NRPN23 LSB 33 21 NRPN23 LSB 34 22 NRPN23 LSB 35 23 NRPN23 LSB 36 24 NRPN23 LSB 37 25 NRPN24 LSB 38 IXG Drum Instrument EG Decay 39 10 NRPN21 LSB 30 1E NRPN23 LSB 31 1F NRPN23 LSB 32 20 NRPN23 LSB 33 21 NRPN23 LSB 34 22 NRPN24 LSB 35 23 NRPN25 LSB 36 24 NRPN25 LSB 37 25 NRPN25 LSB 38 IXG Drum Instrument Pitch Fine 39 27 NRPN26 LSB 30 NRPN28 LSB 31 IXG Drum Instrument Pitch Fine 31 IXG Drum Instrument Pitch Fine 32 20 NRPN23 LSB 33 XKG Drum Instrument Pitch Fine 34 22 NRPN26 LSB 35 XKG Drum Instrument Pitch Fine 36 27 NRPN26 LSB 37 XKG Drum Instrument Pitch Fine 38 26 NRPN26 LSB 39 XKG Drum Instrument Pitch Fine 40 28 NRPN28 LSB 41 XKG/GS Drum Instrument Pitch Fine 42 2A NRPN26 LSB 43 XKG/GS Drum Instrument Pitch Fine 44 2C NRPN30 LSB 45 XKG/GS Drum Instrument Pitch Fine 46 2E NRPN31 LSB 47 XFR SC Drum Instrument Pitch Fine 48 30 NRPN31 LSB 49 XKG/GS Drum Instrument Pitch Fine 49 XKG/GS Drum Instrument Pitch Fine 40 XKG/GS Drum Instrument Pitch Fine 41 XKG/GS Drum Instrument Pitch Fine 42 XKG/GS Drum Instrument Pitch Fine 44 XKG/GS Drum Instrument Pitch Fine 45 XKG/GS Drum Instrument Pitch Fine 46 ZE NRPN31 LSB 47 XRPN31 LSB 48 XKG/GS Drum Instrument Variation Send 49 XKG/GS Drum Instrument Variation Send 40 XKG/GS Drum Instrument Variation Send 41 XKG/GS Drum Instrument Variation Send		2	02		
5		3	03		
6 06 Note Off 7 07 free 8 08 RPN0 MSB 9 09 RPN0 LSB 11 0B RPN1 MSB 11 0B RPN1 MSB 11 0B RPN1 MSB 12 0C firee 13 0D free 14 0E RPN127 LSB 16 10 NRPN0 MSB 17 11 NRPN0 LSB 18 12 NRPN1 MSB [XG Multi / GS] 18 12 NRPN1 MSB 19 13 NRPN1 LSB [XG Multi / GS] 19 13 NRPN1 LSB 20 14 NRPN8 MSB 21 15 NRPN8 LSB 22 16 NRPN9 MSB 23 17 NRPN9 LSB 24 18 NRPN10 MSB 25 19 NRPN10 MSB 26 1A NRPN20 MSB 27 1B NRPN20 LSB 28 1C NRPN20 LSB 29 1D NRPN21 LSB 30 1E NRPN21 LSB [XG Drum Instrument Cutoff] 29 1D NRPN21 LSB [XG Drum Instrument Resonance] 30 1E NRPN22 LSB [XG Drum Instrument EG Attack] 31 1F NRPN22 LSB [XG Drum Instrument EG Attack] 31 1F NRPN22 LSB [XG Drum Instrument EG Decay] 33 21 NRPN21 LSB [XG Drum Instrument EG Decay] 34 22 NRPN23 MSB [XG Drum Instrument EG Decay] 35 23 NRPN24 LSB [XG Drum Instrument Pitch Coarse] 36 27 NRPN25 LSB [XG Drum Instrument Pitch Coarse] 37 25 NRPN25 LSB [XG Drum Instrument Pitch Coarse] 38 26 NRPN26 MSB [XG Drum Instrument Pitch Coarse] 39 27 NRPN26 LSB [XG Drum Instrument Pitch Coarse] 40 28 NRPN26 MSB [XG Drum Instrument Pitch Coarse] 41 NRPN28 LSB [XG Drum Instrument Pitch Coarse] 42 NRPN26 LSB [XG Drum Instrument Pitch Fine] 43 22 NRPN26 LSB [XG Drum Instrument Pitch Coarse] 44 NRPN26 MSB [XG/GS Drum Instrument Pitch Fine] 45 20 NRPN26 LSB [XG/GS Drum Instrument Pitch Fine] 46 21 NRPN26 LSB [XG/GS Drum Instrument Pitch Fine] 47 NRPN26 LSB [XG/GS Drum Instrument Pitch Pine] 48 NRPN28 LSB [XG/GS Drum Instrument Pitch Fine] 49 NRPN28 LSB [XG/GS Drum Instrument Pitch Pine] 40 28 NRPN28 LSB [XG/GS Drum Instrument Pitch Fine] 41 29 NRPN28 LSB [XG/GS Drum Instrument Pitch Fine] 42 20 NRPN30 MSB [XG/GS Drum Instrument Pitch Pine] 43 21 NRPN30 MSB [XG/GS Drum Instrument Pitch Pine] 44 22 NRPN28 LSB [XG/GS Drum Instrument Pitch Pine] 45 2D NRPN30 MSB [XG/GS Drum Instrument Pitch Pine] 46 2E NRPN31 LSB [XG/GS Drum Instrument Pitch Pine] 47 2F NRPN30 MSB [XG/GS Drum Instrument Pitch Pine] 48 30 NRPN30 MSB [XG/GS Drum Instrument Pitch Pine] 49 31 NRPN30 MSB [XG/GS Drum Instrument Pitch Pine]		4	04	Poly Aftertouch	
7         07         fire           8         08         RPN0 MSB           9         09         RPN0 LSB           10         0A         RPN1 MSB           11         0B         RPN1 MSB           12         0C         free           13         0D         fire           14         0E         RPN127 MSB           15         0F         RPN127 MSB           16         10         NRPN0 MSB           17         11         NRPN0 LSB           18         12         NRPN1 LSB           20         14         NRPN8 MSB           21         15         NRPN8 LSB           22         16         NRPN8 LSB           22         16         NRPN8 MSB           23         17         NRPN10 LSB           24         18         NRPN10 MSB           25         19         NRPN10 LSB           26         1A         NRPN20 MSB         IXG Drum Instrument Cutoff           27         1B         NRPN21 LSB         IXG Drum Instrument EG Attack           30         1E         NRPN22 MSB         IXG Drum Instrument EG Attack           31		5	05	Note On	
Section		6	06	Note Off	
9 09 RPNO LSB 10 0A RPNI MSB 11 0B RPNI MSB 11 0B RPNI MSB 11 0C free 13 0D free 14 0E RPN127 MSB 15 0F RPN127 LSB 16 10 NRPNO MSB 17 11 NRPNO LSB 18 12 NRPNI MSB [XG Multi / GS] 19 13 NRPNI LSB [XG Multi / GS] 19 13 NRPNI LSB [XG Multi / GS] 19 13 NRPNI MSB 20 14 NRPN8 MSB 21 15 NRPN8 MSB 22 16 NRPN9 MSB 23 17 NRPN9 LSB 24 18 NRPN10 MSB 25 19 NRPN10 LSB 26 1A NRPN20 MSB 27 1B NRPN20 MSB 28 1C NRPN21 MSB [XG Drum Instrument Cutoff] 29 1D NRPN21 LSB [XG Drum Instrument Resonance] 29 1D NRPN21 LSB [XG Drum Instrument Resonance] 30 IE NRPN22 LSB [XG Drum Instrument EG Attack] 31 IF NRPN22 LSB [XG Drum Instrument EG Attack] 32 20 NRPN23 MSB [XG Drum Instrument EG Attack] 33 21 NRPN23 LSB [XG Drum Instrument EG Attack] 34 22 NRPN23 MSB [XG Drum Instrument EG Decay] 35 27 NRPN24 LSB [XG Drum Instrument EG Decay] 36 24 NRPN25 LSB [XG Drum Instrument EG Decay] 37 25 NRPN24 LSB [XG Drum Instrument EG Decay] 38 26 NRPN25 MSB [XG Drum Instrument EG Decay] 39 27 NRPN25 LSB [XG Drum Instrument EG Decay] 40 28 NRPN26 LSB [XG Drum Instrument Ptich Coarse] 41 29 NRPN26 LSB [XG Drum Instrument Ptich Fine] 42 2A NRPN26 LSB [XG Drum Instrument Ptich Fine] 43 2B NRPN26 LSB [XG/GS Drum Instrument Ptich Fine] 44 2C NRPN36 MSB [XG/GS Drum Instrument Ptich Fine] 45 2D NRPN38 B [XG/GS Drum Instrument Ptich Fine] 46 2E NRPN38 MSB [XG/GS Drum Instrument Ptich Fine] 47 2F NRPN31 LSB [XG/GS Drum Instrument Ptich Fine] 48 30 NRPN38 MSB [XG/GS Drum Instrument Ptich Fine] 49 31 NRPN38 LSB [XG/GS Drum Instrument Ptich Fine] 40 28 NRPN38 MSB [XG/GS Drum Instrument Ptich Fine] 41 29 NRPN38 LSB [XG/GS Drum Instrument Ptich Fine] 42 2A NRPN39 LSB [XG/GS Drum Instrument Ptich Fine] 43 2B NRPN38 MSB [XG/GS Drum Instrument Ptich Fine] 44 2C NRPN30 MSB [XG/GS Drum Instrument Ptich Fine] 45 2D NRPN31 LSB [XG/GS Drum Instrument Ptich Fine] 46 2E NRPN31 MSB [XG/GS Drum Instrument Ptich Fine] 47 2F NRPN31 LSB [XG/GS Drum Instrument Ptich Fine] 48 30 NRPN33 LSB [XG/GS Drum Instrument Variation Send] 49 31 NRPN33 LSB [XG/GS Drum Instrument Variation Send] 4		7	07	free	
10		8	08	RPN0 MSB	
11		9	09	RPN0 LSB	
12		10	0A	RPN1 MSB	
13		11	0B	RPN1 MSB	
14		12	0C	free	
15		13	0D	free	
16		14	0E	RPN127 MSB	
17		15	0F	RPN127 LSB	
18		16	10	NRPN0 MSB	
19		17	11	NRPN0 LSB	
19		18	12	NRPN1 MSB	[XG Multi / GS]
20		19	13	NRPN1 LSB	
15		20	14		•
16		21	15		
23         17         NRPN9 LSB           24         18         NRPN10 MSB           25         19         NRPN10 LSB           26         1A         NRPN20 MSB         [XG Drum Instrument Cutoff]           27         1B         NRPN20 LSB         [XG Drum Instrument Resonance]           28         1C         NRPN21 LSB         [XG Drum Instrument Resonance]           29         1D         NRPN21 LSB         [XG Drum Instrument EG Attack]           31         1F         NRPN22 MSB         [XG Drum Instrument EG Attack]           31         1F         NRPN23 LSB         [XG Drum Instrument EG Decay]           32         20         NRPN23 LSB         [XG Drum Instrument Pitch Coarse]           33         21         NRPN23 LSB         [XG/GS Drum Instrument Pitch Coarse]           34         22         NRPN24 MSB         [XG/GS Drum Instrument Pitch Coarse]           35         23         NRPN25 MSB         [XG Drum Instrument Pitch Fine]           36         24         NRPN25 MSB         [XG/GS Drum Instrument Pitch Fine]           37         25         NRPN26 MSB         [XG/GS Drum Instrument Level]           40         28         NRPN28 MSB         [XG/GS Drum Instrument Pan]		22	16		
24         18         NRPN10 LSB           25         19         NRPN10 LSB           26         1A         NRPN20 MSB         [XG Drum Instrument Cutoff]           27         1B         NRPN20 LSB         [XG Drum Instrument Resonance]           28         1C         NRPN21 MSB         [XG Drum Instrument Resonance]           29         1D         NRPN21 LSB         [XG Drum Instrument EG Attack]           30         1E         NRPN22 LSB         [XG Drum Instrument EG Attack]           31         1F         NRPN22 LSB         [XG Drum Instrument EG Attack]           32         20         NRPN23 LSB         [XG Drum Instrument EG Decay]           33         21         NRPN23 LSB         [XG Drum Instrument EG Decay]           34         22         NRPN24 MSB         [XG/GS Drum Instrument Pitch Coarse]           35         23         NRPN24 LSB         [XG/GS Drum Instrument Pitch Coarse]           36         24         NRPN25 LSB         [XG Drum Instrument Pitch Fine]           37         25         NRPN26 LSB         [XG/GS Drum Instrument Pitch Fine]           38         26         NRPN26 MSB         [XG/GS Drum Instrument Level]           40         28         NRPN28 MSB         [XG/GS Drum Ins			17		
25					
26         1A         NRPN20 MSB         [XG Drum Instrument Cutoff]           27         1B         NRPN20 LSB         [XG Drum Instrument Cutoff]           28         1C         NRPN21 MSB         [XG Drum Instrument Resonance]           29         1D         NRPN21 LSB         [XG Drum Instrument Resonance]           30         1E         NRPN22 MSB         [XG Drum Instrument EG Attack]           31         1F         NRPN22 LSB         [XG Drum Instrument EG Decay]           32         20         NRPN23 LSB         [XG Drum Instrument EG Decay]           33         21         NRPN23 LSB         [XG Drum Instrument EG Decay]           34         22         NRPN24 MSB         [XG Drum Instrument Pitch Coarse]           35         23         NRPN24 LSB         [XG/GS Drum Instrument Pitch Coarse]           36         24         NRPN25 LSB         [XG Drum Instrument Pitch Fine]           37         25         NRPN25 LSB         [XG Drum Instrument Evet]           39         27         NRPN26 LSB         [XG/GS Drum Instrument Level]           40         28         NRPN28 MSB         [XG/GS Drum Instrument Pan]           41         29         NRPN38 LSB         [XG/GS Drum Instrument Reverb Send]           4					
27					[XG Drum Instrument Cutoff]
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31					• •
32   20					
33   21					
34         22         NRPN24 MSB         [XG/GS Drum Instrument Pitch Coarse]           35         23         NRPN24 LSB         [XG/GS Drum Instrument Pitch Coarse]           36         24         NRPN25 MSB         [XG Drum Instrument Pitch Fine]           37         25         NRPN25 LSB         [XG Drum Instrument Pitch Fine]           38         26         NRPN26 MSB         [XG/GS Drum Instrument Level]           39         27         NRPN26 LSB         [XG/GS Drum Instrument Level]           40         28         NRPN28 MSB         [XG/GS Drum Instrument Pan]           41         29         NRPN28 LSB         [XG/GS Drum Instrument Pan]           41         29         NRPN28 LSB         [XG/GS Drum Instrument Reverb Send]           42         2A         NRPN29 MSB         [XG/GS Drum Instrument Reverb Send]           43         2B         NRPN30 MSB         [XG/GS Drum Instrument Chorus Send]           44         2C         NRPN30 LSB         [XG/GS Drum Instrument Chorus Send]           45         2D         NRPN31 LSB         [XG/GS Drum Instrument Variation Send]           47         2F         NRPN32 LSB         [XG/GS Drum Instrument Variation Send]           48         30         NRPN33 LSB         [XG/GS Drum Instrument					
35   23					
36         24         NRPN25 MSB         [XG Drum Instrument Pitch Fine]           37         25         NRPN25 LSB         [XG Drum Instrument Pitch Fine]           38         26         NRPN26 MSB         [XG/GS Drum Instrument Level]           39         27         NRPN26 LSB         [XG/GS Drum Instrument Level]           40         28         NRPN28 MSB         [XG/GS Drum Instrument Pan]           41         29         NRPN28 LSB         [XG/GS Drum Instrument Pan]           42         2A         NRPN29 MSB         [XG/GS Drum Instrument Reverb Send]           43         2B         NRPN29 LSB         [XG/GS Drum Instrument Reverb Send]           44         2C         NRPN30 MSB         [XG/GS Drum Instrument Chorus Send]           45         2D         NRPN30 LSB         [XG/GS Drum Instrument Chorus Send]           46         2E         NRPN31 LSB         [XG/GS Drum Instrument Variation Send]           47         2F         NRPN31 LSB         [XG/GS Drum Instrument Variation Send]           48         30         NRPN32 LSB           50         32         NRPN33 MSB           51         33         NRPN33 LSB           52         34         NRPN99 MSB           53         35 <td></td> <td></td> <td></td> <td></td> <td></td>					
37       25       NRPN25 LSB       [XG Drum Instrument Pitch Fine]         38       26       NRPN26 MSB       [XG/GS Drum Instrument Level]         39       27       NRPN26 LSB       [XG/GS Drum Instrument Level]         40       28       NRPN28 MSB       [XG/GS Drum Instrument Pan]         41       29       NRPN28 LSB       [XG/GS Drum Instrument Pan]         42       2A       NRPN29 MSB       [XG/GS Drum Instrument Reverb Send]         43       2B       NRPN29 LSB       [XG/GS Drum Instrument Reverb Send]         44       2C       NRPN30 MSB       [XG/GS Drum Instrument Chorus Send]         45       2D       NRPN30 LSB       [XG/GS Drum Instrument Chorus Send]         46       2E       NRPN31 MSB       [XG/GS Drum Instrument Variation Send]         47       2F       NRPN31 LSB       [XG/GS Drum Instrument Variation Send]         48       30       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					
38       26       NRPN26 MSB       [XG/GS Drum Instrument Level]         39       27       NRPN26 LSB       [XG/GS Drum Instrument Level]         40       28       NRPN28 MSB       [XG/GS Drum Instrument Pan]         41       29       NRPN28 LSB       [XG/GS Drum Instrument Pan]         42       2A       NRPN29 MSB       [XG/GS Drum Instrument Reverb Send]         43       2B       NRPN29 LSB       [XG/GS Drum Instrument Reverb Send]         44       2C       NRPN30 MSB       [XG/GS Drum Instrument Chorus Send]         45       2D       NRPN30 LSB       [XG/GS Drum Instrument Chorus Send]         46       2E       NRPN31 MSB       [XG/GS Drum Instrument Variation Send]         47       2F       NRPN31 LSB       [XG/GS Drum Instrument Variation Send]         48       30       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					•
39   27					•
40					•
41       29       NRPN28 LSB       [XG/GS Drum Instrument Pan]         42       2A       NRPN29 MSB       [XG/GS Drum Instrument Reverb Send]         43       2B       NRPN29 LSB       [XG/GS Drum Instrument Reverb Send]         44       2C       NRPN30 MSB       [XG/GS Drum Instrument Chorus Send]         45       2D       NRPN31 LSB       [XG/GS Drum Instrument Chorus Send]         46       2E       NRPN31 MSB       [XG/GS Drum Instrument Variation Send]         47       2F       NRPN31 LSB       [XG/GS Drum Instrument Variation Send]         48       30       NRPN32 MSB         49       31       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					•
42       2A       NRPN29 MSB       [XG/GS Drum Instrument Reverb Send]         43       2B       NRPN29 LSB       [XG/GS Drum Instrument Reverb Send]         44       2C       NRPN30 MSB       [XG/GS Drum Instrument Chorus Send]         45       2D       NRPN30 LSB       [XG/GS Drum Instrument Chorus Send]         46       2E       NRPN31 MSB       [XG/GS Drum Instrument Variation Send]         47       2F       NRPN31 LSB       [XG/GS Drum Instrument Variation Send]         48       30       NRPN32 MSB         49       31       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					
43       2B       NRPN29 LSB       [XG/GS Drum Instrument Reverb Send]         44       2C       NRPN30 MSB       [XG/GS Drum Instrument Chorus Send]         45       2D       NRPN30 LSB       [XG/GS Drum Instrument Chorus Send]         46       2E       NRPN31 MSB       [XG/GS Drum Instrument Variation Send]         47       2F       NRPN31 LSB       [XG/GS Drum Instrument Variation Send]         48       30       NRPN32 MSB         49       31       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					
44       2C       NRPN30 MSB       [XG/GS Drum Instrument Chorus Send]         45       2D       NRPN30 LSB       [XG/GS Drum Instrument Chorus Send]         46       2E       NRPN31 MSB       [XG/GS Drum Instrument Variation Send]         47       2F       NRPN31 LSB       [XG/GS Drum Instrument Variation Send]         48       30       NRPN32 MSB         49       31       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					
45 2D NRPN30 LSB [XG/GS Drum Instrument Chorus Send] 46 2E NRPN31 MSB [XG/GS Drum Instrument Variation Send] 47 2F NRPN31 LSB [XG/GS Drum Instrument Variation Send] 48 30 NRPN32 MSB 49 31 NRPN32 LSB 50 32 NRPN33 MSB 51 33 NRPN33 LSB 52 34 NRPN33 LSB 55 35 NRPN99 LSB 54 36 NRPN100 MSB					
46					
47 2F NRPN31 LSB [XG/GS Drum Instrument Variation Send] 48 30 NRPN32 MSB 49 31 NRPN32 LSB 50 32 NRPN33 MSB 51 33 NRPN33 LSB 52 34 NRPN99 MSB 53 35 NRPN99 LSB 54 36 NRPN100 MSB					
48 30 NRPN32 MSB 49 31 NRPN32 LSB 50 32 NRPN33 MSB 51 33 NRPN33 LSB 52 34 NRPN99 MSB 53 35 NRPN99 LSB 54 36 NRPN100 MSB					
49       31       NRPN32 LSB         50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					[AG/GS Drum Instrument Variation Send]
50       32       NRPN33 MSB         51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					
51       33       NRPN33 LSB         52       34       NRPN99 MSB         53       35       NRPN99 LSB         54       36       NRPN100 MSB					
52 34 NRPN99 MSB 53 35 NRPN99 LSB 54 36 NRPN100 MSB					
53 35 NRPN99 LSB 54 36 NRPN100 MSB					
54 36 NRPN100 MSB					
55 37 NRPN100 LSB					
	_	55	37	INKLIN 100 F2R	

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The Sys-Ex data can be broken down into sections, the first part is the Sys-Ex format for the **pocketC** Single Dump, which is (numbers in Hex):

#### F0 00 20 20 14 00 20 preset channel (16 bytes) data (32 bytes) F7

F0	Sys-Ex byte
00	European Sub ID
20	Doepfer Sub ID 1
20	Doepfer Sub ID 2
14	Device "pocketC"
00	reserved
20	Command Byte "Single Dump"
00 ~ 7F	Preset Number
00	reserved
00 ~ 10	Parameter 1. There are 16 data bytes setting the MIDI channel of each
	knob, a setting of 0 sets the knob to the Master Channel.
00 ~ 7F	Parameter 2. There are 16 data bytes setting the event type for each knob,
	a setting of 7F defines "No Event" to the knob.
$00 \sim 7F$	Parameter 3. There are 16 data bytes setting the additioanl event data for
	each knob. The definition of parameter 3 depends on what parameter 2 is
	set to.
F7	EOX (End of System Exclusive)

The data that must follow is the Single Store message which is:

#### F0 00 20 20 14 00 30 F7

F0	Sys-Ex byte
00	European Sub ID
20	Doepfer Sub ID 1
20	Doepfer Sub ID 2
14	Device "pocketC"
00	reserved
30	Command Byte "Single Store"
$00 \sim 7F$	Preset Number (Must be the same as in the first message above)
00	reserved
F7	EOX (End of System Exclusive)

#### **Parameter Tables**

Parameter 1: MIDI Channel

	C 114111101
00	Master Channel
01 ~ 10	MIDI Channels 1 ~ 16
11 ~ 7F	values undefined (decimal values 17 - 127)

Power on reset - the LED will stay lit for around one second when the power is first applied to the **pocketC**.

Any error at the MIDI input

Data and status when setting the Master channel

The status of the Snapshot function

Indication that a preset has been changed

#### Functions of the "Snapshot" front panel switch



The front panel switch labelled "Snapshot" has various functions:

- a) to send a Snapshot of all the panel control knob settings
- b) for setting the master MIDI channel
- c) to reset the **pocketC** after a MIDI overflow at the MIDI in

#### To Send a snapshot

The snapshot function is not achieved by just pressing the snapshot switch, as this could be accidentally pressed too easily. So to activate the Snapshot function, first briefly press the Snapshot switch once, this causes the LED to flash, the Snapshot switch needs to be pressed again within at least one second (whilst the LED is still flashing). This then invokes the snapshot function, and the data from all 16 control knobs is transmitted from the **pocketC**.

#### To Set the Master Channel

The Master channel is used to select which channel the **pocket**C will transmit on when using relevant presets. Some presets (such as the MIDI volume - preset 0) has each knob on a different channel, whilst other presets have all knobs on the same channel, it is on these presets that the Master channel is used. The Master channel is also the channel which the **pocket**C will receive program change data on.

To set the Master channel, hold the snapshot switch down for at least one second and keep it held down, the LED then stays on to indicate Master channel setting mode (do not let go of the button until the required value has been selected). In this mode the control knobs become channel selectors, and do not transmit the normal control data. To select a channel, simply move one of the control knobs that relates to the channel required (to set channel 5, move control knob 5). If you accidentally move the wrong knob, just move the correct one, as it is the last knob moved that determines the actual Master channel set.

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#### To clear an error

To clear any MIDI input error such as a MIDI overflow (too much data in one go), press the snapshot switch briefly once (do not press it again until at least one second has passed, or this would enter the snapshot mode).

#### Functions of the DIP switches (rear panel)



The eight rear panel DIP switches select settings of the **pocketC**, the settings can be looked upon as a binary number where each switch can be either on or off, this allows up to 256 functions to be selected from the eight DIP switches. The switch is referred to ON or 1, when set towards the top panel, and referred to OFF or 0 when set towards the bottom panel.

Only seven of the switches are used to select one of the 128 presets. The eighth switch is not used at present and has no functions, but it is good practice to leave it in the OFF position, as a future update may make use of this switch position. The switches are numbered one to eight on the switch block itself, when relating the switch positions to a binary number, then the least significant bit is towards the middle of the **pocketC** and numbered 1 on the switch. It is switch number 8 that is not used.

The factory shipped default setting is Preset number 0, which is all switches off (towards bottom) which is defined as MIDI Volume across all MIDI channels.

The following listing, lists all the 64 presets that are shipped in the pocketC, note that the switch settings are shown with the least significant bit to the right (as would normally be shown with a binary number), so note the switch numbering which is eight to the left and one to the right, this relates to the switch position when looking at the rear panel of the **pocketC**. If holding the **pocketC**, you tip the unit up at the back to look into the DIP switches that way, you will be looking at the DIP switches the other way with one to the left and eight to the right, when doing this remember that the switch order will be the reverse. The following list of presets shows the switch position split into two groups of four, as this should help reading the switch code.

#### **Creating your own presets**

New presets can be created or present ones can be altered, though it is recommended to dump all new presets into locations  $65 \sim 127$ .

Every knob of the **pocketC** can be assigned with three 7-bit parameters (between 0 and 127), these parameters define the MIDI event transmitted by the knobs. Each preset can be dumped into the **pocketC** by a System Exclusive message. This is a two stage process, first the data is sent to the **pocketC** (Single Dump) and then a second message stores the data into non-volatile memory (Single Store). The data is only stored if the preset number is the same in both the Single Dump and Single Store messages are the same.

#### Parameter 1:

This first parameter defines the MIDI channel that the event will be transmitted on (values  $1 \sim 16$ ), or if the event will use the Master Channel (value set to 0).

#### Parameter 2:

The second parameter describes the type of event. The **pocket**C does not allow you to program any MIDI string, but uses one of it's 128 preset events (which is the number set with parameter 2). This list of events include controllers, pitch bend, mono & poly aftertouch, note on, note off, RPN's and many NRPN's along with some more complex Sys-Ex strings for controlling Roland GS and Yamaha XG instruments.

#### Parameter 3:

The third parameter is an extension of parameter 2, many events need two values to determine the event, for example, if a value of 00 is set in parameter 2 (which is controller) then parameter 3 sets the controller number (perhaps a value of 7 to define Volume events).

The Sys-Ex message can be generated within a sequencer program (it is best to use Hex if possible), or the default file Pc\_xxx.mid on the enclosed disk can be used as a basis for editing. This default file contains the following message (Hex):

F0 00 20 20 14 00 30 **00** 00 F7

The first message is the Single Dump and the second message is the Single Store. Please note, that this default is about to overwrite preset number 00, shown in bold above as the eighth data byte. It is an idea to experiment with preset 127 (set the data to Hex 7F), but don't forget to change the value in both strings. The function of this default dump is to set the knobs to MIDI volume on their own channels - this is actually the preset data in preset 00 anyway.

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Preset 64	Yamaha 01V	[Control]	(Master Channel)
Knob 1	Stereo In Level	Controller 16	
Knob 2	Stereo Out Level	Controller 21	
Knob 3	Stereo Out Balance	Controller 67	
Knob 4	Stereo Out 2 Cue	Controller 82	
Knob 5	Stereo In to Cue	Controller 75	
Knob 6	Send 4 Level	Controller 20	
Knob 7	Send 3 Level	Controller 19	
Knob 8	Internal FX 1 Type	Controller 20 (?)	
Knob 9	Send 3 to Cue	Controller 80	
Knob 10	Send 4 to Cue	Controller 81	
Knob 11	Send 3/4 Balance	Controller 66	
Knob 12	FX Return 1 Level	Controller 17	
Knob 13	FX Return 2 Level	Controller 18	
Knob 14	FX Return 1 to Cue	Controller 78	
Knob 15	FX Return 2 to Cue	Controller 79	
Knob 16	Internal FX 2 Type	Controller 21 (?)	

Presets  $65 \sim 128$  are undefined, though as new presets are created, they can be loaded into the **pocketC** by a Sys-Ex MIDI file. The enclosed disk includes new presets, with details in the README.TXT file.

#### **Troubleshooting**

There will be times when the **pocketC** does not seem to be working as expected, before suspecting a faulty **pocketC**, the checklist below should help resolve the problem.

- Is the **pocketC** powered up correctly? There is no actual power indicator on the **pocketC**, but the LED is always active. Moving a knob will flash the LED (the LED does not flash if the knob has not been assigned a function), or briefly pressing the Snapshot switch will cause the LED to flash for around a second as the **pocketC** resets.
- Is the **pocketC** set to the correct preset? Maybe one of the dip switches has moved accidentally or a MIDI program change has set a new preset up. Check the dip switch settings.
- Is the **pocketC** set to the correct MIDI channel? Many presets make use of the Master Channel, there is no way of checking what the Master Channel is set to (other than monitoring the transmitted data), so the best procedure here is to set the Master Channel again to double check it is correct. Hold the Snapshot switch down for at least a second, and whilst keeping it down move the relevant knob that corresponds to the required MIDI channel. Make sure you do not move another knob after this before releasing the Snapshot switch, as it is the last knob moved that sets the Master Channel.
- Problems with Sys-Ex transfers? Remember that the **pocket**C always merges it's own data with MIDI input data, this can cause a MIDI loop when receiving Sys-Ex, therefore you may find it best to disconnect the MIDI out of the **pocket**C when sending it Sys-Ex messages, or at least make sure the transmitting device is not MIDI thru enabled.
- You cannot get the **pocketC** to make the Coffee. Er ... no, the **pocketC** actually cannot do this unless you have a MIDI controlled kettle...

#### List of presets 1 ~ 64

Switch Pos. 8765 4321	Preset Number	Description	MIDI Channel
0000 0000	Preset 0	Volume (control 7)	Channels 1 - 16
0000 0001	Preset 1	Pan (control 10)	Channels 1 - 16
0000 0010	Preset 2	Filter Cutoff (control 74)	Channels 1 - 16
0000 0011	Preset 3	Resonance (control 71)	Channels 1 - 16
0000 0100	Preset 4	Volume (control 7) /Pan (control 10)	Channels 1 - 8
0000 0101	Preset 5	Volume (control 7) /Pan (control 10)	Channels 9 - 16
0000 0110	Preset 6	Filter Cutoff (control 74) /Resonance (control 71)	Channels 1 - 8
0000 0111	Preset 7	Filter Cutoff (control 74) /Resonance (control 71)	Channels 9 - 16
0000 1000	Preset 8	Control 0 - 15	Masterchannel
0000 1001	Preset 9	Control 16 - 31	Masterchannel
0000 1010	Preset 10	Control 32 - 47	Masterchannel
0000 1011	Preset 11	Control 48 - 63	Masterchannel
0000 1100	Preset 12	Control 64 - 79	Masterchannel
0000 1101	Preset 13	Control 80 - 95	Masterchannel
0000 1110	Preset 14	Control 96 - 111	Masterchannel
0000 1111	Preset 15	Control 112 - 127	Masterchannel
0001 0000	Preset 16	GS/XG General controls	Masterchannel
0001 0001	Preset 17	AWE/SB 1 (Filter, LFO2, ENV1)	Masterchannel
0001 0010	Preset 18	AWE/SB 2 (LFO1, ENV 1)	Masterchannel
0001 0011	Preset 19	AWE/SB 3 (LFO2, ENV 2)	Masterchannel
0001 0100	Preset 20	AWE/SB 4 (Tuning, Modulation)	Masterchannel
0001 0101	Preset 21	AWE/SB 5 (Filter, Effects, Portamento, Aftertouch)	Masterchannel
0001 0110	Preset 22	GS/XG Drum Pitch	Masterchannel
0001 0111	Preset 23	GS/XG Drum Level	Masterchannel
0001 1000	Preset 24	GS/XG Drum Pan	Masterchannel
0001 1001	Preset 25	GS/XG Drum Reverb Levels	Masterchannel
0001 1010	Preset 26	GS/XG Drum Chorus Levels	Masterchannel
0001 1011	Preset 27	GS/XG Drum Delay/Variation Levels	Masterchannel
0001 1100	Preset 28	XG Drum Filter Cutoff	Masterchannel
0001 1101	Preset 29	XG Drum Filter Resonance	Masterchannel
0001 1110	Preset 30	XG Drum Envelope Attack	Masterchannel
0001 1111	Preset 31	XG Drum Envelope Decay	Masterchannel
0010 0000	Preset 32	XG Multi-Part Level	Channels 1 - 16
0010 0001	Preset 33	XG Multi-Part Pan	Channels 1 - 16
0010 0010	Preset 34	XG Multi-Part Reverb Send	Channels 1 - 16
0010 0011	Preset 35	XG Multi-Part Chorus Send	Channels 1 - 16
0010 0100	Preset 36	XG Multi-Part Dry Level	Channels 1 - 16
0010 0101	Preset 37	XG Multi-Part Variation Level	Channels 1 - 16
0010 0110	Preset 38	XG Low EQ Gain	Channels 1 - 16
0010 0111	Preset 39	XG Low EQ Frequency	Channels 1 - 16
0010 1000	Preset 40	XG High EQ Gain	Channels 1 - 16

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00101001	Preset 41	XG High EQ Frequency	Channels 1 - 16
00101010	Preset 42	XG A/D 1&2, W1-12 Level	Masterchannel
00101011	Preset 43	XG A/D 1&2, W1-12 Pan	Masterchannel
00101100	Preset 44	XG A/D 1&2, W1-12 Reverb Send	Masterchannel
00101101	Preset 45	XG A/D 1&2, W1-12 Chorus Send	Masterchannel
00101110	Preset 46	XG A/D 1&2, W1-12 Variation Send	Masterchannel
00101111	Preset 47	XG A/D 1&2, W1-12 Dry Level	Masterchannel
00110000	Preset 48	XG EQ	Masterchannel
00110001	Preset 49	XG Reverb Parameters	Masterchannel
00110010	Preset 50	XG Chorus Parameters	Masterchannel
00110011	Preset 51	XG Variation Effect Parameters	Masterchannel
00110100	Preset 52	XG Insert Effect 1 Parameters	Masterchannel
00110101	Preset 53	XG Insert Effect 2 Parameters	Masterchannel
00110110	Preset 54	XG Insertion 2	Masterchannel
00110111	Preset 55	GS Reverb/Chorus	Masterchannel
00111000	Preset 56	General Reset Strings	Masterchannel
00111001	Preset 57	Rebirth Controls	Masterchannel
00111010	Preset 58	Yamaha CS1X Controls	Masterchannel
00111011	Preset 59	Waldorf Pulse Controls	Masterchannel
00111100	Preset 60	Ensoniq ASR-X controls	Masterchannel
00111101	Preset 61	Doepfer MAQ 16/3 Control 1	Masterchannel
00111110	Preset 62	Doepfer MAQ 16/3 Control 2	Masterchannel
00111111	Preset 63	Kawai K5000 Macro Control Box (MCB10)	Masterchannel
01000000	Preset 64	Yamaha 01v Control	Masterchannel

Presets 00 to 64 are available on the supplied disk for dumping into the **pocketC** by system exclusive (in SMF format), this allows the presets to be returned to their factory shipped state should they get accidentally altered. Presets 65 to 127 are left blank for your own custom requirements, though the supplied disk may contain additional presets. The "README.TXT" file gives further information and descriptions of these presets. New presets will be developed, and these will become available free on the Doepfer web site at:-

### www.doepfer.de

Preset 61	Doepfer MAQ16/3 1	[Controller]	(Master Channel)
Knob 1	Velocity Row 1	[Controller 0]	
Knob 2	Velocity Row 2	[Controller 1]	
Knob 3	Velocity Row 3	[Controller 2]	
Knob 4	Gate Time Row 1	[Controller 7]	
Knob 5	Gate Time Row 2	[Controller 8]	
Knob 6	Gate Time Row 3	[Controller 9]	
Knob 7	Program Change Row 3	[Controller 30]	
Knob 8	Tempo	[Controller 3]	
Knob 9	Step Position Row 1	[Controller 4]	
Knob 10	Step Position Row 2	[Controller 5]	
Knob 11	Step Position Row 3	[Controller 6]	
Knob 12	Note Time Row 1	[Controller 10]	
Knob 13	Note Time Row 2	[Controller 11]	
Knob 14	Note Time Row 3	[Controller 12]	
Knob 15	Program Change Row 1	[Controller 28]	
Knob 16	Program Change Row 2	[Controller 29]	
Preset 62	Doepfer MAQ16/3 2	[Controller]	(Master Channel)
Preset 62 Knob 1	•	[Controller] [Controller 13]	(Master Channel)
	First Step Row 1		(Master Channel)
Knob 1	•	[Controller 13]	(Master Channel)
Knob 1 Knob 2	First Step Row 1 First Step Row 2	[Controller 13] [Controller 14]	(Master Channel)
Knob 1 Knob 2 Knob 3	First Step Row 1 First Step Row 2 First Step Row 3	[Controller 13] [Controller 14] [Controller 15]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1	[Controller 13] [Controller 14] [Controller 15] [Controller 19]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 21]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 30]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3 Tempo	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 21] [Controller 30] [Controller 3] [Controller 16]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3 Tempo Last Step Row 1	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 21] [Controller 30]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3 Tempo Last Step Row 1 Last Step Row 2	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 21] [Controller 30] [Controller 3] [Controller 16] [Controller 17]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3 Tempo Last Step Row 1 Last Step Row 2 Last Step Row 2 Last Step Row 3	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 21] [Controller 30] [Controller 3] [Controller 16] [Controller 17] [Controller 18]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3 Tempo Last Step Row 1 Last Step Row 2 Last Step Row 3 Midi-Channel Row 1	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 21] [Controller 30] [Controller 3] [Controller 16] [Controller 17] [Controller 18] [Controller 18]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11 Knob 12 Knob 13	First Step Row 1 First Step Row 2 First Step Row 3 Run Mode Row 1 Run Mode Row 2 Run Mode Row 3 Program Change Row 3 Tempo Last Step Row 1 Last Step Row 2 Last Step Row 2 Last Step Row 3 Midi-Channel Row 1 Midi-Channel Row 2	[Controller 13] [Controller 14] [Controller 15] [Controller 19] [Controller 20] [Controller 30] [Controller 3] [Controller 16] [Controller 17] [Controller 18] [Controller 22] [Controller 23]	(Master Channel)

Presets  $62 \sim 63$  provide the MAQ16/3 with advanced realtime control with features that may not have been apparent that the MAQ16/3 could do. Converts an MAQ16/3 into a Super MAQ 16/3!

Preset 63	Kawai K5000 (MCB10)	[Controller]	(Master Channel)
Knob 1	Filter Cutoff	[Controller 74]	
Knob 2	Filter Resonance	[Controller 77]	
Knob 3	Formant Filter Speed	[Controller 19]	
Knob 4	Formant Filter Depth	[Controller 75]	
Knob 5	Formant Filter Bias	[Controller 18]	
Knob 6	Envelope Attack	[Controller 73]	
Knob 7	Envelope Decay	[Controller 78]	
Knob 8	Envelope Release	[Controller 72]	
Knob 9	Harmonics Low	[Controller 16]	
Knob 10	Harmonics High	[Controller 17]	
Knob 11	Even / Odd Harmonics Balance	[Controller 71]	
Knob 12	Velocity Depth	[Controller 76]	
Knob 13	User 1	[Controller 80]	
Knob 14	User 2	[Controller 81]	
Knob 15	User 3	[Controller 82]	
Knob 16	User 4	[Controller 83]	

Preset 63 emulates every function of the Kawai MCB10 Macro Control Box designed for the K5000 range.

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Preset 58	Yamaha CS1X control	[NRPN / Controller]	(Master Channel)
Knob 1	Filter Cutoff	[Controller 74]	
Knob 2	Filter Resonance	[Controller 71]	
Knob 3	Vibrato Rate	[NRPN]	
Knob 4	Vibrato Depth	[NRPN]	
Knob 5	Vibrato Delay	[NRPN]	
Knob 6	Envelope Attack	[Controller 73]	
Knob 7	Amplitude Envelope Decay	[NRPN]	
Knob 8	Envelope Release	[Controller 72]	
Knob 9	Pitch Bend	[Pitch Bend]	
Knob 10	Knob 3 Parameter	[Controller 17]	
Knob 11	Knob 6 Parameter	[Controller 18]	
Knob 12	Reverb Send	[Controller 91]	
Knob 13	Chorus Send	[Controller 93]	
Knob 14	Delay/Variation Send	[Controller 94]	
Knob 15	Pan	[Controller 10]	
Knob 16	Volume	[Controller 7]	
Preset 59	Waldorf Pulse Control	[Controller]	(Master Channel)
Knob 1	Filter Cutoff	[Controller 50]	
Knob 2	Filter Resonance	[Controller 56]	
Knob 3	Filter Cutoff Keytrack	[Controller 51]	
Knob 4	Envelope 1 Sensitivity	[Controller 52]	
Knob 5	Envelope 1 Attack	[Controller 14]	
Knob 6	Envelope 1 Decay	[Controller 15]	
Knob 7	Envelope 1 Sustain	[Controller 16]	
Knob 8	Envelope 1 Release	[Controller 17]	
Knob 9	LFO 1 Speed	[Controller 24]	
Knob 10	LFO 2 Speed	[Controller 26]	
Knob 11	VCF Modulation Amount	[Controller 25]	
Knob 12	Portamento Time	[Controller 5]	
Knob 13	Envelope 2 Attack	[Controller 18]	
Knob 14	Envelope 2 Decay	[Controller 19]	
Knob 15	Envelope 2 Sustain	[Controller 20]	
Knob 16	Envelope 2 Release	[Controller 21]	
Preset 60	Ensoniq ASR-X	[NRPN / Controller]	(Master Channel)
Knob 1	Filter Cutoff	[Controller 74]	
Knob 2	Filter Resonance	[Controller 71]	
Knob 3	Vibrato Rate	[Controller 75]	
Knob 4	Vibrato Depth	[NRPN]	
Knob 5	Vibrato Delay	[NRPN]	
Knob 6	Filter Envelope Attack	[NRPN]	
Knob 7	Filter Envelope Decay	[NRPN]	
Knob 8	Filter Envelope Release	[NRPN]	
Knob 9	Pitch Bend	[Pitch Bend]	
Knob 10	Modulation	[Controller 1]	
Knob 11	Envelope Attack	[Controller 73]	
Knob 12	Envelope Decay	[Controller 76]	
Knob 13	Envelope Release	[Controller 72]	
Knob 14	Velocity Sensitivity	[NRPN]	
Knob 15	Portamento Time	[Controller 5]	
Knob 16	Volume	[Controller 7]	

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#### **Description of presets**

Preset 0:	Volume	[controller 7]	(Channels 1-16)
Preset 1:	Pan	[controller 10]	(Channels 1-16)
Preset 2:	Filter Cutoff	[controller 74]	(Channels 1-16)
Preset 3:	Filter resonance	[controller 71]	(Channels 1-16)

Presets  $0 \sim 3$  use a single controller type, with each knob relating to it's corresponding MIDI channel, this allows full control of 16 parts within a multitimbral sound generator, or realtime mixing in sequencer automation.

Preset 4:	Volume / Pan	[controller 7 / 10]	(Channels 1-8)
Preset 5:	Volume / Pan	[controller 7 / 10]	(Channels 9-16)
Preset 6:	Filter Cutoff / Resonance	[controller 74 / 71]	(Channels 1-8)
Preset 7:	Filter Cutoff / Resonance	[controller 74/ / 71]	(Channels 9-16)

Presets  $4 \sim 7$  use two controllers, one across the top row of knobs and the other across the bottom row. With Preset 4, the top row is MIDI controller 7 (Volume) with the MIDI channel corresponding to the knob number, whilst the lower row is MIDI controller 10 (Pan) on the same channel as the knob above it, hence knob 9 is channel 1, knob 10 is channel 2 etc. Preset 5 follows the same idea except the MIDI channel is channels 9 to 16, so the actual MIDI channel relates to the lower knob numbers. Preset 6, again follows the same idea as Preset 4 except the top row is MIDI controller 74 (Filter Cut off) and the lower row is controller 71 (Filter Resonance), and finally Preset 7 is the same as Preset 6 except the channels are 9-16.

Preset 8:	general controllers	[controllers 0 - 15]	(Master channel)
Preset 9:	general controllers	[controllers 16 - 31]	(Master channel)
Preset 10:	general controllers	[controllers 32 - 47]	(Master channel)
Preset 11:	general controllers	[controllers 48 - 63]	(Master channel)
Preset 12:	general controllers	[controllers 64 - 79]	(Master channel)
Preset 13:	general controllers	[controllers 80 - 95]	(Master channel)
Preset 14:	general controllers	[controllers 96 - 111]	(Master channel)
Preset 15:	general controllers	[controllers 112 - 127]	(Master channel)

Presets 8  $\sim$  15 are general controller sets, which transmit on the Master Channel. Where the receiving MIDI device can be programmed to any controller it can receive, these presets maybe the only presets needed, although preset 8 is perhaps best avoided for general use as it includes controller 0 (could trigger MIDI program bank changes) and controller 1 which is the mod wheel, although of course there may be instances when MIDI controller 1 is required, such as adding a modulation wheel function to a keyboard (such as a digital piano). Preset 12 also needs to be used with caution, as controller 64 is defined as the sustain/damper pedal function, and most devices will always receive this controller as Damper or Hold.

Preset 16: GS / XG general controls [NRPN / controllers] (Master channel)

Preset 16 has the top row of knobs transmitting relevant NRPN controller data for GS/XG instruments, and the lower row is general controllers:-

Knob 1	Filter Cutoff	[NRPN]
Knob 2	Filter Resonance	[NRPN]
Knob 3	Vibrato Rate	[NRPN]
Knob 4	Vibrato Depth	[NRPN]
Knob 5	Vibrato Delay	[NRPN]
Knob 6	EG- Attack	[NRPN]
Knob 7	EG Decay	[NRPN]
Knob 8	EG Release	[NRPN]
Knob 9	Pitch Bend	[PitchBend]
Knob 10	Modulation	[Controller 1]
Knob 11	Portamento Time	[Controller 5]
Knob 12	Reverb Send Level	[Controller 91]
Knob 13	Chorus Send Level	[Controller 93]
Knob 14	Delay/Var Send Level	[Controller 94]
Knob 15	Pan	[Controller 10]
Knob 16	Volume	[Controller 7]

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Preset 17:	Soundblaster AWE 32/64 1	[NRPN]	(Master channel)	Preset 55	GS Reverb / Chorus	[NRPN] (M	ster Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11 Knob 12 Knob 13 Knob 14 Knob 15 Knob 15 Knob 16	Filter Cutoff Coarse Filter Resonance Coarse Vibrato Rate Coarse (LFO 2) Vibrato Depth Coarse (LFO 2) Vibrato Delay Coarse (LFO 2) Vibrato Delay Coarse (LFO 2) Envelope 1 Attack Time Coarse Envelope 1 Decay Time Coarse Envelope 1 Release Time Coarse Filter Cutoff Fine Filter Resonance Fine Vibrato Rate Fine (LFO 2) Vibrato Depth Fine (LFO 2) Vibrato Delay Fine (LFO 2) Envelope 1 Attack Time Fine Envelope 1 Decay Time Fine Envelope 1 Release Time Fine			Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11 Knob 12 Knob 13 Knob 14 Knob 15 Knob 15	Reverb Preset Reverb Character Reverb Low Pass Filter Reverb Level Reverb Time Reverb Delay Feedback Reverb to Chorus undefined Chorus Preset Chorus Low Pass Filter Chorus Level Chorus Feedback Chorus Delay Chorus Rate Chorus Depth Chorus to Reverb		
Preset 18:	Soundblaster AWE 32/64 2	[NRPN]	(Master channel)	Preset 56	General Control strings	[Sys-Ex / Controller]	(Master Channel)
Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11 Knob 12 Knob 13 Knob 14 Knob 15 Knob 16	LFO 1 Delay Time Coarse LFO 1 Frequency Coarse Envelope 1 Delay Time Coarse Envelope 1 Attack Time Coarse Envelope 1 Hold Time Coarse Envelope 1 Decay Time Coarse Envelope 1 Sustain Level Coarse Envelope 1 Release Time Coarse Envelope 1 Release Time Coarse LFO 1 Delay Time Fine LFO 1 Frequency Fine Envelope 1 Delay Time Fine Envelope 1 Hold Time Fine Envelope 1 Hold Time Fine Envelope 1 Sustain Level Fine Envelope 1 Sustain Level Fine Envelope 1 Release Time Fine			Knob 1 Knob 2 Knob 3 Knob 4 Knob 5 Knob 6 Knob 7 Knob 8 Knob 9 Knob 10 Knob 11 Knob 12 Knob 13 Knob 14 Knob 15 Knob 15	GM Reset GS Reset XG Reset All Sounds Off All Controllers Reset All Notes Off Omni Off Omni On Mono On Poly On undefined undefined undefined undefined undefined undefined undefined undefined	[Sys-Ex] [Sys-Ex Roland] [Sys-Ex Yamaha] [Controller] [Controller] [Controller] [Controller] [Controller] [Controller] [Controller]	
Reset 19:  Knob 1  Knob 2  Knob 3  Knob 4  Knob 5  Knob 6  Knob 7  Knob 8  Knob 9  Knob 10  Knob 11  Knob 12  Knob 13  Knob 14  Knob 15  Knob 16	Soundblaster AWE 32/64 3  LFO 2 Delay Coarse LFO 2 Frequency Coarse Envelope 2 Delay Time Coarse Envelope 2 Attack Time Coarse Envelope 2 Hold Time Coarse Envelope 2 Decay Time Coarse Envelope 2 Sustain Level Coarse Envelope 2 Release Time Coarse LFO 2 Delay Fine LFO 2 Frequency Fine Envelope 2 Delay Time Fine Envelope 2 Hold Time Fine Envelope 2 Hold Time Fine Envelope 2 Sustain Time Fine Envelope 2 Sustain Time Fine Envelope 2 Release Time Fine	[NRPN]	(Master channel)	Preset 57  Knob 1  Knob 2  Knob 3  Knob 4  Knob 5  Knob 6  Knob 7  Knob 8  Knob 9  Knob 10  Knob 11  Knob 12  Knob 13  Knob 14  Knob 15  Knob 16	Rebirth Control  Synth 1 Filter Cutoff Synth 1 Filter Resonance Synth 1 Envelope Mod Synth 1 Decay Synth 2 Filter Cutoff Synth 2 Filter Resonance Synth 2 Envelope Mod Synth 2 Decay Synth 1 Accent Synth 2 Accent Drum BD Tone Drum BD Decay Drum SD Snappy Synth 1 Mix Level Synth 2 Mix Level Drum Mix Level	[Controller] [Controller 25] [Controller 26] [Controller 27] [Controller 28] [Controller 32] [Controller 33] [Controller 34] [Controller 35] [Controller 36] [Controller 36] [Controller 39] [Controller 40] [Controller 43] [Controller 11] [Controller 11]	(Master Channel)

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Note	Preset 52:	XG Effects - Variation	[NRPN]	(Master Channel)	Preset 20:	Soundblaster AWE 32/64 4	[NRPN]	(Master channel)
Semilar   Committee   Commit	Knob 1	Variation Type			Knob 1	Master Tuning Coarse		
Knob   A   Victation Parameter   S   Knob   A   En O zero Pitch Coarse   S   Knob   A   En O zero Pitch Pitch Coarse   S   Knob   A   En O zero Pitch Pitch Pitch Coarse   S   En O zero Pitch P		31						
Krob   Variation Paramete   Krob   Krob   Course   Krob   Krob   Krob   Variation Paramete   Krob   Variation Pa								
None   1	Knob 4	Variation Parameter 3				Envelope 1 to Pitch Coarse		
Knob   Nortican Parameter   1								
Knob   Noristion Parameter   1								
Knob   Variation Parameter   2								
No.   1								
Knob   1								
Knob 12								
Knob 13								
Knob 14   Variation Amount to Chorus   Knob 15   Knob 16   Smelege   10 RBite Cutoff Fine   Smelege   10 RBite Cutoff Coarse   NRPN   Smelege   10 RBite Resonance Coarse   NRP								
No.   1	Knob 14					LFO 1 to Filter Cutoff Fine		
NRPN								
Rob 1	Knob 16	Variation Pan			Knob 16	undefined		
Rob 2   Insert   Parameter   Knob 3   Knob 2   Riter Resonance Coarse   NRPN     Knob 4   Insert   Parameter 3   Knob 3   Knob 4   Reverb Send Coarse   NRPN     Knob 5   Insert   Parameter 6   Knob 6   Risert   Parameter 6   Knob 7   Risert   Parameter 6   Knob 7   Risert   Parameter 7   Knob 8   Risert   Parameter 8   Knob 8   Risert   Parameter 9   Knob 9   Risert   Parameter 9   Knob 10   Risert   Parameter 9   Knob 10   Risert   Parameter 9   Knob 10   Risert   Parameter 10   10	Preset 53:	XG Effects - Insert effect 1	[NRPN]	(Master Channel)	Preset 21:	Soundblaster AWE 32/64 5	[NRPN / Contro	oller] (Master channel)
Rob 2   Insert   Parameter   Knob 3   Knob 2   Riter   Resonance Coarse   NRPN   Knob 3   Knob 4   Insert   Parameter 3   Knob 5   Knob 5   Knob 6   Insert   Parameter 3   Knob 6   Risert   Parameter 6   Knob 7   Risert   Parameter 6   Knob 7   Risert   Parameter 7   Knob 8   Risert   Parameter 8   Knob 8   Risert   Parameter 9   Knob 9   Riter Cutoff Coarse   NRPN   Risert   Parameter 9   Knob 10   Risert   Parameter 10   10   Risert	Knob 1	Insert 1 Type			Knob 1	Filter Cutoff Coarse	[NRPN]	
Ronb   Insert   Parameter   Ronb								
Robo   5   Insert   Parameter   5   Robo   5   Robert   Parameter   5   Robo   6   Portamenter   5   Robo   6   Portamenter   5   Robo   7   Insert   Parameter   6   Robo   7								
Rob 6   Insert   Parameter 5   Rob 6   Robert   Parameter 6   Controller 5   Rob 7   Rob 8   Expression   Controller 1   Rob 8   Expression   Controller 1   Rob 9   Rob 9   Rob 9   Filter Cutoff Coarse   NRPN   Rob 9   Filter Cutoff Coarse   NRPN   Rob 9   Rob 9   Filter Cutoff Coarse   NRPN   Rob 10   Robert   Parameter 9   Rob 10   Rob 11   Rob 11   Rob 11   Rob 12   Rob 11   Rob 12   Rob 12   Rob 13   Rob 13   Rob 14   Rob 14   Rob 15   Rob 14   Rob 15   Rob 15   Rob 15   Rob 16   Rob 16   Rob 16   Rob 17   Rob 18   Rob 19   Rob 18								
Robo 7   Insert 1 Parameter 6   Robo 8   Expression   Controller 8   Robo 9   Insert 1 Parameter 9   Robo 10   Insert 1 Parameter 9   Robo 11   Insert 1 Parameter 10   Robo 10   Insert 1 Parameter 10   Robo 11   Insert 1 Parameter 10   Robo 12   Rever Send Fine   Insert 1 Parameter 11   Robo 13   Insert 1 Parameter 12   Robo 13   Insert 1 Parameter 12   Robo 15   Insert 1 Parameter 14   Robo 15   Insert 1 Parameter 14   Robo 15   Insert 1 Parameter 14   Robo 15   Insert 1 Parameter 15   Robo 16   Insert 1 Parameter 15   Robo 16								
Non								
Rinob 9   Insert 1 Parameter 8   Kinob 9   Filter Cutoff Coarse   INRPN   Kinob 10   Insert 1 Parameter 10   Kinob 11   Insert 1 Parameter 10   Kinob 11   Insert 1 Parameter 10   Kinob 12   Reverb Send Fline   INRPN   Kinob 13   Insert 1 Parameter 12   Kinob 13   Insert 1 Parameter 12   Kinob 13   Insert 1 Parameter 13   Kinob 14   Parameter 15   Kinob 15   Insert 1 Parameter 14   Kinob 15   Insert 1 Parameter 14   Kinob 15   Insert 1 Parameter 15   Kinob 16   Volume   Controller 10   Controller 10								
Knob 10 Insert 1 Parameter 9 Knob 11 Insert 1 Parameter 11 Knob 12 Insert 1 Parameter 11 Knob 12 Insert 1 Parameter 11 Knob 13 Insert 1 Parameter 13 Knob 14 Insert 1 Parameter 13 Knob 15 Insert 1 Parameter 13 Knob 16 Insert 1 Parameter 15 Knob 16 Insert 1 Parameter 15 Knob 16 Insert 1 Parameter 15 Knob 17 Insert 1 Parameter 15 Knob 18 Insert 1 Parameter 15 Knob 19 Insert 1 Parameter 15 Knob 19 Insert 1 Parameter 15 Knob 10 Insert 1 Parameter 15 Knob 10 Insert 1 Parameter 15 Knob 10 Insert 1 Parameter 15 Knob 11 Insert 1 Parameter 15 Knob 12 Insert 1 Parameter 15 Knob 10 Insert 2 Type Knob 2 Insert 2 Parameter 1 Knob 3 Insert 2 Parameter 1 Knob 4 Insert 2 Parameter 1 Knob 4 Insert 2 Parameter 3 Knob 5 Insert 2 Parameter 3 Knob 6 Insert 2 Parameter 5 Knob 6 Insert 2 Parameter 5 Knob 7 Insert 2 Parameter 5 Knob 8 Insert 2 Parameter 5 Knob 9 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 9 Knob 1 Insert 2 Parameter 10 Kno								
Knob 11 Insert 1 Parameter 10 Knob 12 Insert 1 Parameter 11 Knob 13 Insert 1 Parameter 12 Knob 14 Insert 1 Parameter 12 Knob 15 Insert 1 Parameter 13 Knob 16 Insert 1 Parameter 14 Knob 16 Insert 1 Parameter 15 Knob 16 Insert 1 Parameter 15 Knob 16 Insert 1 Parameter 15 Knob 16 Insert 2 Parameter 16 Knob 17 Insert 2 Parameter 17 Knob 18 Insert 2 Parameter 18 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 2 Knob 10 Insert 2 Parameter 3 Knob 10 Insert 2 Parameter 4 Knob 10 Insert 2 Parameter 3 Knob 10 Insert 2 Parameter 4 Knob 10 Insert 2 Parameter 6 Knob 1 Insert 2 Parameter 6 Knob 1 Insert 2 Parameter 6 Knob 1 Insert 2 Parameter 7 Knob 2 Insert 2 Parameter 6 Knob 3 Insert 2 Parameter 6 Knob 4 Insert 2 Parameter 6 Knob 5 Insert 2 Parameter 6 Knob 6 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Knob 12 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 11 Knob 14 Insert 2 Parameter 15 Knob 15 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 16 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 18 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 11 Knob 11 Insert 2 Parameter 11 Knob 12 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 15 Knob 15 Insert 2 Parameter 15 Knob 14 Insert 2 Parameter 15 Knob 15 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 15 Knob 18 Insert 2 Parameter 15 Knob 18 Insert 2 Parameter 15 Knob 18 Insert 2 Parameter 15 Knob 19 Insert 2 Parameter 15 Knob 19 Insert								
Knob 12   Insert 1 Parameter 11   Knob 12   Reverb Send Fine   NRPN     Knob 14   Insert 1 Parameter 12   Knob 15   Insert 1 Parameter 13   Knob 16   Insert 1 Parameter 14   Fortament 16   Knob 15   Insert 1 Parameter 15   Knob 16   Insert 1 Parameter 15   Knob 16   Noth 16   Insert 1 Parameter 15   Knob 16   Volume   Controller 10     Controller 7								h]
Knob 14 Insert 1 Parameter 13 Knob 15 Insert 1 Parameter 15 Knob 15 Pan Controller 0] Controller 7]  Preset 54 XG Effects - Insert effect 2 [NRPN] (Master Channel) Preset 17 - 21 are specific NRPN controllers that control the specified functions on the Sound Blaster AWE 32/64 soundcards.  Knob 1 Insert 2 Type Knob 2 Insert 2 Parameter 1 Knob 3 Insert 2 Parameter 2 Knob 4 Insert 2 Parameter 3 Knob 5 Insert 2 Parameter 3 Knob 6 Insert 2 Parameter 4 Knob 1 Insert 2 Parameter 5 Knob 1 Insert 2 Parameter 5 Knob 1 Insert 2 Parameter 6 Knob 1 Insert 2 Parameter 6 Knob 1 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 10 Knob 14 Insert 2 Parameter 10 Knob 15 Insert 2 Parameter 11 Knob 16 Insert 2 Parameter 12 Knob 16 Insert 2 Parameter 10 Knob 17 Insert 2 Parameter 10 Knob 18 Insert 2 Parameter 10 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 14 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 18 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 11 Knob 14 Insert 2 Parameter 11 Knob 15 Insert 2 Parameter 18 Knob 16 Insert 2 Parameter 18 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 18 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Pa		Insert 1 Parameter 11			Knob 12		[NRPN]	
Knob 15 Insert 1 Parameter 14								
Knob 16 Insert 1 Parameter 15  Preset 54 XG Effects - Insert effect 2 [NRPN] (Master Channel)  Preset 17 - 21 are specific NRPN controllers that control the specified functions on the Sound Blaster AWE 32/64 soundcards.  Knob 1 Insert 2 Type Knob 2 Insert 2 Parameter 1 Knob 3 Insert 2 Parameter 2 Knob 4 Insert 2 Parameter 3 Knob 5 Insert 2 Parameter 3 Knob 5 Insert 2 Parameter 4 Knob 5 Insert 2 Parameter 5 Knob 6 Insert 2 Parameter 6 Knob 8 Insert 2 Parameter 6 Knob 8 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 8 Knob 11 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 10 Knob 14 Insert 2 Parameter 12 Knob 15 Insert 2 Parameter 12 Knob 16 Insert 2 Parameter 12 Knob 16 Insert 2 Parameter 13 Knob 16 Insert 2 Parameter 16 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 11 Knob 14 Insert 2 Parameter 12 Knob 15 Insert 2 Parameter 12 Knob 16 Insert 2 Parameter 13 Knob 16 Insert 2 Parameter 16 Knob 16 Insert 2 Parameter 17 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 10 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 10 Knob 14 Insert 2 Parameter 10 Knob 15 Insert 2 Parameter 11 Knob 16 Insert 2 Parameter 11 Knob 17 Insert 2 Parameter 12 Knob 18 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter								
Preset 54  XG Effects - Insert effect 2  [NRPN] (Master Channel)  Knob 1  Insert 2 Type Knob 2  Insert 2 Parameter 1 Knob 3  Insert 2 Parameter 2 Knob 4  Insert 2 Parameter 3 Knob 4  Insert 2 Parameter 3 Knob 6  Insert 2 Parameter 4 Knob 6  Insert 2 Parameter 6 Knob 8  Insert 2 Parameter 6 Knob 9  Insert 2 Parameter 8 Knob 1  Insert 2 Parameter 8 Knob 1  Insert 2 Parameter 9 Knob 1  Insert 2 Parameter 10 Knob 1  Insert 2 Paramete								
Knob 1 Insert 2 Type Knob 2 Insert 2 Parameter 1 Knob 3 Insert 2 Parameter 2 Knob 4 Insert 2 Parameter 3 Knob 4 Insert 2 Parameter 3 Knob 4 Insert 2 Parameter 3 Knob 5 Insert 2 Parameter 4 Knob 6 Insert 2 Parameter 5 Knob 7 Insert 2 Parameter 6 Knob 8 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 10 Knob 14 Insert 2 Parameter 10 Knob 15 Insert 2 Parameter 13 Knob 16 Insert 2 Parameter 13 Knob 16 Insert 2 Parameter 13 Knob 17 Insert 2 Parameter 13 Knob 18 Insert 2 Parameter 14 Knob 19 Insert 2 Parameter 15 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 11 Knob 14 Insert 2 Parameter 15 Knob 15 Insert 2 Parameter 16 Knob 16 Insert 2 Parameter 16 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 18 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 11 Knob 12 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 14 Knob 14 Insert 2 Parameter 15 Knob 15 Insert 2 Parameter 16 Knob 16 Insert 2 Parameter 16 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 18 Knob 19 Insert 2 Parameter 18 Knob 10 Insert 2 Parameter 18 Knob 10 Insert 2 Parameter 19 Knob 15 Insert 2 Parameter 19 Knob 16 Insert 2 Parameter 16 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 10 Ins	Knob 16	Insert 1 Parameter 15						
Ringert 2 Parameter 1   Ringert 2 Parameter 2   Ringert 2 Parameter 3   Preset 22: GS/KG Drum Pan   [NRPN] (Master channel)		XG Effects - Insert effect 2	[NRPN]	(Master Channel)		are specific NRPN controllers that control th	e specified functions	on the Sound Blaster AWE 32/64
Richard Standard   Richard   Richard Standard   R					Preset 22:	GS/XG Drum Pitch	[NRPN]	(Master channel)
Richard 2   Parameter 2   Parameter 3   Preset 24: GS/XG Drum Pan [NRPN] (Master channel)								,
Knob 5 Insert 2 Parameter 4 Insert 2 Parameter 5 Preset 26: GS/XG Drum Chorus Send [NRPN] (Master channel) Knob 6 Insert 2 Parameter 5 Knob 7 Insert 2 Parameter 6 Knob 8 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Knob 12 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 13 Knob 16 Insert 2 Parameter 14 Knob 17 Insert 2 Parameter 15 Knob 18 Insert 2 Parameter 16 Knob 19 Insert 2 Parameter 17 Knob 10 Insert 2 Parameter 18 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Insert 2 Parameter 17 Knob 19 Insert 2 Parameter 18 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 10 Knob 14 Insert 2 Parameter 10 Knob 15 Insert 2 Parameter 10 Knob 16 Insert 2 Parameter 10 Knob 17 Insert 2 Parameter 10 Knob 18 Insert 2 Parameter 10 Knob 18 Insert 2 Parameter 10 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10					Preset 24:	GS/XG Drum Pan		,
Knob 6 Insert 2 Parameter 5 Knob 7 Insert 2 Parameter 6 Knob 8 Insert 2 Parameter 7 Knob 8 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 11 Knob 12 Insert 2 Parameter 12 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Insert 2 Parameter 17 Knob 19 Insert 2 Parameter 18 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 10 Knob 14 Insert 2 Parameter 10 Knob 15 Insert 2 Parameter 10 Knob 16 Insert 2 Parameter 10 Knob 17 Insert 2 Parameter 10 Knob 18 Insert 2 Parameter 10 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 P		Insert 2 Parameter 4					[NRPN]	(Master channel)
Knob 7 Insert 2 Parameter 6 Knob 8 Insert 2 Parameter 7 Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 11 Knob 12 Insert 2 Parameter 12 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 10 Knob 10 Conga Knob 10 Conga Knob 11 Timbale Knob 11 Hi-Hat Knob 12 Hi Q Knob 12 Hi-Hat Knob 12 Hi Q Knob 13 Knob 14 Finger Snap Knob 14 Finger Snap Knob 15 Click Noise								,
Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 12 Knob 15 Insert 2 Parameter 13 Knob 16 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Insert 2 Parameter 17 Knob 19 Insert 2 Parameter 18 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 11 Knob 12 Insert 2 Parameter 12 Knob 13 Insert 2 Parameter 13 Knob 14 Insert 2 Parameter 14 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Insert 2 Parameter 17 Knob 19 Insert 2 Parameter 18 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 10 I					Preset 27:	GS/XG Drum Delay/Var. Send	[NRPN]	(Master channel)
Knob 9 Insert 2 Parameter 8 Knob 10 Insert 2 Parameter 9 Knob 11 Insert 2 Parameter 9 Reverb Send, Chorus Send or Delay/Var. Send depending on the preset selected.  Knob 12 Insert 2 Parameter 11 Knob 12 Insert 2 Parameter 12 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Knob 19 Bongo Knob 19 Bongo Knob 10 Conga Knob 10 Knob 10 Conga Knob 10 Knob 10 Knob 11 Timbale Knob 11 Timbale Knob 12 Hi-Hat Knob 12 Hi-Hat Knob 12 Hi-Hat Knob 12 Hi-Hat Knob 13 Seq Click Knob 5 Hand Clap Knob 13 Seq Click Knob 6 Rim Shot Knob 14 Finger Snap Knob 15 Click Noise	Knob 8	Insert 2 Parameter 7			Presets 22 ~ 27	control the drum kit, which would normally	require the master (	hannel to be set to channel 10. The
Reverb Send, Chorus Send or Delay/Var. Send depending on the preset selected.  Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 11 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 16 Knob 18 Knob 19 Bongo Knob 10 Knob 10 Conga Knob 10 Knob 10 Timbale Knob 11 Timbale Knob 12 Hi-Hat Knob 13 Fand Clap Knob 14 Finger Snap Knob 15 Knob 16 Rim Shot Knob 16 Knob 16 Knob 17 Crash Cymbal Knob 17 Crash Cymbal								
Knob 12 Insert 2 Parameter 10 Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 17 Insert 2 Parameter 18 Knob 18 Insert 2 Parameter 19 Knob 19 Insert 2 Parameter 19 Knob 10 Insert 2 Parameter 10 Knob 10 Insert 2 Parameter 10 Knob 11 Insert 2 Parameter 10 Knob 12 Insert 2 Parameter 13 Knob 14 Insert 2 Parameter 14 Knob 15 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 16 Knob 17 Knob 18 Knob 18 Knob 18 Finger Snap Knob 18 Knob 18 Knob 18 Knob 18 Finger Snap Knob 19 Knob 18 Knob 18 Knob 18 Finger Snap Knob 19 Knob 18 Knob 18 Knob 18 Finger Snap Knob 19 Knob 19 Knob 18 Finger Snap Knob 19 Knob 19 Knob 18 Finger Snap Knob 19 Kn								F,,,,
Knob 13 Insert 2 Parameter 12 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 15 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 16 Knob 17 Fass Didn's Knob 18 Forum Knob 10 Conga Knob 10 Tom Knob 10 Timbale Knob 10 Tom Knob 11 Timbale Knob 12 Hi Q Knob 15 Fass Didn's Knob 10 Conga Knob 14 Finder Some Knob 15 Tom Knob 10 Tom Knob 10 Tom Knob 12 Hi Q Knob 15 Fass Didn's Knob 10 Conga Knob 15 Tom Knob 10 Tom Knob 10 Conga Knob 15 Tom Knob 12 Hi Q Knob 15 Fass Didn's Knob 10 Conga Knob 15 Tom Knob 10 Conga Knob 10 Conga Knob 10 Conga Knob 15 Tom Knob 10 Conga Knob 10 C						, ,	•	
Knob 14 Insert 2 Parameter 13 Knob 14 Insert 2 Parameter 13 Knob 15 Insert 2 Parameter 14 Knob 16 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 16 Insert 2 Parameter 15 Knob 16 Ring Shot Knob 17 Crash Cymbal Knob 15 Click Noise								
Knob 15 Insert 2 Parameter 14 Knob 15 Insert 2 Parameter 15 Knob 16 Rim Shot Knob 16 Rim Shot Knob 16 Rim Shot Knob 16 Rim Shot Knob 17 Crash Cymbal Knob 17 Crash Cymbal Knob 17 Crash Cymbal Knob 17 Insaed Rim Shot Knob 12 Hi Quad Rim Shot Knob 12 Hi Quad Rim Shot Knob 14 Finger Snap Knob 17 Crash Cymbal Knob 15 Click Noise								
Knob 16 Insert 2 Parameter 15 Knob 5 Hand Clap Knob 13 Seq Click Knob 6 Rim Shot Knob 14 Finger Snap Knob 7 Crash Cymbal Knob 15 Click Noise								
Knob 3 Halid Clap Knob 13-Seq Chek  Knob 6 Rim Shot Knob 14 Finger Snap  Knob 7 Crash Cymbal Knob 15 Click Noise								·k
Knob 7 Crash Cymbal Knob 15 Click Noise								

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Preset 28: Preset 29:	XG Drum Filter Cut Off XG Drum Filter Resonance	[NRPN] [NRPN]	(Master channel) (Master channel)	Preset 49:	XG Effects - EQ	[NRPN]	(Master Channel)
Preset 29:	XG Drum Envelope Attack	[NRPN]	(Master channel)	Knob 1	EQ Gain 1		
Preset 31:			(Master channel)	Knob 2	EQ Gain 1 EQ Frequency 1		
rieset 31.	XG Drum Envelope Decay	[NRPN]	(Master Chaimer)	Knob 3			
Presets 28 ~ 31	control the drum kit, which would norma	ally require the master	channel to be set to channel 10. The		EQ Q1		
knobs all relate t	to the same drums on these presets as show	wn above with each n	reset controlling Filter Cut Off Filter	Knob 4	EQ Gain 2		
	elope Attack or Envelope Decay dependin			Knob 5	EQ Frequency 2		
reconunce, Enve	clope retuck of Envelope Decay depending	g on the preser serecte	u.	Knob 6	EQ Q2		
Preset 32:	XG Multi-Part Volume Level	[NRPN]	(Channels 1 -16)	Knob 7	EQ Gain 5		
Preset 33:	XG Multi-Part Pan	[NRPN]	(Channels 1 -16)	Knob 8	EQ Frequency 5		
Preset 34:	XG Multi-Part Reverb Send	[NRPN]	(Channels 1 -16)	Knob 9	EQ Gain 3		
Preset 35:	XG Multi-Part Chorus Send	[NRPN]	(Channels 1 -16)	Knob 10	EQ Frequency 3		
Preset 36:	XG Multi-Part Dry Level	[NRPN]	(Channels 1 -16)	Knob 11	EQ Q3		
Preset 37:	XG Multi-Part Variation Send	[NRPN]	(Channels 1 -16)	Knob 12	EQ Gain 4		
Preset 38:	XG Multi-Part Low EQ Gain	[NRPN]	(Channels 1 -16)	Knob 13	EQ Frequency 4		
Preset 39:	XG Multi-Part Low EQ Frequency	[NRPN]	(Channels 1 -16)	Knob 14	EQ Q4		
Preset 40:	XG Multi-Part High EQ Gain	[NRPN]	(Channels 1 -16)	Knob 15	EQ Q5		
Preset 41:	XG Multi-Part High EQ Frequency	[NRPN]	(Channels 1 -16)	Knob 16	EQ Type		
			100	Preset 50:	XG Effects - Reverb	[NRPN]	(Master Channel)
Presets 32 ~ 41 c	control the XG parts, with each knob control	olling the correspondi	ng MIDI channel. Each preset controls	i ieset ju.	AG Energ - Mevelb	[INIXE IN]	(IVIANCI CHAIIIICI)
	ne, pan, reverb send, chorus send, dry level	i, variation effect send,	iow eq gain, iow eq frequency, high eq	Knob 1	Reverb Type		
gain or high eq f	frequency.			Knob 2	Reverb Parameter 1		
Preset 42:	XG Multi-Part Effects	[Cree Err]	(Master Channel)	Knob 2	Reverb Parameter 2		
rieset 42.	AG Multi-Part Effects	[Sys-Ex]	(Master Chamber)	Knob 4	Reverb Parameter 3		
Knob 1	High EQ Frequency			Knob 4 Knob 5	Reverb Parameter 4		
Knob 2	Low EQ Frequency			Knob 6	Reverb Parameter 5		
Knob 4	Dry			Knob 7	Reverb Parameter 6		
Knob 5	undefined			Knob 7 Knob 8	Reverb Parameter 7		
Knob 6	undefined			Knob 9	Reverb Parameter 8		
Knob 7	undefined			Knob 10	Reverb Parameter 9		
Knob 8	undefined			Knob 11	Reverb Parameter 10		
Knob 9	Hi Eq Gain			Knob 12	Reverb Parameter 11		
Knob 10	Low Eq Gain						
Knob 10 Knob 11	undefined			Knob 13	Reverb Parameter 13		
Knob 12	Reverb			Knob 14	Reverb Parameter 15		
Knob 12 Knob 13	Chorus			Knob 15	Reverb Return		
Knob 13	Variation			Knob 16	Reverb Pan		
Knob 14 Knob 15	Pan			D 51.	VC Effects Channel	INIDDATI	(Martin Channel)
Knob 16	Level			Preset 51:	XG Effects - Chorus	[NRPN]	(Master Channel)
11100 10	Level			Knob 1	Chorus Type		
Preset 42 offers	general effects control for an XG instrum	ent.		Knob 2	Chorus Parameter 1		
·				Knob 2 Knob 3	Chorus Parameter 2		
Preset 43:	XG A/D & Wave Level	[NRPN]	(Master Channel)	Knob 4	Chorus Parameter 3		
Preset 44:	XG A/D & Wave Pan	[NRPN]	(Master Channel)	Knob 4 Knob 5	Chorus Parameter 4		
Preset 45:	XG A/D & Wave Reverb Send	[NRPN]	(Master Channel)	Knob 6	Chorus Parameter 6		
Preset 46:	XG A/D & Wave Chorus Send	[NRPN]	(Master Channel)	Knob 7	Chorus Parameter 7		
Preset 47:	XG A/D & Wave Variation Send	[NRPN]	(Master Channel)	Knob 8	Chorus Parameter 8		
Preset 48:	XG A/D & Wave Dry Level	[NRPN]	(Master Channel)	Knob 9	Chorus Parameter 9		
Dragata 49 40	control the A/D inputs 1 and 9 as well and	ha 19 maya ahamada -	n relevant Vamaha saural anda Thana	Knob 10	Chorus Parameter 10		
	control the A/D inputs 1 and 2 as well as the			Knob 10 Knob 11	Chorus Parameter 11		
reievant controls	s are shown below. Note that knobs 15 and	u 10 nave no defined i	unction for these presets.	Knob 12	Chorus Parameter 12		
	Knob 1 A/D Input 1	Knob 8 W6		Knob 12	Chorus Parameter 13		
	Knob 2 A/D Input 2	Knob 9 W7		Knob 14	Chorus Amount to Reverb		
	Knob 3 W1	Knob 10 W8		Knob 14 Knob 15	Chorus Return		
	Knob 4 W2	Knob 11 W9		Knob 16	Chorus Return Chorus Pan		
	Knob 4 WZ Knob 5 W3			VIIOD 10	CHOIUS Pall		
		Knob 12 W10					
	Knob 6 W4	Knob 13 W11					
	Knob 7 W5	Knob 14 W12					
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