POD Midi / Sysex Specification and Notes

Ver 1.00 01/22/99

SYSTEM EXCLUSIVE FORMAT:

POD's System Exclusive message format is as follows:

F0	SysEx Status
00 01 0C	Line 6 (Fast Forward) Manufacturer ID
01	POD ID
xx	Opcode
yy	Data
F7	EOX

UNIVERSAL DEVICE INQUIRY:

POD will respond to the universal system inquiry command if the channel received is the same as POD's MIDI channel, the channel received is 7F (all channels), or POD is set to omni mode. The received message is in the following format:

F0 7E <chan> 06 01 F7 System inquiry message

If <chan> = 7F (Universal All Device Call) POD will respond with the channel also set to 7F.

POD's reply to Universal Device Inquiry

F0 7E <chan> 06 02	Universal Device Inquiry Response
00 01 0C	Line 6 (Fast Forward) Manufacturer ID
00 00	0x0000 = POD Product Family ID (LSB first)
00 01	0x0100 = POD Product Family Member (LSB first)
xx xx xx xx	Software revision, ASCI (ex. 30 31 30 30 = '0100' = 1.00)
F7	EOX

DATA DUMP FORMAT:

POD sends and receives Program and Global dump data in ***High-Low Nibbilized*** format. Data Locations in the dump are described later in this document with reference to ONE POD Byte.

ONE POD BYTE (8 bits):
0: A7 A6 A5 A4 A3 A2 A1 A0

TRANSMITTED and RECEIVED AS:
0: 00 00 00 00 A7 A6 A5 A4
1: 00 00 00 00 A3 A2 A1 A0

SYSTEM EXCLUSIVE OPCODES:

00 SYSEX DATA DUMP REQUEST:

Type:

00: Program Dump Request
0xF0 0x00 0x01 0x0C 0x01 **0x00 0x00** <program #> 0xF7
<program #> = 0x00 ~ 0x23 (1A ~ 9D internal programs)
POD responds with Program Dump (01 00)

01: Program Edit Buffer Dump Request
0xF0 0x00 0x01 0x0C 0x01 **0x00 0x01** 0xF7
POD responds with Program Edit Buffer Dump (01 01)

02: All Programs Dump Request
0xF0 0x00 0x01 0x0C 0x01 **0x00 0x02** 0xF7
POD responds by sending an All Program Dump (01 02)

01 SYSEX DATA DUMP:

Type:

00: Program Dump
0xF0 0x00 0x01 0x0C 0x01 **0x01 0x00** <program #> <data> 0xF7
<program #> = 0x00 ~ 0x23 (1A ~ 9D internal programs)
<data> = 144 bytes nibbilized (72 actual data bytes)

01: Program Edit Buffer Dump
0xF0 0x00 0x01 0x0C 0x01 **0x01 0x01** <data> 0xF7
<data> = 1 Program = 144 bytes nibbilized (72 actual data bytes)

02: All Programs Dump
0xF0 0x00 0x01 0x0C 0x01 **0x01 0x02** <data> 0xF7
<data> = All Programs = 5184 bytes nibbilized (2592 actual data bytes)

PROGRAM DATA:

GROUP	PARAMETER	MIDI CONTROLLER EDITING				POD DATA DUMP				
		Special Notes	Edit	CC Range		Byte		Bit Field		Data Format Notes
			CC#	Min	Max	Addr.	Bits	MSb	LSb	
VERSION	Dump Version					0	7	6	0	range = 0~127
SWITCHES	Distortion Enabled	(0~63=Off ; 64~127=On)	25	0	127	1	1	0	0	
	Drive Enabled	(0~63=Off ; 64~127=On)	26	0	127	2	1	0	0	
	EQ Enabled (Presence Bump)	(0~63=Off ; 64~127=On)	27	0	127	3	1	0	0	
	Delay Enabled	(0~63=Off ; 64~127=On)	28	0	127	4	1	0	0	
	Tremolo Rotary Speaker Chorus Flange Enabled	(0~63=Off ; 64~127=On)	50	0	127	5	1	0	0	
	Reverb Enabled	(0~63=Off ; 64~127=On)	36	0	127	6	1	0	0	
	Noise Gate Enabled	(0~63=Off ; 64~127=On)	22	0	127	7	1	0	0	
	Bright Switch	(0~63=Off ; 64~127=On) only for some amps (see Amp Model Type Table)	73	0	127	8	1	0	0	
PREAMP	Amp Model	(see Amp Model Type Table)	12	0	27	9	6	5	0	
	Drive		13	0	127	10	6	5	0	
	Drive 2	(only used if Amp Type == POD Layer) (see Amp Model Type Table)	20	0	127	11	6	5	0	
	Bass		14	0	127	12	6	5	0	
	Mid		15	0	127	13	6	5	0	
	Treble		16	0	127	14	6	5	0	
	Presence	only for some amps (see Amp Model Type Table)	21	0	127	15	6	5	0	
	Chan Vol		17	0	127	16	6	5	0	
NOISE GT	Threshold		23	0	127	17	6	5	0	
	Decay Time		24	0	127	18	6	5	0	
WAH WAH	Level		4	0	127	19	7	6	0	
	Bottom Frequency		44	0	127	20	7	6	0	
	Top Frequency		45	0	127	21	7	6	0	
	Delta	(TopFreq – BottomFreq)				22	7	6	0	internal POD parameter only
VOL.PEDAL	Level	Position of Vol. Pedal	7	0	127	23	7	6	0	
	Minimum	Min. Level of Pedal	46	0	127	24	7	6	0	
	Position	0~63 = Pre-Tube Drive 64~127 =Post-Tube Drive	47	0	127	25	1	0	0	
DELAY	Delay Type	0~63=Mono; 64~127=Stereo	29	0	127	26	1	0	0	
	Time Left Coarse		30	0	127	27	8	7	0	Stored 17bit Delay Time Left =
	Time Left Fine		62	0	127	28	8	7	0	(14bit CC Edit Value * 6)
						29	1	0	0	LSB justified
						30				
	Time Right MSB		31	0	127	31	8	7	0	Stored 17bit Delay Time Left =
	Time Right LSB		63	0	127	32	8	7	0	(14bit CC Edit Value * 6)
						33	1	0	0	LSB justified
						34				
	FeedBack Left		32	0	127	35	6	5	0	
	FeedBack Right		33	0	127	36	6	5	0	
	Level Left		34	0	127	37	6	5	0	
	Level Right		35	0	127	38	6	5	0	
REVERB	Reverb Type	0~63=Hall;64~127=Spring	37	0	127	39	1	0	0	
	Decay		38	0	127	40	6	5	0	
	Tone		39	0	127	41	6	5	0	
	Diffusion		40	0	127	42	6	5	0	
	Density		41	0	127	43	6	5	0	
	Level		18	0	127	44	6	5	0	
CAB SIM.	Cabinet Type	see CabSim Type Table	71	0	15	45	4	3	0	
	Air		72	0	127	46	6	5	0	
FX CONFIG	Effects Select	see Effects Type Table	19	0	15	47	4	3	0	
	Effects Tweak		1	0	127	48	6	5	0	

FX UNION	*The following FX parameters occupy common space, usage is dependent upon Effects Select*									
SWELL	Attack Time		49	0	127	49	6	5	0	
COMP.	Compression Ratio	0-21=off 22-44=1.4:1 45-67=2:1 68-90=3:1 91-113=6:1 114-127= infinity:1	42	0	127	49	3	2	0	
CHORUS	Speed		51	0	127	49	8	7	0	Stored 13bit Value =
						50	5	4	0	(CC Edit Value * 50)
	Depth		52	0	127	51	8	7	0	Stored 9bit Value =
						52	1	0	0	(CC Edit Value * 256 / 104)
	Feedback		53	0	127	53	7	6	0	
	Pre Delay		54	0	127	54	8	7	0	Stored 10bit Value =
						55	2	1	0	(CC Edit Value * 256 / 42)
FLANGER	Speed		51	0	127	49	8	7	0	Stored 13bit Value =
						50	5	4	0	(CC Edit Value * 50)
	Depth		52	0	127	51	8	7	0	Stored 9bit Value =
						52	1	0	0	(CC Edit Value * 256 / 104)
	Feedback		53	0	127	53	7	6	0	
ROTARY	Current Speed	0~63=Slow;64~127=Fast	55	0	127	49	1	0	0	
	Fast Speed		56	0	127	50	8	7	0	Stored 12 bit Value =
						51	4	3	0	(CC Edit Value * 22)+100
	Slow Speed		57	0	127	52	8	7	0	Stored 12 bit Value =
						53	4	3	0	(CC Edit Value * 2900/128)+100
TREMOLO	Speed		58	0	127	49	8	7	0	Stored 12 bit Value =
						50	4	3	0	(CC Edit Value * 25)
	Depth		59	0	127	51	7	6	0	
END FX UNION	*end of FX parameter union*									
NAME	Program Name	character 1				56	7	6	0	ASCII
		character 2				57	7	6	0	ASCII
		character 3				58	7	6	0	ASCII
		character 4				59	7	6	0	ASCII
		character 5				60	7	6	0	ASCII
		character 6				61	7	6	0	ASCII
		character 7				62	7	6	0	ASCII
		character 8				63	7	6	0	ASCII
		character 9				64	7	6	0	ASCII
		character 10				65	7	6	0	ASCII
		character 11				66	7	6	0	ASCII
		character 12				67	7	6	0	ASCII
		character 13				68	7	6	0	ASCII
		character 14				69	7	6	0	ASCII
		character 15				70	7	6	0	ASCII
		character 16				71	7	6	0	ASCII

Amp Model Parameter Table:

AMP MODEL	POD Panel	CC Value (in/out)	Drive 2 ?	Bright Switch?	Presence ?
Tube Preamp	0	0			Y
POD Clean	1	1		Y	Y
POD Crunch	2	2		Y	Y
POD Drive	3	3		Y	Y
POD Layer	4	4	Y	Y	Y
Small Tweed	5	5			
Tweed Blues	6	6			Y
Black Panel	7	7			
Modern Class A	8	8			Y
Brit Class A	9	9			
Brit Blues	10	10		Y	Y
Brit Classic	11	11			Y
Brit Hi Gain	12	12			Y
Rectified	13	13			Y
Modern Hi Gain	14	14			
Fuzz Box	15	15			Y
Jazz Clean	n/a	16		Y	Y
Boutique 1	n/a	17			Y
Boutique 2	n/a	18			
Brit Class A 2	n/a	19			
Brit Class A 3	n/a	20			
Small Tweed 2	n/a	21			
Black Panel 2	n/a	22		Y	
Boutique 3	n/a	23			Y
California Crunch 1	n/a	24		Y	Y
California Crunch 2	n/a	25			Y
Rectified 2	n/a	26			Y
Modern Hi Gain 2	n/a	27			Y

Cabinet Type Parameter Table:

CABINET TYPE	Controller / Internal Value
1 x 8 '60 Fender Tweed Champ	0
1 x 12 '52 Fender Tweed Deluxe	1
1 x 12 '60 Vox AC15	2
1 x 12 '64 Fender Blackface Deluxe	3
1 x 12 '98 Line6 Flextone	4
2 x 12 '65 Fender Blackface Twin	5
2 x 12 '67 VOX AC30	6
2 x 12 '65 Matchless Chieftain	7
2 x 12 '98 POD Custom 2x12	8
4 x 10 '59 Fender Bassman	9
4 x 10 '98 POD Custom 4x10	10
4 x 12 '96 Marshall with V30s	11
4 x 12 '78 Marshall with stock 70	12
4 x 12 '97 Marshall off axis	13
4 x 12 '98 POD Custom 4x12	14
No Cabinet Emulation	15

Effects Select Type Parameter Table:

EFFECTS TYPE SELECT	Controller / Internal Value
Compressor	11
Tremolo	9
Chorus 1	8
Chorus 2	0
Flanger 1	1
Flanger 2	3
Rotary Speaker	2
Delay	6
Delay / Compressor	7
Delay / Chorus 1	4
Delay / Chorus 2	12
Delay / Flanger 1	13
Delay / Flanger 2	15
Delay / Tremolo	5
Delay / Swell	14
Bypass	10