

[VOX Valvetronix]  
 Date: 2007.1.1

Model : ToneLabLE		MIDI Implementation Chart			
Version:1.00					
Function	Transmitted	Recognized	Remarks		
Basic	Default	1-16	1-16	Memorized	
Channel	Changed	1-16	1-16		
Mode	Memorized	~	3		
	Messages	~	~		
	Altered	*****	~		
Note		~	~		
Number :	True Voice	*****	*****		
Velocity	Note On	~	~		
	Note Off	~	~		
Aftertouch	Polyphonic(Key)	~	~		
	@ Monophonic(Channel)	~	~		
Pitch Bend		~	~		
Control	0-95	>	>	Effect Control	

```

*C*1 |
|Change          |          |          |
|
|          |          |          |
|
|          |          |          |
|
|          |          |          |
|
|          |          |          |
|
|          |          |          |
|
|          |          |          |
|
|          |          |          |
|
|          |          |          |
|
+-----+-----+-----+
+-----+
|Program          | > 0-119 | > 0-119 |
*P |
|Change          | Variable Range | ***** | 0-119 |
|
+-----+-----+-----+
+-----+
|System Exclusive |          |          | |Parameter Control
*E*1 |
|          |          |          | |Program Data Dump
|
+-----+-----+-----+
+-----+
|System          | : Song Position | ~      | ~      |
|
|Common          | : Song Select  | ~      | ~      |
|
|@              | : Tune         | ~      | ~      |
|
+-----+-----+-----+
+-----+
|System          | : Clock        | ~      | ~      |
|
|Real Time      | : Command      | ~      | ~      |
|
+-----+-----+-----+
+-----+
|Aux            | : Local On/Off | ~      | ~      |
|
|Message        | : All Note Off | ~      | ~      |
|
|              | : Active Sense | ~      | ~      |
|
|              | ; Reset        | ~      | ~      |
|
+-----+-----+-----+
+-----+
|Notes
|
|*P : Transmitted if GLOBAL "PCHG OUT" is On.
|
|*C : Transmitted and received according to the setting of each controller
if GLOBAL
|   "CCHG I/O" is On.
|
|*E : Transmitted and received if GLOBAL "SYEX OUT" is On. (Responses to
Request
|   messages are always transmitted regardless of the "SYSEX OUT"
setting.)

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|\*1 : In additon to messages specifically for this device, Device Inquiry is also supported.

|\*2 : "AMP CTRL" and "CAB CTRL" are recieve only.

1. TRANSMITTED DATA

1-1 CHANNEL MESSAGES [H]:Hex, [D]:Decimal

Status	Second	Third	Description	(Transmitted by)
[Hex]	[H] [D]	[H] [D]		ENAI
Bn	cc (cc)	vv (vv)	Control Change cc=00~5F(00~95)	Pedal Control) C
Cn	pp (pp)	-- --	Program Change pp=00~5F(00~95)	Program Change) P

n : MIDI Channel (0~F)  
vv : Value

ENA = C : Enabled when "CCHG I/O" Global Parameter is "On".  
P : Enabled when "PCHG OUT" Global Parameter is "On".

1-2 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE

DEVICE INQUIRY REPLY

Byte	Description
F0	Exclusive Status
7E	Non Realtime Message
0n	Device ID (MIDI Channel)
06	Inquiry Message
02	Identity reply
42	KORG ID (Manufacturers ID)
6D	VOX Digital Products ID (Family ID (LSB))
00	(Family ID (MSB))
10	ToneLabLE ID (Member ID (LSB))
00	(Member ID (MSB))
vv	00~ (Minor Ver. (LSB))
00	(Minor Ver. (MSB))
vv	01~ (Major Ver. (LSB))
00	(Major Ver. (MSB))
F7	End of Exclusive

This message is transmitted whenever a INQUIRY MESSAGE REQUEST is received.

1-3 KORG SYSTEM EXCLUSIVE MESSAGE

Byte	Description
[Hex]	
F0	Exclusive Status
42	KORG ID
3n	Format ID (n: MIDI Channel)
6D	VOX Digital Products ID
10	ToneLabLE ID
ff	Function Code
(dd)	Data
F7	End of Exclusive

See 3.KORG SYSTEM EXCLUSIVE MESSAGE FORMAT for more info.

## 2. RECOGNIZED RECEIVE DATA

### 2-1 CHANNEL MESSAGES [H]:Hex, [D]:Decimal

Status	Second	Third	Description	(Used .....
ENAI				
[Hex]	[H] [D]	[H] [D]		
Bn	cc (cc)	vv (vv)	Control Change cc=00~5F(00~95)	(as the same as PdC)
C				
Cn	pp (pp)	-- --	Program Change pp=00~5F(00~95)	(for Prog Change)
		P		

n : MIDI Channel (0~F)  
vv : Value

PdC : Pedal Control

ENA = C : Enabled when "CCHG I/O" Global Parameter is "On".  
P : Enabled when Program Select Mode.

### 2-2 UNIVERSAL SYSTEM EXCLUSIVE MESSAGE

#### DEVICE INQUIRY MESSAGE REQUEST

Byte	Description
[Hex]	
F0	Exclusive Status
7E	Non Realtime Message
nn	Device ID
06	Inquiry Message
01	Inquiry Request
F7	End of Exclusive

nn = 00 ~ 0F :MIDI Channel  
= 7F :Any Channel

### 2-3 KORG SYSTEM EXCLUSIVE MESSAGE

Byte	Description
[Hex]	

F0	Exclusive Status	
42	KORG ID	
3n	Format ID (n: MIDI Channel)	
6D	VOX Digital Products ID	
10	ToneLabLE ID	
ff	Function Code	
(dd)	Data	
F7	End of Exclusive	

See 3.KORG SYSTEM EXCLUSIVE MESSAGE FORMAT for more info.

### 3.KORG SYSTEM EXCLUSIVE MESSAGE FORMAT

#### Function Code List (R:Receive, T:Transmit)

Func [Hex]	Description	R	T
			(*1) (*2)
12	MODE REQUEST	o	
10	CURRENT PROGRAM PARAMETER DUMP REQUEST	o	
1C	PROGRAM PARAMETER DUMP REQUEST	o	
0E	GLOBAL DATA DUMP REQUEST	o	
0F	ALL DATA (PROGRAM,GLOBAL) DUMP REQUEST	o	
11	PROGRAM WRITE REQUEST	o	
40	CURRENT PROGRAM PARAMETER DUMP	o	r,D
4C	PROGRAM PARAMETER DUMP	o	r
51	GLOBAL DATA DUMP	o	r
50	ALL DATA (PROGRAM,GLOBAL) DUMP	o	r,D
4E	MODE CHANGE	o	M
41	PARAMETER CHANGE	o	C
42	MODE DATA		r
26	DATA FORMAT ERROR		E
23	DATA LOAD COMPLETED		E
24	DATA LOAD ERROR		E
21	WRITE COMPLETED		E W
22	WRITE ERROR		E

\*1 : Transmitted when

- r : Request message is received.
- E : Exclusive message is received.
- D : DATA DUMP is executed by Switch.

\*2 : Transmitted when "SYEX OUT" Global Parameter is "On" and

- M : Mode or Program is changed by Switch.
- C : Parameter is changed by Switch or Knob.
- W : DATA WRITE by Switch is completed.

#### (1) MODE REQUEST

R

Byte	Description
F0,42,3n,6D,10	Exclusive Header
12	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=42 message.

#### (2) CURRENT PROGRAM PARAMETER DUMP REQUEST

R

Byte	Description
F0,42,3n,6D,10	Exclusive Header
10	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=40 or Func=24 message.

(3) PROGRAM PARAMETER DUMP REQUEST R

Byte	Description
F0,42,3n,6D,10	Exclusive Header
1C	Function Code
00k0 0000	Kind <span style="float: right;">(NOTE 7)</span>
0ppp pppp	Program No.
F7	End of Exclusive

Receives this message, and transmits Func=4C or Func=24 message.

(4) GLOBAL DATA DUMP REQUEST R

Byte	Description
F0,42,3n,6D,10	Exclusive Header
0E	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=51 or Func=24 message.

(5) ALL DATA (PROGRAM,GLOBAL) DUMP REQUEST R

Byte	Description
F0,42,3n,6D,10	Exclusive Header
0F	Function Code
F7	End of Exclusive

Receives this message, and transmits Func=50 or Func=24 message.

(6) PROGRAM WRITE REQUEST R

Byte	Description
F0,42,3n,6D,10	Exclusive Header
11	Function Code
00	(Reserved)
0ppp pppp	Destination Program No.
F7	End of Exclusive

Receives this message, write the data and transmits Func=21 or Func=22 message.

(7) CURRENT PROGRAM PARAMETER DUMP R , T

Byte	Description
F0,42,3n,6D,10	Exclusive Header
40	Function Code
0ddd dddd	Data <span style="float: right;">(NOTE 1)</span>
:	:

F7	End of Exclusive	
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Receives this message & data, saves them to Current Buffer and transmits Func=23 or Func=24 message.  
Receives Func=10 message, and transmits this message & data.  
Transmits this message & data when DATA DUMP is executed.

(8) PROGRAM PARAMETER DUMP R , T

Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
4C	Function Code	
00k0 0000	Kind	(NOTE 7)
0ppp pppp	Program No.	
0ddd dddd	Data	(NOTE 2,3)
:	:	
F7	End of Exclusive	

Receives this message & data, saves them to Internal Memory and transmits Func=23 or Func=24 message.  
Receives Func=1C message, and transmits this message & data.

(9) GLOBAL DATA DUMP R , T

Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
51	Function Code	
0ddd dddd	Data	(NOTE 4)
:	:	
F7	End of Exclusive	

Receives this message & data, saves them to Internal Memory and transmits Func=23 or Func=24 message.  
Receives Func=0E message, and transmits this message & data.

(10) ALL DATA (PROGRAM,GLOBAL) DUMP R , T

Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
50	Function Code	
0ddd dddd	Data	(NOTE 5)
:	:	
F7	End of Exclusive	

Receives this message & data, saves them to Internal Memory and transmits Func=23 or Func=24 message.  
Receives Func=0F message, and transmits this message & data.  
Transmits this message & data when DATA DUMP is executed.

(11) MODE CHANGE R , T

Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
4E	Function Code	
0moo 0000	Mode and Option	(NOTE 6)
0ppp pppp	Program No.	
F7	End of Exclusive	

Receives this message & data, changes the Mode and transmits Func=23 or

Func=24.

When the Mode or Program is changed by Switch, transmits this message & data.

(12) PARAMETER CHANGE		R , T
Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
41	Function Code	
0ppp ppp	Parameter ID	(TABLE 1)
0sss sss	Parameter SUB ID	(TABLE 1)
0vvv vvv	Value (MSB bit13~7)	
0vvv vvv	Value (LSB bit 6~0)	
F7	End of Exclusive	

Receives this message & data, changes a Parameter and transmits Func=23 or Func=24 message.

When the Parameter is changed by Switch & Knob, transmits this message & data.

(13) MODE DATA		T
Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
42	Function Code	
0m00 0000	Mode	(NOTE 6)
0ppp pppp	Program No.	
F7	End of Exclusive	

Receives Func=12 message, and transmits this message & data.

(14) DATA FORMAT ERROR		T
Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
26	Function Code	
F7	End of Exclusive	

Transmits this message when there is an error in the MIDI IN message.

(15) DATA LOAD COMPLETED (ACK)		T
Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
23	Function Code	
F7	End of Exclusive	

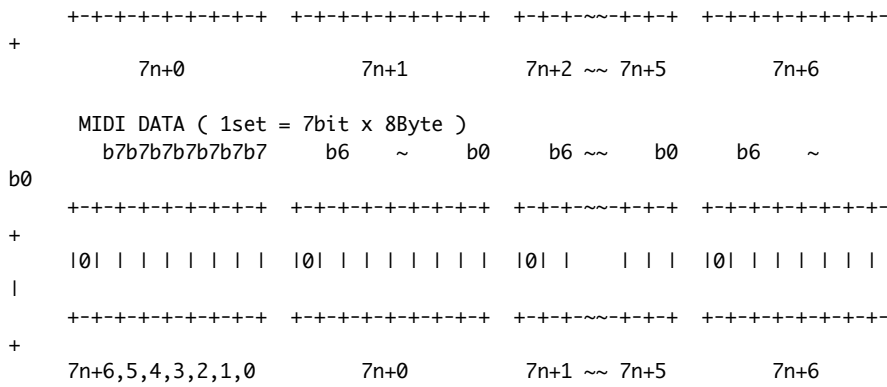
Transmits this message when DATA LOAD, PROCESSING have been completed.

(16) DATA LOAD ERROR (NAK)		T
Byte	Description	
F0,42,3n,6D,10	Exclusive Header	
24	Function Code	
F7	End of Exclusive	

Transmits this message when DATA LOAD, PROCESSING have not been completed.







[ TABLE 1 ] PROGRAM PARAMETERS

No. : Address in the PROGRAM DUMP DATA.  
 PARA No. : Parameter ID, SUB ID for PARAMETER CHANGE.

No.	PARAMETER	DATA	VALUE
[Dec]		[Hex]	
[Hex]			
00	PROGRAM NAME (1st)		
00,00			
:	:	20~5F	ASCII code ' ' ~ '_'
:			
07	PROGRAM NAME (8th)		
00,07			
08	PROGRAM LEVEL		
01,00			
09	NR SENS		
01,01			
	EFFECT STATUS		
10 b0	PEDAL	00,01	Off,On
02,00			
b1	MODULATION	00,01	Off,On
02,01			
b2	DELAY	00,01	Off,On
02,02			
b3	REVERB	00,01	Off,On
02,03			
b4	AMP	00,01	Off,On
02,04			

b5	CABINET	00,01	Off,On	
02,05				
b6	(Reserved)			
b7	INSERT	00,01	Off,On	
02,07				
11	CHAIN	00~05	M-D-R ~ R-D-M	
02,10				
PEDAL EFFECT PARAMETERS				
12	Effect Type	00~0F	COMP ~	(TABLE
1-1)	03,00			
13				
04,??				
:	Parameter Structure ( TABLE 1-1 )			
:				
18				
04,??				
MODULATION EFFECT PARAMETERS				
19	Effect Type	00~0A	CLASSIC CHORUS ~	(TABLE
1-2)	03,01			
20				
05,??				
:	Parameter Structure ( TABLE 1-2 )			
:				
25				
05,??				
DELAY EFFECT PARAMETERS				
26	Effect Type	00~0A	ECHO PLUS ~	(TABLE
1-3)	03,02			
27				
06,??				
:	Parameter Structure ( TABLE 1-3 )			
:				
33				
06,??				

REVERB EFFECT PARAMETERS			
34	Effect Type	00~0A	SLAP ~
1-4)	03,03		(TABLE
35			
07,??			
:	Parameter Structure ( TABLE 1-4 )		
:			
40			
07,??			

AMP PARAMETERS			
41	AMP Type	00~0F	AC15 ~
1-5)	03,04		(TABLE
42	GAIN	00~64	0.0~10.0
08,00			
43	VR GAIN	00~64	0.0~10.0
08,01			
44	TREBLE	00~64	0.0~10.0
08,02			
45	MIDDLE	00~64	0.0~10.0
08,03			
46	BASS	00~64	0.0~10.0
08,04			
47	CH VOLUME	00~64	0.0~10.0
08,05			

48	PRESENCE	00~64	0.0~10.0
08,06			
CABINET PARAMETERS			
49	CABINET Type	00~0A	TWEED 1x8 ~
1-6)	03,05		(TABLE

EXPRESSION PEDAL 1			
--------------------	--	--	--

50	b0-51	Target			(TABLE
1-1~1-4,1-7)		0C,00			
	b6,71	(Reserved)			
51-52		Target Range (MIN)			(TABLE
1-1~1-4,1-7)		0C,01			
53-54		Target Range (MAX)			(TABLE
1-1~1-4,1-7)		0C,02			
		CONTROL PEDAL			
55	b0-51	Target	00-0B		(TABLE
1-8)		0E,00			
	b6,71	(Reserved)			
56		FACTOR	00-0B	1/6~4	
(*3)		0E,01			
57-91		(Reserved)			

[ TABLE 1-1 ] PEDAL EFFECT Parameter Structure

Expression	Target					
Offset	PARAMETER	DATA	VALUE		PARA No.	
DATA	VALUE					
[Dec]		[Hex]			[Hex]	
[BIN]						
	Effect Type = 00	COMP				
00	SENS	00~5A	1.0~10.0		04,00	
001000	P/SENS					
01	LEVEL	00~64	0.0~10.0		04,01	
001001	P/LEVEL					
	Effect Type = 01	ACOUSTIC				

00	BODY	00~64	0.0~10.0		04,00	
001000	P/BODY					
01	BASS	00~64	1.0~10.0		04,01	
001001	P/BASS					
02	TREBLE	00~64	1.0~10.0		04,02	
001010	P/TREBLE					
04	TYPE	00~03	1,2,3,4		04,04	

+-----+  
+-----+  
| Effect Type = 02 : VOX WAH | |

01	CLOSE	00~5A	1.0~10.0		04,01	
02	OPEN	00~5A	1.0~10.0		04,02	
03	MANUAL	00~5A	1.0~10.0		04,03	
001000	P/MANUAL					
04	TYPE	00,01	V847,V848		04,04	
05	ORDER	00,01	PRE,POST		04,05	

+-----+  
+-----+  
| Effect Type = 03 : U-VIBE | |

00	SPEED	32~64	1.0~10.0 [Hz] (*4)		04,00	
001000	P/SPEED					
01	DEPTH	00~64	0.0~10.0		04,01	
001001	P/DEPTH					
02	MIX	00~64	0.0~10.0		04,02	

+-----+  
+-----+  
| Effect Type = 04 : BLK/ORG PHASE | |

00	SPEED	00~64	0.1~10.0 [Hz] (*4)		04,00	
001000	P/SPEED					
01	DEPTH	00~64	0.0~10.0		04,01	
001001	P/DEPTH					
02	RESONANCE	00~64	0.0~10.0		04,02	
001010	P/RESO					
03	MANUAL	00~5A	1.0~10.0		04,03	
001011	P/MANUAL					
04	TYPE	00~02	BLK,ORG1,ORG2		04,04	
05	ORDER	00,01	PRE,POST		04,05	

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+-----+-----+-----+-----+-----+
+-----+
| Effect Type = 05 : OCTAVE | |
|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| 00 | DIRECT | 00~64 | 0.0~10.0 | 04,00 | |
001000 | P/DIRECT |
| 01 | 1 OCTAVE | 00~64 | 0.0~10.0 | 04,01 | |
001001 | P/1OCT |
| 02 | 2 OCTAVE | 00~64 | 0.0~10.0 | 04,02 | |
001010 | P/2OCT |
| | | | | |
| | |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| Effect Type = 06 : RING MODULATOR | |
|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| 00 | DIRECT | 00~64 | 0.0~10.0 | 04,00 | |
001000 | P/DIRECT |
| 01 | EFFECT | 00~64 | 0.0~10.0 | 04,01 | |
001001 | P/EFFECT |
| 02 | FILTER | 00~5A | 1.0~10.0 | 04,02 | |
001010 | P/FILTER |
| 03 | MANUAL | 00~64 | 0.0~10.0 | 04,03 | |
001011 | P/MANUAL |
| | | | | |
| | |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| Effect Type = 07 : TREBLE BOOST | |
|
| Effect Type = 08 : TUBE OD | |
|
| Effect Type = 09 : SUPER OD | |
|
| Effect Type = 0A : BOUTIQUE | |
|
| Effect Type = 0B : FAT DIST | |
|
| Effect Type = 0C : ORANGE DIST | |
|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| 00 | DRIVE | 00~5A | 1.0~10.0 | 04,00 | |
001000 | P/DRIVE |
| 01 | LEVEL | 00~64 | 0.0~10.0 | 04,01 | |
001001 | P/LEVEL |
| 02 | TONE | 00~5A | 1.0~10.0 | 04,02 | |
001010 | P/TONE |
| | | | | |
| | |
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| Effect Type = 0D : METAL DIST | |
|
+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+
| 00 | DRIVE | 00~5A | 1.0~10.0 | 04,00 | |
001000 | P/DRIVE |
| 01 | LEVEL | 00~64 | 0.0~10.0 | 04,01 | |
001001 | P/LEVEL |
| 02 | TREBLE | 00~64 | 0.0~10.0 | 04,02 | |
001010 | P/TREBLE |
| 03 | MIDDLE | 00~64 | 0.0~10.0 | 04,03 | |

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001011	P/MIDDLE						
04	BASS	00~64	0.0~10.0		04,04		
001100	P/BASS						
+-----+							
+-----+							
	Effect Type = 0E : FUZZ						
	Effect Type = 0F : OCTAFUZZ						
+-----+							
+-----+							
00	DRIVE	00~5A	1.0~10.0		04,00		
001000	P/DRIVE						
01	LEVEL	00~64	0.0~10.0		04,01		
001001	P/LEVEL						
02	TONE	00~5A	1.0~10.0		04,02		
001010	P/TONE						
+-----+							
+-----+							

[ TABLE 1-2 ] MODULATION EFFECT Parameter Structure

+-----+							
Expression Target							
+-----+							
Offset	PARAMETER	DATA	VALUE		PARA No.		
DATA	VALUE						
[Dec]		[Hex]			[Hex]		
[BIN]							
+-----+							
+-----+							
	Effect Type = 00 : CLASSIC CHORUS						
+-----+							
+-----+							
00	SPEED	00~64	0.1~10.0 [Hz]	(*4)	05,00		
010000	M/SPEED						
01	DEPTH	00~64	0.0~10.0		05,01		
010001	M/DEPTH						
03	MANUAL	00~5A	1.0~10.0		05,03		
010010	M/MANUAL						
04	MODE	00~02	1,2,3		05,04		
+-----+							
+-----+							
	Effect Type = 01 : MULTI TAP CHORUS						
+-----+							
+-----+							
00	SPEED	00~64	0.1~10.0 [Hz]	(*4)	05,00		
010000	M/SPEED						
01	DEPTH	00~64	0.0~10.0		05,01		
010001	M/DEPTH						
03	TIME	00~64	0.0~10.0		05,03		



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|      |
|      |      |      |      |      |
| 05   | MIX   | 00~64 | 0.0~10.0 | 05,05 |
010010 | M/MIX |      |      |      |
|      |
+-----+
+-----+
|      |
|      |      |      |      |      |
|      | Effect Type = 02 : CLASSIC FLANGER |
|      |
+-----+
+-----+
| 00   | SPEED | 00~64 | 0.1~10.0 [Hz] (*4) | 05,00 |
010000 | M/SPEED |
| 01   | DEPTH | 00~64 | 0.0~10.0 | 05,01 |
010001 | M/DEPTH |
| 02   | RESONANCE | 00~64 | 0.0~10.0 | 05,02 |
010010 | M/RESO |
| 03   | MANUAL | 00~5A | 1.0~10.0 | 05,03 |
010011 | M/MANUAL |
| 04   | OFFSET | 00~64 | 0.0~10.0 | 05,04 |
|      |
| 05   | MIX   | 00~64 | 0.0~10.0 | 05,05 |
010100 | M/MIX |
|      |
+-----+
+-----+
|      |
|      |      |      |      |      |
|      | Effect Type = 03 : BI CHORUS |
|      |
+-----+
+-----+
| 00   | SPEED1 | 00~64 | 0.1~10.0 [Hz] (*4) | 05,00 |
010000 | M/SPEED1 |
| 01   | DEPTH | 00~64 | 0.0~10.0 | 05,01 |
010001 | M/DEPTH |
| 02   | RESONANCE | 00~64 | 0.0~10.0 | 05,02 |
010010 | M/RESO |
| 03   | SPEED2 | 00~64 | 0.1~10.0 [Hz] (*4) | 05,03 |
010011 | M/SPEED2 |
| 04   | MODE   | 00~03 | S,P1,P2,P3 | 05,04 |
|      |
| 05   | MIX   | 00~64 | 0.0~10.0 | 05,05 |
010100 | M/MIX |
|      |
+-----+
+-----+
|      |
|      |      |      |      |      |
|      | Effect Type = 04 : DUO PHASE |
|      |
+-----+
+-----+
| 00   | SPEED1 | 00~64 | 0.1~10.0 [Hz] (*4) | 05,00 |
010000 | M/SPEED1 |
| 01   | DEPTH | 00~64 | 0.0~10.0 | 05,01 |
010001 | M/DEPTH |
| 02   | RESONANCE | 00~64 | 0.0~10.0 | 05,02 |
010010 | M/RESO |
| 03   | SPEED2 | 00~64 | 0.1~10.0 [Hz] (*4) | 05,03 |
010011 | M/SPEED2 |
| 04   | MODE   | 00~04 | S1,S2,P1,P2,P3 | 05,04 |
|      |
|      |
+-----+
+-----+

```

```

|   Effect Type = 05 : TEXTREM                               | |
|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| 00      | SPEED      | 32~64 | 1.0~10.0 [Hz]   (*4) | 05,00 | |
010000 | M/SPEED    |       |                   |       | |
| 01      | DEPTH      | 00~64 | 0.0~10.0        |       | |
010001 | M/DEPTH    |       |                   |       | |
|         |            |       |                   |       | |
|         |            |       |                   |       | |
| 04      | SPREAD     | 00~64 | 0.0~10.0        | 05,04 | |
|         |            |       |                   |       | |
| 05      | LEVEL      | 00~5A | 1.0~10.0        | 05,05 | |
010010 | M/LEVEL    |       |                   |       | |
|         |            |       |                   |       | |
|         |            |       |                   |       | |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
|   Effect Type = 06 : ROTARY                               | |
|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| 00      | SPEED1     | 2D~64 | 0.8~10.0 [Hz]   (*4) | 05,00 | |
010000 | M/SPEED1   |       |                   |       | |
| 01      | DEPTH      | 00~64 | 0.0~10.0        | 05,01 | |
010001 | M/DEPTH    |       |                   |       | |
|         |            |       |                   |       | |
|         |            |       |                   |       | |
| 03      | SPEED2     | 2D~64 | 0.8~10.0 [Hz]   (*4) | 05,03 | |
010010 | M/SPEED2   |       |                   |       | |
| 04      | ACCEL      | 00~5A | 1.0~10.0        | 05,04 | |
010011 | M/ACCEL    |       |                   |       | |
|         |            |       |                   |       | |
|         |            |       |                   |       | |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
|   Effect Type = 07 : PITCH SHIFTER                       | |
|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| 00      | PITCH      | 00~30 | -24~24 [x100cent] | 05,00 | |
010000 | M/PITCH    |       |                   |       | |
| 01      | FINE       | 00~64 | -50~50 [cent]    | 05,01 | |
010001 | M/FINE     |       |                   |       | |
|         |            |       |                   |       | |
|         |            |       |                   |       | |
| 03      | TRACKING   | 05~4B | 10~150 [ms] (2ms step) | 05,03 | |
|         |            |       |                   |       | |
| 04      | DIRECT     | 00~64 | 0.0~10.0        | 05,04 | |
010010 | M/DIRECT   |       |                   |       | |
| 05      | EFFECT     | 00~64 | 0.0~10.0        | 05,05 | |
010011 | M/EFFECT   |       |                   |       | |
|         |            |       |                   |       | |
|         |            |       |                   |       | |
+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
|   Effect Type = 08 : MOD DELAY                           | |
|
+-----+-----+-----+-----+-----+-----+-----+
+-----+-----+-----+-----+-----+-----+-----+
| 00      | SPEED      | 00~64 | 0.1~10.0 [Hz]   (*4) | 05,00 | |
010000 | M/SPEED    |       |                   |       | |
| 01      | DEPTH      | 00~64 | 0.0~10.0        | 05,01 | |
010001 | M/DEPTH    |       |                   |       | |
| 02      | FEEDBACK   | 00~64 | 0.0~10.0        | 05,02 | |
010010 | M/FBACK    |       |                   |       | |
| 03      | TIME       | 00~5A | 1.0~10.0        | 05,03 | |

```

010011	M/TIME						
04	MODE	00~02	1,2,3		05,04		
05	MIX	00~64	0.0~10.0		05,05		
010100	M/MIX						
+-----+							
+-----+							
	Effect Type = 09 : FILTRON						
+-----+							
+-----+							
00	ATTACK	00~5A	1.0~10.0		05,00		
010000	M/ATTACK						
01	DEPTH	00~64	0.0~10.0		05,01		
010001	M/DEPTH						
02	RESONANCE	00~64	0.0~10.0		05,02		
010010	M/RESO						
03	MANUAL	00~5A	1.0~10.0		05,03		
010011	M/MANUAL						
04	POLARITY	00,01	UP,DOWN		05,04		
05	SENS	00~64	0.0~10.0		05,05		
010100	M/SENS						
+-----+							
+-----+							
	Effect Type = 0A : TALK MOD						
+-----+							
+-----+							
00	ATTACK	00~5A	1.0~10.0		05,00		
010000	M/ATTACK						
01	DEPTH	00~64	0.0~10.0		05,01		
010001	M/DEPTH						
02	TYPE	00~09	A-E~0-U		05,02		
03	MANUAL	00~5A	1.0~10.0		05,03		
010010	M/MANUAL						
04	POLARITY	00,01	UP,DOWN		05,04		
05	SENS	00~64	0.0~10.0		05,05		
010011	M/SENS						
+-----+							
+-----+							

[ TABLE 1-3 ] DELAY EFFECT Parameter Structure

+-----+							
+-----+							
Expression Target							
+-----+							
+-----+							
Offset	PARAMETER	DATA	VALUE		PARA No.		
DATA	VALUE						
[Dec]		[Hex]			[Hex]		
[BIN]							
+-----+							
+-----+							
	Effect Type = 00 : ECHO PLUS						
+-----+							

```

+-----+
| 00-01 | TIME      | 1A~7D0 | 26~2000 [ms] | 06,00 | |
011001 | D/TIME    |         |                |        | |
| 02    | FEEDBACK  | 00~64  | 0.0~10.0     | 06,01 | |
011010 | D/FBACK   |         |                |        | |
| 03    | TONE      | 00~5A  | 1.0~10.0     | 06,02 | |
011011 | D/TONE    |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |
| 05    | LO DAMP   | 00~64  | 0.0~10.0     | 06,04 | |
011100 | D/LODAMP  |         |                |        | |
| 06    | MIX       | 00~64  | 0.0~10.0     | 06,05 | |
011101 | D/MIX     |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |

```

```

+-----+
| Effect Type = 01 : MULTI HEAD | |
|                               | |

```

```

+-----+
| 00-01 | TIME      | 01~7D0 | 1~2000 [ms] | 06,00 | |
|       |           |         |                |        | |
| 02    | FEEDBACK  | 00~64  | 0.0~10.0     | 06,01 | |
011001 | D/FBACK   |         |                |        | |
| 03    | TONE      | 00~5A  | 1.0~10.0     | 06,02 | |
011010 | D/TONE    |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |
| 05    | MODE      | 00~04  | 1,2,3,4,5    | 06,04 | |
|       |           |         |                |        | |
| 06    | MIX       | 00~64  | 0.0~10.0     | 06,05 | |
011011 | D/MIX     |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |

```

```

+-----+
| Effect Type = 02 : ANALOG DELAY | |
|                               | |

```

```

+-----+
| 00-01 | TIME      | 01~7D0 | 1~2000 [ms] | 06,00 | |
011001 | D/TIME    |         |                |        | |
| 02    | FEEDBACK  | 00~64  | 0.0~10.0     | 06,01 | |
011010 | D/FBACK   |         |                |        | |
| 03    | TONE      | 00~5A  | 1.0~10.0     | 06,02 | |
011011 | D/TONE    |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |
| 06    | MIX       | 00~64  | 0.0~10.0     | 06,05 | |
011100 | D/MIX     |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |

```

```

+-----+
| Effect Type = 03 : MOD DELAY | |
|                               | |

```

```

+-----+
| 00-01 | TIME      | 03~7D0 | 3~2000 [ms] | 06,00 | |
011001 | D/TIME    |         |                |        | |
| 02    | FEEDBACK  | 00~64  | 0.0~10.0     | 06,01 | |
011010 | D/FBACK   |         |                |        | |
| 03    | TONE      | 00~5A  | 1.0~10.0     | 06,02 | |
011011 | D/TONE    |         |                |        | |
|       |           |         |                |        | |
|       |           |         |                |        | |

```

05	SPEED	00~64	0.1~10.0 [Hz]	(*4)	06,04		
011100	D/SPEED						
06	MIX	00~64	0.0~10.0		06,05		
011101	D/MIX						
+-----+							
+-----+							
	Effect Type = 04 : SWEEP DELAY						
+-----+							
+-----+							
00~01	TIME	1A~7D0	26~2000 [ms]		06,00		
011001	D/TIME						
02	FEEDBACK	00~64	0.0~10.0		06,01		
011010	D/FBACK						
03	TONE	00~5A	1.0~10.0		06,02		
011011	D/TONE						
05	SENS	00~64	0.0~10.0		06,04		
011100	D/SENS						
06	MIX	00~64	0.0~10.0		06,05		
011101	D/MIX						
+-----+							
+-----+							
	Effect Type = 05 : STEREO DELAY						
	Effect Type = 06 : CROSS DELAY						
+-----+							
+-----+							
00~01	TIME	01~FA0	1~4000 [ms]		06,00		
02	FEEDBACK	00~64	0.0~10.0		06,01		
011001	D/FBACK						
03	TONE	00~5A	1.0~10.0		06,02		
011010	D/TONE						
04	DUCKING	00~64	0.0~10.0		06,03		
011011	D/DUCK						
06	MIX	00~64	0.0~10.0		06,05		
011100	D/MIX						
+-----+							
+-----+							
	Effect Type = 07 : 2TAP DELAY						
+-----+							
+-----+							
00~01	TIME	01~FA0	1~4000 [ms]		06,00		
02	FEEDBACK	00~64	0.0~10.0		06,01		
011001	D/FBACK						
03	TONE	00~5A	1.0~10.0		06,02		
011010	D/TONE						
04	DUCKING	00~64	0.0~10.0		06,03		
011011	D/DUCK						
05	TAP TIME	00~64	0.0~10.0		06,04		
06	MIX	00~64	0.0~10.0		06,05		
011100	D/MIX						

Effect Type = 08 : RHYTHM DELAY					
00~01	TIME	01~FA0	1~4000 [ms]	06,00	
02	FEEDBACK	00~64	0.0~10.0	06,01	
011001	D/FBACK				
03	TONE	00~5A	1.0~10.0	06,02	
011010	D/TONE				
04	DUCKING	00~64	0.0~10.0	06,03	
011011	D/DUCK				
05	RHYTHM	00~0A	1~11	06,04	
06	MIX	00~64	0.0~10.0	06,05	
011100	D/MIX				
Effect Type = 09 : HOLD DELAY					
00~01	TIME	01~1F40	1~8000 [ms]	06,00	
02	FEEDBACK	00~64	0.0~10.0	06,01	
011001	D/FBACK				
03	TONE	00~5A	1.0~10.0	06,02	
011010	D/TONE				
06	MIX	00~64	0.0~10.0	06,05	
011011	D/MIX				
Effect Type = 0A : REVERSE DELAY					
00~01	TIME	1A~1F40	26~8000 [ms]	06,00	
02	FEEDBACK	00~64	0.0~10.0	06,01	
011001	D/FBACK				
03	TONE	00~5A	1.0~10.0	06,02	
011010	D/TONE				
06	MIX	00~64	0.0~10.0	06,05	

[ TABLE 1-4 ] REVERB EFFECT Parameter Structure

Expression Target

Offset DATA [Dec] [BIN]	PARAMETER VALUE	DATA [Hex]	VALUE	PARA No.
	Effect Type = 00		SLAP	
	Effect Type = 01		SPRING	
	Effect Type = 02		BOUNCE	
	Effect Type = 03		PLATE	
	Effect Type = 04		GARAGE	
	Effect Type = 05		CHAMBER	
	Effect Type = 06		CANYON	
	Effect Type = 07		ROOM	
	Effect Type = 08		STUDIO	
	Effect Type = 09		HALL	
	Effect Type = 0A		ARENA	
00 100001	TIME R/TIME	00~5A	1.0~10.0	07,00
01 100010	LO DAMP R/LODAMP	00~64	0.0~10.0	07,01
02 100011	HI DAMP R/HIDAMP	00~64	0.0~10.0	07,02
03	PRE DLY	00~64	0~70 [ms]	07,03
05 100100	MIX R/MIX	00~64	0.0~10.0	07,05

[ TABLE 1-5 ] AMP Type List

DATA [Hex]	AMP Type
00	AC15
01	AC15TB
02	AC30
03	AC30TB
04	UK BLUES
05	UK 68P
06	UK '80S
07	UK '90S
08	UK MODERN
09	US MODERN
0A	US HIGAIN

0B	BOUTIQUE OD	
0C	BOUTIQUE CL	
0D	BLACK 2x12	
0E	TWEED 1x12	
0F	TWEED 4x10	

[ TABLE 1-6 ] CABINET Type List

DATA	CABINET Type	
[Hex]		
00	TWEED 1x8	
01	TWEED 1x12	
02	TWEED 4x10	
03	BLACK 2x10	
04	BLACK 2x12	
05	VOX AC15	
06	VOX AC30	
07	VOX AD120VTX	
08	UK H30 4x12	
09	UK T75 4x12	
0A	US V30 4x12	

[ TABLE 1-7 ] EXPRESSION PEDAL Target List

DATA	Target	TARGET RANGE
[Bin]		DATA[Hex] :
VALUE		
000000	--OFF-- No Target	
000001	VOLUME Volume Pedal	00~64 :
0.0~10.0		
001nnn	P/?????? PEDAL Parameter (TABLE 1-1)	Same as
Parameter Value Range		
010nnn	M/?????? MODULATION Parameter (TABLE 1-2)	Same as
Parameter Value Range		
011000	D/INPUT DELAY Input Level	00~64 :
0.0~10.0		
011nnn	D/?????? DELAY Parameter (TABLE 1-3)	Same as
Parameter Value Range		
100000	R/INPUT REVERB Input Level	00~64 :
0.0~10.0		
100nnn	R/?????? REVERB Parameter (TABLE 1-4)	Same as



Parameter	Value	Range	
101000	A/GAIN	AMP GAIN	00~64 :
0.0~10.0			
101001	A/VRGAIN	AMP VR GAIN	00~64 :
0.0~10.0			

[ TABLE 1-8 ] CONTROL PEDAL Target List

DATA	Target
[Hex]	
00	I/OnOFF INSERT On/Off
01	P/OnOFF PEDAL On/Off
02	A/OnOFF AMP On/Off
03	AC/OnOFF AMP&CABINET On/Off
04	C/OnOFF CABINET On/Off
05	M/OnOFF MODULATION On/Off
06	D/OnOFF DELAY On/Off
07	R/OnOFF REVERB On/Off
08	MOD TAP MODULATION TAP (SPEED)
09	DLY TAP DELAY TAP (TIME)
0A	FLN TRIG FLANGER (TRIGGER)
0B	ROT SPD ROTARY (SPEED SW)
0C	HOLD DLY HOLD DELAY (HOLD)

\*3 : DATA[Hex] VALUE

00	1/6
01	1/4
02	1/3
03	1/2
04	2/3
05	3/4
06	1
07	4/3
08	3/2
09	2
0A	3
0B	4

\*4 : DATA[Hex] VALUE[Hz]

00~09	0.100 ~ 0.145 (0.005 step)
0A~18	0.15 ~ 0.29 (0.01 step)
19~27	0.30 ~ 0.58 (0.02 step)
28~31	0.60 ~ 0.96 (0.04 step)
32~3B	1.00 ~ 1.45 (0.05 step)
3C~4A	1.5 ~ 2.9 (0.1 step)
4B~59	3.0 ~ 5.8 (0.2 step)
5A~63	6.0 ~ 9.6 (0.4 step)
64	10.0

[ TABLE 2 ] GLOBAL PARAMETERS

No. : Address in the GLOBAL DUMP DATA.  
 PARA No. : Parameter ID, SUB ID for PARAMETER CHANGE.

No.	PARAMETER	DATA	VALUE
[Dec]		[Hex]	
[Hex]			
00	b0~3   MIDI Channel	0~F	1~16
40,00			
	b4~7   (Reserved)		
01	b0   MIDI ProgChg Output	00,01	Off, On
41,00			
	b1   MIDI CtrlChg In/Out	00,01	Off, On
41,01			
	b2   MIDI SysEx Output	00,01	Off, On
41,02			
	b3~4   (Reserved)		
	b5   EXP Pedal Ctrl Init	00,01	Off, On
41,05			
	b6~7   (Reserved)		
02	CC# for EXP Pedal	00,1~60	Off, CC00~CC95
42,00			
03	CC# for CONTROL Pedal	00,1~60	Off, CC00~CC95
42,02			
04	CC# for PEDAL On/Off	00,1~60	Off, CC00~CC95
42,03			
05	CC# for MOD On/Off	00,1~60	Off, CC00~CC95
42,04			
06	CC# for DELAY On/Off	00,1~60	Off, CC00~CC95
42,05			
07	CC# for REVERB On/Off	00,1~60	Off, CC00~CC95
42,06			
08	CC# for INSERT On/Off	00,1~60	Off, CC00~CC95
42,07			

```

+-----+-----+
| 09    | CC# for AMP On/Off | 00,1~60 | Off, CC00~CC95
| 42,09 |
+-----+-----+
| 0A    | CC# for CAB On/Off | 00,1~60 | Off, CC00~CC95
| 42,0A |
+-----+-----+
| 0B    | Output Select      | 00~04   | AP1,AP2,AP3,Ln1,Ln2
| 43,01 |
+-----+-----+
| 0C    | EQ Trim            | 00~64   | -10.0~0.0~10.0
| 43,02 |
+-----+-----+
| 0D    | EQ Lo Gain         | 00~64   | -10.0~0.0~10.0
| 43,03 |
+-----+-----+
| 0E    | EQ Mid Freq        | 00~04   | 1~5
| 43,04 |
+-----+-----+
| 0F    | EQ Mid Gain        | 00~64   | -10.0~0.0~10.0
| 43,05 |
+-----+-----+
| 10    | EQ Hi Gain         | 00~64   | -10.0~0.0~10.0
| 43,06 |
+-----+-----+
| 11    | DigitalOut Level   | 00~04   | -12,-6,0,6,12 [dB]
| 43,00 |
+-----+-----+

```