



DSR1

Digital Sequencer Recorder

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 the DSR1.

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

- 1.1 Key On / Key Off**
(Piano Part, ESBL Part) (transmitted)
- 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)

1.2 Control Change

- 1.2.1 Bank Select**
(ESBL Part) (transmitted)
- | Cntrl# | Parameter | Data Range |
|--------|-----------------|---|
| 0 | Bank Select MSB | 0: Normal,
63: User voice,
64: SFX,
126: SFX kit,
127: Drum |
| 32 | Bank Select LSB | 0...127 |
- 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.
- 1.2.2 Modulation**
(ESBL Part)
- | Cntrl# | Parameter | Data Range |
|--------|------------|------------|
| 1 | Modulation | 0...127 |
- 1.2.3 Portamento Time**
(ESBL Part)
- | Cntrl# | Parameter | Data Range |
|--------|-----------------|------------|
| 5 | Portamento Time | 0...127 |
- 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.
- 1.2.4 Data Entry**
(ESBL Part)
- Messages which set the value for the parameter specified by RPN/NRPN.
- | Cntrl# | Parameter | Data Range |
|--------|----------------|------------|
| 6 | Data Entry MSB | 0...127 |
| 38 | Data Entry LSB | 0...127 |
- Parameter value is determined by combining MSB and LSB.
- 1.2.5 Main Volume**
(Piano Part, ESBL Part) (transmitted)
- | Cntrl# | Parameter | Data Range |
|--------|-------------|------------|
| 7 | Main Volume | 0...127 |
- 1.2.6 Pan**
(ESBL Part)
- | Cntrl# | Parameter | Data Range |
|--------|-----------|------------|
| 10 | Pan | 0...127 |

- 1.2.7 Expression**
(Piano Part, ESBL Part)
- | Cntrl# | Parameter | Data Range |
|--------|------------|------------|
| 11 | Expression | 0...127 |
- 1.2.8 Hold1**
(Piano Part, ESBL Part) (transmitted)
- | Cntrl# | Parameter | Data Range |
|--------|-----------|----------------------------------|
| 64 | Hold1 | 0...127
(0-63:off, 64-127:on) |
- 1.2.9 Portamento**
(ESBL Part)
- | Cntrl# | Parameter | Data Range |
|--------|------------|----------------------------------|
| 65 | Portamento | 0...127
(0-63:off, 64-127:on) |
- 1.2.10 Sostenuto**
(Piano Part, ESBL Part) (transmitted)
- | Cntrl# | Parameter | Data Range |
|--------|-----------|----------------------------------|
| 66 | Sostenuto | 0...127
(0-63:off, 64-127:on) |
- 1.2.11 Soft Pedal**
(Piano Part, ESBL Part) (transmitted)
- | Cntrl# | Parameter | Data Range |
|--------|------------|----------------------------------|
| 67 | Soft Pedal | 0...127
(0-63:off, 64-127:on) |
- 1.2.12 Harmonic Content**
(ESBL Part)
- Messages which adjust the resonance set for each Voice.
- | Cntrl# | Parameter | Data Range |
|--------|------------------|------------------------------------|
| 71 | Harmonic Content | 0...127
(0:-64, 64:+0, 127:+63) |
- 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.
- 1.2.13 Release Time**
(ESBL Part)
- Messages which adjust the envelope release time set for each Voice.
- | Cntrl# | Parameter | Data Range |
|--------|--------------|------------------------------------|
| 72 | Release Time | 0...127
(0:-64, 64:+0, 127:+63) |
- 1.2.14 Attack Time**
(ESBL Part)
- Messages which adjust the envelope attack time set for each Voice.
- | 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# 74 Parameter Brightness Data Range 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# 84 Parameter Portamento Control Data Range 0...127 1.2.17 Effect1 Depth (Reverb Send Level) (ESBL Part) Cntrl# 91 Parameter Effect1 Depth Data Range 0...127 1.2.18 Effect3 Depth (Chorus Send Level) (ESBL Part) Cntrl# 93 parameter Effect3 Depth Data Range 0...127 1.2.19 Effect4 Depth (Variation Effect Send Level) (ESBL Part) Cntrl# 94 Parameter Effect4 Depth Data Range 0...127 1.2.20 Data Increment / Decrement (for RPN) (ESBL Part) Cntrl# 96 Parameter RPN Increment Data Range 0...127 97 RPN Decrement 0...127 1.2.21 NRPN (Non-Registered Parameter Number) (ESBL Part) Cntrl# 98 Parameter NRPN LSB Data Range 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# 100 Parameter RPN LSB Data Range 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 cancels the Portamento Source Key Number that was received number not specified; internal data will not change RPN number not specified; internal data will not change NRPN 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). 1.3 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 DSR1 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 0000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 0sssssss *SS = Volume LSB 0ttttt 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 0000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 0sssssss SS = Volume LSB 0ttttt 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

0001nnnn	1n	Device Number
01001100	4C	XG Model ID
0aaaaaaa	aaaaaa	Address High
0aaaaaaa	aaaaaa	Address Mid
0aaaaaaa	aaaaaa	Address Low
0ddddd	ddddd	Data
1	1	
11110111	F7	End of Exclusive

* Any number is OK since the device number for the DSR1 is fixed to "All".
For parameters with data size of 2 or 4, transmit the appropriate number of data bytes.
When sending the parameter change messages consecutively, be sure to leave an appropriate interval (if the time base is 480. ca 5 unit) between the messages.

2.1.4.1 XG System On (ESBL Part)

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1n	Device Number
01001100	4C	XG Model ID
0aaaaaaa	00	Address High
0aaaaaaa	00	Address Mid
0aaaaaaa	7E	Address Low
00000000	00	Data
11110111	F7	End of Exclusive

When this data is received, the DSR1 will switch to XG mode and all the parameters will be initialized accordingly, and XG-compatible messages such as NRPN and Bank Select messages can be received.
Since approximately 50ms is required to execute this message, be sure to leave an appropriate interval before the subsequent message

2.1.4.2 XG System Data parameter change (ESBL Part)

See tables <1-1> and <1-2>.

2.1.4.3 Multi Effect1 Data parameter change (ESBL Part)

See tables <1-1> and <1-3>.

2.1.4.4 Multi Part Data parameter change (ESBL Part)

See tables <1-1> and <1-4>.

2.1.4.5 Drums Setup Data parameter change (ESBL Part)

See tables <1-1> and <1-5>.
If a Drum Setup Reset parameter change message is received, the Drum Setup parameter values will be initialized.
Selecting a Drum Set will cause the Drum Setup parameter values to be initialized.

2.1.5 Other parameter changes

2.1.5.1 Master Tuning (ESBL Part)

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1n	Device Number
00100111	27	Model ID
00110000	30	Sub ID2
00000000	00	
00000000	00	
0mmmmmmmm	mm	Master Tune MSB
0lllllll	ll	Master Tune LSB
0ccccccc	cc	
11110111	F7	End of Exclusive

This message simultaneously changes the pitch of all channels.

2.2 Bulk Dump (ESBL Part)

The DSR1 receives the following bulk dump data.

- [XG NATIVE]
1) XG System Data
2) Multi Effect1 Data

- 3) Multi Part Data
4) Drums Setup Data
[QS300 NATIVE]
1) QS300 User Normal Voice Data

2.2.1 XG Native Bulk Dump

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0000nnnn	0n	Device Number
01001100	4C	XG Model ID
0bbbbbbb	bbbbbb	ByteCount
0bbbbbbb	bbbbbb	ByteCount
0aaaaaaa	aaaaaa	Address High
0aaaaaaa	aaaaaa	Address Mid
0aaaaaaa	aaaaaa	Address Low
0ddddd	dd	Data
1	1	
1	1	
0ccccccc	cccccc	Checksum
11110111	F7	End of Exclusive

For the Address and Byte Count, refer to the supplementary tables.
The Checksum is the value that results in a value of 0 for the lower 7 bits when the Start Address, Byte Count, plus the Checksum itself are added.

2.2.1.1 XG System Data bulk dump (ESBL Part)

See tables <1-1> and <1-2>.

2.2.1.2 Multi Effect1 Data bulk dump (ESBL Part)

See tables <1-1> and <1-3>.

2.2.1.3 Multi Part Data bulk dump (ESBL Part)

See tables <1-1> and <1-4>.

2.2.1.4 Drums Setup Data bulk dump (ESBL Part)

See tables <1-1> and <1-5>.

2.2.2 QS300 Native Bulk Dump

11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0000nnnn	0n	Device Number
01001101	4B	QS300 Model ID
0bbbbbbb	bbbbbb	ByteCount
0bbbbbbb	bbbbbb	ByteCount
0aaaaaaa	aaaaaa	Address High
0aaaaaaa	aaaaaa	Address Mid
0aaaaaaa	aaaaaa	Address Low
0ddddd	dd	Data
1	1	
1	1	
0ccccccc	cccccc	Checksum
11110111	F7	End of Exclusive

2.2.2.1 QS300 User Normal Voice Data bulk dump (ESBL Part)

See tables <2-1> and <2-2>.

3. SYSTEM COMMON MESSAGES

3.1 Song Position Pointer

- a) Transmission
This message is transmitted only when the REMOTE OUT parameter is set to On.
b) Reception
This message is received only when REMOTE IN Parameter is set to On.

3.2 Song Select

- a) Transmission
This message is transmitted only when the REMOTE OUT parameter is set to On.

- b) Reception
This message is received only when REMOTE IN Parameter is set to On.

This message is transmitted only when the REMOTE OUT parameter is set to On.

- b) Reception
Not recognized.

4. SYSTEM REALTIME MESSAGES

4.1 Active Sensing

- a) Transmission
Transmitted.
b) Reception
Once FE has been received, if no MIDI data is subsequently received for longer than an interval of approximately 300msec. the Disklavier will perform the same function as when ALL SOUNDS OFF. ALL NOTES OFF, and RESET ALL CONTROLLERS messages are received, and will then return to a status in which FE is not monitored.

4.2 Timing Clock

- a) Transmission

4.3 Start

- a) Transmission
This message is transmitted only when the REMOTE OUT parameter is set to On.
b) Reception
This message is received only when REMOTE IN Parameter is Set to On.

4.4 Stop

- a) Transmission
This message is transmitted only when the REMOTE OUT parameter is set to On.
b) Reception
This message is received only when REMOTE IN Parameter is Set to On.

<Table 1-1>

Parameter Bass Address
Model ID = 4C [XG]

	Parameter Change			Description
	(H)	(M)	(L)	
XG SYSTEM	00	00	00	System
	00	00	7D	Drum setup Reset
	00	00	7E	XG System On
	00	00	7F	All Parameter Reset
EFFECT 1	02	01	00	Effect1 (Reverb, Chorus, Variation)
MULTI PART	08	00	00	Multi Part 1
	08	0F	00	Multi Part 16
DRUM	30	18	00	Drum Setup 1
	31	18	00	Drum Setup 2

Address	Parameter
3n 0B 00	note number 13
3n 0C 00	note number 14
3n 5B 00	note number 91

n: Drum setup number (0, 1)

<Table 1-2>

MIDI Parameter Change table (SYSTEM) [XG]

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
00 00 00	4	0000-07FF	MASTER TUNE	-102.4 - +102.3 [cent] 1st bit3-0→bit15-12 2nd bit3-0→bit11-8 3rd bit3-0→bit7-4 4th bit3-0→bit3-0	00 04 00 00 -400
04 05 06 7D 7E 7F	1	00 - 7F 00 - 7F 28 - 58 n 00 00	MASTER VOLUME not used TRANSPOSE DRUM SETUP RESET XG SYSTEM ON ALL PARAMETER RESET	0 - 127	7F
TOTAL SIZE	07			-24 - +24 [semitones] n=Drum setup number 00=XG system ON (receive only) 00=ON (receive only)	40

<Table 1-3>

MIDI Parameter Change table (EFFECT 1) [XG]

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value (H)
02 01 00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	see Effect Type List 00 : basic type	01(=HALL1) 00
02 03 04 05 06 07 08	1	00-7F 00-7F 00-7F 00-7F 00-7F 00-7F 00-7F	REVERB PARAMETER 1 REVERB PARAMETER 2 REVERB PARAMETER 3 REVERB PARAMETER 4 REVERB PARAMETER 5 REVERB PARAMETER 6 REVERB PARAMETER 7	see Effect Parameter List " " " " " " "	Depends on reverb type " " " " " " "

	09	1	00-7F	REVERB PARAMETER 8
	0A	1	00-7F	REVERB PARAMETER 9
	0B	1	00-7F	REVERB PARAMETER 10
	0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB(0...64...127)	40
	0D	1	01-7F	REVERB PAN	L63...C...R63(1...64...127)	40
TOTAL SIZE	0E					
02	01	10	1	00-7F	REVERB PARAMETER 11	see Effect Parameter List
		11	1	00-7F	REVERB PARAMETER 12	..
		12	1	00-7F	REVERB PARAMETER 13	..
		13	1	00-7F	REVERB PARAMETER 14	..
		14	1	00-7F	REVERB PARAMETER 15	..
		15	1	00-7F	REVERB PARAMETER 16	..
TOTAL SIZE	6					
02	01	20	2	00-7F	CHORUS TYPE MSB	see Effect Type List
				00-7F	CHORUS TYPE LSB	00 : basic type
		22	1	00-7F	CHORUS PARAMETER 1	see Effect Parameter List
		23	1	00-7F	CHORUS PARAMETER 2	..
		24	1	00-7F	CHORUS PARAMETER 3	..
		25	1	00-7F	CHORUS PARAMETER 4	..
		26	1	00-7F	CHORUS PARAMETER 5	..
		27	1	00-7F	CHORUS PARAMETER 6	..
		28	1	00-7F	CHORUS PARAMETER 7	..
		29	1	00-7F	CHORUS PARAMETER 8	..
		2A	1	00-7F	CHORUS PARAMETER 9	..
		2B	1	00-7F	CHORUS PARAMETER 10	..
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB(0...64...127)
		2D	1	01-7F	CHORUS PAN	L63...C...R63(1...64...127)
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB(0...64...127)
TOTAL SIZE	0F					
02	01	30	1	00-7F	CHORUS PARAMETER 11	see Effect Parameter List
		31	1	00-7F	CHORUS PARAMETER 12	..
		32	1	00-7F	CHORUS PARAMETER 13	..
		33	1	00-7F	CHORUS PARAMETER 14	..
		34	1	00-7F	CHORUS PARAMETER 15	..
		35	1	00-7F	CHORUS PARAMETER 16	..
TOTAL SIZE	6					
02	01	40	2	00-7F	VARIATION TYPE MSB	see Effect Type List
				00-7F	VARIATION TYPE LSB	00 : basic type
		42	2	00-7F	VARIATION PARAMETER 1 MSB	see Effect Parameter List
				00-7F	VARIATION PARAMETER 1 LSB	..
		44	2	00-7F	VARIATION PARAMETER 2 MSB	..
				00-7F	VARIATION PARAMETER 2 LSB	..
		46	2	00-7F	VARIATION PARAMETER 3 MSB	..
				00-7F	VARIATION PARAMETER 3 LSB	..
		48	2	00-7F	VARIATION PARAMETER 4 MSB	..
				00-7F	VARIATION PARAMETER 4 LSB	..
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	..
				00-7F	VARIATION PARAMETER 5 LSB	..
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	..
				00-7F	VARIATION PARAMETER 6 LSB	..
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	..
				00-7F	VARIATION PARAMETER 7 LSB	..
		50	2	00-7F	VARIATION PARAMETER 8 MSB	..
				00-7F	VARIATION PARAMETER 8 LSB	..
		52	2	00-7F	VARIATION PARAMETER 9 MSB	..
				00-7F	VARIATION PARAMETER 9 LSB	..
		54	2	00-7F	VARIATION PARAMETER 10 MSB	..
				00-7F	VARIATION PARAMETER 10 LSB	..
		56	1	00-7F	VARIATION RETURN	-∞dB...0dB...+6dB(0...64...127)
		57	1	01-7F	VARIATION PAN	L63...C...R63(1...64...127)
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB...0dB...+6dB(0...64...127)
		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) OFF (127)
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64 - +63
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64 - +63
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64 - +63
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64 - +63
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64 - +63
TOTAL SIZE	21					
02	01	70	1	00-7F	VARIATION PARAMETER 11	see Effect Parameter List
		71	1	00-7F	VARIATION PARAMETER 12	..
		72	1	00-7F	VARIATION PARAMETER 13	..
		73	1	00-7F	VARIATION PARAMETER 14	..
		74	1	00-7F	VARIATION PARAMETER 15	..
		75	1	00-7F	VARIATION PARAMETER 16	..
TOTAL SIZE	6					

<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	0 - 127
	nn	03	1	00 - 7F	PROGRAM NUMBER	1 - 128

nn	04	1	00 - 0F, 7F	Rev CHANNEL	1 - 16, OFF	part no.
nn	05	1	00 - 01	MONO/POLY MODE	0: MONO 1: POLY	01
nn	06	1	00 - 02	SAME NOTE NUMBER KEY ON ASSIGN	0: SINGLE 1: MULTI	1 (all part) part10=2, other=0
nn	07	1	00 - 03	PART MODE	2: INST (for DRUM) 0: NORMAL 1: DRUM 2-3: DRUMS1 - 2	00 (other than Part10) 02 (Part10)
nn	08	1	28 - 58	NOTE SHIFT	-24 - +24 [semitones]	40
nn	09	2	00 - FF	DETUNE	-12.8 - +12.7 [Hz] 1st bit3-0→bit7-4 2nd bit3-0→bit7-4	08 00 (80)
nn	0A					
nn	0B	1	00 - 7F	VOLUME	0 - 127	64
nn	0C	1	00 - 7F	VELOCITY SENSE DEPTH	0 - 127	40
nn	0D	1	00 - 7F	VELOCITY SENSE OFFSET	0 - 127	40
nn	0E	1	00 - 7F	PAN	0/random, 1/L63-64/C-127/R63	40
nn	0F	1	00 - 7F	NOTE LIMIT LOW	C-2 - G8	00
nn	10	1	00 - 7F	NOTE LIMIT HIGH	C-2 - G8	7F
nn	11	1	00 - 7F	DRY LEVEL	0 - 127	7F
nn	12	1	00 - 7F	CHORUS SEND	0 - 127	00
nn	13	1	00 - 7F	REVERB SEND	0 - 127	40
nn	14	1	00 - 7F	VARIATION SEND	0 - 127	00
nn	15	1	00 - 7F	VIBRATO RATE	-64 - +63	40
nn	16	1	00 - 7F	VIBRATO DEPTH	-64 - +63	40 (drum part ignores)
nn	17	1	00 - 7F	VIBRATO DELAY	-64 - +63	40 (drum part ignores)
nn	18	1	00 - 7F	FILTER CUTOFF FREQUENCY	-64 - +63	40
nn	19	1	00 - 7F	FILTER RESONANCE	-64 - +63	40
nn	1A	1	00 - 7F	EG ATTACK TIME	-64 - +63	40
nn	1B	1	00 - 7F	EG DECAY TIME	-64 - +63	40
nn	1C	1	00 - 7F	EG RELEASE TIME	-61 - +63	40
nn	1D	1	28 - 58	MW PITCH CONTROL	-24 - +24 [semitones]	40
nn	1E	1	00 - 7F	MW FILTER CONTROL	-9600 - +9450 [cent]	40
nn	1F	1	00 - 7F	MW AMPLITUDE CONTROL	-64 - +63	40
nn	20	1	00 - 7F	MW LFO PMOD DEPTH	0 - 127	0A
nn	21	1	00 - 7F	MW LFO FMOD DEPTH	0 - 127	00
nn	22	1	00 - 7F	MW LFO AMOD DEPTH	0 - 127	00
nn	23	1	28 - 58	BEND PITCH CONTROL	-24 - +24 [semitones]	42
nn	24	1	00 - 7F	BEND FILTER CONTROL	-9600 - +9450 [cent]	40
nn	25	1	00 - 7F	BEND AMPLITUDE CONTROL	-64 - +63	40
nn	26	1	00 - 7F	BEND LFO PMOD DEPTH	+100 - +100 [%]	40
nn	27	1	00 - 7F	BEND LFO FMOD DEPTH	+100 - +100 [%]	40
nn	28	1	00 - 7F	BEND LFO AMOD DEPTH	+100 - +100 [%]	40
TOTAL SIZE	29					
nn	30	1	00 - 01	Rev PITCH BEND	0/OFF, 1/ON	01
nn	31	1	00 - 01	Rev CH AFTER TOUCH (CAT)	0/OFF, 1/ON	01
nn	32	1	00 - 01	Rev PROGRAM CHANGE	0/OFF, 1/ON	01
nn	33	1	00 - 01	Rev CONTROL CHANGE	0/OFF, 1/ON	01
nn	34	1	00 - 01	Rev POLY AFTER TOUCH (PAT)	0/OFF, 1/ON	01
nn	35	1	00 - 01	Rev NOTE MESSAGE	0/OFF, 1/ON	01
nn	36	1	00 - 01	Rev RPN	0/OFF, 1/ON	01
nn	37	1	00 - 01	Rev NRPN	0/OFF, 1/ON	01
nn	38	1	00 - 01	Rev MODULATION	0/OFF, 1/ON	01
nn	39	1	00 - 01	Rev VOLUME	0/OFF, 1/ON	01
nn	3A	1	00 - 01	Rev PAN	0/OFF, 1/ON	01
nn	3B	1	00 - 01	Rev EXPRESSION	0/OFF, 1/ON	01
nn	3C	1	00 - 01	Rev HOLD1	0/OFF, 1/ON	01
nn	3D	1	00 - 01	Rev PORTAMENTO	0/OFF, 1/ON	01
nn	3E	1	00 - 01	Rev SOSTENUTO	0/OFF, 1/ON	01
nn	3F	1	00 - 01	Rev SOFT PEDAL	0/OFF, 1/ON	01
nn	40	1	00 - 01	Rev BANK SELECT	0/OFF, 1/ON	XG=01, GM=00
nn	41	1	00 - 7F	SCALE TUNING C	-64 - +63 [cent]	40
nn	42	1	00 - 7F	SCALE TUNING C#	-64 - +63 [cent]	40
nn	43	1	00 - 7F	SCALE TUNING D	-64 - +63 [cent]	40
nn	44	1	00 - 7F	SCALE TUNING D#	-64 - +63 [cent]	40
nn	45	1	00 - 7F	SCALE TUNING E	-64 - +63 [cent]	40
nn	46	1	00 - 7F	SCALE TUNING F	-64 - +63 [cent]	40
nn	47	1	00 - 7F	SCALE TUNING F#	-64 - +63 [cent]	40
nn	48	1	00 - 7F	SCALE TUNING G	-64 - +63 [cent]	40
nn	49	1	00 - 7F	SCALE TUNING G#	-64 - +63 [cent]	40
nn	4A	1	00 - 7F	SCALE TUNING A	-64 - +63 [cent]	40
nn	4B	1	00 - 7F	SCALE TUNING A#	-64 - +63 [cent]	40
nn	4C	1	00 - 7F	SCALE TUNING B	-64 - +63 [cent]	40
nn	4D	1	28 - 58	CAT PITCH CONTROL	-24 - +24 [semitones]	40
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

nn	5C	1	00 - 7F	AC1 AMPLITUDE CONTROL	-64 - +63	40
nn	5D	1	00 - 7F	AC1 LFO PMOD DEPTH	0 - 127	00
nn	5E	1	00 - 7F	AC1 LFO FMOD DEPTH	0 - 127	00
nn	5F	1	00 - 7F	AC1 LFO AMOD DEPTH	0 - 127	00
nn	60	1	00 - 5F	AC2 CONTROLLER NUMBER	0 - 95	11
nn	61	1	28 - 58	AC2 PITCH CONTROL	-24 - +24 [semitones]	40
nn	62	1	00 - 7F	AC2 FILTER CONTROL	-9600 - +9450 [cent]	40
nn	63	1	00 - 7F	AC2 AMPLITUDE CONTROL	-64 - +63	40
nn	64	1	00 - 7F	AC2 LFO PMOD DEPTH	0 - 127	00
nn	65	1	00 - 7F	AC2 LFO FMOD DEPTH	0 - 127	00
nn	66	1	00 - 7F	AC2 LFO AMOD DEPTH	0 - 127	00
nn	67	1	00 - 01	PORTAMENTO SWITCH	0/OFF, 1/ON	00
nn	68	1	00 - 7F	PORTAMENTO TIME	0 - 127	00
nn	69	1	00 - 7F	PITCH EG INITIAL LEVEL	-64 - +63	40
nn	6A	1	00 - 7F	PITCH EG ATTACK TIME	-64 - +63	40
nn	6B	1	00 - 7F	PITCH EG RELEASE LEVEL	-64 - +63	40
nn	6C	1	00 - 7F	PITCH EG RELEASE TIME	-64 - +63	40
nn	6D	1	01 - 7F	VELOCITY LIMIT LOW	1 - 127	01
nn	6E	1	01 - 7F	VELOCITY LIMIT HIGH	1 - 127	7F
TOTAL SIZE		3F				

nn = Part Number (0:1Part, 1:2Part, 2:3Part, ..., 15:16Part)
For the DRUM PART, the following parameters have no effect.

- SOFT PEDAL
 - BANK SELECT LSB
 - MONO/POLY
 - SCALE TUNING
 - PORTAMENTO
- PITCH EG INITIAL LEVEL
 - PITCH EG ATTACK TIME
 - PITCH EG RELEASE LEVEL
 - PITCH EF RELEASE TIME
 - POLY AFTER TOUCH

<Table 1-5>

MIDI Parameter Change table (DRUM SETUP) [XG]

Address (H)		Size (H)	Data (H)	Parameter	Description	Default
3n	rr	00	1	00 - 7F	PITCH COARSE	-64 - +63
3n	rr	01	1	00 - 7F	PITCH FINE	-64 - +63 [cent]
3n	rr	02	1	00 - 7F	LEVEL	0 - 127
3n	rr	03	1	00 - 7F	ALTERNATE GROUP	0/OFF, 1 - 127
3n	rr	04	1	00 - 7F	PAN	0/random, 1/L63 - 64/C - 127/R63
3n	rr	05	1	00 - 7F	REVERB SEND	0 - 127
3n	rr	06	1	00 - 7F	CHORUS SEND	0 - 127
3n	rr	07	1	00 - 7F	VARIATION SEND	0 - 127
3n	rr	08	1	00 - 01	KEY ASSIGN	0/SINGLE, 1/MULTI
3n	rr	09	1	00 - 01	Rcv NOTE OFF	0/OFF, 1/ON
3n	rr	0A	1	00 - 01	Rcv NOTE ON	0/OFF, 1/ON
3n	rr	0B	1	00 - 7F	FILTER CUTOFF FREQUENCY	-64 - +63
3n	rr	0C	1	00 - 7F	FILTER RESONANCE	-64 - +63
3n	rr	0D	1	00 - 7F	EG ATTACK RATE	-64 - +63
3n	rr	0E	1	00 - 7F	EG DECAY1 RATE	-64 - +63
3n	rr	0F	1	00 - 7F	EG DECAY2 RATE	-64 - +63
TOTAL SIZE		10				

[Note]
n: Drum number (0 - 1)
rr: note number (0D - 5B)
When XG system on or GM mode on messages are received, all Drum Setup parameters are initialized.
The Drum Setup Reset message can be used to initialize each Drum Setup parameter.
Selecting a Drum Set will cause the Drum Setup parameter values to be initialized.

<Table 2-1>

Parameter Bass Address
Model 1D = 4B [QS300]

Bulk Dump				Description
	Address			
	(H)	(M)	(L)	
USER	11	00	00	User Normal Voice 1
NORMAL				:
VOICE	11	1F	00	User Normal Voice 32

<Table 2-2>

MIDI Bulk Dump table (USER NORMAL VOICE) [QS300]

Address (H)		Size (H)	Data (H)	Parameter	Description	Default value (H)
11	nn	00	17D	20-7E	Voice Name	[Common]
		07				

08	:	not used	
0A	:	"	
0B	01-03	Element Switch	1:Element 1 on, 2:Element 2 on, 3:Element 1 and 2 on
0C	00-7F	Voice Level	
0D	:	not used	
3C	:	"	
3D	00-7F	Wave Number High	[Element 1]
3E	00-7F	Wave Number Low	bit13-bit7
3F	00-7F	Note Limit Low	bit6-bit0
40	00-7F	Note Limit High	
41	00-7F	Velocity Limit Low	
42	00-7F	Velocity Limit High	
43	00-01	Filter EG Velocity Curve	
44	00-02	LFO Wave Select	0:saw, 1:tri, 2:S&H
45	00-01	LFO Phase Initialize	0:OFF, 1:ON
46	00-3F	LFO Speed	
47	00-7F	LFO Delay	
48	00-7F	LFO Fade Time	
49	00-3F	LFO PMD Depth	
4A	00-0F	LFO CMD Depth	
4B	00-1F	LFO AMD Depth	
4C	20-60	Note Shift	
4D	0E -72	Detune	
4E	00-05	Pitch Scaling	0:100%, 1:50%, 2:20%, 3:10%, 4:5%, 5:0%
4F	00-7F	Pitch Scaling Center Note	
50	00-03	Pitch EG Depth	0:1/2oct, 1:1oct, 2:2oct, 3:4oct
51	39-47	Velocity PEG Level Sensitivity	
52	39-47	Velocity PEG Rate Sensitivity	
53	39-47	PEG Rate Scaling	
54	00-7F	PEG Rate Scaling Center Note	
55	00-3F	PEG Rate 1	
56	00-3F	PEG Rate 2	
57	00-3F	PEG Rate 3	
58	00-3F	PEG Rate 4	
59	00-7F	PEG Level 0	
5A	00-7F	PEG Level 1	
5B	00-7F	PEG Level 2	
5C	00-7F	PEG Level 3	
5D	00-7F	PEG Level 4	
5E	00-3F	Filter Resonance	
5F	00-07	Velocity Sensitivity	
60	00-7F	Cutoff Frequency	
61	00-7F	Cutoff Scaling Break Point 1	
62	00-7F	Cutoff Scaling Break Point 2	
63	00-7F	Cutoff Scaling Break Point 3	
64	00-7F	Cutoff Scaling Break Point 4	
65	00-7F	Cutoff Scaling Offset 1	
66	00-7F	Cutoff Scaling Offset 2	
67	00-7F	Cutoff Scaling Offset 3	
68	00-7F	Cutoff Scaling Offset 4	
69	39-47	Velocity FEG Level Sensitivity	
6A	39-47	Velocity FEG Rate Sensitivity	
6B	39-47	FEG Rate Scaling	
6C	00-7F	FEG Rate Scaling Center Note	
6D	00-3F	FEG Rate 1	
6E	00-3F	FEG Rate 2	
6F	00-3F	FEG Rate 3	
70	00-3F	FEG Rate 4	
71	00-7F	FEG Level 0	
72	00-7F	FEG Level 1	
73	00-7F	FEG Level 2	
74	00-7F	FEG Level 3	
75	00-7F	FEG Level 4	
76	00-7F	Element Level	
77	00-7F	Level Scaling Break Point 1	
78	00-7F	Level Scaling Break Point 2	
79	00-7F	Level Scaling Break Point 3	
7A	00-7F	Level Scaling Break Point 4	
7B	00-7F	Level Scaling Offset 1	
7C	00-7F	Level Scaling Offset 2	
7D	00-7F	Level Scaling Offset 3	
7E	00-7F	Level Scaling Offset 4	
7F	00-06	Velocity Curve	
80	00-0F	Pan	0 (Left)-14 (Right), 15:Scaling
81	39-47	AEG Rate Scaling	
82	00-7F	AEG Scaling Center Note	
83	00-0F	AEG Key on Delay	
84	00-7F	AEG Attack Rate	
85	00-7F	AEG Decay 1 Rate	
86	00-7F	AEG Decay 2 Rate	
87	00-7F	AEG Release Rate	
88	00-7F	AEG Decay 1 Level	
89	00-7F	AEG Decay 2 Level	
8A	00-7F	Address Offset High	bit13-bit7
8B	00-7F	Address Offset Low	bit6-bit0
8C	39-47	Resonance Sensitivity	
8D	:	"	[Element 2]
:	:	"	same as [Element 1]
DC	:	"	"
DD	:	not used	[Element 3]
:	:	"	"
12C	:	"	"
12D	:	not used	[Element 4]
:	:	"	"
17C	:	"	"
TOTAL SIZE 17D			"

nn=Voice Number (00-1F)

XG Normal Voice List

Bank Select MSB = 000, LSB = Bank Number

Voice names in bold typeface are basic voices.
All voices listed below are selectable in the DSR1 control panel.

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	GrndPnoK	1			32	DetDrwOr	2			40	JazzRthm	2			3	S.Strngs	2																	
		18	MelloGrP	1			33	60sDrOr1	2			45	VXUprght	2			8	SlowStr	1																	
		40	PianoStr	2			34	60sDrOr2	2			34	0	FngR Bass			1	24	ArcoStr	2																
	2	0	BritePno	1			35	70sDrOr1	2			18	FngRDrk	2			35	60sStrng	2																	
		1	BritPnoK	1			36	DrawOrg2	2			27	FlangeBa	2			40	Orchestr	2																	
		3	0	E.Grand			2	37	60sDrOr3			2	40	Ba&DstEG			2	41	Orchstr2	2																
			1	ElGrPnoK			2	38	EvenBar			2	43	FngRSlap			2	42	TremOrch	2																
	32		Det.CP80	2			40	16+2"2/3	2			45	FngBass2	2			45	VeloStr	2																	
	40		ElGrPno1	2			64	Organ Ba	1			65	ModAlem	2			50	0	Strings2	1																
	4	0	HnkyTonk	2			65	70sDrOr2	2			35	0	PickBass			1	3	S.SlwStr	2																
		1	HnkyTnkK	2			66	CheezOrg	2			28	MutePkBa	1			8	LegatoSt	2																	
		5	0	E.Piano1			2	67	DrawOrg3		2	36	0	Fretless		1	40	Warm Str	2																	
			1	El.Pno1K			1	18	0		PercOrgn	1	32	Fretles2		2	41	Kingdom	2																	
	18		MelloEP1	2			24		70sPcOr1		2	33	Fretles3	2		64	70s Str	1																		
	32		Chor.EP1	2			32		DetPrcOr		2	34	Fretles4	2		65	Str Ens3	1																		
	40	HardELP	2	33			LiteOrg		2		96	SynFretl	2	51		0	Syn.Str1	2																		
	6	0	E.Piano2	2			37	PercOrg2	2		97	Smooth	2			27	ResoStr	2																		
		1	El.Pno2K	1			19	0	RockOrgn		2	37	0			SlapBas1	1	64	Syn Str4	2																
		32	Chor.EP2	2				64	RotaryOr		2	27	ResoSlap			1	65	SS Str	2																	
		33	DX Hard	2				65	SloRotar		2	32	PunchThm	2		52	0	Syn.Str2	2																	
	34	DXLegend	2	66				FstRotar	2		38	0	SlapBas2	1		53	0	ChoirAah	1																	
	Chromatic Percussion	7	0	Harpsti.			1	Guitar	20		0	ChrchOrg	2	43		VeloSlap	2	39	0	SynBass1	1	54	0	VoiceOoh	1											
			1	Harpsti.K			1				32	ChurOrg3	2				18		SynBa1Dk	1	3		S.Choir	2												
25			Harpsti.2	2	35	ChurOrg2	2			20	FastResB	1	16		Ch.Aahs2		2																			
35			Harpsti.3	2	40	NotreDam	2			24	AcidBass	1	32		MelChoir		2																			
8		0	Clavi.	2	64	OrgFlute	2			35	Clv Bass	2	40		ChoirStr		2																			
		1	Clavi_K	1	65	TrmOrgFl	2			40	TeknoBa	2	40		ChoirStr		1																			
		27	ClaviWah	2	21	0	ReedOrgn			1	64	Oscar	2		55		0		SynVoice	1																
		64	PulseClv	1		40	Puff Org			2	65	SqrBass	1		40		SynVox2		2																	
9		0	Celesta	1		22	0			Acordion	2	66	RubberBa		2		41		Choral	2																
		0	Glocken	1		32	Accordft			2	96	Hammer	2		64		AnaVoice		1																	
		11	0	MusicBox	2	23	0			Harmnica	1	40	0		SynBass2		2		56	0	Orch.Hit		2													
		64	Orgel	2	32	Harmo 2	2			6	MelloSB1		1		35		OrchHit2			2																
12	0	Vibes	1	24	0	TangoAcd	2			12	Seq Bass		2	64	Impact	2																				
	1	VibesK	1	25	0	NylonGtr	1			18	ClkSynBa		2	Brass	57	0	Trumpet	1																		
	45	HardVibe	2		16	NylonGtr2	1			19	SynBa2Dk	1	16			Trumpet2	1																			
	13	0	Marimba		1	25	NylonGtr3			2	32	SmthBa 2	2			17	BriteTrp	2																		
1		MarimbaK	1		43	VclGtHrm	2			40	ModulrBa	2	32			WarmTrp	2																			
64		SineMrmb	2	96	Ukulele	1	41			DX Bass	2	58	0			Trombone	1																			
97		Balafon2	2	26	0	SteelGtr	1			64	X WireBa	2	18			Trmbone2	2																			
14	0	Xylophon	1		16	SteelGtr2	1			Strings	41	0	Violin			1	59	0	Tuba	1																
	0	TubulBel	1		35	12StrGtr	2					8	SlowVln			1		16	Tuba 2	1																
	96	ChrchBel	2		40	Nyln&Stl	2					42	0			Viola		1	60	0	Mute.Trp	1														
	97	Carillon	2	41	Stl&Body	2	43					0	Cello			1		61		0	Fr.Horn	2														
15	0	Dulcimer	1	96	Mandolin	1	44					0	Contrabs			1				6	FrHrSolo	2														
	35	Dulcimer2	2	27	0	Jazz Gtr	1	45	0			Trem.Str	1			32				FrHorn2	1															
	96	Cimbalom	2		18	MelloGtr	1	8	SlowTrStr			1	37	HornOrch	2																					
	97	Santur	2		32	JazzAmp	2	40	Susp Str			2	62	0	BrasSect	1																				
Percussion	16	0	Dulcimer		1	Guitar	28	0	CleanGtr			1	46	0	Pizz.Str	1		63	0	SynBras1	2															
		35	Dulcimer2	2	32			ChorusGt	2			47			0	Harp			1	12	QuackBr	2														
		96	Cimbalom	2	29			0	Mute.Gtr			1			40	YangChin			2	20	RezSynBr	2														
		97	Santur	2				40	FunkGtr1			2			48	0			Timpani	1	24	PolyBrss	2													
	17	0	DrawOrgn	1				41	MuteStlG	2	40	0			Timpani	1	27		SynBras3	2																
		1	GrndPnoK	1				43	FunkGtr2	2					41	0	Timpani		1	32	JumpBrss	2														
		18	MelloGrP	1	45			Jazz Man	1	42							0		Timpani	1	45	AnaVelBr	2													
		40	PianoStr	2	30			0	Ovrdrive										1	43	0	Timpani	1	64	AnaBrss1	2										
	18	0	BritePno	1	43			GlPinch	2										43			0	Timpani	1	64	0	SynBras2	1								
		1	BritPnoK	1	31			0	Dist.Gtr														1	44		0	Timpani	1	18	Soft Brs	2					
		3	E.Grand	2	40			FeedbkGt	2														45				0	Timpani	1	40	SynBras4	2				
		1	ElGrPnoK	2	41			FeedbkGt2	2																			46	0	Timpani	1	41	ChorBrss	2		
32	Det.CP80	2	32	0	GtrHarmo			1	47				0	Timpani				1												45	VelBras2	2				
40	ElGrPno1	2		65	GtFeedbk			1						48				0												Timpani	1	64	AnaBras2	2		
41	ElGrPno2	2		66	GtrHrmo2			1																						49	0	Timpani	1			
45	VX EL.P1	2																																		
64	60sELP	1																																		
19	0	RockOrgn	2																																	
	64	RotaryOr	2																																	
	65	SloRotar	2																																	
	66	FstRotar	2																																	
20	0	ChrchOrg	2																																	
	32	ChurOrg3	2																																	
	35	ChurOrg2	2																																	
	40	NotreDam	2																																	
21	0	ReedOrgn	1																																	
	40	Puff Org	2																																	
	22	0	Acordion	2																																
	32	Accordft	2																																	
23	0	Harmnica	1																																	
	32	Harmo 2	2																																	
	24	0	TangoAcd	2																																
	64	TngoAcd2	2																																	
25	0	NylonGtr	1																																	
	16	NylonGtr2	1																																	
	25	NylonGtr3	2																																	
	43	VclGtHrm	2																																	
26	0	SteelGtr	1																																	
	16	SteelGtr2	1																																	
	35	12StrGtr	2																																	
	40	Nyln&Stl	2																																	
27	0	Jazz Gtr	1																																	
	18	MelloGtr	1																																	
	32	JazzAmp	2																																	
	0	CleanGtr	1																																	
28	0	CleanGtr	1																																	
	32	ChorusGt	2																																	
	29	0	Mute.Gtr	1																																
	40	FunkGtr1	2																																	
29	0	MuteStlG	2																																	
	41	MuteStlG	2																																	
	43	FunkGtr2	2																																	
	45	Jazz Man	1																																	
30	0	Ovrdrive	1																																	
	43	Gt.Pinch	2																																	
	31	0	Dist.Gtr	1																																
	40	FeedbkGt	2																																	
31	0	Dist.Gtr	1																																	
	40	FeedbkGt	2																																	
	41	FeedbkGt2	2																																	
	0	GtrHarmo	1																																	
32	0	GtrHarmo	1																																	
	65	GtFeedbk	1																																	
	66	GtrHrmo2	1																																	

TG300B Normal Voice List

Bank Select MSB=Bank Number, LSB=000

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	Guitar	29	0	Mute.Gtr	1	Strings	41	0	Violin	1		
	8	8	GndPnoK	1		1	70sDrOr1	2	8		8	FunkGtr1	2	8		8	SlowVln	1			
	16	16	MelloGrP	1		8	DetDrwOr	2	16		16	FunkGtr2	2	126		126	E-Organ4	2			
	126	126	A-Piano1	2		9	70sDrOr2	2	126		126	A-Bass	2	127		127	syncho1	2			
	127	127	a.piano1	1		16	60sDrOr1	2	127		127	synbass1	1	42		0	Viola	1			
	2	0	BritePno	1		17	60sDrOr2	2	30		0	Ovrdrive	1	126		126	E-Organ5	2			
	8	8	BritPnoK	1		18	60sDrOr3	2	126		126	Choir-1	1	127		127	rain	2			
	126	126	A-Piano2	2		24	CheezOrg	2	127		127	synbass2	1	43		0	Cello	1			
	127	127	a.piano2	1		32	DrawOrg2	2	31		0	Dist.Gtr	1	126		126	E-Organ6	2			
	3	0	E.Grand	2		33	EvenBar	2	8		8	FeedbkGt	2	127		127	synhoc	2			
	1	1	ElGrPno1	2		40	Organ Ba	1	9		9	FeedbkGt2	2	44		0	Contrabs	1			
	2	2	ElGrPno2	2		126	Slap-2	2	126		126	Choir-2	1	126		126	E-Organ7	2			
	8	8	ElGrPnoK	2		127	harpsi1	1	127		127	synbass3	2	127		127	syncho2	2			
	126	126	A-Piano3	2		18	0	PercOrgn	1		32	0	GtrHarmo	1		45	0	Trem.Str	1		
	127	127	a.piano3	1		1	70sPcOr1	2	8		8	GtFeedbk	1	8		8	SlowTrStr	1			
	4	0	HnkyTonk	2		8	DetPreOr	2	126		126	Choir-3	2	9		9	Susp Str	2			
	8	8	HnkyTnkK	2		32	PercOrg2	2	127		127	synbass4	1	126		126	E-Organ8	2			
	126	126	A-Piano4	2		126	Slap-3	2	33		0	Aco.Bass	1	127		127	synsolo	2			
	127	127	e.piano1	1		127	harpsi2	2	126		126	Choir-4	2	46		0	Pizz.Str	1			
	5	0	E.Piano1	2		19	0	RockOrgn	8		8	newagepd	2	126		126	E-Organ9	2			
	8	8	Chor.EP1	2		8	RotaryOr	2	127		127	FngBass	1	127		127	synrdorg	2			
	16	16	VX El.P1	2		16	SloRotar	2	34		0	FngBass2	2	47		0	Harp	1			
	24	24	60sEl.P	1		24	FstRotar	2	1		1	Stngs-1	2	126		126	SoftTP-1	1			
	25	25	HardEl.P	2		126	Slap-4	2	126		126	synharmo	2	127		127	synhell	1			
	26	26	MelloEP1	2		127	harpsi3	1	35		0	PickBass	1	48		0	Timpani	1			
	32	32	El.Pno1K	1		20	0	ChrchOrg	8		8	MutePkBa	1	126		126	SoftTP-2	1			
	126	126	A-Piano5	1		16	ChurOrg3	2	126		126	Stngs-2	2	127		127	squareld	2			
	127	127	e.piano2	1		32	OrgFlute	2	127		127	choir pd	2	16		16	AnaBrss2	2			
	6	0	E.Piano2	2		24	TrmOrgFl	2	36		0	Fretless	1	17		17	VelBras2	2			
	8	8	Chor.EP2	2		126	Slap-5	2	2		2	Fretles2	2	126		126	Orchestr	2			
	16	16	VX El.P2	2		127	clavi1	1	3		3	Fretles3	2	127		127	Orchstr2	2			
	24	24	DX Hard	1		21	0	ReedOrgn	4		4	Fretles4	2	10		10	TremOrch	2			
	32	32	El.Pno2K	1		126	Slap-6	2	5		5	SynFretl	2	11		11	ChoirStr	2			
	126	126	A-Piano6	1		127	clavi2	1	126		126	Smooth	2	16		16	S.Strngs	2			
	127	127	e.piano3	1		22	0	Acordion	126		126	Stngs-3	2	24		24	VeloStr	2			
	7	0	Harpsi.	1		8	AccordIt	2	127		127	howed pd	2	126		126	TP/TRB-1	1			
	8	8	Harpsi.3	2		126	Slap-7	2	37		0	SlapBas1	1	127		127	strsect1	2			
	16	16	Harpsi.K	1		127	clavi3	1	8		8	RezoSlap	1	50		0	Strings2	1			
	24	24	Harpsi.2	2		23	0	Harmnica	126		126	Stngs-4	2	1		1	70s Str	1			
	126	126	A-Piano7	1		1	Harmo 2	2	127		127	soundtrk	2	8		8	LegatoSt	2			
	127	127	e.piano4	1		126	Slap-8	2	38		0	SlapBas2	1	9		9	Warm Str	2			
	8	0	Clavi.	2		127	celesta1	1	126		126	E-Organ1	2	10		10	S.SlwStr	2			
	8	8	Clavi. K	1		24	0	TangoAcd	127		127	atmosphr	2	126		126	TP/TRB-2	1			
	126	126	E-Piano1	2		127	Finger-1	1	39		0	SynBass1	1	127		127	strsect2	2			
	127	127	hnkytnk	2		127	celesta2	1	1		1	SynBa1Dk	1	51		0	Syn.Str1	2			
	Chromatic Percussion	9	0	Celesta		1	Guitar	25	0		NylonGtr	1	8	8		AcidBass	1	1	1	Syn Str4	2
		126	126	E-Piano2		2		8	Ukulele		1	9	9	FastResB		1	126	126	TP/TRB-3	2	
		127	127	e.organ1		2		16	NylonGt3		2	10	10	TeknoBa		2	127	127	strsect3	1	
		10	0	Glocken		1		24	VelGtHrm		2	16	16	RezoBass		1	72	0	Clarinet	1	
		126	126	E-Piano3		2		32	NylonGt2		1	126	126	E-Organ2		2	73	0	Piccolo	1	
		127	127	e.organ2		2		40	LequintG		1	127	127	syn warm		2	127	127	flute2	1	
		11	0	MusicBox		2		126	Finger-2		2	40	0	SynBass2		2	74	0	Recorder	1	
		126	126	A-Guitr1		1		127	synbras1		2	1	1	ClkSynBa		2	126	126	piccolo1	1	
		127	127	e.organ3		1		26	0		SteelGtr	2	2	ModulrBa		2	127	127	flute	1	
		12	0	Vibes		1		8	12StrGtr		2	3	3	Seq Bass		2	75	0	ChoirAah	1	
1		1	HardVibe	2	9	Nyln&Stl		2	8	8	DX Bass	2	76	0	S.Choir	2					
8		8	VibesK	1	16	Mandolin		2	9	9	X WireBa	2	126	126	MelChoir	2					
126		126	A-Guitr2	2	32	SteelGt2		1	16	16	RubberBa	2	32	32	Ch.Aahs2	2					
127		127	e.organ4	1	126	Picked-1		1	17	17	SynBa2Dk	1	126	126	TP/TRB-5	2					
13		0	Marimba	1	127	synbras2		2	18	18	MelloSB1	1	127	127	violin 1	2					
8		8	MarimbaK	1	27	0		Jazz Gtr	19	19	SmthBa 2	2	54	0	VoiceOoh	1					
17		17	Balafon2	2	1	MelloGtr		1	126	126	E-Organ3	2	126	126	TP/TRB-6	2					
24		24	Log Drum	2	8	PdSteel		1	127	127	synfunny	1	127	127	violin 2	1					
126		126	A-Guitr3	2	126	Picked-2		2	8	8	SynVux2	2	55	0	SynVoice	1					
127		127	pipeorg1	2	127	synbras3		2	127	127	Sax-1	1	126	126	SynVox2	2					
14		0	Xylophon	1	28	0		CleanGtr	126	126	cello 1	1	127	127	Sax-1	1					
126		126	E-Guitr1	2	8	ChorusGt		2	127	127			1	1	OrchHit	2					
127		127	pipeorg2	2	127	synbras4		2	127	127			16	16	OrchHit2	2					
15		0	TubulBel	1					126	126			8	8	Impact	2					
8		8	ChrchBel	2					126	126			126	126	LoFiRave	2					
9		9	Carillon	2					127	127			126	126	Sax-2	1					
126		126	E-Guitr2	1									127	127	cello 2	1					
127		127	pipeorg3	2																	
16		0	Dulcimer	1																	
1		1	Dulcimer2	2																	
8		8	Cimbalom	2																	
126		126	Slap-1	2																	
127		127	acordion	2																	



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
Brass	57	0	Trumpet	1	Synth Lead	81	0	SquareLd	2	Synth Effects	97	0	Rain	2	Percussive	113	0	TnkBell	2
	1	1	Trumpet2	1		1	1	Square 2	1		1	1	HrnoRain	2		8	8	Bonang	2
	24	24	BriteTrp	2		2	2	Hollow	1		2	2	AfrenWnd	2		9	9	Gender	2
	25	25	WarmTrp	2		3	3	Mellow	2		8	8	ClaviPad	2		10	10	Gamelan	2
	126	126	Sax-3	1		4	4	SoloSine	2		127	127	brssect2	2		11	11	S.Gamlan	2
	127	127	contrabs	1		5	5	Shmoog	2		98	0	SoundTrk	2		16	16	Rama Cym	2
	58	0	Trombone	1		6	6	LMSquare	2		1	1	Ancestrl	2		127	127	timpani	1
	1	1	Trombone2	2		8	8	SineLead	1		2	2	Prologue	2		114	0	Agogo	2
	126	126	Sax-4	2		127	127	sax3	1		127	127	vibe1	1		127	127	melotom	1
	127	127	harp 1	1		82	0	Saw.Lead	2		99	0	Crystal	2		115	0	SteelDrum	2
	59	0	Tuba	1		1	1	Saw 2	1		1	1	SynMallet	1		127	127	deepsnar	1
	1	1	Tuba 2	1		2	2	PulseSaw	2		2	2	SttCryst	2		116	0	WoodBlock	1
	126	126	Brass-1	1		3	3	ThickSaw	2		3	3	RndGlock	2		8	8	Castanet	1
	127	127	harp 2	1		4	4	Big Lead	2		4	4	LoudGlock	2		127	127	c.perc1	1
	60	0	Mute.Trp	1		5	5	VeloLead	2		5	5	GlockChi	2		117	0	TaikoDrum	1
	126	126	Brass-2	1		6	6	HeavySyn	2		6	6	ClearBel	2		8	8	Gr.Cassa	1
	127	127	guitar 1	1		7	7	DynaSaw	1		7	7	XmasBell	2		127	127	c.perc2	1
	61	0	Fr.Horn	2		8	8	Dr. Lead	2		8	8	VibeBell	2		118	0	MelodTom	2
	1	1	FrHorn2	2		16	16	WaspySyn	2		9	9	DigiBell	2		1	1	Real Tom	2
	8	8	FrHrSolo	1		127	127	sax4	1		16	16	ChorBell	2		8	8	Mel Tom2	1
	16	16	HornOrch	2		83	0	CalliopLd	2		17	17	AirBells	2		9	9	Rock Tom	1
	126	126	Brass-3	2		2	2	Pure Pad	2		18	18	BellHarp	2		127	127	taiko	1
	127	127	guitar 2	1		127	127	clarin1	1		19	19	Gamelmba	2		0	0	Syn.Drum	1
	62	0	BrasSect	1		84	0	Chiff Ld	2		127	127	vibe2	1		8	8	Ana Tom	1
8	8	BrssSec2	2	127	127	clarin2	1	100	0	Atmosphr	2	9	9	ElecPerc	2				
126	126	Brass-4	2	85	0	CharanLd	2	1	1	WarmAtms	2	127	127	taikorim	1				
127	127	elecgr1	2	8	8	DistLead	2	2	2	NylnHarp	2	120	0	RevCymb1	1				
63	0	SynBras1	2	127	127	oboe	1	3	3	Harp Vox	2	127	127	cymbal	2				
1	1	PolyBrss	2	86	0	Voice Ld	2	4	4	HolhwRls	2	Sound Effects	121	0	FretNoiz	2			
8	8	SynBras3	2	127	127	eng.horn	1	5	5	NylonEP	2		1	1	CuttingNz	1			
9	9	QuackBr	2	87	0	Fifth Ld	2	6	6	AtmasPad	2		2	2	Str Slap	1			
16	16	AnaBrss1	2	1	1	Big Five	2	127	127	smyallet	1		3	3	CttingNz2	2			
126	126	Brass-5	2	127	127	hassoon	1	101	0	Bright	2		127	127	castanet	1			
127	127	elecgr2	2	88	0	Bass &Ld	2	127	127	maletwin	2		122	0	BrthNoiz	2			
64	0	SynBras2	1	1	1	Big&Low	2	102	0	Goblins	2		1	1	FLKClick	1			
1	1	Soft Brs	2	2	2	Fat&Prky	1	1	1	GobSyn	2		127	127	triangle	1			
8	8	SynBras4	2	127	127	harmnica	1	2	2	50sSciFi	2		123	0	Seashowe	2			
16	16	AnaBrss2	2	89	0	NewAgePd	2	127	127	glocken	2		1	1	Rain	1			
17	17	VclBras2	2	1	1	Fantasy2	2	103	0	Echoes	2		2	2	Thunder	1			
126	126	Orch-Hit	1	127	127	trumpet1	1	1	1	EchoBell	2		3	3	Wind	1			
127	127	sitar	1	90	0	Warm Pad	2	2	2	Echo Pan	2	4	4	Stream	2				
Reed	65	0	SprnoSax	1	1	1	ThickPad	2	3	3	EchoPad2	2	5	5	Bubble	2			
	127	127	a.bass 1	1	2	2	Horn Pad	2	4	4	Big Pan	2	127	127	orchchit	1			
	66	0	Alto Sax	1	3	3	RotarStr	2	6	6	SynPiano	2	124	0	Tweet	2			
	8	8	HyprAlto	2	4	4	Soft Pad	2	127	127	tubulbel	1		1	1	Dog	1		
	127	127	a.bass 2	1	127	127	trumpet2	1	104	0	Sci-Fi	2		2	2	Horse	1		
	67	0	TnrSax 2	1	91	0	PolySyPd	2	1	1	Starz	2		3	3	Bird 2	1		
	8	8	BrthTnSx	2	1	1	PolyPd80	2	127	127	xylophon	1	127	127	telephone	1			
	127	127	c.bass 1	1	127	127	trmbone1	2	Ethnic	105	0	Sitar	1	125	0	Telephone	1		
	68	0	Bari.Sax	1	92	0	ChoirPad	2		1	1	Sitar 2	2	1	1	Tel.Dial	1		
	127	127	c.bass 2	1	1	1	Heaven2	2		2	2	DetSitar	2	2	2	DoorSqek	1		
	69	0	Oboe	2	127	127	trmbone2	2		8	8	Tambura	2	3	3	DoorSlam	1		
	127	127	slaphas1	1	93	0	BowedPad	1		16	16	Tamboura	2	4	4	Scratch	1		
70	0	Eng.Horn	1	127	127	fr.horn1	1	127		127	narimba	2	5	5	WindChm	1			
127	127	slaphas2	1	94	0	MetalPad	2	0		0	Banjo	1	6	6	Scratch2	2			
71	0	Bassoon	1	1	1	Tine Pad	2	1		1	MuteBnjo	1	127	127	bird	1			
127	127	fretles1	1	2	2	Pan Pad	2	8		8	Rabah	2	126	0	Helicptr	1			
72	0	Clarinet	1	127	127	fr.horn2	2	16		16	Gopichnt	2		1	1	CarEngin	1		
127	127	fretles2	1	95	0	Halo Pad	2	24		24	Oud	2		2	2	Car Stop	1		
73	0	Piccolo	1	127	127	tuba	2	127		127	koto	1		3	3	Car Pass	1		
Pipe	74	0	Flute	1	96	0	SweepPad	2	107	0	Shamisen	1	4	4	CarCrash	1			
	127	127	flute1	1		1	1	PolarPad	2	127	127	sho	2	5	5	Siren	2		
	75	0	Recorder	1		8	8	Converge	2	108	0	Koto	1	6	6	Train	1		
	127	127	piccolo1	1		9	9	Shwimmer	2	8	8	T. Koto	2	7	7	Jetplane	2		
	76	0	PanFlute	1		10	10	Celstial	2	16	16	Kanoon	2	8	8	Starship	1		
	127	127	piccolo2	2		127	127	brssect1	1	127	127	shakhchi	2	9	9	Burst	2		
	77	0	Bottle	2		109	0	Kalimba	1	0	0	Kalimba	1	16	16	Coaster	2		
	127	127	recorder	1			127	127	whistle1	2	127	127	whistle1	2	127	127	jam	1	
	78	0	Shakhchi	2			110	0	Bagpipe	2	127	127	whistle2	1	127	127	Applause	1	
	127	127	panpipes	2			1	1	Fiddle	1	111	0	Fiddle	1	2	2	Scream	1	
	79	0	Whistle	1			127	127	bottle	2	127	127	bottle	2	3	3	Punch	1	
	127	127	sax1	2			112	0	Shanai	1	1	1	Shanai	1	4	4	Heart	1	
80	0	Ocarina	1	1	1		Shanai2	1	1	1	Shanai2	1	5	5	FootStep	1			
127	127	sax2	1	8	8		Pungi	1	16	16	HiChriki	2	127	127	efctwtr	2			
				127	127		breath	2	127	127	breath	2	128	0	Gunshot	1			
													1	1	MchinGun	1			

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 DSR1.

Bank	Program #	Note	Key	Alternate	127	127	127	127	127	127	127	127	127	126	126
			off	assign	Standard Kit	Standard2 Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit	Jazz Kit	Brush Kit	Classic Kit	SFX Kit 1	SFX Kit 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			Ssq Click L										
24	C	0			Ssq Click H										
25	C#	0			Brush Tap										
26	D	0	0		Brush Swirl L										
27	D#	0			Brush Slap										
28	E	0	0		Brush Swirl H				Reverse Cymbal	Reverse Cymbal					
29	F	0	0		Snare Roll	Snare Roll 2									
30	F#	0			Casinet				Hi Q	Hi Q					
31	G	0			Snare L	Snare L 2		SD Rock M	Snare M	SD Rock 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 Rowen L	SD Rock	SD Rock L	Analog Snare L		Brush Slap M	Marching Sn M	String Slap	Door Slam
39	D#	1			Hand Clap										Scratch
40	E	1			Snare H	Snare H 2	SD Rowen 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	Hand Cym Closed L	
51	D#	2			Ride Cymbal 1										
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										Burst Noise
61	C#	3			Bongo L										Cruiser
62	D	3			Conga H Mute					Analog Conga H					SB Marine
63	D#	3			Conga H Open					Analog Conga M					
64	E	3			Conga L					Analog Conga L					
65	F	3			Timbale H										
66	F#	3			Timbale L										
67	G	3			Agogo H										
68	G#	3			Agogo L										
69	A	3			Cabasa										
70	A#	3			Maracas					Analog Maracas					
71	B	3	0		Samba Whistle H										
72	C	4	0		Samba Whistle L										
73	C#	4			Güiro Short										
74	D	4	0		Güiro Long										
75	D#	4			Claves					Analog Claves					
76	E	4			Wood Block H										
77	F	4			Wood Block L										
78	F#	4			Cuica Mute				Scratch Push	Scratch Push					
79	G	4			Cuica Open				Scratch Pull	Scratch Pull					
80	G#	4	2		Triangle Mute										
81	A	4	2		Triangle Open										
82	A#	4			Shaker										
83	B	4			Jingle Bell										
84	C	5			Bell Tree										
85	C#	5													
86	D	5													
87	D#	5													
88	E	5													
89	F	5													
90	F#	5													
91	G	5													
92	G#	5													
93	A	5													
94	A#	5													
95	B	5													
96	C	6													
97	C#	6													
98	D	6													
99	D#	6													
100	E	6													
101	F	6													
102	F#	6													
103	G	6													
104	G#	6													
105	A	6													
106	A#	6													
107	B	6													
108	C	7													

 : Same as Standard Kit
 : No Sound

TG300B Drum Voice List

Program #	Note	Alternate assign	1	9	17	25	26	33	41	49	57	128
Notch			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	Scratch Push							Hi-Hat Open		
30	F#	0	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					
39	D#	1	Hand Clap						Brush Tap	Concert SD		
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	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	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	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 C#	Guitar Cutting Up	
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	Ac Bass Slap	
51	D#	2	Ride Cymbal 1							Timpani D#	FL Key Click	
52	E	2	Chinese Cymbal			Reverse Cymbal				Timpani E	Laughing	
53	F	2	Ride Cymbal Cup							Timpani F	Screaming	
54	F#	2	Tambourine								Punch	
55	G	2	Splash Cymbal								Heartbeat	
56	G#	2	Cowbell				Analog Cowbell				Footsteps 1	
57	A	2	Crash Cymbal 2							Hand Cym.1	Footsteps 2	
58	A#	2	Vibraslap								Applause	
59	B	2	Ride Cymbal 2							Hand Cym.2	Door Creaking	
60	C	3	Bongo H								Door Slam	
61	C#	3	Bongo L								Scratch	
62	D	3	Conga H Mute				Analog Conga H				Windchime	
63	D#	3	Conga H Open				Analog Conga M				Engine Start	
64	E	3	Conga L				Analog Conga L				Tire Screech	
65	F	3	Timbale H								Car Passing	
66	F#	3	Timbale L								Crash	
67	G	3	Agogo H								Siren	
68	G#	3	Agogo L								Train	
69	A	3	Cabasa								Jetplane	
70	A#	3	Maracas				Analog Maracas				Helicopter	
71	B	3	Samba Whistle H								Starship	
72	C	4	Samba Whistle L								Gunshot	
73	C#	4	Güiro Short								Machine Gun	Vibraslap
74	D	4	Güiro Long								Laser Gun	
75	D#	4	Claves				Analog Claves				Explosion	
76	E	4	Wood Block H								Dog	Laughing
77	F	4	Wood Block L								Horse Gallop	Screaming
78	F#	4	Caïca Mute								Bird Tweet	Punch
79	G	4	Caïca Open								Rain	Heartbeat
80	G#	4	Triangle Mute								Thunder	Footsteps 1
81	A	4	Triangle Open								Wind	Footsteps 2
82	A#	4	Shaker								Seashore	Applause
83	B	4	Jingle Bell								Stream	Door Creaking
84	C	5	Bell Tree								Bubble	Door Slam
85	C#	5	Castanet									Scratch
86	D	5	Surdo Mute									Windchime
87	D#	5	Surdo Open									Engine Start
88	E	5								Applause		Tire Screech
89	F	5										Car Passing
90	F#	5										Crash
91	G	5										Siren
92	G#	5										Train
93	A	5										Jetplain
94	A#	5										Helicopter
95	B	5										Starship
96	C	6										Gunshot
97	C#	6										Machine Gun
98	D	6										Laser Gun
99	D#	6										Explosion
100	E	6										Dog
101	F	6										Horse Gallop
102	F#	6										Bird Tweet
103	G	6										Thunder
104	G#	6										Wind
105	A	6										Seashore
106	A#	6										Stream
107	B	6										Bubble
108	C	7										

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	KARAOKE 1	A delay with feedback of the same types as used for karaoke reverb.
14	01	KARAOKE 2	A delay with feedback of the same types as used for karaoke reverb.
14	02	KARAOKE 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	table#5	
3	Initial Delay	0 ~ 63	0-63		
4	HPF Cutoff	Thru ~ 8.0kHz	0-52		
5	LPF Cutoff	1.0k ~ Thru	34-60		
6					
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
11	Rev Delay	0 ~ 63	0-63		
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	table#5	
3	Initial Delay	0 ~ 63	0-63		
4	HPF Cutoff	Thru ~ 8.0kHz	0-52		
5	LPF Cutoff	1.0k ~ Thru	34-60		
6	Width	0.5 ~ 10.2m	0-37		
7	Height	0.5 ~ 20.2m	0-73		
8	Depth	0.5 ~ 30.2m	0-104		
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		
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	table#3	•
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		
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58		
16	EQ High Gain	-12 ~ +12dB	52-76		
DELAY L, R					
1	Lch Delay	0.1 ~ 715.0ms	1-7150	table#3	•
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		
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58		
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	1-3350	table#3	•
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		
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58		
16	EQ High Gain	-12 ~ +12dB	52-76		
CROSS DELAY					
1	L->R Delay	0.1 ~ 355.0ms	1-3550	table#3	•
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		
14	EQ Low Gain	-12 ~ +12dB	52-76		
15	EQ High Frequency	500Hz ~ 16.0kHz	28-58		
16	EQ High Gain	-12 ~ +12dB	52-76		
EARLY REF1, EARLY REF2					
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5	table#6	•
2	Room Size	0.1 ~ 7.0	0-44		
3	Diffusion	0 ~ 10	0-10		
4	Initial Delay	0 ~ 63	0-63		
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	table#6	•
2	Room Size	0.1 ~ 7.0	0-44		
3	Diffusion	0 ~ 10	0-10		
4	Initial Delay	0 ~ 63	0-63		
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					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127		
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					
15	Input Mode	mono/stereo	0-1		
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					
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					
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					

• : 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
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					
11	EQ Mid Frequency	100Hz ~ 10.0kHz	14-54	table#3	
12	EQ Mid Gain	-12 ~ +12dB	52-76		
13	EQ Mid Width	1.0 ~ 12.0	10-120		
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"

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	10.80
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				

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