

KORG

SV2

STAGE VINTAGE PIANO

MIDI Implementation

SECTION A. MIDI IMPLEMENTATION

1. TRANSMITTED DATA

1-1. CHANNEL MESSAGES

[H]:Hex, [D]:(Decimal)

Status	Second		Third		Description	
[H]	[H]	[D]	[H]	[D]		
8n	kk	kk	vv	vv	Note Off	*1
9n	kk	kk	vv	vv	Note On (vv)=1-127	*1
Bn	00	(00)	mm	mm	Bank Select (MSB) (Sound/Favorite change)	*2
Bn	01	(01)	vv	vv	Modulation	*3
Bn	02	(01)	vv	vv	Breath	*4
Bn	05	(05)	vv	vv	Portamento Time	*3
Bn	06	(06)	vv	vv	Data Entry (MSB)	*3
Bn	0B	(11)	vv	vv	Expression	*4
Bn	20	(32)	bb	bb	Bank Select(LSB) (Sound/Favorite change)	*2
Bn	26	(38)	vv	vv	Data Entry (LSB)	*3
Bn	40	(64)	vv	vv	Hold1 (Damper)	
Bn	41	(65)	vv	vv	Portamento	*3
Bn	42	(66)	00-7F	(0-127)	Sostenuto On/Off (Sostenuto)	
Bn	43	(67)	00-7F	(0-127)	Soft Pedal (Soft)	*4
Bn	47	(71)	40	(64)	Harmonic content	*3
Bn	48	(72)	40	(64)	Release time	*3
Bn	49	(73)	40	(64)	Attack time	*3
Bn	4A	(74)	40	(64)	Brightness	*3
Bn	4B	(75)	40	(64)	Decay time	*3
Bn	4C	(76)	40	(64)	Vibrato rate	*3
Bn	4D	(77)	40	(64)	Vibrato depth	*3
Bn	4E	(78)	40	(64)	Vibrato delay	*3
Bn	64	(100)	0r	r	RPN Select (LSB)	*3
Bn	65	(101)	00	0	RPN Select (MSB)	*3
Bn	66	(102)	00/7F	(0/127)	EQUALIZER On/Off	
Bn	67	(103)	00/7F	(0/127)	PRE FX On/Off	
Bn	68	(104)	00/7F	(0/127)	AMPLIFIER On/Off	
Bn	69	(105)	00/7F	(0/127)	MODULATION On/Off	
Bn	70	(106)	00/7F	(0/127)	AMBIENT On/Off	
Bn	71	(107)	00/7F	(0/127)	TOTAL FX On/Off	
Bn	78	(120)	00	0	All Sound Off	*3
Bn	79	(121)	00	0	Reset All Controllers	*3
Bn	7B	(123)	00	0	All Notes Off	*3
Cn	pp	pp	--	--	Program Change (Sound/Favorite change)	*2

n : SV-2 MIDI Channel No. (0-15)

* : See related note in APPENDIX

1-2. SYSTEM COMMON MESSAGES

1-3. SYSTEM REALTIME MESSAGES

[H]:Hex

Status	Description
[H]	
FE	Active Sensing

1-4. SYSTEM EXCLUSIVE MESSAGES

1-4-1. UNIVERSAL SYSTEM EXCLUSIVE MESSAGE (NON REALTIME)

IDENTITY REPLY MESSAGE (DEVICE INQUIRY)

[F0,7E,00,06,02,42,59,01,mm,00,vv,ww,xx,00,F7] 6th byte 42[hex]: KORG ID
 7th byte 59[hex]: SV-2 Series LSB
 8th byte 01[hex]: SV-2 Series MSB
 9th byte mm: 1F[hex] = SV-2 88-keys with speakers
 16[hex] = SV-2 73-keys with speakers
 0F[hex] = SV-2 88-keys without speakers
 06[hex] = SV-2 73-keys without speakers
 11th byte vv: System Version 1st
 12th byte ww: System Version 2nd
 13th byte xx: System Version 3rd
 (i.e. Version 1.0.2: vv=01, ww=00, xx=02)

1-4-2. FILE DUMP

SV-2 implements File Dump protocol as defined in "MIDI 1.0 Detailed Specification" edited by AMEI/MMA.
 See "Section C: File Dump" for details.

1-4-3. MANUFACTURER SPECIFIC SYSTEM EXCLUSIVE MESSAGES

EDITING MESSAGES

[F0,42,30,60,00,...]

Messages beginning with the above sequence of bytes are parameter editing messages.
 See "Section B: Editing messages" for details.

2. RECOGNIZED DATA

2-1. CHANNEL MESSAGES

[H]:Hex, [D]:(Decimal)

Status	Second		Third		Description	
[H]	[H]	[D]	[H]	[D]		
8n	kk	kk	xx	xx	Note Off	
9n	kk	kk	00	(0)	Note Off	
9n	kk	kk	vv	vv	Note On (vv) = 1-127	
An	kk	kk	vv	vv	Poly Key Pressure	*5
Bn	00	(0)	bb	bb	Bank Select (MSB) (Sound/Favorite change)	*2, *7
Bn	01	(1)	vv	vv	Modulation1	
Bn	02	(2)	vv	vv	Modulation2 (Breath)	*6
Bn	06	(6)	vv	vv	Data Entry (MSB)	
Bn	07	(7)	vv	vv	Volume	
Bn	0B	(11)	vv	vv	Expression	
Bn	20	(32)	bb	bb	Bank Select (LSB) (Sound/Favorite change)	*2
Bn	26	(38)	vv	vv	Data Entry (LSB)	
Bn	40	(64)	vv	vv	Hold1 (Damper)	
Bn	42	(66)	00-7F	(0-127)	Sostenuto Off/On	*8
Bn	43	(67)	vv	vv	Soft Pedal	
Bn	64	(100)	0r	r	RPN Select (LSB)	*9
Bn	65	(101)	00	(0)	RPN Select (MSB)	*9
Bn	66	(102)	00-7F	(0-127)	EQUALIZER On/Off (3rd byte: 00-3F (0-63) = off, 40-7F (64-127) = on)	
Bn	67	(103)	00-7F	(0-127)	PRE FX On/Off (3rd byte: 00-3F (0-63) = off, 40-7F (64-127) = on)	
Bn	68	(104)	00-7F	(0-127)	AMPLIFIER On/Off (3rd byte: 00-3F (0-63) = off, 40-7F (64-127) = on)	
Bn	69	(105)	00-7F	(0-127)	MODULATION On/Off (3rd byte: 00-3F (0-63) = off, 40-7F (64-127) = on)	
Bn	70	(106)	00-7F	(0-127)	AMBIENT On/Off (3rd byte: 00-3F (0-63) = off, 40-7F (64-127) = on)	
Bn	71	(107)	00-7F	(0-127)	TOTAL FX On/Off (3rd byte: 00-3F (0-63) = off, 40-7F (64-127) = on)	
Bn	78	(120)	00	(0)	All Sound Off	
Bn	79	(121)	00	(0)	Reset All Controllers	
Bx	7A	(122)	00/7F	(0/127)	Local Control On/Off	*10
Bn	7B	(123)	00	(0)	All Notes Off	
Bn	7C	(124)	00	(0)	Omni Mode Off (as All Notes Off)	*11
Bn	7D	(125)	00	(0)	Omni Mode On (as All Notes Off)	*11
Cn	pp	pp	--	--	Program Change (Sound/Favorite change)	*2
Dn	vv	vv	--	--	Channel Pressure	*5
En	bb	bb	bb	bb	Bender Change	

n : MIDI Channel No. (0 - 15)

* : See related note in APPENDIX

2-2. SYSTEM REALTIME MESSAGES

[H]:Hex

Status	Description
[H]	
FE	Active Sensing

2-3. SYSTEM EXCLUSIVE

2-3-1. UNIVERSAL SYSTEM EXCLUSIVE MESSAGE (NON REALTIME)

IDENTITY REQUEST MESSAGE (DEVICE INQUIRY)
[F0,7E,nn,06,01,F7] 3rd byte nn : = 0-7F

2-3-2. UNIVERSAL SYSTEM EXCLUSIVE MESSAGES (REALTIME)

MASTER FINE TUNE (Control Master Tune (cent) in Global)
[F0,7F,nn,04,03,vv,mm,F7] 3rd byte nn: 0-7F
6th byte vv: Value(LSB)
7th byte mm: Value(MSB)
mm,vv = 20,00:(-50); 40,00:(0); 60,00:(+50)

MASTER COARSE TUNE (Control Transpose (chromatic step) in Global)
[F0,7F,nn,04,04,vv,mm,F7] 3rd byte nn: 0-7F
6th byte vv: Value(LSB)
7th byte mm: Value(MSB)
mm,vv = 34,00:(-12); 40,00:(0); 4C,00:(+12)

2-3-3. FILE DUMP

SV-2 implements File Dump protocol as defined in "MIDI 1.0 Detailed Specification" edited by AMEI/MMA.
See "Section C: File Dump" for details.

2-3-4. MANUFACTURER SPECIFIC SYSTEM EXCLUSIVE MESSAGES

EDITING MESSAGES
[F0,42,30,60,00,...]
Messages beginning with the above sequence of bytes are parameter editing messages.
See "Section B: Editing messages" for details.

3. APPENDIX

3-1. NOTES

*1 : kk range = (28-100) for 73-keys model
 = (21-108) for 88-keys model

*2 : See TABLE 1 and TABLE 2 for Bank and Program numbers of Factory and Favorite Sounds.

*3 : Only transmitted by the "MIDI Panic" function.
Concerning the Registered Parameter Numbers (RPN), the values sent when "MIDI Panic" is performed are the reset values for the following registered parameters:
r = 0 : Pitch Bend Sensitivity
 = 1 : Fine Tune (Detune)
 = 2 : Coarse Tune (Transpose)
 = 5 : Modulation depth range

*4 : Function of a pedal plugged into the "Pedal 2" input:
If the pedal is a "switch"-type pedal, it works as a Soft controller.
If the pedal is a "continuous"-type of pedal, it controls Expression, unless PRE_FX is enabled and set to "VOX Wah", in which case the pedal works as a Breath controller.

*5 : Polyphonic After Touch and Channel Pressure work only on those programs where these parameters are enabled.

*6 : If the Wah effect is selected and Auto/Pedal is ON, the Breath controls the filter.

*7 : Bank Select (MSB) values others than indicated in TABLE 1 and TABLE 2 are ignored.

*8 : If the Rotary effect is selected, Sostenuto controls the rotor's speed.

*9 : Recognized parameter numbers (r) are:

Parameter number (r)	Description
1	Fine Tune (Detune)
2	Coarse Tune (Transpose)

*10: SV-2 performs Local Control On/Off, regardless of the SV-2 MIDI channel

*11: SV-2 implements only Omni Off/Poly mode.
Reception of different modes act as if it has received "All Notes Off" mode message.

3-2. TABLES

TABLE 1: BANK AND PROGRAM NUMBERS FOR FACTORY SOUNDS

[H]:Hex, [D]:(Decimal)

Bank MSB (mm)		Bank LSB (bb)		Program (pp)		FACTORY SOUND	
[H]	[D]	[H]	[D]	[H]	[D]	TYPE	VARIATION
00	(0)	00	(0)	0	(0)	EP1	A.1
				1	(1)		A.2
				2	(2)		A.3
				3	(3)		A.4
				4	(4)		A.5
				5	(5)		A.6
				6	(6)		B.1
				7	(7)		B.2
				8	(8)		B.3
				9	(9)		B.4
				A	(10)		B.5
				B	(11)		B.6
				C	(12)	EP2	A.1
				D	(13)		A.2
				E	(14)		A.3
				F	(15)		A.4
				10	(16)		A.5
				11	(17)		A.6
				12	(18)		B.1
				13	(19)		B.2
				14	(20)		B.3
				15	(21)		B.4
				16	(22)		B.5
				17	(23)		B.6
				18	(24)	PIANO 1	A.1
				19	(25)		A.2
				1A	(26)		A.3
				1B	(27)		A.4
				1C	(28)		A.5
				1D	(29)		A.6
				1E	(30)		B.1
				1F	(31)		B.2
				20	(32)		B.3
				21	(33)		B.4
				22	(34)		B.5
				23	(35)		B.6
				24	(36)	PIANO 2	A.1
				25	(37)		A.2
				26	(38)		A.3
				27	(39)		A.4
				28	(40)		A.5
				29	(41)		A.6
				2A	(42)		B.1
				2B	(43)		B.2
				2C	(44)		B.3
				2D	(45)		B.4
				2E	(46)		B.5
				2F	(47)		B.6
				30	(48)	CLAVIER	A.1
				31	(49)		A.2
				32	(50)		A.3
				33	(51)		A.4
				34	(52)		A.5
				35	(53)		A.6
				36	(54)		B.1
				37	(55)		B.2
				38	(56)		B.3
				39	(57)		B.4
				3A	(58)		B.5
				3B	(59)		B.6
				3C	(60)	OTHER	A.1
				3D	(61)		A.2
				3E	(62)		A.3
				3F	(63)		A.4
				40	(64)		A.5
				41	(65)		A.6
				42	(66)		B.1
				43	(67)		B.2
				44	(68)	B.3	
				45	(69)	B.4	
				46	(70)	B.5	
				47	(71)	B.6	

TABLE 2: BANK AND PROGRAM NUMBER FOR FAVORITE SOUNDS

[H]:Hex, [D]:(Decimal)

Bank MSB (mm)		Bank LSB (bb)		Program (pp)		FAVORITE SOUND	
[H]	[D]	[H]	[D]	[H]	[D]	BANK	NUMBER
00	(0)	40	(64)	00	(0)	A	1
				01	(1)	A	2
				02	(2)	A	3
				03	(3)	A	4
				04	(4)	A	5
				05	(5)	A	6
				06	(6)	A	7
				07	(7)	A	8
				08	(8)	B	1
				09	(9)	B	2
				0A	(10)	B	3
				0B	(11)	B	4
				0C	(12)	B	5
				0D	(13)	B	6
				0E	(14)	B	7
				0F	(15)	B	8
				10	(16)	C	1
				11	(17)	C	2
				12	(18)	C	3
				13	(19)	C	4
				14	(20)	C	5
				15	(21)	C	6
				16	(22)	C	7
				17	(23)	C	8
				18	(24)	D	1
				19	(25)	D	2
				1A	(26)	D	3
				1B	(27)	D	4
				1C	(28)	D	5
				1D	(29)	D	6
				1E	(30)	D	7
				1F	(31)	D	8
				20	(32)	E	1
				21	(33)	E	2
				22	(34)	E	3
				23	(35)	E	4
				24	(36)	E	5
				25	(37)	E	6
				26	(38)	E	7
				27	(39)	E	8
				28	(40)	F	1
				29	(41)	F	2
				2A	(42)	F	3
				2B	(43)	F	4
				2C	(44)	F	5
				2D	(45)	F	6
				2E	(46)	F	7
				2F	(47)	F	8
				30	(48)	G	1
				31	(49)	G	2
				32	(50)	G	3
				33	(51)	G	4
				34	(52)	G	5
				35	(53)	G	6
				36	(54)	G	7
				37	(55)	G	8
				38	(56)	H	1
				39	(57)	H	2
				3A	(58)	H	3
				3B	(59)	H	4
				3C	(60)	H	5
				3D	(61)	H	6
				3E	(62)	H	7
				3F	(63)	H	8

SECTION B. EDITING MESSAGES

1. OVERVIEW

Each editing message has the following structure:

```
F0 42 30 60 00      Header
FUNCTION CODE       1 Byte, specifies the action of the message
PARAMETER ADDRESS   3 Bytes, specifies the object to which the action refers
(OPTIONAL DATA)    Variable number of (optional) bytes, depending on the Function Code and Parameter
                    Address combined. Below in this document, each message and their optional data are
                    described apart.
F7                  End of Message
```

FUNCTION CODE

Possible Function Codes are shown in the following table:

Function Code [H] [D]	Message name	Parameter Access	Parameter data type	Message direction
60 (96)	Change Integer Parameter	R, W, RW	Integer	Received / Transmitted
60 (96)	Change String Parameter	R, W, RW	String	Received / Transmitted
62 (98)	Request Parameter Value	R, RW	Integer / String	Received only
64 (100)	Command	C	(no data)	Received only
65 (101)	Signal	S	(no data)	Transmitted only

PARAMETER ADDRESS

Each editing message refers to a specific parameter through a parameter address. Parameter address is made of 3 bytes: GROUP, ADDR_LSB, ADDR_MSB.

See TABLE 2 for a complete list of all parameter addresses.

PARAMETER DATA TYPE

Most parameters represent data, whose type is either "integer" or "string".

Depending on the parameter data type, either "CHANGE INTEGER PARAMETER" or "CHANGE STRING PARAMETER" message is used to modify the value of that parameter data.

TABLE 2 shows the notation "(string)" for parameter data of type string. By default, any other parameter data type is integer.

PARAMETER ACCESS

TABLE 2 also shows an "Access" property for each parameter.

The "Access" property provides information on which editing message(s) that particular parameter is intended to be used with. It also tells if each parameter data is only readable (R), only writable (W), or both readable and writable (RW).

2. MESSAGE FORMAT DETAILS

CHANGE INTEGER PARAMETER MESSAGE

Received: Change value of a given INTEGER parameter.

Transmitted: When a given INTEGER parameter has been changed.

```
F0 42 30 60 00      Excl Header
60                  Function code
GROUP               Parameter address
ADDR_LSB
ADDR_MSB
DATA_LSB_L          Parameter value
DATA_MSB_L
DATA_LSB_H
DATA_MSB_H
F7
```

Parameter value is a 28-bit number. Negative values are represented in 2's complement.

```
DATA_LSB_L = value & 0x7f
DATA_MSB_L = (value >> 7) & 0x7f
DATA_LSB_M = (value >> 14) & 0x7f
DATA_MSB_M = (value >> 21) & 0x7f
```

This message may only work in conjunction with parameters with "R", "W" or "RW" Access property. This message does not work in conjunction with parameters with "(string)" annotation TABLE 2.

CHANGE STRING PARAMETER MESSAGE

Received: Change value of a given STRING parameter.
Transmitted: When given STRING parameter has been changed.

F0 42 30 60 00 Excl Header
60 Function code
GROUP Parameter address
ADDR_LSB
ADDR_MSB
LENG_LSB string length
LENG_MSB
<ch1> <ch2> .. <ch n-1> ASCII string
00 string terminator
F7

String lenght is a 14-bit number.

LENG_LSB = length & 0x7f
LENG_MSB = (length & 0x3f80) >> 7;

This message may only work in conjunction with parameters with "R", "W" or "RW" Access property.
This message works only in conjunction with parameters with "(string)" annotation TABLE 2.

REQUEST PARAMETER VALUE MESSAGE

Received only: Requires SV-2 to send the current value of a given INTEGER or STRING parameter. SV-2 will reply with either "Change Integer Parameter" or "Change String Parameter" message, depending on the parameter data type.

F0 42 30 60 00 Excl Header
62 Function code
GROUP Parameter address
ADDR_LSB
ADDR_MSB
F7

This message works in conjunction with every parameter with "R" or "RW" Access property.

COMMAND MESSAGE

Received only: Requires SV-2 to perform the specified command.

F0 42 30 60 00 Excl Header
64 Function code
GROUP Parameter address
ADDR_LSB
ADDR_MSB
F7

This message works in conjunction with parameters with "C" Access property.

SIGNAL MESSAGE

Transmitted only: Status change notification.

F0 42 30 60 00 Excl Header
65 Function code
GROUP Parameter address
ADDR_LSB
ADDR_MSB
00
00
F7

This message works in conjunction with parameters with "S" Access property.
Signals may be transmitted at the end of operations on parameters with Access type "C" or "W".

3. APPENDIX

3-1. TABLES

TABLE 1: GROUPS OF PARAMETERS

[H]:Hex, [D]:(Decimal)

GROUP	Description
[H] [D]	
0 (0)	Sound/Favorite
1 (1)	Sound parameters (track parameters, Insert FX on/off, etc.)
2 (2)	Scale parameters/Global parameters
3 (3)	Sound/Favorite load/save signals
4 (4)	General management signals
5 (5)	General management signals
6 (6)	Effects parameters: PRE FX (see "Section D: Effect parameters")
7 (7)	Effects parameters: AMP (see "Section D: Effect parameters")
8 (8)	Effects parameters: EQUALIZER (see "Section D: Effect parameters")
9 (9)	Effects parameters: CABINET (see "Section D: Effect parameters")
A (10)	Effects parameters: MODULATION (see "Section D: Effect parameters")
B (11)	Effects parameters: AMBIENT (see "Section D: Effect parameters")
C (12)	(reserved)
D (13)	Effects parameters: TOTAL FX (see "Section D: Effect parameters")
E (14)	(reserved)
F (15)	Sequencer
10 (16)	General management

TABLE 2: LIST OF ALL PARAMETERS

[H]:Hex, [D]:(Decimal)

GROUP	ADDR_LSB	ADDR_MSB	Range	Access	Parameter	Notes
[D]	[H] [D]	[D]	[D]			
0	0-47 (0-71)	0		R	SOUND name	(string)
0	48-7F (72-127)	0		R	FAVORITE name (from A.1 to G.8)	(string)
0	0-7 (0-7)	1		R	FAVORITE name (from H.1 to H.8)	(string)
0	8 (8)	1	(0/71)	RW	Select(ed) FACTORY SOUND	*1
0	9 (9)	1	(0/63)	RW	Select(ed) FAVORITE SOUND	*2
0	0A (10)	1	(0/5)	RW	PRE FX	*3
0	0B (11)	1	(0/5)	RW	AMP	*4
0	0C (12)	1	(0/10)	RW	CABINET	*5
0	0D (13)	1	(0/5)	RW	MODULATION	*6
0	0E (14)	1	(0/5)	RW	AMBIENT	*7
0	0F (15)	1	(0/1)	RW	TOTAL FX	*8
0	10 (16)	1	(0/100)	RW	Feedback (of AMBIENT Stereo Delay)	
0	11 (17)	1	(0/15)	RW	MIDI channel	
0	12 (18)	1		R	Major Version of the system software	
0	13 (19)	1		R	Minor Version of the system software	
0	14 (20)	1	(0)	R	Build Number of the system software	
0	15 (21)	1	(0/1)	R	Preview on/off	
0	16 (22)	1	(800/6000)	RW	BPM (of AMBIENT Stereo Delay)	*9
0	17 (23)	1	(-1/63)	RW	Destination of Favorite's save operation	*10
0	18 (24)	1	(0/1)	RW	Pedals Calibration mode on/off	
0	19 (25)	1	(0/1)	RW	Factory Restore on/off	
0	1A (26)	1		R	Revision count of the system software	
1	1 (1)	0		W	Save FAVORITE	(string) *11
1	2 (2)	0		C	Compare mode toggle	
1	3 (3)	0	(0/1)	R	Compare mode status on/off	
1	4 (4)	0	(-36/36)	RW	MAIN Track Equalizer (Bass)	
1	17 (23)	0	(-36/36)	RW	LAYER 1 Track Equalizer (Bass)	
1	35 (53)	0	(-36/36)	RW	LAYER 2 Track Equalizer (Bass)	
1	5 (5)	0	(-36/36)	RW	MAIN Track Equalizer (Middle)	
1	18 (24)	0	(-36/36)	RW	LAYER 1 Track Equalizer (Middle)	
1	36 (54)	0	(-36/36)	RW	LAYER 2 Track Equalizer (Middle)	
1	6 (6)	0	(-36/36)	RW	MAIN Track Equalizer (Treble)	
1	19 (25)	0	(-36/36)	RW	LAYER 1 Track Equalizer (Treble)	
1	37 (55)	0	(-36/36)	RW	LAYER 2 Track Equalizer (Treble)	
1	7 (7)	0	(0/1)	RW	MAIN Track Equalizer Bypass on/off	
1	1A (26)	0	(0/1)	RW	LAYER 1 Track Equalizer Bypass on/off	
1	38 (56)	0	(0/1)	RW	LAYER 2 Track Equalizer Bypass on/off	
1	22 (34)	0	(0/1)	RW	MAIN Track FX Bypass on/off	
1	16 (22)	0	(0/1)	RW	LAYER 1 Track FX Bypass on/off	
1	2F (47)	0	(0/1)	RW	LAYER 2 Track FX Bypass on/off	
1	3A (58)	0		RW	MAIN track program change	*12
1	3B (59)	0		RW	LAYER 1 track program change	*12
1	3C (60)	0		RW	LAYER 2 track program change	*12
1	A (10)	0	(0/1)	RW	PRE FX on/off	
1	B (11)	0	(0/1)	RW	AMP (amplifier section)on/off	
1	C (12)	0	(0/1)	RW	CABINET (amplifier section)on/off	
1	D (13)	0	(0/1)	RW	MODULATION on/off	
1	E (14)	0	(0/1)	RW	AMBIENT on/off	
1	F (15)	0	(0/1)	RW	TOTAL FX on/off	
1	3D (61)	0	(0/1)	RW	EQUALIZER on/off	
1	20 (32)	0	(0/127)	RW	MAIN Track volume	
1	14 (20)	0	(0/127)	RW	LAYER 1 Track volume	
1	2D (45)	0	(0/127)	RW	LAYER 2 Track volume	
1	21 (33)	0	(0/1)	RW	MAIN Track mute	
1	15 (21)	0	(0/1)	RW	LAYER 1 Track mute	
1	2E (46)	0	(0/1)	RW	LAYER 2 Track mute	
1	23 (35)	0	(-64/63)	RW	MAIN Track detune	
1	28 (40)	0	(-64/63)	RW	LAYER 1 Track detune	
1	30 (48)	0	(-64/63)	RW	LAYER 2 Track detune	
1	24 (36)	0	(-3/3)	RW	MAIN Track octave transpose	
1	29 (41)	0	(-3/3)	RW	LAYER 1 Track octave transpose	
1	31 (49)	0	(-3/3)	RW	LAYER 2 Track octave transpose	
1	25 (37)	0	(0/1)	RW	MAIN Track damper pedal on/off	
1	2A (42)	0	(0/1)	RW	LAYER 1 Track damper pedal on/off	
1	32 (50)	0	(0/1)	RW	LAYER 2 Track damper pedal on/off	
1	26 (38)	0	(0/1)	RW	MAIN Track pedal 1 on/off	
1	2B (43)	0	(0/1)	RW	LAYER 1 Track pedal 1 on/off	
1	33 (51)	0	(0/1)	RW	LAYER 2 Track pedal 1 on/off	
1	27 (39)	0	(0/1)	RW	MAIN Track pedal 2 on/off	

1	2C	(44)	0	(0/1)	RW	LAYER 1 Track pedal 2 on/off		
1	34	(52)	0	(0/1)	RW	LAYER 2 Track pedal 2 on/off		
1	9	(9)	0	(0/7)	RW	Scale (tuning curve)	*13	
1	1D	(29)	0	(-1/1)	RW	User scale (tuning curve)	*14	
1	10	(16)	0		W	Rename the current FAVORITE	(string)	
1	11	(17)	0	(0/7)	RW	Touch curve	*15	
1	12	(18)	0	(1/127)	RW	Value for touch curve type "Fixed"		
1	13	(19)	0	(0/1)	R	SOUND or FAVORITE changed by edit (1:changed)		
1	1E	(30)	0	(0/1)	RW	Keyboard mode (0: layer , 1: split)		
1	1F	(31)	0	(0/127)	RW	Split point		
2	1	(1)	0	(28/108)	RW	Keyboard note to be tuned		
2	2	(2)	0	(-99/99)	RW	Tuning of the selected note		
2	3	(3)	0		C	Save user scale	*16	
2	4	(4)	0	(6/7)	RW	Destination of User scale's save operation		
2	5	(5)	0		RW	Name to assign to the scale to save	(string)	
2	6	(6)	0		R	Factory scale 1 name	(string)	
2	7	(7)	0		R	Factory scale 2 name	(string)	
2	8	(8)	0		R	Factory scale 3 name	(string)	
2	9	(9)	0		R	Factory scale 4 name	(string)	
2	A	(10)	0		R	Factory scale 5 name	(string)	
2	B	(11)	0		R	Factory scale 6 name	(string)	
2	C	(12)	0		R	User scale 1 name	(string)	
2	D	(13)	0		R	User scale 2 name	(string)	
2	E	(14)	0	(-12/12)	RW	Master transpose		
2	F	(15)	0	(0/1)	RW	Local OFF on/off		
2	11	(17)	0	(-100/100)	RW	Master tuning		
2	20	(32)	0	(0/1)	R	DEMO mode status (0: mode off, 1: mode on)		
2	21	(33)	0	(0/1)	RW	Auto power off function (1: enabled)		
3	0	(0)	0		S	SOUND/FAVORITE entered succesfully		
3	1	(1)	0		S	SOUND/FAVORITE not available		
3	2	(2)	0		S	SOUND/FAVORITE not entered		
3	3	(3)	0		S	SOUND/FAVORITE saved succesfully		
3	4	(4)	0		S	SOUND/FAVORITE not saved		
4	0	(0)	0		S	User scale saved succesfully		
4	1	(1)	0		S	User scale not saved		
4	2	(2)	0		S	Factory restore end		
5	0	(0)	0		S	Editing via system exclusive disabled		
5	1	(1)	0		S	Editing via system exclusive enabled		
6	(see "Section D: Effect parameters")						Parameters for PRE FX effect	
7	(see "Section D: Effect parameters")						Parameters for AMP effect	
8	(see "Section D: Effect parameters")						Parameters for EQUALIZER effect	
9	(see "Section D: Effect parameters")						Parameters for CABINET effect	
10	(see "Section D: Effect parameters")						Parameters for MODULATION effect	
11	(see "Section D: Effect parameters")						Parameters for AMBIENT effect	
12	(reserved)							
13	(see "Section D: Effect parameters")						Parameters for TOTAL effect	
15	0	(0)	0		R	Name of the current demo song	(string)	
16	0	(0)	0		C	Panic reset		

3-2. NOTES

*1 : Values here are the same as Program values explained in "Section A: MIDI Implementation, TABLE 1".

*2 : Values here are the same as Program values explained in "Section A: MIDI Implementation, TABLE 2".

*3 : Enumerated values for parameter "PRE FX" (GROUP=0, ADDR_LSB=10(0AH), ADDR_MSB=1).

Value	Meaning
0	Red Comp
1	Treble Boost
2	U-Vibe
3	Vibrato
4	Tremolo
5	WOX Wah

*4 : Enumerated values for parameter "AMP" (GROUP=0, ADDR_LSB=11(0BH), ADDR_MSB=1).

Value	Meaning
0	Clean
1	Twin
2	Tweed
3	AC30
4	Boutique
5	Organ

*5 : Enumerated values for parameter "CABINET" (GROUP=0, ADDR_LSB=12(0CH), ADDR_MSB=1).
[D]:(Decimal)

Value [D]	Meaning
(0)	Tweed - 1x12
(1)	Tweed - 4x10
(2)	Black - 2x10
(3)	Black - 2x12
(4)	VOX AC15 - 1x12
(5)	VOX AC30 - 2x12
(6)	VOX AD412 - 4x12
(7)	UK H30 - 4x12
(8)	UK T75 - 4x12
(9)	US V30 - 4x12
(10)	Bypass

*6 : Enumerated values for parameter "MODULATION" (GROUP=0, ADDR_LSB=13(0DH), ADDR_MSB=1).

Value	Meaning
0	Classic Chorus
1	Black Chorus
2	Orange Phaser
3	Small Phaser
4	MIX Flanger
5	Rotary

*7 : Enumerated values for parameter "AMBIENT" (GROUP=0, ADDR_LSB=14(0EH), ADDR_MSB=1).

Value	Meaning
0	Room
1	Plate
2	Hall
3	Spring
4	Tape Echo
5	Stereo Delay

*8 : Enumerated values for parameter "TOTAL FX" (GROUP=0, ADDR_LSB=15(0FH), ADDR_MSB=1).

Value	Meaning
0	Stereo Limiter
1	St.MasteringLimtr

*9 : Parameter value is BPM * 20. Eg.: Value = 800 stands for BPM = 40

*10: Values range depends on the access mode: -1/63 when reading, 0/63 when writing. Values in the range 0/63 are the same as Program values explained in "Section A: MIDI Implementation, TABLE 2". Value -1 means that currently selected Sound is a Factory one.

*11: Must carry the name to be assigned to the FAVORITE to save.
Must be preceded by setting a value on parameter address GROUP=0, ADDR_LSB=23(17H), ADDR_MSB=1.

*12: See "Section E: Programs" for a complete reference on the program numbers.

*13: Enumerated values for parameter "Scale (tuning curve)" (GROUP=1, ADDR_LSB=09(09H), ADDR_MSB=0).

Value	Meaning
0	Equal Temperament
1	G.Piano 1 Stretch
2	G.Piano 2 Stretch
3	E.Piano Stretch
4	Electric Grand
5	Upright Stretch
6	User 1
7	User 2

*14: Enumerated values for parameter "User scale (tuning curve)" (GROUP=1, ADDR_LSB=29(1DH), ADDR_MSB=0).

Value	Meaning
-1	Any factory scale
0	User 1 scale
1	User 2 scale

*15: Enumerated values for parameter "Touch" (GROUP=1, ADDR_LSB=17(11H), ADDR_MSB=0).

Value	Meaning
0	Normal
1	Soft 1
2	Soft 2
3	Medium 1
4	Medium 2
5	Hard 1
6	Hard 2
7	Fixed

*16: Must be preceded by setting a value on following two parameters:
GROUP=2, ADDR_LSB=4, ADDR_MSB=0 (Destination of User scale's save operation)
GROUP=2, ADDR_LSB=5, ADDR_MSB=0 (Name to assign to the User scale to save)

SECTION C. FILE DUMP

1. OVERVIEW

SV-2 implements File Dump protocol, with optional handshake, as defined in "MIDI 1.0 Detailed Specification" edited by AMEI/MMA.

File Dump is intended for exchanging Favorite Sounds and/or User Scales (collectively, Resources) between the instrument and an external MIDI device (typically, a computer application).

The external MIDI device has always the role of beginning a File Dump session, by either sending a FILE DUMP REQUEST message to the instrument, which in turn causes the instrument to output a file, or by sending a file to the instrument, starting by the initial FILE DUMP HEADER message and then continuing with the subsequent DATA PACKET messages, up to the final END OF FILE message.

Thanks to the FILE DUMP, SV-2 supports three functions:

BACKUP RESOURCE

Through FILE DUMP REQUEST, to allow an external MIDI device to retrieve one or more Resource(s) from the instrument's internal memory.

RESTORE RESOURCE

Through FILE DUMP, to allow an external MIDI device to transfer one or more Resource(s) into the instrument's internal memory.

SOUND PREVIEW

Through FILE DUMP, to allow an external MIDI device to transfer one sound to the instrument, placing it as currently selected Sound, in order to listen to the sound without affecting current sounds arrangement into the instrument's internal memory.

2. MESSAGE DETAILS

DEVICE ID

The whole FILE DUMP implementation in SV-2 assumes following DeviceIDs:

[H]:Hex, [D]:(Decimal)		
+-----+-----+		
Device ID		Actual device
[H] [D]		
+-----+-----+		
0	(0)	External MIDI device
60	(96)	SV-2
+-----+-----+		

FILE TYPE

FILE DUMP protocol requires that REQUEST and HEADER messages provide a file type information. SV-2 assumes "SV2 " (0x53, 0x56, 0x32, 0x20) as file type.

FILE NAMES

File names provided by FILE DUMP REQUEST and FILE DUMP HEADER messages are meaningful. In fact, thanks to a specific file naming convention, they contribute to determining the function associated to the file transfer.

CONVENTIONAL FILE NAME FOR "BACKUP RESOURCE" FUNCTION

The file name included into a FILE DUMP REQUEST message specifies which resource it is intended to be transferred. As SV-2 stores resources into its internal Resource Locations, file name represents one (or more) Location(s). A Location is made of three numbers, said "Family", "Bank" and "Position".

See TABLE 1 for a list of Locations and associated Resources. The format of a file name is, in general:

FxByPz.SV2

where x, y and z are the decimal values of Family, Bank and Position converted to ASCII.

For example, in order to transfer the Favorite Sound "A-1", the file name is: "F16B6P0.SV2".

"Fx", "By" and "Pz" tokens may appear multiple times in a file name, allowing to group multiple resources into a single file. For example, in order to transfer the 4 Resources located in:

Family=3, Bank=4, Position=6 (Resource 1)
 Family=16, Bank=6, Position=0 (Resource 2)
 Family=16, Bank=7, Position=0 (Resource 3)
 Family=16, Bank=7, Position=1 (Resource 4)

the file name would be:

"F3B4P6F16B6P0B7P0P1.SV2"

and the resulting file would have 4 resources inside.

As you may have noticed from the above example, the last occurrences of "Fx" and "By" take place as default values when "Fx" and "By" are not specified by subsequent "By" and "Pz" tokens.

The above rules of file naming only allow to select the exact resources you want to backup. Regardless of the file name, the original Resource Location of each resource is stored into the file itself, and will be preserved when performing the RESTORE RESOURCE function.

CONVENTIONAL FILE NAME FOR "RESTORE RESOURCE" FUNCTION

This function allows to restore one or more resource(s) from an external file to SV-2's internal memory. In order to enable this function the file name for the FILE DUMP session must be: "BKP.SV2".

Note that the resource(s) will be restored into the same Location(s) they had when the Resource Backup function was performed.

CONVENTIONAL FILE NAME FOR "SOUND PREVIEW" FUNCTION

This function allows to temporarily upload a Sound to SV-2, as currently selected Sound, for being listened without affecting the sounds arrangement into the instrument's internal memory.

In order to enable this function the file name for the FILE DUMP session must be: "PREVIEW.SV2".

3. APPENDIX

3-1. TABLES

TABLE 1: LOCATIONS AND ASSOCIATED RESOURCES

[H]:Hex, [D]:(Decimal)

LOCATION						RESOURCE
FAMILY		BANK		POSITION		
[H]	[D]	[H]	[D]	[H]	[D]	
3	(3)	0	(0)	0	(0)	Global (Misc. global data)
3	(3)	1	(1)	0	(0)	Global (MIDI Settings)
3	(3)	4	(4)	6	(6)	Global (user scale (tuning curve) 1)
3	(3)	4	(4)	7	(7)	Global (user scale (tuning curve) 2)
10	(16)	6	(6)	0	(0)	Favorite Sound (Bank = A, Number = 1)
10	(16)	6	(6)	1	(1)	Favorite Sound (Bank = A, Number = 2)
10	(16)	6	(6)	2	(2)	Favorite Sound (Bank = A, Number = 3)
10	(16)	6	(6)	3	(3)	Favorite Sound (Bank = A, Number = 4)
10	(16)	6	(6)	4	(4)	Favorite Sound (Bank = A, Number = 5)
10	(16)	6	(6)	5	(5)	Favorite Sound (Bank = A, Number = 6)
10	(16)	6	(6)	6	(6)	Favorite Sound (Bank = A, Number = 7)
10	(16)	6	(6)	7	(7)	Favorite Sound (Bank = A, Number = 8)
10	(16)	7	(7)	0	(0)	Favorite Sound (Bank = B, Number = 1)
10	(16)	7	(7)	1	(1)	Favorite Sound (Bank = B, Number = 2)
10	(16)	7	(7)	2	(2)	Favorite Sound (Bank = B, Number = 3)
10	(16)	7	(7)	3	(3)	Favorite Sound (Bank = B, Number = 4)
10	(16)	7	(7)	4	(4)	Favorite Sound (Bank = B, Number = 5)
10	(16)	7	(7)	5	(5)	Favorite Sound (Bank = B, Number = 6)
10	(16)	7	(7)	6	(6)	Favorite Sound (Bank = B, Number = 7)
10	(16)	7	(7)	7	(7)	Favorite Sound (Bank = B, Number = 8)
10	(16)	8	(8)	0	(0)	Favorite Sound (Bank = C, Number = 1)
10	(16)	8	(8)	1	(1)	Favorite Sound (Bank = C, Number = 2)
10	(16)	8	(8)	2	(2)	Favorite Sound (Bank = C, Number = 3)
10	(16)	8	(8)	3	(3)	Favorite Sound (Bank = C, Number = 4)
10	(16)	8	(8)	4	(4)	Favorite Sound (Bank = C, Number = 5)
10	(16)	8	(8)	5	(5)	Favorite Sound (Bank = C, Number = 6)
10	(16)	8	(8)	6	(6)	Favorite Sound (Bank = C, Number = 7)
10	(16)	8	(8)	7	(7)	Favorite Sound (Bank = C, Number = 8)

10	(16)	9	(9)	0	(0)	Favorite Sound (Bank = D, Number = 1)
10	(16)	9	(9)	1	(1)	Favorite Sound (Bank = D, Number = 2)
10	(16)	9	(9)	2	(2)	Favorite Sound (Bank = D, Number = 3)
10	(16)	9	(9)	3	(3)	Favorite Sound (Bank = D, Number = 4)
10	(16)	9	(9)	4	(4)	Favorite Sound (Bank = D, Number = 5)
10	(16)	9	(9)	5	(5)	Favorite Sound (Bank = D, Number = 6)
10	(16)	9	(9)	6	(6)	Favorite Sound (Bank = D, Number = 7)
10	(16)	9	(9)	7	(7)	Favorite Sound (Bank = D, Number = 8)
10	(16)	A	(10)	0	(0)	Favorite Sound (Bank = E, Number = 1)
10	(16)	A	(10)	1	(1)	Favorite Sound (Bank = E, Number = 2)
10	(16)	A	(10)	2	(2)	Favorite Sound (Bank = E, Number = 3)
10	(16)	A	(10)	3	(3)	Favorite Sound (Bank = E, Number = 4)
10	(16)	A	(10)	4	(4)	Favorite Sound (Bank = E, Number = 5)
10	(16)	A	(10)	5	(5)	Favorite Sound (Bank = E, Number = 6)
10	(16)	A	(10)	6	(6)	Favorite Sound (Bank = E, Number = 7)
10	(16)	A	(10)	7	(7)	Favorite Sound (Bank = E, Number = 8)
10	(16)	B	(11)	0	(0)	Favorite Sound (Bank = F, Number = 1)
10	(16)	B	(11)	1	(1)	Favorite Sound (Bank = F, Number = 2)
10	(16)	B	(11)	2	(2)	Favorite Sound (Bank = F, Number = 3)
10	(16)	B	(11)	3	(3)	Favorite Sound (Bank = F, Number = 4)
10	(16)	B	(11)	4	(4)	Favorite Sound (Bank = F, Number = 5)
10	(16)	B	(11)	5	(5)	Favorite Sound (Bank = F, Number = 6)
10	(16)	B	(11)	6	(6)	Favorite Sound (Bank = F, Number = 7)
10	(16)	B	(11)	7	(7)	Favorite Sound (Bank = F, Number = 8)
10	(16)	C	(12)	0	(0)	Favorite Sound (Bank = G, Number = 1)
10	(16)	C	(12)	1	(1)	Favorite Sound (Bank = G, Number = 2)
10	(16)	C	(12)	2	(2)	Favorite Sound (Bank = G, Number = 3)
10	(16)	C	(12)	3	(3)	Favorite Sound (Bank = G, Number = 4)
10	(16)	C	(12)	4	(4)	Favorite Sound (Bank = G, Number = 5)
10	(16)	C	(12)	5	(5)	Favorite Sound (Bank = G, Number = 6)
10	(16)	C	(12)	6	(6)	Favorite Sound (Bank = G, Number = 7)
10	(16)	C	(12)	7	(7)	Favorite Sound (Bank = G, Number = 8)
10	(16)	D	(13)	0	(0)	Favorite Sound (Bank = H, Number = 1)
10	(16)	D	(13)	1	(1)	Favorite Sound (Bank = H, Number = 2)
10	(16)	D	(13)	2	(2)	Favorite Sound (Bank = H, Number = 3)
10	(16)	D	(13)	3	(3)	Favorite Sound (Bank = H, Number = 4)
10	(16)	D	(13)	4	(4)	Favorite Sound (Bank = H, Number = 5)
10	(16)	D	(13)	5	(5)	Favorite Sound (Bank = H, Number = 6)
10	(16)	D	(13)	6	(6)	Favorite Sound (Bank = H, Number = 7)
10	(16)	D	(13)	7	(7)	Favorite Sound (Bank = H, Number = 8)

SECTION D. EFFECT PARAMETERS

PREFIX				
Red Comp				
Group	ADD_LSB	ADD_MSB	Range	Description
6	0	0	0 - 99	Sens
6	2	0	0 - 100	Level
6	1	0	0 - 99	Attack
Treble Boost				
Group	ADD_LSB	ADD_MSB	Range	Description
6	0	0	0 - 99	Drive
6	1	0	0 - 100	Level
6	2	0	0 - 99	Tone
U-Vibe				
Group	ADD_LSB	ADD_MSB	Range	Description
6	0	0	50 - 210	Speed
6	1	0	0 - 100	Depth
6	2	0	0 - 100	Mix
Vibrato				
Group	ADD_LSB	ADD_MSB	Range	Description
6	1	0	0 - 1	Mode
6	2	0	0 - 5	Type
6	5	0	0 - 100	Vib/Ch Mix
6	8	0	0 - 100	Depth
6	11	0	1 - 230	Speed
6	14	0	0 - 100	Mix
Tremolo				
Group	ADD_LSB	ADD_MSB	Range	Description
6	0	0	5 - 210	Speed
6	1	0	0 - 100	Depth
6	2	0	0 - 100	Spread
6	4	0	0 - 100	Mix
VOX Wah				
Group	ADD_LSB	ADD_MSB	Range	Description
6	2	0	0 - 99	Close
6	1	0	0 - 99	Open
6	5	0	0 - 99	Manual
6	0	0	0 - 1	Model

AMP				
Clean				
Group	ADD_LSB	ADD_MSB	Range	Description
7	0	0	0 - 100	Pre Vol
7	1	0	0 - 100	Amp Vol
7	2	0	0 - 100	Bass
7	3	0	0 - 100	Middle
7	4	0	0 - 100	Treble
7	5	0	0 - 100	Presence
Twin				
Group	ADD_LSB	ADD_MSB	Range	Description
7	0	0	0 - 100	Pre Vol
7	1	0	0 - 100	Amp Vol
7	2	0	0 - 100	Bass
7	3	0	0 - 100	Middle
7	4	0	0 - 100	Treble
7	5	0	0 - 100	Presence
Tweed				
Group	ADD_LSB	ADD_MSB	Range	Description
7	0	0	0 - 100	Pre Vol
7	1	0	0 - 100	Amp Vol
7	2	0	0 - 100	Bass
7	3	0	0 - 100	Middle
7	4	0	0 - 100	Treble
7	5	0	0 - 100	Presence
AC 30				
Group	ADD_LSB	ADD_MSB	Range	Description
7	4	0	0 - 100	Pre Vol
7	17	0	-18 - 18	Amp Vol
7	8	0	0 - 100	Bass
7	9	0	0 - 100	Middle
7	10	0	0 - 100	Treble
7	11	0	0 - 100	Presence
Boutique				
Group	ADD_LSB	ADD_MSB	Range	Description
7	0	0	0 - 100	Pre Vol
7	1	0	0 - 100	Amp Vol
7	2	0	0 - 100	Bass
7	3	0	0 - 100	Middle
7	4	0	0 - 100	Treble
7	5	0	0 - 100	Presence
Organ				
Group	ADD_LSB	ADD_MSB	Range	Description
7	4	0	0 - 2	Amp type
7	5	0	0 - 100	Amp Gain
7	8	0	-10 - 10	Bass
7	9	0	-10 - 10	Middle
7	10	0	-10 - 10	Treble
7	11	0	0 - 100	Output Level
7	14	0	0 - 100	Mix

=====

EQUALIZER

=====

St.Parametric4EQ

Group	ADD_LSB	ADD_MSB	Range	Description
8	7	0	-36 - 36	Bass
8	8	0	0 - 995	Middle Freq
8	9	0	0 - 95	Middle Q
8	10	0	-36 - 36	Middle
8	16	0	-36 - 36	Treble

=====

CABINET

=====

Tweed - 1x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

Tweed - 4x10

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

Black - 2x10

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

Black - 2x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

AC 15 - 1x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

AC 30 - 2x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

AD 412 - 4x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

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UK H30 - 4x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

UK T75 - 4x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

US V30 - 4x12

Group	ADD_LSB	ADD_MSB	Range	Description
9	1	0	0 - 100	Power Att.
9	4	0	0 - 100	Prog Level
9	0	0	0 - 100	NR Sens

Bypass

Group	ADD_LSB	ADD_MSB	Range	Description
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MODULATION

Classic Chorus

Group	ADD_LSB	ADD_MSB	Range	Description
10	0	0	5 - 210	Speed
10	1	0	0 - 100	Depth
10	2	0	0 - 99	Manual
10	3	0	0 - 1	Mode

Black Chorus

Group	ADD_LSB	ADD_MSB	Range	Description
10	0	0	5 - 210	Speed
10	1	0	0 - 99	Intensity
10	2	0	0 - 2	Type
10	3	0	0 - 100	Width
10	5	0	0 - 1	Mode

Orange Phaser

Group	ADD_LSB	ADD_MSB	Range	Description
10	0	0	5 - 210	Speed
10	1	0	0 - 100	Depth
10	3	0	0 - 99	Manual
10	2	0	0 - 100	Resonance

Small Phaser

Group	ADD_LSB	ADD_MSB	Range	Description
10	0	0	5 - 210	Speed
10	1	0	0 - 1	Color

MX Flanger

Group	ADD_LSB	ADD_MSB	Range	Description
10	0	0	5 - 210	Speed
10	1	0	0 - 100	Depth
10	3	0	0 - 99	Manual
10	2	0	0 - 100	Resonance
10	5	0	0 - 100	Offset

Rotary

Group	ADD_LSB	ADD_MSB	Range	Description
10	34	0	0 - 100	Rotor/Horn Balance
10	37	0	1 - 2	Amp type
10	36	0	0 - 6	Speaker Type
10	7	0	0 - 1	Mode
10	10	0	0 - 1	Speed
10	38	0	0 - 100	Mix

AMBIENT

Room

Group	ADD_LSB	ADD_MSB	Range	Description
11	0	0	0 - 99	Time
11	2	0	0 - 100	Lo Damp
11	1	0	0 - 100	Hi Damp
11	3	0	0 - 70	Pre Delay
11	4	0	0 - 100	Mix

Plate

Group	ADD_LSB	ADD_MSB	Range	Description
11	0	0	1 - 30	Time
11	5	0	-30 - 30	Lo Gain
11	6	0	-30 - 30	Hi Gain
11	2	0	0 - 200	Pre Delay
11	7	0	0 - 100	Mix

Hall

Group	ADD_LSB	ADD_MSB	Range	Description
11	14	0	0 - 100	Time
11	13	0	5 - 100	Size
11	15	0	0 - 100	Damping
11	1	0	0 - 100	Rolloff
11	10	0	0 - 226	Pre Delay
11	21	0	0 - 100	Mix

Spring

Group	ADD_LSB	ADD_MSB	Range	Description
11	0	0	0 - 99	Time
11	2	0	0 - 100	Lo Damp
11	1	0	0 - 100	Hi Damp
11	3	0	0 - 70	Pre Delay
11	4	0	0 - 100	Mix

Tape Echo

Group	ADD_LSB	ADD_MSB	Range	Description
11	0	0	0 - 2700	Time
11	1	0	0 - 100	Feedback
11	2	0	0 - 99	Tone
11	3	0	0 - 100	Lo Damp
11	6	0	0 - 100	Mix

Stereo Delay

Group	ADD_LSB	ADD_MSB	Range	Description
0	22	1	800 - 6000	BPM
11	2	0	0 - 9	L Delay
11	6	0	0 - 9	R Delay
0	16	1	0 - 100	Feedback
11	18	0	0 - 100	Hi Damp
11	10	0	0 - 100	Mix

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TOTAL FX

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Stereo Limiter

Group	ADD_LSB	ADD_MSB	Range	Description
13	1	0	0 - 131	Ratio
13	2	0	-40 - 0	Threshold
13	3	0	1 - 100	Attack
13	4	0	1 - 100	Release
13	5	0	-39 - 24	Gain

St.MasteringLimtr

Group	ADD_LSB	ADD_MSB	Range	Description
13	3	0	-300 - 0	Threshold
13	4	0	-300 - 0	Out Ceiling
13	5	0	10 - 290	Release

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SECTION E. PROGRAMS

Electric Piano

Tine					
name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Mk I Suitcase		00 24 64	03		0x791200
Mk I Stage		01 22 64	03		0x791101
Mk II Stage		00 20 64	03		0x791000
Mk II Suitcase		00 22 64	03		0x791100
Mk V Stage		01 20 64	03		0x791001
Mk V Bright		01 26 64	03		0x791301
Hard Dyno EP		01 24 64	03		0x791201
Soft EP		01 28 64	03		0x791401
Pure Mk II Stage		00 26 64	03		0x791300
Pure Mk II Suit.		00 28 64	03		0x791400
Mk II Line RX		00 3c 64	03		0x791e00
Mk II Mic RX		00 3e 64	03		0x791f00
EP Noise RX		00 1e 64	03		0x790f00

Reed					
name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Wurly Line		02 20 64	03		0x791002
Wurly Mic		03 20 64	03		0x791003
Wurly Mic R		03 22 64	03		0x791103
Wurly Mic L		03 24 64	03		0x791203
Wurly Classic		02 22 64	03		0x791102
Pure Wurly Line		02 24 64	03		0x791202
Pure Wurly Mic		03 26 64	03		0x791303
Wurly RX 1		02 1c 64	03		0x790e02
Wurly RX 2		02 1e 64	03		0x790f02

FM					
name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
FM El. Piano 1		04 20 64	03		0x791004
FM El. Piano 2		04 22 64	03		0x791104
FM El. Piano 3		04 24 64	03		0x791204
FM El. Piano 4		04 26 64	03		0x791304
FM El. Piano 5		04 28 64	03		0x791404
FM El. Piano 6		04 2a 64	03		0x791504
FM El. Piano 7		04 2c 64	03		0x791604
FM El. Piano 8		04 2e 64	03		0x791704
FM El. Piano 9		04 32 64	03		0x791904
FM El. Piano 10		05 20 64	03		0x791005
FM El. Piano 11		05 22 64	03		0x791105
Dark FM EP		05 24 64	03		0x791205
Hybrid Glass EP		04 30 64	03		0x791804
Soft FM EP		05 26 64	03		0x791305
FM & Pad		05 2c 64	03		0x791605

Electronic					
name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Rubber EP		06 20 64	03		0x791006
Plecta Hybrid		06 22 64	03		0x791106
Pianet N		06 24 64	03		0x791206
Pianet T		06 26 64	03		0x791306
Pianet RX		06 1e 64	03		0x790f06

Legacy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Vintage EP 1		00 00	64 03		0x790000
Vintage EP 2		00 02	64 03		0x790100
Vintage EP 3		00 04	64 03		0x790200
Hard Tine EP 1		00 06	64 03		0x790300
Hard Tine EP 2		00 08	64 03		0x790400
EP + Res.		00 0a	64 03		0x790500
Soft Dyno EP 1		01 00	64 03		0x790001
Soft Dyno EP 2		01 02	64 03		0x790101
Hard Dyno EP 1		01 04	64 03		0x790201
Hard Dyno EP 2		01 06	64 03		0x790301
Belly EP		01 08	64 03		0x790401
EP & Glock		01 0a	64 03		0x790501
Wurly 1		02 00	64 03		0x790002
Wurly 2		02 02	64 03		0x790102
Wurly 3		02 04	64 03		0x790202
Wurly 4		03 00	64 03		0x790003
Wurly 5		03 02	64 03		0x790103
FM E.Piano 1		04 00	64 03		0x790004
FM E.Piano 2		04 02	64 03		0x790104
FM E.Piano 3		04 04	64 03		0x790204
FM E.Piano 4		04 06	64 03		0x790304
FM E.Piano 5		05 00	64 03		0x790005
FM E.Piano 6		05 02	64 03		0x790105
Pianet 1		06 00	64 03		0x790006
Pianet 2		06 02	64 03		0x790106
Pianet 3		06 04	64 03		0x790206

Acoustic Piano

Grand

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Hamburg Grand		07 20	64 03		0x791007
Italian Grand		07 2c	64 03		0x791607
Japan Grand		08 20	64 03		0x791008
Austrian Grand		08 2c	64 03		0x791608
Hamburg No Res		07 2a	64 03		0x791507
Italian No Res		07 34	64 03		0x791a07
Japan No Res		08 2a	64 03		0x791508
Austrian No Res		08 36	64 03		0x791b08
Hamburg Classic		07 22	64 03		0x791107
Hamburg Jazz		07 24	64 03		0x791207
Italian Classic		07 2e	64 03		0x791707
Italian Jazz		07 30	64 03		0x791807
Japan Classic		08 22	64 03		0x791108
Japan Jazz		08 24	64 03		0x791208
Austrian Classic		08 2e	64 03		0x791708
Austrian Jazz		08 30	64 03		0x791808
Rock Piano		07 26	64 03		0x791307
Hamburg RX		07 38	64 03		0x791c07
Italian RX		07 3a	64 03		0x791d07
Japan RX		08 38	64 03		0x791c08
Austrian RX		08 3a	64 03		0x791d08
It.Grand & Stack		07 3e	64 03		0x791f07
Grand & FM Stack		07 40	64 03		0x792007
Grand & Strings		07 42	64 03		0x792107
Piano-EP Stack		08 3e	64 03		0x791f08
Piano-Syn Stack		08 40	64 03		0x792008
Midi Grand&Pad		08 42	64 03		0x792108
Hamburg Mono		07 28	64 03		0x791407
Italian Mono		07 32	64 03		0x791907
Japan Mono		08 26	64 03		0x791308
Austrian Mono		08 32	64 03		0x791908
Hamburg RX Mono		07 36	64 03		0x791b07
Italian RX Mono		07 3c	64 03		0x791e07

Upright

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Japan Upright	0a	20	64	03	0x79100a
German Upright	09	20	64	03	0x791009
Japan Upr. Bright	0a	22	64	03	0x79110a
Japan Upr. Dark	0a	24	64	03	0x79120a
Japan Upr.DarkDet	0a	28	64	03	0x79140a
Japan Upright Det	0a	26	64	03	0x79130a
Japan Honky	0a	2a	64	03	0x79150a
Jap. Upr. No Res	0a	30	64	03	0x79180a
Saloon Piano	0a	2c	64	03	0x79160a
Germ.Upr. Bright	09	22	64	03	0x791109
Germ.Upr. Dark	09	24	64	03	0x791209
Germ.Upr.DarkDet.	09	28	64	03	0x791409
Germ.Upr. Det.	09	26	64	03	0x791309
German Tack	09	2a	64	03	0x791509
Honky Tonk	09	2c	64	03	0x791609
Japan Upr. Mono	0a	2e	64	03	0x79170a
Japan Upr. RX	0a	3e	64	03	0x791f0a
Jap. Upr. RX Mono	0a	32	64	03	0x79190a

Electric Grand

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Elect. Grand 80	0b	20	64	03	0x79100b
Elect.Gr.80 NoRes	0b	22	64	03	0x79110b

Electronic

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Korg M1 Piano	0c	20	64	03	0x79100c
Grand&DigitBody	0c	22	64	03	0x79110c

Legacy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Grand Piano 1	07	00	64	03	0x790007
Grand Pno1 BigRes	07	02	64	03	0x790107
Grand Pno1 NoRes	07	06	64	03	0x790307
Grand Pno 1 Mono	07	0a	64	03	0x790507
Grand Pno 1 RX	07	1c	64	03	0x790e07
Grand P. 1 MonoRX	07	1e	64	03	0x790f07
Grand Piano 2	08	00	64	03	0x790008
Grand Pno2 Bright	08	02	64	03	0x790108
Grand Pno2 NoRes	08	06	64	03	0x790308
MIDI Grand	08	14	64	03	0x790a08
Piano&FM PAD	08	16	64	03	0x790b08
Grand Pno 2 RX	08	1e	64	03	0x790f08
Upright Piano	09	00	64	03	0x790009
Upright PnoBright	09	02	64	03	0x790109
Saloon Upright	09	04	64	03	0x790209
Elect. Grand 70	0b	00	64	03	0x79000b
Korg SG-1D	0c	00	64	03	0x79000c
80is Synth Piano	0c	02	64	03	0x79010c
M1 Dance	0c	04	64	03	0x79020c
ElectraPiano	0c	06	64	03	0x79030c
ElectraPiano Brit	0c	08	64	03	0x79040c

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 Clavier
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 Clav

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Clav AC Det		0d 20 64 03			0x79100d
Clav AD Det		0d 22 64 03			0x79110d
Clav BC Det		0d 24 64 03			0x79120d
Clav BD Det.		0d 26 64 03			0x79130d
Clav AC		0d 28 64 03			0x79140d
Clav AD		0d 2a 64 03			0x79150d
Clav BC		0d 2c 64 03			0x79160d
Clav BD		0d 2e 64 03			0x79170d
Clav RX		0d 1e 64 03			0x790f0d

 Harpsichord

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Harpsichord		0f 20 64 03			0x79100f
Harpsichord 8+4'		0f 22 64 03			0x79110f
Harpsi Stereo		0f 24 64 03			0x79120f

 Legacy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
SV1 Clav AC		0d 00 64 03			0x79000d
SV1 Clav BC		0d 02 64 03			0x79010d
SV1 Clav BC Soft		0d 04 64 03			0x79020d
SV1 Clav BD		0d 06 64 03			0x79030d
SV1 Clav BD Soft		0d 08 64 03			0x79040d
SV1 Clav AD Soft		0d 0a 64 03			0x79050d
SV1 Clav BC		0d 0c 64 03			0x79060d
SV1 Clav AC Soft		0e 00 64 03			0x79000e
SV1 Clav Bright		0e 02 64 03			0x79010e
SV1 Clav Brilliant		0e 04 64 03			0x79020e
SV1 Clav AD		0e 06 64 03			0x79030e
SV1 Muted Clav		0e 08 64 03			0x79040e
SV1 Clav Treble		0e 0a 64 03			0x79050e
SV1 Clav Medium		0e 0c 64 03			0x79060e

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 Organ
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 Tonewheel

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Org.Perc.2 2/3'		10 36 64 03			0x791b10
Org.Perc. 4'		10 34 64 03			0x791a10

 Electronic

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
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Church					
name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Tutti A		13 20	64 03		0x791013
Tutti B		13 22	64 03		0x791113
Sesquialtera		13 24	64 03		0x791213
Plenum A		13 26	64 03		0x791313
Plenum B		13 28	64 03		0x791413
Plenum C		13 2a	64 03		0x791513
Plenum D		13 2c	64 03		0x791613
Plenum E		13 2e	64 03		0x791713
Pipe Cornet		14 20	64 03		0x791014
Viola+Cornet		14 22	64 03		0x791114
Principal 8'		14 24	64 03		0x791214
Pipe Flute 8'		14 26	64 03		0x791314
Gamba 8'		14 28	64 03		0x791414
Trumpet Pipes		14 2a	64 03		0x791514
Pipe Octave		14 2c	64 03		0x791614
Pipe Super Oct.		14 2e	64 03		0x791714
Pipe Fifth		14 30	64 03		0x791814
Principal+Flute		14 32	64 03		0x791914
Nazard A		14 34	64 03		0x791a14
Nazard B		14 36	64 03		0x791b14
Flute8'+Flute4'		14 38	64 03		0x791c14
Flute8'+Flute2'		14 3a	64 03		0x791d14
Gamba+Flute		14 3c	64 03		0x791e14
Celeste		14 3e	64 03		0x791f14
Terziana		14 40	64 03		0x792014
Larigot		14 42	64 03		0x792114

Legacy					
name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Click Organ		10 00	64 03		0x790010
UltraDark Organ		10 02	64 03		0x790110
Rock Organ		10 04	64 03		0x790210
Basic Organ		10 06	64 03		0x790310
Jazz Organ		10 08	64 03		0x790410
Perc. Organ 2 2/3		10 0a	64 03		0x790510
Full Organ 1		10 0c	64 03		0x790610
Full Organ 2		10 0e	64 03		0x790710
Dark Organ		10 10	64 03		0x790810
Full Organ 3		10 12	64 03		0x790910
Organ Leakage		10 1e	64 03		0x790f10
Dirty Organ		11 00	64 03		0x790011
Clean Organ		11 02	64 03		0x790111
Gospel Organ		11 04	64 03		0x790211
Amped Organ		11 06	64 03		0x790311
Mixed Organ		11 08	64 03		0x790411
Jimmy Organ		11 0a	64 03		0x790511
Ballad Organ		11 0c	64 03		0x790611
Dist. Organ		11 0e	64 03		0x790711
Org.Perc.2 2/3Lek		11 10	64 03		0x790811
Elect. Organ		12 00	64 03		0x790012
US Organ		12 02	64 03		0x790112
Italian Organ		12 04	64 03		0x790212
Vox Organ		12 06	64 03		0x790312
US Organ RX		12 1c	64 03		0x790e12
Italian Organ RX		12 1e	64 03		0x790f12
Pipe Organ		13 00	64 03		0x790013

Orchestra

Strings Ensemble

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Real Strings	15	20	64	03	0x791015
Cinematic Ens.	15	22	64	03	0x791115
Ballad Strings	15	24	64	03	0x791215
Soft Strings	16	20	64	03	0x791016
Soft Ballad Strng	16	22	64	03	0x791116
BriteBallad Strng	16	28	64	03	0x791416
String Ensemble	16	2a	64	03	0x791516

Classic Ensemble

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Real Quartet 1	17	20	64	03	0x791017
Real Quartet 2	17	22	64	03	0x791117
Classic Harp	17	24	64	03	0x791217
Real Pizzicato	17	26	64	03	0x791317

Vocal

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Full Choir	18	20	64	03	0x791018
Hmm Choir	18	22	64	03	0x791118
Closed Mouth	18	24	64	03	0x791218
Synth Voices	18	26	64	03	0x791318
Soprano Choir	18	28	64	03	0x791418
Fresh Breath	18	2a	64	03	0x791518
Heaven	18	2c	64	03	0x791618

Brass/Woodwind

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Swing Horns	19	20	64	03	0x791019
Ballade Brass	19	22	64	03	0x791119
Tight Brass 1	19	24	64	03	0x791219
Tight Brass 2	19	26	64	03	0x791319
French Section	19	28	64	03	0x791419
French Horns	19	2a	64	03	0x791519
Soft Horns	19	2c	64	03	0x791619
Sax Ens. Legato	19	2e	64	03	0x791719

Mallets

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Vibraphone	1a	20	64	03	0x79101a
Marimba	1a	22	64	03	0x79111a
Xylophone	1a	2a	64	03	0x79151a
Celesta	1a	24	64	03	0x79121a
Orgel	1a	26	64	03	0x79131a
Glockenspiel	1a	28	64	03	0x79141a

Full/Tutti

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Movie Action		1b 20 64 03			0x79101b
OrchestraTutti		1b 22 64 03			0x79111b

Legacy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Strings 1		15 00 64 03			0x790015
Strings 2		15 02 64 03			0x790115
Strings 3		15 04 64 03			0x790215
Strings 4		15 06 64 03			0x790315
Strings 5		15 10 64 03			0x790815
Strings 6		15 12 64 03			0x790915
Strings 7		15 14 64 03			0x790a15
Strings 8		16 00 64 03			0x790016
Tape Strings 1		16 02 64 03			0x790116
Tape Strings 2		16 04 64 03			0x790216
Tape Strings 3		16 06 64 03			0x790316
Tape Strings 4		17 00 64 03			0x790017
Solina Strings		16 08 64 03			0x790416
Choir 1		18 00 64 03			0x790018
Choir 2		18 02 64 03			0x790118
Choir 3		18 04 64 03			0x790218
Choir 4		18 06 64 03			0x790318
Choir 5		18 08 64 03			0x790418
Choir 6		18 0a 64 03			0x790518

Synth

Pad

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Dark Pad		1c 20 64 03			0x79101c
80's Mellow		1c 22 64 03			0x79111c
80's Super Pad		1c 24 64 03			0x79121c
Symphonic Ens.		1c 26 64 03			0x79131c
Matrix 12 Pad		1c 28 64 03			0x79141c
Big Panner		1c 2a 64 03			0x79151c
Air Clouds		1c 2c 64 03			0x79161c
Vintage Sweep		1c 2e 64 03			0x79171c
Super Sweep		1c 30 64 03			0x79181c
Fresh Air		1c 32 64 03			0x79191c
Pods In Pad		1c 34 64 03			0x791a1c
G.P. Stack		1c 36 64 03			0x791b1c
Ghost Pad		1c 38 64 03			0x791c1c

Brass

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
JP8		1d 20 64 03			0x79101d
Poly6 + JP8		1d 22 64 03			0x79111d
Polysix		1d 24 64 03			0x79121d
Polysix & Sub		1d 26 64 03			0x79131d
FatSynth OctSub		1d 28 64 03			0x79141d

Lead

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Next Dance	1e	20	64	03	0x79101e
Trance Filter	1e	22	64	03	0x79111e
Vintage Monster	1e	24	64	03	0x79121e
Dance Basic	1e	26	64	03	0x79131e
EDM Synth	1e	28	64	03	0x79141e
Square Solo	1e	2a	64	03	0x79151e
Triangle Solo	1e	2c	64	03	0x79161e
Saw Solo	1e	2e	64	03	0x79171e
Square & Pulse	1e	30	64	03	0x79181e
Rich Lead	1e	32	64	03	0x79191e
16-8-4 & Sub32	1e	34	64	03	0x791a1e
PolySaw Detune	1e	36	64	03	0x791b1e
PolySaw 2 Oct.	1e	38	64	03	0x791c1e
PolySaw 3 Oct.	1e	3a	64	03	0x791d1e
Power Saw	1e	3c	64	03	0x791e1e
OB Lead	1e	3e	64	03	0x791f1e
Big & Raw	1e	40	64	03	0x79201e
Synth Pianoid	1e	42	64	03	0x79211e

Bass

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Bass Phat Saw	1f	22	64	03	0x79111f
Robert Bass	1f	24	64	03	0x79121f
Fifth Bass	1f	26	64	03	0x79131f

Fantasy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Evolving Pad	20	20	64	03	0x791020
Rhythmsphere	20	22	64	03	0x791120
Far Memories	20	24	64	03	0x791220
Jurassic Pad	20	26	64	03	0x791320
Moon Cycles	20	28	64	03	0x791420
Movie Stack	20	2a	64	03	0x791520
Eastern Depths	20	2c	64	03	0x791620
Aerosonic	20	2e	64	03	0x791720
My Sequencer	20	30	64	03	0x791820
Halo	20	32	64	03	0x791920
Metallic Pad	20	34	64	03	0x791a20
Blend	20	36	64	03	0x791b20
Blend+Sub	20	38	64	03	0x791c20
Sub Synth	20	3a	64	03	0x791d20
Nature Pad	20	3c	64	03	0x791e20
Pad Sequence	20	3e	64	03	0x791f20

Legacy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Warm Pad	1c	00	64	03	0x79001c
Classic Pad	1c	02	64	03	0x79011c
Pad & Voices	1c	04	64	03	0x79021c
Pad & Strings	1c	06	64	03	0x79031c
SoliStrings Dark	1c	08	64	03	0x79041c
SoliStrings Brigh	1c	0a	64	03	0x79051c
Analog Pad	1c	0c	64	03	0x79061c
Analog Strings	1c	0e	64	03	0x79071c
Obscure Pad	1c	10	64	03	0x79081c
Soft SynBrass	1d	00	64	03	0x79001d
Synth Brass	1d	02	64	03	0x79011d
Jump Brass	1d	04	64	03	0x79021d
Reso Synth	1e	00	64	03	0x79001e
Sine Lead	1e	02	64	03	0x79011e
Saw Lead	1f	00	64	03	0x79001f

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Guitar

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Acoustic Guitar

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Nylon Guitar	21	20	64	03	0x791021
Concert Guitar	21	26	64	03	0x791321
Natural Steel	21	22	64	03	0x791121
Acoustic Steel	21	24	64	03	0x791221

Acoustic Bass

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Upright Bass	22	20	64	03	0x791022
Upright & Ride 1	22	22	64	03	0x791122
Upright & Ride 2	22	24	64	03	0x791222

Electric Bass

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
JB Finger Bass	23	20	64	03	0x791023
JB Finger Slap	23	22	64	03	0x791123
JB Slap Bass	23	24	64	03	0x791223
JB Fretless Bass	23	26	64	03	0x791323
Stein Bass	23	28	64	03	0x791423

Legacy

name	DATA_LSB_L	DATA_MSB_L	DATA_LSB_H	DATA_MSB_H	value
Double Bass	22	00	64	03	0x790022
Electric Bass	23	00	64	03	0x790023
Fretless Bass	23	02	64	03	0x790123

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