



disklavier

Mark II XG Series

Appendix
MIDI Data Format

Appendix MIDI Data Format

If you are familiar with MIDI, or are using a computer to control your music software with computer-generated MIDI messages, the data provided in this section can help you to control your Disklavier.

Messages include those that can be received by the piano part and/or those that can be received by an ESBL part. Messages that can be transmitted as well as received are shown as "transmitted".

1. CHANNEL MESSAGES

<p>1.1 Key On / Key Off (Piano Part, ESBL Part) (transmitted)</p> <p>Piano Part reception note range = A-1 ~ C7 : C3=60 ESBL part reception note range = C-2 ~ G8 Velocity range = 1 ~ 127 (Only the Key On velocity is received)</p>	<p>1.2.7 Expression (Piano Part, ESBL Part)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>Pan</td> <td>0...127</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	10	Pan	0...127															
Cntrl#	Parameter	Data Range																				
10	Pan	0...127																				
<p>1.2 Control Change</p> <p>1.2.1 Bank Select (ESBL Part) (transmitted)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Bank Select MSB</td> <td>0: Normal, 63: User voice, 64: SFX, 126: SFX kit, 127: Drum 0...127</td> </tr> <tr> <td>32</td> <td>Bank Select LSB</td> <td>0...127</td> </tr> </tbody> </table> <p>You can select the Voice banks with MSB and LSB numbers. MSB and LSB functions differently depending on the play mode. In XG mode, MSB numbers select Voice type (Normal Voice or Drum Voice), and LSB number select Voice banks. In TG300B mode, LSB is fixed, and MSB numbers select Voice banks. (See Normal Voice List Drum Voice List.) A new bank selection will not become effective until the next Program Change message is received.</p>	Cntrl#	Parameter	Data Range	0	Bank Select MSB	0: Normal, 63: User voice, 64: SFX, 126: SFX kit, 127: Drum 0...127	32	Bank Select LSB	0...127	<p>1.2.8 Hold1 (Piano Part, ESBL Part) (transmitted)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>64</td> <td>Hold1</td> <td>0...127 (0-63:off, 64-127:on)</td> </tr> </tbody> </table> <p>1.2.9 Portamento (ESBL Part)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>65</td> <td>Portamento</td> <td>0...127 (0-63:off, 64-127:on)</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	64	Hold1	0...127 (0-63:off, 64-127:on)	Cntrl#	Parameter	Data Range	65	Portamento	0...127 (0-63:off, 64-127:on)
Cntrl#	Parameter	Data Range																				
0	Bank Select MSB	0: Normal, 63: User voice, 64: SFX, 126: SFX kit, 127: Drum 0...127																				
32	Bank Select LSB	0...127																				
Cntrl#	Parameter	Data Range																				
64	Hold1	0...127 (0-63:off, 64-127:on)																				
Cntrl#	Parameter	Data Range																				
65	Portamento	0...127 (0-63:off, 64-127:on)																				
<p>1.2.2 Modulation (ESBL Part)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modulation</td> <td>0...127</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	1	Modulation	0...127	<p>1.2.10 Sostenuto (Piano Part, ESBL Part) (transmitted)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>66</td> <td>Sostenuto</td> <td>0...127 (0-63:off, 64-127:on)</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	66	Sostenuto	0...127 (0-63:off, 64-127:on)									
Cntrl#	Parameter	Data Range																				
1	Modulation	0...127																				
Cntrl#	Parameter	Data Range																				
66	Sostenuto	0...127 (0-63:off, 64-127:on)																				
<p>1.2.3 Portamento Time (ESBL Part)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Portamento Time</td> <td>0...127</td> </tr> </tbody> </table> <p>When the parameter 1.2.9 Portamento = ON, values will adjust the speed of pitch change. A setting of 0 - minimum portamento time, and 127 - maximum portamento time.</p>	Cntrl#	Parameter	Data Range	5	Portamento Time	0...127	<p>1.2.11 Soft Pedal (Piano Part, ESBL Part) (transmitted)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>67</td> <td>Soft Pedal</td> <td>0...127 (0-63:off, 64-127:on)</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	67	Soft Pedal	0...127 (0-63:off, 64-127:on)									
Cntrl#	Parameter	Data Range																				
5	Portamento Time	0...127																				
Cntrl#	Parameter	Data Range																				
67	Soft Pedal	0...127 (0-63:off, 64-127:on)																				
<p>1.2.4 Data Entry (ESBL Part)</p> <p>Messages which set the value for the parameter specified by RPN/NRPN.</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Data Entry MSB</td> <td>0...127</td> </tr> <tr> <td>38</td> <td>Data Entry LSB</td> <td>0...127</td> </tr> </tbody> </table> <p>Parameter value is determined by combining MSB and LSB.</p>	Cntrl#	Parameter	Data Range	6	Data Entry MSB	0...127	38	Data Entry LSB	0...127	<p>1.2.12 Harmonic Content (ESBL Part)</p> <p>Messages which adjust the resonance set for each Voice.</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>71</td> <td>Harmonic Content</td> <td>0...127 (0:-64, 64:+0, 127:+63)</td> </tr> </tbody> </table> <p>Higher values will result in a more characteristic, resonant sound. Depending on the Voice, the effective range may be narrower than the range available for adjustment.</p>	Cntrl#	Parameter	Data Range	71	Harmonic Content	0...127 (0:-64, 64:+0, 127:+63)						
Cntrl#	Parameter	Data Range																				
6	Data Entry MSB	0...127																				
38	Data Entry LSB	0...127																				
Cntrl#	Parameter	Data Range																				
71	Harmonic Content	0...127 (0:-64, 64:+0, 127:+63)																				
<p>1.2.5 Main Volume (Piano Part, ESBL Part) (transmitted)</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>Main Volume</td> <td>0...127</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	7	Main Volume	0...127	<p>1.2.13 Release Time (ESBL Part)</p> <p>Messages which adjust the envelope release time set for each Voice.</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>Release Time</td> <td>0...127 (0:-64, 64:+0, 127:+63)</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	72	Release Time	0...127 (0:-64, 64:+0, 127:+63)									
Cntrl#	Parameter	Data Range																				
7	Main Volume	0...127																				
Cntrl#	Parameter	Data Range																				
72	Release Time	0...127 (0:-64, 64:+0, 127:+63)																				
<p>1.2.6 Pan (ESBL Part)</p>	<p>1.2.14 Attack Time (ESBL Part)</p> <p>Messages which adjust the envelope attack time set for each Voice.</p> <table border="0"> <thead> <tr> <th>Cntrl#</th> <th>Parameter</th> <th>Data Range</th> </tr> </thead> <tbody> <tr> <td>73</td> <td>Attack Time</td> <td>0...127 (0:-64, 64:+0, 127:+63)</td> </tr> </tbody> </table>	Cntrl#	Parameter	Data Range	73	Attack Time	0...127 (0:-64, 64:+0, 127:+63)															
Cntrl#	Parameter	Data Range																				
73	Attack Time	0...127 (0:-64, 64:+0, 127:+63)																				

1.2.15 Brightness
(ESBL Part)

Messages which adjust the filter cutoff frequency set for each Voice.

Cntrl#	Parameter	Data Range
74	Brightness	0...127 (0:-64, 64:+0, 127:+63)

1.2.16 Portamento Control
(ESBL Part)

Messages which apply a portamento between the currently-sounding note and the subsequent note.

Cntrl#	Parameter	Data Range
84	Portamento Control	0...127

1.2.17 Effect1 Depth (Reverb Send Level)
(ESBL Part)

Cntrl#	Parameter	Data Range
91	Effect1 Depth	0...127

1.2.18 Effect3 Depth (Chorus Send Level)
(ESBL Part)

Cntrl#	parameter	Data Range
93	Effect3 Depth	0...127

1.2.19 Effect4 Depth (Variation Effect Send Level)
(ESBL Part)

Cntrl#	Parameter	Data Range
94	Effect4 Depth	0...127

1.2.20 Data Increment / Decrement (for RPN)
(ESBL Part)

Cntrl#	Parameter	Data Range
96	RPN Increment	0...127
97	RPN Decrement	0...127

1.2.21 NRPN (Non-Registered Parameter Number)
(ESBL Part)

Cntrl#	Parameter	Data Range
98	NRPN LSB	0...127
99	NRPN MSB	0...127

First send the NRPN MSB and NRPN LSB to specify the parameter which is to be controlled. Then use Data Entry to set the value of the specified parameter.

* Note that once the NRPN has been set for a channel subsequent data entry will be recognized as the same NRPN's value change. Therefore, after you use the NRPN, you should set a Null (7FH, 7FH) value to avoid an unexpected result.

The following NRPN number can be received.

NRPN	Data entry		
MSB	LSB	MSB	PARAMETER NAME and VALUE RANGE
\$01	\$08	\$mm	Vibrato Rate mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$09	\$mm	Vibrato Depth mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$0A	\$mm	Vibrato Delay mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$20	\$mm	Filter Cutoff Frequency mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$21	\$mm	Filter Resonance mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$63	\$mm	EG Attack Time mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$64	\$mm	EG Decay Time mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$01	\$66	\$mm	EG Release Time mm : \$00 - \$40 - \$7F (-64 - 0 - +63)
\$14	\$rr	\$mm	Drum Filter Cutoff Frequency mm : \$00 - \$40 - \$7F (-64 - 0 - +63) rr : drum instrument note number
\$15	\$rr	\$mm	Drum Filter Resonance mm : \$00 - \$40 - \$7F (-64 - 0 - +63) rr : drum instrument note number

\$16	\$rr	\$mm	Drum EG Attack mm : \$00 - \$40 - \$7F (-64 - 0 - +63) rr : drum instrument note number
\$17	\$rr	\$mm	Drum EG Decay Rate mm : \$00 - \$40 - \$7F (-64 - 0 - +63) rr : drum instrument note number Applies to both Decay1 and 2.
\$18	\$rr	\$mm	Drum Instrument Pitch Coarse mm : \$00 - \$40 - \$7F (-64 - 0 - +63) rr : drum instrument note number
\$19	\$rr	\$mm	Drum Instrument Pitch Fine mm : \$00 - \$40 - \$7F (-64 - 0 - +63) rr : drum instrument note number
\$1A	\$rr	\$mm	Drum Instrument Level mm : \$00 - \$7F (0 - max) rr : drum instrument note number
\$1C	\$rr	\$mm	Drum Instrument Pan mm : \$00 - \$40 - \$7F (random, left - center - right) rr : drum instrument note number
\$1D	\$rr	\$mm	Drum Instrument Reverb Send Level mm : \$00 - \$7F (0 - max) rr : drum instrument note number
\$1E	\$rr	\$mm	Drum Instrument Chorus Send Level mm : \$00 - \$7F (0 - max) rr : drum instrument note number
\$1F	\$rr	\$mm	Drum Instrument Variation Send Level mm : \$00 - \$7F (0 - max) rr : drum instrument note number

MSB 14H- 1FH (for Drum) is valid only if the Multi Part parameter PART MODE = DRUMS 1 or DRUMS2 for that channel. (If PART MODE = DRUM, no values will be changed.)

1.2.22 RPN (Registered Parameter Number) (ESBL Part)

Cntrl#	Parameter	Data Range
100	RPN LSB	0...127
101	RPN MSB	0...127

The following RPN numbers can be received.

RPN	Data entry			
MSB	LSB	MSB	LSB	PARAMETER NAME and VALUE RANGE
00H	00H	mmH	--	Pitch Bend Sensitivity mm:00-18H (0-24 chromatic steps) Assignable in chromatic steps up to 2 octaves Default : 02H LSB value is ignored.
00H	01H	mmH	11H	Fine Tuning mm: 00H-40H-7FH (-64-0-+63)
00H	02H	mmH	--	Coarse Tuning mm: 28H - 40H - 58H (-24 - +24 chromatic steps) LSB value is ignored.
7FH	7FH	--	--	RPN null Cancels RPN and NRPN numbers

1.2.23 Channel Mode Messages

The following Channel Mode Messages can be received.

2nd byte	3rd byte	
120	0	All Sound Off
121	0	Reset All Controllers
123	0	All Note Off
124	0	Omni Off
125	0	Omni On
126	0 - 16	Mono
127	0	Poly

1.2.23.1 All Sound Off (Piano Part, ESBL Part) (transmitted)

ESBL part;
Terminates all sounds currently sounding on the specified channel. However, the status of channel messages such as Note On and Hold On is maintained.
Piano Part;
The status of channel messages is not maintained.

1.2.23.2 Reset All Controllers (ESBL Part)

The values of the following controllers will be reset to the defaults.

CONTROLLER	VALUE
Pitch Bend Change	±0 (center)
Channel Aftertouch	0 (off)
Polyphonic Aftertouch	0 (off)
Modulation	0 (off)
Expression	127 (max)
Hold 1	0 (off)
Portamento	0 (off)
Sostenuto	0 (off)
Soft Pedal	0 (off)
Portamento Control	0 (off)
RPN	number not specified; internal data will not change
NRPN	number not specified; internal data will not change

1.2.23.3 All Note Off (Piano Part, ESBL Part) (transmitted)

Terminates all notes currently on for the specified channel. However, if Hold 1 or Sostenuto is on, notes will continue sounding until these are turned off.

1.2.23.4 Omni Off (Piano Part, ESBL Part)

Performs the same function as when an All Notes Off message is received.

1.2.23.5 Omni On (Piano Part, ESBL Part)

Performs the same function as when an All Notes Off message is received.

1.2.23.6 Mono (Piano Part, ESBL Part)

Performs the same function as when an All Sounds on message is received, and if the 3rd byte (mono number) is in the range of 0 - 16, sets the corresponding channel to Mono Mode (Mode 4 : m = 1).

1.2.23.7 Poly (Piano Part, ESBL Part)

Performs the same function as when an All Sounds Off message is received, and sets the corresponding channel to Poly Mode (Mode 3).

1.2.24 Local Control (Piano Part, ESBL Part)

0:Off Disklavier keyboard does not play the internal voices.
127:On

1.3 Program Change (ESBL Part) (transmitted)

Messages for Voice selection.
With a combination of Bank Select, you can select not only basic Voice numbers, but also variation Voice bank numbers.

1.4 Pitch Bend (ESBL Part)

When Multi Part Parameter Rev PITCH BEND CHANGE=OFF, pitch bend for that part is not received.

1.5 Channel Aftertouch (ESBL Part)

1.6 Polyphonic Aftertouch (ESBL Part)

2. SYSTEM EXCLUSIVE MESSAGES

2.1 Parameter Change

The Disklavier receives the following parameter change messages.

[UNIVERSAL REALTIME MESSAGE]

1) Master Volume

[UNIVERSAL NON REALTIME MESSAGE]

1) General MIDI Mode On

[XG NATIVE]

- 1) XG System on
- 2) XG System Data parameter change
- 3) Multi Effect1 Data parameter change
- 4) Multi Part Data parameter change
- 5) Drums Setup Data parameter change

[OTHER]

- 1) Master tuning
- 2) TG300 System Data Parameter change
- 3) TG300 Multi Effect Data parameter change
- 4) TG300 Multi Part Data parameter change

2.1.2 Universal Realtime Messages

2.1.2.1 Master Volume (Piano Part, ESBL Part)

11110000	F0	= Exclusive status
01111111	7F	= Universal Real Time
01111111	7F	= ID of target device
00001000	04	= Sub-ID #1=Device Control Message
00000001	01	= Sub-ID #2=Master Volume
0sssssss	*SS	= Volume LSB
0tttttt	TT	= Volume MSB
11110111	F7	= End of Exclusive
or		
11110000	F0	= Exclusive status
01111111	7F	= Universal Real Time
0xxxxnnn	XN	= Device Number, xxx = don't care
00001000	04	= Sub-ID #1=Device Control Message
00000001	01	= Sub-ID #2=Master Volume
0sssssss	SS	= Volume LSB
0tttttt	TT	= Volume MSB
11110111	F7	= End of Exclusive

When received, the Volume MSB will be effective for the System Parameter MASTER VOLUME.

* "SS" is the hexadecimal expression of 0sssssss; same as for "tt", "aa", etc.

2.1.3 Universal Non-Realtime Messages

2.1.3.1 General MIDI Mode On (ESBL Part)

11110000	F0	= Exclusive status
01111110	7E	= Universal Non-Real Time
01111111	7F	= ID of target device
00001001	09	= Sub-ID #1=General MIDI Message
00000001	01	= Sub-ID #2=General MIDI On
11110111	F7	= End of Exclusive
or		
11110000	F0	= Exclusive status
01111110	7E	= Universal Non-Real Time
0xxxxnnn	XN	= Device Number, xxx = don't care
00001001	09	= Sub-ID #1=General MIDI Message
00000001	01	= Sub-ID #2=General MIDI On
11110111	F7	= End of Exclusive

When General MIDI Mode On is received, the play mode will be changed to XG mode.

When this happens, the ESBL part will receive the MIDI messages which compatible with GM System Level 1, and consequently will not receive NRPN and Bank Select messages. Since approximately 50ms is required to execute this message, be sure to leave an appropriate interval before the subsequent message.

2.1.4 XG Native Parameter Change (ESBL Part)

With the Parameter Change messages as listed below, you can change the characteristic of a Voice, such as by Effect Type or effect parameter, transpose, tuning, and others.

11110000	F0	Exclusive status
01000011	43	YAMAHA ID

	09	1	00-7F	REVERB PARAMETER 8	**	**	nn 04	1	00 - 0F, 7F	Rev CHANNEL	1 - 16,OFF	part no.
	0A	1	00-7F	REVERB PARAMETER 9	**	**	nn 05	1	00 - 01	MONO/POLY MODE	0:MONO	01
	0B	1	00-7F	REVERB PARAMETER 10	**	**					1:POLY	
	0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB(0...64...127)	40	nn 06	1	00 - 02	SAME NOTE NUMBER KEY ON ASSIGN	0:SINGLE	1 (all part)
	0D	1	01-7F	REVERB PAN	L63...C...R63(1...64...127)	40					1:MULTI	part10=2, other=0
TOTAL SIZE		0E										
02	01	10	1	00-7F	REVERB PARAMETER 11	see Effect Parameter List	nn 07	1	00 - 03	PART MODE	2:INST (for DRUM)	
		11	1	00-7F	REVERB PARAMETER 12	Depends on reverb type					0:NORMAL	00 (other than Part10)
		12	1	00-7F	REVERB PARAMETER 13	**					1:DRUM	02 (Part10)
		13	1	00-7F	REVERB PARAMETER 14	**	nn 08	1	28 - 58	NOTE SHIFT	2-3:DRUMS1 - 2	
		14	1	00-7F	REVERB PARAMETER 15	**	nn 09	2	00 - FF	DETUNE	-24 - +24 [semitones]	40
		15	1	00-7F	REVERB PARAMETER 16	**	nn 0A				-12.8 - +12.7 [Hz]	08 00
TOTAL SIZE		6									1st bit3-0→bit7-4	(80)
											2nd bit3-0→bit3-0	
02	01	20	2	00-7F	CHORUS TYPE MSB	see Effect Type List	nn 0B	1	00 - 7F	VOLUME	0 - 127	64
				00-7F	CHORUS TYPE LSB	00 : basic type	nn 0C	1	00 - 7F	VELOCITY SENSE DEPTH	0 - 127	40
		22	1	00-7F	CHORUS PARAMETER 1	see Effect Parameter List	nn 0D	1	00 - 7F	VELOCITY SENSE OFFSET	0 - 127	40
		23	1	00-7F	CHORUS PARAMETER 2	Depends on chorus Type	nn 0E	1	00 - 7F	PAN	0/random, 1/L63-64/C-127/R63	40
		24	1	00-7F	CHORUS PARAMETER 3	**	nn 0F	1	00 - 7F	NOTE LIMIT LOW	C-2 - G8	00
		25	1	00-7F	CHORUS PARAMETER 4	**	nn 10	1	00 - 7F	NOTE LIMIT HIGH	C-2 - G8	7F
		26	1	00-7F	CHORUS PARAMETER 5	**	nn 11	1	00 - 7F	DRY LEVEL	0 - 127	7F
		27	1	00-7F	CHORUS PARAMETER 6	**	nn 12	1	00 - 7F	CHORUS SEND	0 - 127	00
		28	1	00-7F	CHORUS PARAMETER 7	**	nn 13	1	00 - 7F	REVERB SEND	0 - 127	40
		29	1	00-7F	CHORUS PARAMETER 8	**	nn 14	1	00 - 7F	VARIATION SEND	0 - 127	00
		2A	1	00-7F	CHORUS PARAMETER 9	**						
		2B	1	00-7F	CHORUS PARAMETER 10	**	nn 15	1	00 - 7F	VIBRATO RATE	-64 - +63	40
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB(0...64...127)	nn 16	1	00 - 7F	VIBRATO DEPTH	-64 - +63	40 (drum part ignores)
		2D	1	01-7F	CHORUS PAN	L63...C...R63(1...64...127)	nn 17	1	00 - 7F	VIBRATO DELAY	-64 - +63	40 (drum part ignores)
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB(0...64...127)	nn 18	1	00 - 7F	FILTER CUTOFF FREQUENCY	-64 - +63	40
TOTAL SIZE		0F					nn 19	1	00 - 7F	FILTER RESONANCE	-64 - +63	40
							nn 1A	1	00 - 7F	EG ATTACK TIME	-64 - +63	40
02	01	30	1	00-7F	CHORUS PARAMETER 11	see Effect Parameter List	nn 1B	1	00 - 7F	EG DECAY TIME	-64 - +63	40
		31	1	00-7F	CHORUS PARAMETER 12	Depends on chorus Type	nn 1C	1	00 - 7F	EG RELEASE TIME	-61 - +63	40
		32	1	00-7F	CHORUS PARAMETER 13	**						
		33	1	00-7F	CHORUS PARAMETER 14	**	nn 1D	1	28 - 58	MW PITCH CONTROL	-24 - +24 [semitones]	40
		34	1	00-7F	CHORUS PARAMETER 15	**	nn 1E	1	00 - 7F	MW FILTER CONTROL	-9600 - +9450 [cent]	40
		35	1	00-7F	CHORUS PARAMETER 16	**	nn 1F	1	00 - 7F	MW AMPLITUDE CONTROL	-64 - +63	40
TOTAL SIZE		6					nn 20	1	00 - 7F	MW LFO PMOD DEPTH	0 - 127	0A
							nn 21	1	00 - 7F	MW LFO FMOD DEPTH	0 - 127	00
02	01	40	2	00-7F	VARIATION TYPE MSB	see Effect Type List	nn 22	1	00 7F	MW LFO AMOD DEPTH	0 - 127	00
				00-7F	VARIATION TYPE LSB	00 : basic type						
		42	2	00-7F	VARIATION PARAMETER 1 MSB	see Effect Parameter List	nn 23	1	28 - 58	BEND PITCH CONTROL	-24 - +24 [semitones]	42
				00-7F	VARIATION PARAMETER 1 LSB	Depends on variation type	nn 24	1	00 - 7F	BEND FILTER CONTROL	-9600 - +9450 [cent]	40
		44	2	00-7F	VARIATION PARAMETER 2 MSB	**	nn 25	1	00 - 7F	BEND AMPLITUDE CONTROL	-64 - +63	40
				00-7F	VARIATION PARAMETER 2 LSB	**	nn 26	1	00 - 7F	BEND LFO PMOD DEPTH	+100 - +100 [%]	40
		46	2	00-7F	VARIATION PARAMETER 3 MSB	**	nn 27	1	00 - 7F	BEND LFO FMOD DEPTH	+100 - +100 [%]	40
				00-7F	VARIATION PARAMETER 3 LSB	**	nn 28	1	00 - 7F	BEND LFO AMOD DEPTH	+100 - +100 [%]	40
		48	2	00-7F	VARIATION PARAMETER 4 MSB	**	TOTAL SIZE	29				
				00-7F	VARIATION PARAMETER 4 LSB	**	nn 30	1	00 - 01	Rev PITCH BEND	0/OFF, 1/ON	01
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	**	nn 31	1	00 - 01	Rev CH AFTER TOUCH (CAT)	0/OFF, 1/ON	01
				00-7F	VARIATION PARAMETER 5 LSB	**	nn 32	1	00 - 01	Rev PROGRAM CHANGE	0/OFF, 1/ON	01
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	**	nn 33	1	00 - 01	Rev CONTROL CHANGE	0/OFF, 1/ON	01
				00-7F	VARIATION PARAMETER 6 LSB	**	nn 34	1	00 - 01	Rev POLY AFTER TOUCH (PAT)	0/OFF, 1/ON	01
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	**	nn 35	1	00 - 01	Rev NOTE MESSAGE	0/OFF, 1/ON	01
				00-7F	VARIATION PARAMETER 7 LSB	**	nn 36	1	00 - 01	Rev RPN	0/OFF, 1/ON	01
		50	2	00-7F	VARIATION PARAMETER 8 MSB	**	nn 37	1	00 - 01	Rev NRPN	0/OFF, 1/ON	XG=01, GM=00
				00-7F	VARIATION PARAMETER 8 LSB	**	nn 38	1	00 - 01	Rev MODULATION	0/OFF, 1/ON	01
		52	2	00-7F	VARIATION PARAMETER 9 MSB	**	nn 39	1	00 - 01	Rev VOLUME	0/OFF, 1/ON	01
				00-7F	VARIATION PARAMETER 9 LSB	**	nn 3A	1	00 - 01	Rev PAN	0/OFF, 1/ON	01
		54	2	00-7F	VARIATION PARAMETER 10 MSB	**	nn 3B	1	00 - 01	Rev EXPRESSION	0/OFF, 1/ON	01
				00-7F	VARIATION PARAMETER 10 LSB	**	nn 3C	1	00 - 01	Rev HOLD1	0/OFF, 1/ON	01
		56	1	00-7F	VARIATION RETURN	-∞ dB...0dB...+6dB(0...64...127)	nn 3D	1	00 - 01	Rev PORTAMENTO	0/OFF, 1/ON	01
		57	1	01-7F	VARIATION PAN	L63...C...R63(1...64...127)	nn 3E	1	00 - 01	Rev SOSTENUTO	0/OFF, 1/ON	01
		58	1	00-7F	SEND VARIATION TO REVERB	-∞ dB...0dB...+6dB(0...64...127)	nn 3F	1	00 - 01	Rev SOFT PEDAL	0/OFF, 1/ON	01
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞ dB...0dB...+6dB(0...64...127)						
		5A	1	00-01	VARIATION CONNECTION	0:INSERTION, 1:SYSTEM						
		5B	1	00-0F,7F	VARIATION PART	Part1...16(0...15)	nn 40	1	00 - 01	Rev BANK SELECT	0/OFF,1/ON	XG=01, GM=00
						0FF (127)	nn 41	1	00 - 7F	SCALE TUNING C	-64 - +63 [cent]	40
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64 - +63	nn 42	1	00 - 7F	SCALE TUNING C#	-64 - +63 [cent]	40
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64 - +63	nn 43	1	00 - 7F	SCALE TUNING D	-64 - +63 [cent]	40
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64 - +63	nn 44	1	00 - 7F	SCALE TUNING D#	-64 - +63 [cent]	40
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64 - +63	nn 45	1	00 - 7F	SCALE TUNING E	-64 - +63 [cent]	40
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64 - +63	nn 46	1	00 - 7F	SCALE TUNING F	-64 - +63 [cent]	40
TOTAL SIZE		21					nn 47	1	00 - 7F	SCALE TUNING F#	-64 - +63 [cent]	40
							nn 48	1	00 - 7F	SCALE TUNING G	-64 - +63 [cent]	40
02	01	70	1	00-7F	VARIATION PARAMETER 11	see Effect Parameter List	nn 49	1	00 - 7F	SCALE TUNING G#	-64 - +63 [cent]	40
		71	1	00-7F	VARIATION PARAMETER 12	Depends on variation type	nn 4A	1	00 - 7F	SCALE TUNING A	-64 - +63 [cent]	40
		72	1	00-7F	VARIATION PARAMETER 13	**	nn 4B	1	00 - 7F	SCALE TUNING A#	-64 - +63 [cent]	40
		73	1	00-7F	VARIATION PARAMETER 14	**	nn 4C	1	00 - 7F	SCALE TUNING B	-64 - +63 [cent]	40
		74	1	00-7F	VARIATION PARAMETER 15	**						
		75	1	00-7F	VARIATION PARAMETER 16	**	nn 4D	1	28 - 58	CAT PITCH CONTROL	-24 - +24 [semitones]	40
TOTAL SIZE		6					nn 4E	1	00 - 7F	CAT FILTER CONTROL	-9600 - +9450 [cent]	40
							nn 4F	1	00 - 7F	CAT AMPLITUDE CONTROL	-64 - +63	40
							nn 50	1	00 - 7F	CAT LFO PMOD DEPTH	0 - 127	00
							nn 51	1	00 - 7F	CAT LFO FMOD DEPTH	0 - 127	00
							nn 52	1	00 - 7F	CAT LFO AMOD DEPTH	0 - 127	00
							nn 53	1	28 - 58	PAT PITCH CONTROL	-24 - +24 [semitones]	40
							nn 54	1	00 - 7F	PAT FILTER CONTROL	-9600 - +9450 [cent]	40
							nn 55	1	00 - 7F	PAT AMPLITUDE CONTROL	-64 - +63	40
							nn 56	1	00 - 7F	PAT LFO PMOD DEPTH	0 - 127	00
							nn 57	1	00 - 7F	PAT LFO FMOD DEPTH	0 - 127	00
							nn 58	1	00 - 7F	PAT LFO AMOD DEPTH	0 - 127	00
							nn 59	1	00 - 5F	AC1 CONTROLLER NUMBER	0 - 95	10
							nn 5A	1	28 - 58	AC1 PITCH CONTROL	-24 - +24 [semitones]	40
							nn 5B	1	00 - 7F	AC1 FILTER CONTROL	-9600 - +9450 [cent]	40

<Table 1-4>

MIDI Parameter Change table (MULTI PART) [XG]

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)	
08	nn	00	1	00 - 20	ELEMENT RESERVE	0 - 32
	nn	01	1	00 - 7F	BANK SELECT MSB	0 - 127
	nn	02	1	00 - 7F	BANK SELECT LSB	00
	nn	03	1	00 - 7F	PROGRAM NUMBER	1 - 128

XG Normal Voice List

Bank Select MSB = 000, LSB = Bank Number

Voice names in bold typeface are voices that can be selected in the Disklavier.
The Disklavier can produce all the voices listed below, but can only display bank 0 voices.

Instrument Group	Program #	Bank #	Voice Name	Element	Instrument Group	Program #	Bank #	Voice Name	Element	Instrument Group	Program #	Bank #	Voice Name	Element	Instrument Group	Program #	Bank #	Voice Name	Element	
Piano	1	0	GrandPno	1	Organ	17	0	DrawOrgn	1	Bass	33	0	Aco.Bass	1	Ensemble	49	0	Strings1	1	
	1	1	GrndPnoK	1		32	0	DetDrwOr	2		3	0	S.Strngs	2		40	3	S.Strngs	2	
	18	1	MelloGrP	1		33	0	60sDrOr1	2		8	0	SlowStr	1		41	4	BrhTnSx	2	
	40	1	PianoStr	2		34	0	60sDrOr2	2		24	0	ArcoStr	2		42	5	SoftTenr	2	
	41	1	Dream	2		35	0	70sDrOr1	2		35	0	60sStrng	2		43	6	TnrSax 2	1	
	2	0	BritePno	1		36	0	DrawOrg2	2		40	0	Orchestr	2		44	7	Bar.Sax	1	
	1	1	BritPnoK	1		37	0	60sDrOr3	2		41	0	Orchstr2	2		45	8	Oboe	2	
	3	0	E.Grand	2		38	0	EvenBar	2		42	0	TremOrch	2		46	9	Eng.Horn	1	
	1	1	ElGrPnoK	2		40	0	16+2"2/3	1		43	0	Bassoon	1		47	10	Clarinet	1	
	32	1	Det.CP80	2		64	0	Organ Ba	2		45	0	VeloStr	2		50	11	Strings2	1	
	40	1	ElGrPno1	2		65	0	70sDrOr2	2		46	0	S.SlwStr	2		3	12	S.Strngs	2	
	41	1	ElGrPno2	2		66	0	CheezOrg	2		47	0	LegatoSt	2		8	13	SlowStr	1	
	4	0	HnkyTnk	2		67	0	DrawOrg3	2		48	0	Warm Str	2		24	14	ArcoStr	2	
	1	1	HnkyTnkK	2		18	0	PercOrgn	1		36	0	Fretless	1		41	15	Kingdom	2	
	5	0	E.Piano1	2		24	0	70sPcOr1	2		32	0	Fretles2	2		33	16	Fretles3	2	
	1	1	El.Pno1K	1		32	0	DetPrcOr	2		33	0	Fretles3	2		34	17	Fretles4	2	
	18	1	MelloEP1	2		33	0	LiteOrg	2		96	0	SynFret1	2		97	18	Smooth	2	
	32	1	Chor.EP1	2		37	0	PercOrg2	2		19	0	RockOrgn	2		27	19	ResoStr	2	
	40	1	HardELP	2		64	0	RotaryOr	2		27	0	ResoSlap	1		64	20	Syn Str4	2	
	45	1	VX EL.P1	2		65	0	SloRotar	2		32	0	PunchThm	2		65	21	SS Str	2	
	64	1	60sELP	1		66	0	FastRotar	2		52	0	Syn.Str2	2		53	22	ChoirAah	1	
	6	0	E.Piano2	2		20	0	ChrchOrg	2		3	0	S.Choir	2		16	23	Ch.Aahs2	2	
	1	1	El.Pno2K	1		32	0	ChurOrg3	2		18	0	SynBass1	1		32	24	MelChoir	2	
	32	1	Chor.EP2	2		35	0	ChurOrg2	2		20	0	FastResB	1		40	25	ChoirStr	2	
	33	1	DX Hard	2		40	0	NotreDam	2		24	0	AcidBass	1		35	26	Clv Bass	2	
	34	1	DXLegend	2		64	0	OrgFlute	2		40	0	TeknoBa	2		64	27	Oscar	2	
	40	1	DX Phase	2		65	0	TrmOrgFl	2		64	0	Oscar	2		65	28	SqrBass	1	
	41	1	DX+Analg	2		21	0	ReedOrgn	1		40	0	Puff Org	2		32	29	AccordIt	2	
	42	1	DXKotoEP	2		40	0	Puff Org	2		66	0	RubberBa	2		96	30	Hammer	2	
	45	1	VX EL.P2	2		23	0	Harmnica	1		32	0	Harmo 2	2		24	0	TangoAcd	2	
	7	0	Harpsi.	1		32	0	AccordIt	2		64	0	TangoAcd2	2		25	0	NylonGtr	1	
	1	1	Harpsi.K	1		32	0	AccordIt	2		16	0	NylonGt2	1		16	0	NylonGt2	1	
	25	1	Harpsi.2	2		23	0	Harmnica	1		25	0	NylonGt3	2		25	0	NylonGt3	2	
	35	1	Harpsi.3	2		32	0	Harmo 2	2		43	0	VelGtHrm	2		43	0	VelGtHrm	2	
	8	0	Clavi.	2		96	0	Ukulele	1		96	0	Ukulele	1		26	0	SteelGtr	1	
	1	1	Clavi. K	1		16	0	SteelGt2	1		35	0	12StrGtr	2		35	0	12StrGtr	2	
	27	1	ClaviWah	2		40	0	Nyln&Stl	2		40	0	Nyln&Stl	2		41	0	Stl&Body	1	
	64	1	PulseClv	1		41	0	Stl&Body	1		44	0	Contrabs	1		44	0	Contrabs	1	
	65	1	PierceCl	2		96	0	Mandolin	2		45	0	Trem.Str	1		45	0	Trem.Str	1	
	Chromatic	9	0	Celesta		1	27	0	Jazz Gtr		1	8	0	SlowTrStr		1	8	0	SlowTrStr	1
	Percussion	10	0	Glocken		1	16	0	MelloGtr		1	40	0	Susp Str		2	40	0	Susp Str	2
		11	0	MusicBox		2	32	0	JazzAmp		2	46	0	Pizz.Str		1	46	0	Pizz.Str	1
		64	0	Orgel		2	32	0	ChorusGt		1	47	0	Harp		1	47	0	Harp	1
		12	0	Vibes		1	27	0	Mute.Gtr		1	40	0	FunkGtr1		2	40	0	FunkGtr1	2
		1	1	VibesK		1	18	0	MelloGtr		1	41	0	MuteStlG		2	41	0	MuteStlG	2
		45	1	HardVibe		2	32	0	JazzAmp		2	43	0	FunkGtr2		2	43	0	FunkGtr2	2
		13	0	Marimba		1	28	0	CleanGtr		1	45	0	Jazz Man		1	45	0	Jazz Man	1
		1	1	MarimbaK		1	29	0	Mute.Gtr		1	40	0	FunkGtr1		2	40	0	FunkGtr1	2
	64	1	SineMrb	2	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	97	1	Balafon2	2	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	98	1	Log Drum	2	32	0	ChorusGt	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	14	0	Xylophon	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	15	0	TubulBel	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	96	1	ChrchBel	2	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	97	1	Carillon	2	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	16	0	Dulcimer	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	35	1	Dulcimr2	2	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	96	1	Cimbalom	2	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	97	1	Santur	2	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	32	0	GtrHarmo	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	65	1	GtFeedbk	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	66	1	GtrHrmo2	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	33	0	Detune 1	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	34	0	Detune 2	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	35	0	Octave 1	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	36	0	Octave 2	1	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	37	0	5th 1	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	38	0	5th 2	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	39	0	Bend	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	40	0	Tutti	1	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	41	0	Tutti	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	42	0	Tutti	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	43	0	Velo-Switch	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	44	0	Velo-Xfade	1	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	45	0	Other wave	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	46	0	Other wave	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	47	0	Other wave	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	48	0	Other wave	1	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	49	0	Other wave	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	50	0	Other wave	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	51	0	Other wave	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	52	0	Other wave	1	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	53	0	Other wave	1	29	0	Mute.Gtr	1	40	0	FunkGtr1	2	40	0	FunkGtr1	2				
	54	0	Other wave	1	18	0	MelloGtr	1	41	0	MuteStlG	2	41	0	MuteStlG	2				
	55	0	Other wave	1	32	0	JazzAmp	2	43	0	FunkGtr2	2	43	0	FunkGtr2	2				
	56	0	Other wave	1	28	0	CleanGtr	1	45	0	Jazz Man	1	45	0	Jazz Man	1				
	57	0	Other wave	1	29															

XG Drum Voice List

Bank Select MSB=Bank Number, LSB=000

Drum kit names in bold typeface are those that can be selected in the Disklavier.

Bank	127	127	127	127	127	127	127	127	127	126	126			
Program #	1	2	9	17	25	26	33	41	49	1	2			
Note#	Note	Key off	Alternate assign	Standard Kit	Standard2 Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit	Jazz Kit	Brush Kit	Classic Kit	SFX 1	SFX 2
13	C# -1		3	Surdo Mute										
14	D -1		3	Surdo Open										
15	D# -1			Hi Q										
16	E -1			Whip Slap										
17	F -1		4	Scratch Push										
18	F# -1		4	Scratch Pull										
19	G -1			Finger Snap										
20	G# -1			Click Noise										
21	A -1			Metronome Click										
22	A# -1			Metronome Bell										
23	B -1			Seq Click L										
24	C 0			Seq Click H										
25	C# 0			Brush Tap										
26	D 0	O		Brush Swirl L										
27	D# 0			Brush Slap										
28	E 0	O		Brush Swirl H				Reverse Cymbal	Reverse Cymbal					
29	F 0	O		Snare Roll	Snare Roll 2									
30	F# 0			Castanet				Hi Q	Hi Q					
31	G 0			Snare L	Snare L 2		SD Rock M	Snare M	SD Analog H		Brush Slap L			
32	G# 0			Sticks										
33	A 0			Bass Drum L			Bass Drum M	Bass Drum H 4	Bass Drum M			Bass Drum L 2		
34	A# 0			Open Rim Shot	Open Rim Shot 2									
35	B 0			Bass Drum M	Bass Drum M 2		Bass Drum H 3	BD Rock	BD Analog L			Gran Cassa		
36	C 1			Bass Drum H	Bass Drum H 2		BD Rock	BD Gate	BD Analog H	BD Jazz	BD Soft	Gran Cassa Mute	Guitar Cutting Noise	Dial Tone
37	C# 1			Side Stick					Analog Side Stick				Guitar Cutting Noise 2	Door Creaking
38	D 1			Snare M	Snare M 2	SD Room L	SD Rock	SD Rock L	Analog Snare L		Brush Slap M	Marching Sn M		
39	D# 1			Hand Clap									String Slap	Scratch
40	E 1			Snare H	Snare H 2	SD Room H	SD Rock Rim	SD Rock H	Analog Snare H		Brush Tap H	Marching Sn H		Scratch 2
41	F 1			Floor Tom L		Room Tom 1	Rock Tom 1	E Tom 1	Analog Tom 1	Jazz Tom 1	Brush Tom 1	Jazz Tom 1		Windchime
42	F# 1		1	Hi-Hat Closed					Analog HH Closed 1					Telephone Ring 2
43	G 1			Floor Tom H		Room Tom 2	Rock Tom 2	E Tom 2	Analog Tom 2	Jazz Tom 2	Brush Tom 2	Jazz Tom 2		
44	G# 1		1	Hi-Hat Pedal					Analog HH Closed 2					
45	A 1			Low Tom		Room Tom 3	Rock Tom 3	E Tom 3	Analog Tom 3	Jazz Tom 3	Brush Tom 3	Jazz Tom 3		
46	A# 1		1	Hi-Hat Open					Analog HH Open					
47	B 1			Mid Tom L		Room Tom 4	Rock Tom 4	E Tom 4	Analog Tom 4	Jazz Tom 4	Brush Tom 4	Jazz Tom 4		
48	C 2			Mid Tom H		Room Tom 5	Rock Tom 5	E Tom 5	Analog Tom 5	Jazz Tom 5	Brush Tom 5	Jazz Tom 5		
49	C# 2			Crash Cymbal 1					Analog Cymbal				Hand Cym.Open L	
50	D 2			High Tom		Room Tom 6	Rock Tom 6	E Tom 6	Analog Tom 6	Jazz Tom 6	Brush Tom 6	Jazz Tom 6		
51	D# 2			Ride Cymbal 1									Hand Cym.Closed L	
52	E 2			Chinese Cymbal									FL.Key Click	Engine Start
53	F 2			Ride Cymbal Cup										Tire Screech
54	F# 2			Tambourine										Car Passing
55	G 2			Splash Cymbal										Crash
56	G# 2			Cowbell					Analog Cowbell					Siren
57	A 2			Crash Cymbal 2									Hand Cym.Open H	Train
58	A# 2			Vibraslap										Jetplane
59	B 2			Ride Cymbal 2									Hand Cym.Closed H	Starship
60	C 3			Bongo H										Jetplane
61	C# 3			Bongo L										Starship
62	D 3			Conga H Mute					Analog Conga H					Starship
63	D# 3			Conga H Open					Analog Conga M					Starship
64	E 3			Conga L					Analog Conga L					Starship
65	F 3			Timbale H										Starship
66	F# 3			Timbale L										Starship
67	G 3			Agogo H										Starship
68	G# 3			Agogo L										Starship
69	A 3			Cabasa										Starship
70	A# 3			Maracas					Analog Maracas					Starship
71	B 3	O		Samba Whistle H										Starship
72	C 4	O		Samba Whistle L										Starship
73	C# 4			Guiro Short										Starship
74	D 4	O		Guiro Long										Starship
75	D# 4			Claves					Analog Claves					Starship
76	E 4			Wood Block H										Starship
77	F 4			Wood Block L										Starship
78	F# 4			Cuica Mute				Scratch Push	Scratch Push					Starship
79	G 4			Cuica Open				Scratch Pull	Scratch Pull					Starship
80	G# 4		2	Triangle Mute										Starship
81	A 4		2	Triangle Open										Starship
82	A# 4			Shaker										Starship
83	B 4			Jingle Bell										Starship
84	C 5			Bell Tree										Starship
85	C# 5												Dog	Machine Gun
86	D 5												Horse Gallop	Laser Gun
87	D# 5												Bird 2	Explosion
88	E 5													FireWork
89	F 5													
90	F# 5													
91	G 5													

□ : Same as Standard Kit

■ : No Sound

TG300B Drum Voice List

Program #	1	9	17	25	26	33	41	49	57	128		
Note#	Note	Alternate assign	Standard Kit	Room Kit	Power Kit	Electro Kit	Analog Kit	Jazz Kit	Brush Kit	Orchestra Kit	SFX Set	C/M Kit
25	C# 0		Snare Roll									
26	D 0		Finger Snap									
27	D# 0		Hi Q							Hi-Hat Closed		
28	E 0		Whip Slap							Hi-Hat Pedal		
29	F 0	7	Scratch Push							Hi-Hat Open		
30	F# 0	7	Scratch Pull							Ride Cymbal 1		
31	G 0		Sticks									
32	G# 0		Click Noise									
33	A 0		Metronome Click									
34	A# 0		Metronome Bell									
35	B 0		Bass Drum M								BD Jazz	
36	C 1		Bass Drum H		BD Power	BD Electronic	BD Analog H	BD Jazz	BD Soft	Gran Cassa		
37	C# 1		Side Stick				Analog Side Stick					
38	D 1		Snare M		SD Power	SD Electronic	Analog Snare L		Brush Tap	Concert SD		
39	D# 1		Hand Clap						Brush Slap	Castanet	High-Q	
40	E 1		Snare H			SD Power			Brush Swirl	Concert SD	Slap	SD Electro
41	F 1		Floor Tom L	Room Tom 1	Room Tom 1	E Tom 1	Analog Tom 1	Jazz Tom 1	Jazz Tom 1	Timpani F#	Scratch Push	
42	F# 1	1	Hi-Hat Closed				Analog HH Closed 1			Timpani F#	Scratch Pull	
43	G 1		Floor Tom H	Room Tom 2	Room Tom 2	E Tom 2	Analog Tom 2	Jazz Tom 2	Jazz Tom 2	Timpani G	Sticks	
44	G# 1	1	Hi-Hat Pedal				Analog HH Closed 2			Timpani G#	Square Click	Hi-Hat Open 1
45	A 1		Low Tom	Room Tom 3	Room Tom 3	E Tom 3	Analog Tom 3	Jazz Tom 3	Jazz Tom 3	Timpani A#	Metronome Click	
46	A# 1	1	Hi-Hat Open				Analog HH Open			Timpani A#	Metronome Bell	Hi-Hat Open 2
47	B 1		Mid Tom L	Room Tom 4	Room Tom 4	E Tom 4	Analog Tom 4	Jazz Tom 4	Jazz Tom 4	Timpani B	Guitar Fret Noise	
48	C 2		Mid Tom H	Room Tom 5	Room Tom 5	E Tom 5	Analog Tom 5	Jazz Tom 5	Jazz Tom 5	Timpani C#	Guitar Cutting Down	
49	C# 2		Crash Cymbal 1				Analog Cymbal			Timpani D#	Ac Bass Slap	
50	D 2		High Tom	Room Tom 6	Room Tom 6	E Tom 6	Analog Tom 6	Jazz Tom 6	Jazz Tom 6	Timpani D#	FL.Key Click	
51	D# 2		Ride Cymbal 1							Timpani E	Laughing	
52	E 2		Chinese Cymbal				Reverse Cymbal			Timpani F	Screaming	
53	F 2		Ride Cymbal Cup									
54	F# 2		Tambourine									
55	G 2		Splash Cymbal									
56	G# 2		Cowbell				Analog Cowbell					
57	A 2		Crash Cymbal 2							Hand Cym.1	Footsteps 1	
58	A# 2		Vibraslap								Footsteps 2	
59	B 2		Ride Cymbal 2							Hand Cym.2	Applause	
60	C 3		Bongo H								Door Creaking	
61	C# 3		Bongo L								Door Slam	
62	D 3		Conga H Mute								Scratch	
63	D# 3		Conga H Open							Analog Conga H	Windchime	
64	E 3		Conga L							Analog Conga M	Engine Start	
65	F 3		Timbale H							Analog Conga L	Tire Screech	
66	F# 3		Timbale L								Tire Screech	
67	G 3		Agogo H								Car Passing	
68	G# 3		Agogo L								Crash	
69	A 3		Cabasa								Siren	
70	A# 3		Maracas				Analog Maracas				Train	
71	B 3	2	Samba Whistle H								Jetplane	
72	C 4	2	Samba Whistle L								Starship	
73	C# 4	3	Guiro Short								Starship	
74	D 4	3	Guiro Long								Starship	
75	D# 4		Claves				Analog Claves				Starship	
76	E 4		Wood Block H								Starship	
77	F 4		Wood Block L								Starship	
78	F# 4	4	Cuica Mute								Starship	
79	G 4	4	Cuica Open								Starship	
80	G# 4	5	Triangle Mute								Starship	
81	A 4	5	Triangle Open								Starship	
82	A# 4		Shaker								Starship	
83	B 4		Jingle Bell								Starship	
84	C 5		Bell Tree								Starship	
85	C# 5										Starship	
86	D 5										Starship	
87	D# 5				</							

Effect Type List

Exclusive		Effect Type	Description
MSB	LSB		
REVERB			
00	00	NO EFFECT	Effect turned off.
01	00	HALL1	Reverb simulating the resonance of a hall.
01	01	HALL2	Reverb simulating the resonance of a hall.
02	00	ROOM1	Reverb simulating the resonance of a room.
02	01	ROOM2	Reverb simulating the resonance of a room.
02	02	ROOM3	Reverb simulating the resonance of a room.
03	00	STAGE1	Reverb appropriate for a solo instrument.
03	01	STAGE2	Reverb appropriate for a solo instrument.
04	00	PLATE	Reverb simulating a metal plate reverb unit.
10	00	WHITE ROOM	A unique short reverb with a bit of initial delay.
11	00	TUNNEL	Simulation of a tunnel space expanding to left and right.
13	00	BASEMENT	A bit of initial delay followed by reverb with a unique resonance.
CHORUS			
00	00	NO EFFECT	Effect turned off.
41	00	CHORUS1	Conventional chorus program that adds natural spaciousness.
41	01	CHORUS2	Conventional chorus program that adds natural spaciousness.
41	02	CHORUS3	Conventional chorus program that adds natural spaciousness.
41	08	CHORUS4	Chorus with stereo input. The pan setting specified for the Part will also apply to the effect sound.
42	00	CELESTE1	A 3-phase LFO adds modulation and spaciousness to the sound.
42	01	CELESTE2	A 3-phase LFO adds modulation and spaciousness to the sound.
42	02	CELESTE3	A 3-phase LFO adds modulation and spaciousness to the sound.
42	08	CELESTE4	Celeste with stereo input. The pan setting specified for the Part will also apply to the effect sound.
43	00	FLANGER1	Adds a jet-airplane effect to the sound.
43	01	FLANGER2	Adds a jet-airplane effect to the sound.
43	08	FLANGER3	Adds a jet-airplane effect to the sound.
VARIATION			
00	00	NO EFFECT	Effect turned off.
01	00	HALL1	Reverb simulating the resonance of a hall.
01	01	HALL2	Reverb simulating the resonance of a hall.
02	00	ROOM1	Reverb simulating the resonance of a room.
02	01	ROOM2	Reverb simulating the resonance of a room.
02	02	ROOM3	Reverb simulating the resonance of a room.
03	00	STAGE1	Reverb appropriate for a solo instrument.
03	01	STAGE2	Reverb appropriate for a solo instrument.
04	00	PLATE	Reverb simulating a metal plate reverb unit.
05	00	DELAY L, C, R	A program that creates three delay sounds; L, R, and C (center).
06	00	DELAY L, R	A program that creates two delay sounds; L and R. Two feedback delays are provided.
07	00	ECHO	Two delays (L and R) and independent feedback delays for L and R.
08	00	CROSS DELAY	A program that crosses the feedback of two delays.
09	00	EARLY REF1	An effect that produces only the early reflection component of reverb.
09	01	EARLY REF2	An effect that produces only the early reflection component of reverb.
0A	00	GATE REVERB	A simulation of gated reverb.
0B	00	REVERSE GATE	A program that simulates gated reverb played backwards.
14	00	KARAOKÉ 1	A delay with feedback of the same types as used for karaoke reverb.
14	01	KARAOKÉ 2	A delay with feedback of the same types as used for karaoke reverb.
14	02	KARAOKÉ 3	A delay with feedback of the same types as used for karaoke reverb.
41	00	CHORUS1	Conventional chorus program that add natural spaciousness.
41	01	CHORUS2	Conventional chorus program that adds natural spaciousness.
41	02	CHORUS3	Conventional chorus program that adds natural spaciousness.
41	08	CHORUS4	Chorus with stereo input.
42	00	CELESTE1	A 3-phase LFO adds modulation and spaciousness to the sound.
42	01	CELESTE2	A 3-phase LFO adds modulation and spaciousness to the sound.
42	02	CELESTE3	A 3-phase LFO adds modulation and spaciousness to the sound.
42	08	CELESTE4	Celeste with stereo input.
43	00	FLANGER1	Adds a jet-airplane effect to the sound.
43	01	FLANGER2	Adds a jet-airplane effect to the sound.
43	08	FLANGER3	Adds a jet-airplane effect to the sound.
44	00	SYMPHONIC	A multi-phase version of CELESTE.
45	00	ROTARY SPEAKER	A simulation of a rotary speaker. You can use AC1 (assignable controller) etc. to control the speed of rotation.
46	00	TREMOLO	An effect that cyclically modulates the volume.
47	00	AUTO PAN	A program that cyclically moves that sound image to left and right, front and back.
48	00	PHASER1	Cyclically changes the phase to add modulation to the sound.
48	08	PHASER2	Phaser with stereo input.
49	00	DISTORTION	Adds a sharp-edged distortion to the sound.
4A	00	OVER DRIVE	Adds mild distortion to the sound.
4B	00	AMP SIMULATOR	A simulation of a guitar amp.
4C	00	3BAND EQ (MONO)	A mono EQ with adjustable LOW, MID, and HIGH equalizing.
4D	00	2BAND EQ (STEREO)	A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.
4E	00	AUTO WAH (LFO)	Cyclically modulates the center frequency of a wah filter. With an AC1 etc. this can function as a pedal wah.
40	00	THRU	Bypass without applying any effect.

* MSB, LSB is represented in hexadecimal.
* LCB=0 is the basic effect type.

Effect Parameter List

No	Parameter	Range	Value	See Table	Control
HALL1, HALL2, ROOM 1, 2, 3, STAGE 1, 2, PLATE					
1	Reverb Time	0.3 ~ 30.0s	0-69	table#4	
2	Diffusion	0 ~ 10	0-10		
3	Initial Delay	0 ~ 63	0-63	table#5	
4	HPF Cutoff	Thru ~ 8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k ~ Thru	34-60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11	Rev Delay	0 ~ 63	0-63	table#5	
12	Density	0 ~ 3	0-3		
13	Er/Rev Balance	E63>R ~ E=R ~ E>R63	1-127		
14					
15	Feedback Level	-63 ~ +63	1-127		
16					
WHITE ROOM, TUNNEL, BASEMENT					
1	Reverb Time	0.3 ~ 30.0s	0-69	table#4	
2	Diffusion	0 ~ 10	0-10		
3	Initial Delay	0 ~ 63	0-63	table#5	
4	HPF Cutoff	Thru ~ 8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k ~ Thru	34-60	table#3	
6	Width	0.5 ~ 10.2m	0-37	table#11	
7	Height	0.5 ~ 20.2m	0-73	table#11	
8	Depth	0.5 ~ 30.2m	0-104	table#11	
9	Wall Vary	0 ~ 30	0-30		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11	Rev Delay	0 ~ 63	0-63	table#5	
12	Density	0 ~ 3	0-3		
13	Er/Rev Balance	E63>R ~ E=R ~ E>R63	1-127		
14					
15	Feedback Level	-63 ~ +63	1-127		
16					
DELAY L, C, R					
1	Lch Delay	0.1 ~ 715.0ms	1-7150		
2	Rch Delay	0.1 ~ 715.0ms	1-7150		
3	Cch Delay	0.1 ~ 715.0ms	1-7150		
4	Feedback Delay	0.1 ~ 715.0ms	1-7150		
5	Feedback Level	-63 ~ +63	1-127		
6	Cch Level	0 ~ 127	0-127		
7	High Damp	0.1 ~ 1.0	1-10		
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11					
12					
13	EQ Low Frequency	50Hz ~ 2.0kHz	8-40	table#3	
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58	table#3	
16	EQ High Gain	-12 ~ +12dB	52-76		
DELAY L, R					
1	Lch Delay	0.1 ~ 715.0ms	1-7150		
2	Rch Delay	0.1 ~ 715.0ms	1-7150		
3	Feedback Delay1	0.1 ~ 715.0ms	1-7150		
4	Feedback Delay2	0.1 ~ 715.0ms	1-7150		
5	Feedback Level	-63 ~ +63	1-127		
6	High Damp	0.1 ~ 1.0	1-10		
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11					
12					
13	EQ Low Frequency	50Hz ~ 2.0kHz	8-40	table#3	
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58	table#3	
16	EQ High Gain	-12 ~ +12dB	52-76		

• : Can be controlled by AC1 (Assignable Controller 1)
No.* : These numbers correspond to the Parameter Suffix numbers in <Table 1-3>
See Table** : Refer to "Effect Data Assign Table"

No	Parameter	Range	Value	See Table	Control
ECHO					
1	Lch Delay1	0.1 ~ 355.0ms	1-3550		
2	Lch Feedback Level	-63 ~ +63	1-127		
3	Rch Delay1	0.1 ~ 355.0ms	1-3550		
4	Rch Feedback Level	-63 ~ +63	1-127		
5	High Damp	0.1 ~ 1.0	1-10		
6	Lch Delay2	0.1 ~ 355.0ms	1-3550		
7	Rch Delay2	0.1 ~ 355.0ms	1-3550		
8	Delay2 Level	0 ~ 127	0-127		
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11					
12					
13	EQ Low Frequency	50Hz ~ 2.0kHz	8-40	table#3	
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58	table#3	
16	EQ High Gain	-12 ~ +12dB	52-76		
CROSS DELAY					
1	L->R Delay	0.1 ~ 355.0ms	1-3550		
2	R->L Delay	0.1 ~ 355.0ms	1-3550		
3	Feedback Level	-63 ~ +63	1-127		
4	Input Select	L, R, L&R	0-2		
5	High Damp	0.1 ~ 1.0	1-10		
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11					
12					
13	EQ Low Frequency	50Hz ~ 2.0kHz	8-40	table#3	
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58	table#3	
16	EQ High Gain	-12 ~ +12dB	52-76		
EARLY REF1, EARLY REF2					
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5		
2	Room Size	0.1 ~ 7.0	0-44	table#6	
3	Diffusion	0 ~ 10	0-10		
4	Initial Delay	0 ~ 63	0-63	table#5	
5	Feedback Level	-63 ~ +63	1-127		
6	HPF Cutoff	Thru ~ 8.0kHz	0-52		
7	LPF Cutoff	1.0k ~ Thru	34-60		
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11	Liveness	0 ~ 10	0-10		
12	Density	0 ~ 3	0-3		
13	High Damp	0.1 ~ 1.0	1-10		
14					
15					
16					
GATE REVERB, REVERSE GATE					
1	Type	TypeA, TypeB	0-1		
2	Room Size	0.1 ~ 7.0	0-44	table#6	
3	Diffusion	0 ~ 10	0-10		
4	Initial Delay	0 ~ 63	0-63	table#5	
5	Feedback Level	-63 ~ +63	1-127		
6	HPF Cutoff	Thru ~ 8.0kHz	0-52		
7	LPF Cutoff	1.0k ~ Thru	34-60		
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		•
11	Liveness	0 ~ 10	0-10		
12	Density	0 ~ 3	0-3		
13	High Damp	0.1 ~ 1.0	1-10		
14					
15					
16					

No	Parameter	Range	Value	See Table	Control
KARAOKE 1, 2, 3					
1	Delay Time	0~127	0-127	table#7	
2	Feedback Level	-63~+63	1-127		
3	HPF Cutoff	Thru~8.0kHz	0-52		
4	LPF Cutoff	1.0k~Thru	34-60		
5					
6					
7					
8					
9	Dry/Wet	D63>W~D=W~D<W63	1-127		•
10					
11					
12					
13					
14					
15					
16					
CHORUS 1, 2, 3, 4, CELESTE 1, 2, 3, 4					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	
2	LFO PM Depth	0~127	0-127		
3	Feedback Level	-63~+63	1-127		
4	Delay Offset	0~127	0-127	table#2	
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W~D=W~D<W63	1-127		•
11					
12					
13					
14	Input Mode	mono/stereo	0-1		
15					
16					
FLANGER 1, 2, 3					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Feedback Level	-63~+63	1-127		
4	Delay Offset	0~63	0-63	table#2	
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W~D=W~D<W63	1-127		•
11					
12					
13					
14	LFO Phase Difference	-180~+180deg	4-124		
15					
16					
SYMPHONIC					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Delay Offset	0~127	0-127	table#2	
4					
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W~D=W~D<W63	1-127		•
11					
12					
13					
14					
15					
16					

No	Parameter	Range	Value	See Table	Control
ROTARY SPEAKER					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	•
2	LFO Depth	0~127	0-127		
3					
4					
5	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
6	EQ Low Gain	-12~+12dB	52-76		
7	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
8	EQ High Gain	-12~+12dB	52-76		
9	Dry/Wet	D63>W~D=W~D<W63	1-127		
10					
11					
12					
13					
14					
15					
16					
TREMOLO					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	•
2	AM Depth	0~127	0-127		
3	PM Depth	0~127	0-127		
4					
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10					
11					
12					
13					
14		-180~+180deg	4-124		
15	Input Mode	mono/stereo	0-1		
16					
AUTO PAN					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	•
2	L/R Depth	0~127	0-127		
3	F/R Depth	0~127	0-127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0-5		
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10					
11					
12					
13					
14					
15					
16					
PHASER1, PHASER2					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Phase Shift	0~127	0-127		
4	Feedback Level	-63~+63	1-127		
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W~D=W~D<W63	1-127		•
11	Stage	3~10	3-10		
12	Diffusion	Mono/Stereo	0-1		
13	LFO Phase Di	-180~+180deg	4-124		
14					
15					
16					

No	Parameter	Range	Value	See Table	Control
DISTORTION, OVERDRIVE					
1	Drive	0~127	0-127		•
2	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
3	EQ Low Gain	-12~+12dB	52-76		
4	LPF Cutoff	1.0k~Thru	34-60	table#3	
5	Output Level	0~127	0-127		
6					
7	EQ Mid Frequency	500Hz~10.0kHz	28-54	table#3	
8	EQ Mid Gain	-12~+12dB	52-76		
9	EQ Mid Width	1.0~12.0	10-120		
10	Dry/Wet	D63>W~D=W~D<W63	1-127		
11	Edge (Clip Curve)	0~127	0-127		mild ~sharp
12					
13					
14					
15					
16					
GUITAR AMP SIMULATOR					
1	Drive	0~127	0-127		•
2	AMP Type	Off, Stack, Combo, Tube	0-3		
3	LPF Cutoff	1.0k~Thru	34-60	table#3	
4	Output Level	0~127	0-127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W~D=W~D<W63	1-127		
11	Edge (Clip Curve)	0~127	0-127		mild ~sharp
12					
13					
14					
15					
16					
3-BAND EQ					
1	EQ Low Gain	-12~+12dB	52-76		
2	EQ Mid Frequency	500Hz~10.0kHz	28-54	table#3	
3	EQ Mid Gain	-12~+12dB	52-76		
4	EQ Mid Width	1.0~12.0	10-120		
5	EQ High Gain	-12~+12dB	52-76		
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
8					
9					
10					
11					
12					
13					
14					
15					
16					

No	Parameter	Range	Value	See Table	Control
2-BAND EQ					
1	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
2	EQ Low Gain	-12~+12dB	52-76		
3	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
4	EQ High Gain	-12~+12dB	52-76		
5					
6					
7					
8					
9					
10	EQ Mid Frequency	100Hz~10.0kHz	14-54	table#3	
11	EQ Mid Gain	-12~+12dB	52-76		
12	EQ Mid Width	1.0~12.0	10-120		
13					
14					
15					
16					
AUTO WAH					
1	LFO Frequency	0.00~39.7Hz	0-127	table#1	
2	LFO Depth	0~127	0-127		
3	Cutoff Frequency	0~127	0-127		•
4	Resonance	1.0~12.0	10-120		
5					
6	EQ Low Frequency	50Hz~2.0kHz	8-40	table#3	
7	EQ Low Gain	-12~+12dB	52-76		
8	EQ High Frequency	500Hz~16.0kHz	28-58	table#3	
9	EQ High Gain	-12~+12dB	52-76		
10	Dry/Wet	D63>W~D=W~D<W63	1-127		
11					
12					
13					
14					
15					
16					

• : Can be controlled by AC1 (Assignable Controller 1)
No.* : These numbers correspond to the Parameter Suffix numbers in <Table 1-3>
See Table** : Refer to "Effect Data Assign Table"

• : Can be controlled by AC1 (Assignable Controller 1)
No.* : These numbers correspond to the Parameter Suffix numbers in <Table 1-3>
See Table** : Refer to "Effect Data Assign Table"

Effect Data Assign Table

Table#1
LFO Frequency (Hz)

Data	Value	Data	Value	Data	Value
0	0.00	43	1.81	86	5.38
1	0.04	44	1.85	87	5.55
2	0.08	45	1.89	88	5.72
3	0.13	46	1.94	89	6.06
4	0.17	47	1.98	90	6.39
5	0.21	48	2.02	91	6.73
6	0.25	49	2.06	92	7.07
7	0.29	50	2.10	93	7.40
8	0.34	51	2.15	94	7.74
9	0.38	52	2.19	95	8.08
10	0.42	53	2.23	96	8.41
11	0.46	54	2.27	97	8.75
12	0.51	55	2.31	98	9.08
13	0.55	56	2.36	99	9.42
14	0.59	57	2.40	100	9.76
15	0.63	58	2.44	101	10.10
16	0.67	59	2.48	102	10.44
17	0.72	60	2.52	103	11.40
18	0.76	61	2.57	104	12.10
19	0.80	62	2.61	105	12.80
20	0.84	63	2.65	106	13.50
21	0.88	64	2.69	107	14.10
22	0.93	65	2.78	108	14.80
23	0.97	66	2.86	109	15.50
24	1.01	67	2.94	110	16.20
25	1.05	68	3.03	111	16.80
26	1.09	69	3.11	112	17.50
27	1.14	70	3.20	113	18.20
28	1.18	71	3.28	114	19.50
29	1.22	72	3.37	115	20.90
30	1.26	73	3.45	116	22.20
31	1.30	74	3.53	117	23.60
32	1.35	75	3.62	118	24.90
33	1.39	76	3.70	119	26.20
34	1.43	77	3.87	120	27.60
35	1.47	78	4.04	121	28.90
36	1.51	79	4.21	122	30.30
37	1.56	80	4.37	123	31.60
38	1.60	81	4.54	124	33.00
39	1.64	82	4.71	125	34.30
40	1.68	83	4.88	126	37.00
41	1.72	84	5.05	127	39.70
42	1.77	85	5.22		

Table#2
Modulation Delay Offset (ms)

Data	Value	Data	Value	Data	Value
0	0.0	43	4.3	86	8.6
1	0.1	44	4.4	87	8.7
2	0.2	45	4.5	88	8.8
3	0.3	46	4.6	89	8.9
4	0.4	47	4.7	90	9.0
5	0.5	48	4.8	91	9.1
6	0.6	49	4.9	92	9.2
7	0.7	50	5.0	93	9.3
8	0.8	51	5.1	94	9.4
9	0.9	52	5.2	95	9.5
10	1.0	53	5.3	96	9.6
11	1.1	54	5.4	97	9.7
12	1.2	55	5.5	98	9.8
13	1.3	56	5.6	99	9.9
14	1.4	57	5.7	100	10.0
15	1.5	58	5.8	101	11.1
16	1.6	59	5.9	102	12.2
17	1.7	60	6.0	103	13.3
18	1.8	61	6.1	104	14.4
19	1.9	62	6.2	105	15.5
20	2.0	63	6.3	106	17.1
21	2.1	64	6.4	107	18.6
22	2.2	65	6.5	108	20.2
23	2.3	66	6.6	109	21.8
24	2.4	67	6.7	110	23.3
25	2.5	68	6.8	111	24.9
26	2.6	69	6.9	112	26.5
27	2.7	70	7.0	113	28.0
28	2.8	71	7.1	114	29.6
29	2.9	72	7.2	115	31.2
30	3.0	73	7.3	116	32.8
31	3.1	74	7.4	117	34.3
32	3.2	75	7.5	118	35.9
33	3.3	76	7.6	119	37.5
34	3.4	77	7.7	120	39.0
35	3.5	78	7.8	121	40.6
36	3.6	79	7.9	122	42.2
37	3.7	80	8.0	123	43.7
38	3.8	81	8.1	124	45.3
39	3.9	82	8.2	125	46.9
40	4.0	83	8.3	126	48.4
41	4.1	84	8.4	127	50.0
42	4.2	85	8.5		

Table#3
EQ Frequency (Hz)

Data	Value	Data	Value
0	THRU(20)	43	2.8k
1	22	44	3.2k
2	25	45	3.6k
3	28	46	4.0k
4	32	47	4.5k
5	36	48	5.0k
6	40	49	5.6k
7	45	50	6.3k
8	50	51	7.0k
9	56	52	8.0k
10	63	53	9.0k
11	70	54	10.0k
12	80	55	11.0k
13	90	56	12.0k
14	100	57	14.0k
15	110	58	16.0k
16	125	59	18.0k
17	140	60	THRU(20.0k)
18	160		
19	180		
20	200		
21	225		
22	250		
23	280		
24	315		
25	355		
26	400		
27	450		
28	500		
29	560		
30	630		
31	700		
32	800		
33	900		
34	1.0k		
35	1.1k		
36	1.2k		
37	1.4k		
38	1.6k		
39	1.8k		
40	2.0k		
41	2.2k		
42	2.5k		

Table#4
Reverb Time (ms)

Data	Value	Data	Value
0	0.3	43	4.6
1	0.4	44	4.7
2	0.5	45	4.8
3	0.6	46	4.9
4	0.7	47	5.0
5	0.8	48	5.5
6	0.9	49	6.0
7	1.0	50	6.5
8	1.1	51	7.0
9	1.2	52	7.5
10	1.3	53	8.0
11	1.4	54	8.5
12	1.5	55	9.0
13	1.6	56	9.5
14	1.7	57	10.0
15	1.8	58	11.0
16	1.9	59	12.0
17	2.0	60	13.0
18	2.1	61	14.0
19	2.2	62	15.0
20	2.3	63	16.0
21	2.4	64	17.0
22	2.5	65	18.0
23	2.6	66	19.0
24	2.7	67	20.0
25	2.8	68	25.0
26	2.9	69	30.0
27	3.0		
28	3.1		
29	3.2		
30	3.3		
31	3.4		
32	3.5		
33	3.6		
34	3.7		
35	3.8		
36	3.9		
37	4.0		
38	4.1		
39	4.2		
40	4.3		
41	4.4		
42	4.5		

Table#5
Delay Time (ms)

Data	Value	Data	Value	Data	Value
0	0.1	43	67.8	86	135.5
1	1.7	44	69.4	87	137.0
2	3.2	45	70.9	88	138.6
3	4.8	46	72.5	89	140.2
4	6.4	47	74.1	90	141.8
5	8.0	48	75.7	91	143.3
6	9.5	49	77.2	92	144.9
7	11.1	50	78.8	93	146.5
8	12.7	51	80.4	94	148.1
9	14.3	52	81.9	95	149.6
10	15.8	53	83.5	96	151.2
11	17.4	54	85.1	97	152.8
12	19.0	55	86.7	98	154.4
13	20.6	56	88.2	99	155.9
14	22.1	57	89.8	100	157.5
15	23.7	58	91.4	101	159.1
16	25.3	59	93.0	102	160.6
17	26.9	60	94.5	103	162.2
18	28.4	61	96.1	104	163.8
19	30.0	62	97.7	105	165.4
20	31.6	63	99.3	106	166.9
21	33.2	64	100.8	107	168.5
22	34.7	65	102.4	108	170.1
23	36.3	66	104.0	109	171.7
24	37.9	67	105.6	110	173.2
25	39.5	68	107.1	111	174.8
26	41.0	69	108.7	112	176.4
27	42.6	70	110.3	113	178.0
28	44.2	71	111.9	114	179.5
29	45.7	72	113.4	115	181.1
30	47.3	73	115.0	116	182.7
31	48.9	74	116.6	117	184.3
32	50.5	75	118.2	118	185.8
33	52.0	76	119.7	119	187.4
34	53.6	77	121.3	120	189.0
35	55.2	78	122.9	121	190.6
36	56.8	79	124.4	122	192.1
37	58.3	80	126.0	123	193.7
38	59.9	81	127.6	124	195.3
39	61.5	82	129.2	125	196.9
40	63.1	83	130.7	126	198.4
41	64.6	84	132.3	127	200.0
42	66.2	85	133.9		

Table#6
Room Size (m)

Data	Value	Data	Value
0	0.1	43	6.8
1	0.3	44	7.0
2	0.4		
3	0.6		
4	0.7		
5	0.9		
6	1.0		
7	1.2		
8	1.4		
9	1.5		
10	1.7		
11	1.8		
12	2.0		
13	2.1		
14	2.3		
15	2.5		
16	2.6		
17	2.8		
18	2.9		
19	3.1		
20	3.2		
21	3.4		
22	3.5		
23	3.7		
24	3.9		
25	4.0		
26	4.2		
27	4.3		
28	4.5		
29	4.6		
30	4.8		
31	5.0		
32	5.1		
33	5.3		
34	5.4		
35	5.6		
36	5.7		
37	5.9		
38	6.1		
39	6.2		
40	6.4		
41	6.5		
42	6.7		

Table#7
Delay Time (ms)

Data	Value	Data	Value	Data	Value
0	0.1	43	135.5	86	270.9
1	3.2	44	138.6	87	274.0
2	6.4	45	141.8	88	277.2
3	9.5	46	144.9	89	280.3
4	12.7	47	148.1	90	283.5
5	15.8	48	151.2	91	286.6
6	19.0	49	154.4	92	289.8
7	22.1	50	157.5	93	292.9
8	25.3	51	160.7	94	296.1
9	28.4	52	163.8	95	299.2
10	31.6	53	167.0	96	302.4

YAMAHA CORPORATION
P.O.Box 3, Hamamatsu, 430-8651 Japan
