

ELECTRONIC PIANO

PF-500

Reference Booklet

Referenzheft

Livret de référence

Folleto de referencia

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Normal (Default) Setting List / Liste der Grundeinstellungen (Default) / Liste des réglages normaux (par défaut) / Lista de ajustes normales (predeterminados)

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■ Song setting

Function	Value	Reference page in the Owner's Manual
Correcting note timing (Quantize) Swing rate (SwingRate)	Off	65
	50%	
Specifying whether playback starts immediately along with the first voicing (QuickPlay)	On	66
Auditioning the channels (ChannelListen)	–	66
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■ Metronome setting

Function	Value	Reference page in the Owner's Manual
Setting the metronome time signature (TimeSignature)	4/4	68
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■ **Voice setting**

Function	Value	Reference page in the Owner's Manual
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■ MIDI setting

Function	Value	Reference page in the Owner's Manual
MIDI transmit channel (MidiOutChannel)	Main:Ch1, Left:Ch2, Layer:Ch3, LeftLayer:Ch4	78
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Selecting performance from the keyboard or song data for MIDI transmission (MidiOutSelect)	Keyboard	79
Type of data received via MIDI (ReceiveParameter)	All data: On	79
Type of data transmitted via MIDI (TransmitParameter)	All data: On	79
Transmitting the initial settings (InitialSetup)	–	80
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■ Other settings

Function	Value	Reference page in the Owner's Manual
Selecting a touch response (TouchResponse) Fixed volume	Medium 64	81
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Assign the SONG [START/STOP] function to the pedal (PedalStart/Srop)	All pedals : Off	84
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Restoring the normal (default) settings (FactorySet)	MemorySongExcluded	85

Bank Select MSB=64

Main instrument bank selection table with columns for Instrument Group, Pgm#, Bank 0, and various bank numbers (Bank 72-101).

Legend for bank selection: Same as Bank 0, No sound, Element number

SFX bank selection table with columns for Pch#, Bank 0, and Element number, listing various sound effects like Shower, Thunder, etc.

XG Drum Kit List / Liste der Drum Kits (Schlagzeug-Sets) / Liste des kits de percussion XG / Lista del kit de batería XG

- Key Off: Keys marked "O" stop sounding the instant they are released.
- Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number

Same as Standard Kit 1
 No Sound

Bank Select MSB (0-127)			127	127	127	127	127	127	127
Bank Select LSB (0-127)			0	0	0	0	0	0	0
Program Change (0-127)			0	1	8	16	24	25	27
MIDI	Key	Alternate	Standard Kit1	Standard Kit2	Room Kit	Rock Kit	Electro Kit	Analog Kit	Dance Kit
Note#	Note	Off	Group						
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 H					
18	F#-1		4	Scratch L					
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	C0			Seq Click H					
25	C#0			Brush Tap					
26	D0	O		Brush Swirl					
27	D#0			Brush Slap					
28	E0	O		Brush Tap Swirl			Reverse Cymbal	Reverse Cymbal	Reverse Cymbal
29	F0	O		Snare Roll					
30	F#0			Castanet			Hi Q 2	Hi Q 2	Hi Q 2
31	G0			Snare Soft	Snare Soft 2	Snare Noisy	Snare Snappy Electro	Snare Noisy 4	Snare Techno
32	G#0			Sticks					
33	A0			Kick Soft			Kick 3	Kick 3	Kick Techno Q
34	A#0			Open Rim Shot	Open Rim Shot H Short				Rim Gate
35	B0			Kick Tight		Kick 2	Kick Gate	Kick Analog Short	Kick Techno L
36	C1			Kick	Kick Short	Kick Gate	Kick Gate Heavy	Kick Analog	Kick Techno
37	C#1			Side Stick	Side Stick Light			Side Stick Analog	Side Stick Analog
38	D1			Snare	Snare Short	Snare Snappy	Snare Rock	Snare Analog	Snare Clap
39	D#1			Hand Clap					
40	E1			Snare Tight	Snare Tight H	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 3	Snare Analog 2
41	F1			Floor Tom L		Tom Room 1	Tom Rock 1	Tom Electro 1	Tom Analog 1
42	F#1		1	Hi-Hat Closed				Hi-Hat Closed Analog	Hi-Hat Closed 3
43	G1			Floor Tom H		Tom Room 2	Tom Rock 2	Tom Electro 2	Tom Analog 2
44	G#1		1	Hi-Hat Pedal				Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3
45	A1			Low Tom		Tom Room 3	Tom Rock 3	Tom Electro 3	Tom Analog 3
46	A#1		1	Hi-Hat Open				Hi-Hat Open Analog	Hi-Hat Open 3
47	B1			Mid Tom L		Tom Room 4	Tom Rock 4	Tom Electro 4	Tom Analog 4
48	C2			Mid Tom H		Tom Room 5	Tom Rock 5	Tom Electro 5	Tom Analog 5
49	C#2			Crash Cymbal 1				Crash Analog	Crash Analog
50	D2			High Tom		Tom Room 6	Tom Rock 6	Tom Electro 6	Tom Analog 6
51	D#2			Ride Cymbal 1					
52	E2			Chinese Cymbal					
53	F2			Ride Cymbal Cup					
54	F#2			Tambourine					
55	G2			Splash Cymbal					
56	G#2			Cowbell				Cowbell Analog	Cowbell Analog
57	A2			Crash Cymbal 2					
58	A#2			Vibraslap					
59	B2			Ride Cymbal 2					
60	C3			Bongo H					
61	C#3			Bongo L					
62	D3			Conga H Mute				Conga Analog H	Conga Analog H
63	D#3			Conga H Open				Conga Analog M	Conga Analog M
64	E3			Conga L				Conga Analog L	Conga Analog L
65	F3			Timbale H					
66	F#3			Timbale L					
67	G3			Agogo H					
68	G#3			Agogo L					
69	A3			Cabasa					
70	A#3			Maracas				Maracas 2	Maracas 2
71	B3	O		Samba Whistle H					
72	C4	O		Samba Whistle L					
73	C#4			Guiro Short					
74	D4	O		Guiro Long					
75	D#4			Claves				Claves 2	Claves 2
76	E4			Wood Block H					
77	F4			Wood Block L					
78	F#4			Cuica Mute			Scratch H 2	Scratch H 2	Scratch H 2
79	G4			Cuica Open			Scratch L 2	Scratch L 2	Scratch L 2
80	G#4		2	Triangle Mute					
81	A4		2	Triangle Open					
82	A#4			Shaker					
83	B4			Jingle Bells					
84	C5			Bell Tree					
85	C#5								
86	D5								
87	D#5								
88	E5								
89	F5								
90	F#5								
91	G5								

**XG Drum Kit List / Liste der Drum Kits (Schlagzeug-Sets) / Liste des kits de percussion XG /
Lista del kit de batería XG**

Bank Select MSB (0-127)			127	127	127	126	126
Bank Select LSB (0-127)			0	0	0	0	0
Program Change (0-127)			32	40	48	0	1
MIDI	Key Off	Alternate Group	Jazz Kit	Brush Kit	Symphony Kit	SFX Kit1	SFX Kit2
Note#	Note						
13	C#-1	3					
14	D-1	3					
15	D#-1						
16	E-1						
17	F-1	4					
18	F#-1	4					
19	G-1						
20	G#-1						
21	A-1						
22	A#-1						
23	B-1						
24	C0						
25	C#0						
26	D0	O					
27	D#0						
28	E0	O					
29	F0	O					
30	F#0						
31	G0		Snare Jazz H	Brush Slap 2			
32	G#0						
33	A0				Kick Soft 2		
34	A#0			Open Rim Shot Light			
35	B0				Gran Cassa		
36	C1		Kick Jazz	Kick Jazz	Gran Cassa Mute	Cutting Noise	Phone Call
37	C#1		Side Stick Light	Side Stick Light		Cutting Noise 2	Door Squeak
38	D1		Snare Jazz L	Brush Slap 3	Band Snare		Door Slam
39	D#1					String Slap	Scratch Cut
40	E1		Snare Jazz M	Brush Tap 2	Band Snare 2		Scratch H 3
41	F1			Tom Brush 1			Wind Chime
42	F#1	1					Telephone Ring 2
43	G1			Tom Brush 2			
44	G#1	1					
45	A1			Tom Brush 3			
46	A#1	1					
47	B1			Tom Brush 4			
48	C2			Tom Brush 5			
49	C#2				Hand Cymbal		
50	D2			Tom Brush 6			
51	D#2				Hand Cymbal Short		
52	E2					Flute Key Click	Car Engine Ignition
53	F2						Car Tires Squeal
54	F#2						Car Passing
55	G2						Car Crash
56	G#2						Siren
57	A2				Hand Cymbal 2		Train
58	A#2						Jet Plane
59	B2				Hand Cymbal 2 Short		Starship
60	C3						Burst
61	C#3						Roller Coaster
62	D3						Submarine
63	D#3						
64	E3						
65	F3						
66	F#3						
67	G3						
68	G#3					Shower	Laugh
69	A3					Thunder	Scream
70	A#3					Wind	Punch
71	B3	O				Stream	Heart Beat
72	C4	O				Bubble	Foot Steps
73	C#4					Feed	
74	D4	O					
75	D#4						
76	E4						
77	F4						
78	F#4						
79	G4						
80	G#4	2					
81	A4	2					
82	A#4						
83	B4						
84	C5					Dog	Machine Gun
85	C#5					Horse	Laser Gun
86	D5					Bird Tweet 2	Explosion
87	D#5						Firework
88	E5						
89	F5						
90	F#5					Ghost	
91	G5					Maou	

XG Effect Type List / Liste der XG-Effekttypen / Liste des types d'effets XG / Lista de tipos de efectos XG

■ Reverb

Reverb types that can be selected by function

Type MSB	Type LSB	Effect Name
1	19	Hall1
1	17	Hall2
2	17	Room
3	17	Stage
4	16	Plate

Other reverb types

Type MSB	Type LSB	Effect Name
0	0	No Effect
1	0	Hall 1
1	1	Hall 2
1	6	Hall M
1	7	Hall L
2	0	Room 1
2	1	Room 2
2	2	Room 3
2	5	Room S
2	6	Room M
2	7	Room L
3	0	Stage 1
3	1	Stage 2
3	18	(Sound Bord)
4	0	Plate
4	7	GM Plate
16	0	White Room
17	0	Tunnel
18	0	Canyon
19	0	Basement

■ Chorus

Chorus types that can be selected by function

Type MSB	Type LSB	Effect Name
65	8	Chorus
66	8	Celeste
67	1	Flanger

Other chorus types

Type MSB	Type LSB	Effect Name
0	0	No Effect
65	0	Chorus 1
65	1	Chorus 2
65	2	Chorus 3
65	3	GM Chorus 1
65	4	GM Chorus 2
65	5	GM Chorus 3
65	6	GM Chorus 4
65	7	FB Chorus
65	8	Chorus 4
66	0	Celeste 1
66	1	Celeste 2
66	2	Celeste 3
66	8	Celeste 4
66	18	(Rotary 5)
67	0	Flanger 1
67	1	Flanger 2
67	7	GM Flanger
67	8	Flanger 3
68	0	Symphonic
87	0	ENS Detune

■ Variation/Insertion

Variation/insertion effects that can be selected by function

Type MSB	Type LSB	Effect Name
5	16	Delay LCR
6	0	Delay LR
7	0	Echo
8	0	Cross Delay
68	16	Symphonic
66	18	RotarySpeaker
70	18	Tremolo
119	0	VibeRotor
71	26	AutoPan
72	19	Phaser
78	21	Auto Wah
3	18	Sound Board

Other variation/insertion effects

Type MSB	Type LSB	Effect Name
0	0	No Effect
1	0	Hall 1
1	1	Hall 2
1	6	Hall M
1	7	Hall L
1	17	(Hall)
1	19	(Hall)
2	0	Room 1
2	1	Room 2
2	2	Room 3
2	5	Room S
2	6	Room M
2	7	Room L
2	17	(Room)
3	0	Stage 1
3	1	Stage 2
3	17	(Stage)
3	19	(Stage)
4	0	Plate
4	7	GM Plate
4	16	(Plate)
5	0	Delay L,C,R
5	16	(Delay LCR)
6	0	Delay L,R
7	0	Echo
8	0	Cross Delay
9	0	ER1*
9	1	ER2*
10	0	Gate Reverb*
11	0	Reverse Gate*
16	0	White Room*
17	0	Tunnel*
18	0	Canyon*
19	0	Basement*
20	0	Karaoke 1*
20	1	Karaoke 2*
20	2	Karaoke 3*
21	0	Tempo Delay*
21	8	Tempo Echo*
22	0	Tempo Cross*
64	0	THRU
65	0	Chorus1
65	1	Chorus2
65	2	Chorus3
65	3	GM Chorus 1
65	4	GM Chorus 2
65	5	GM Chorus 3
65	6	GM Chorus 4
65	7	FB Chorus
65	8	Chorus 4
66	0	Celeste 1
66	1	Celeste 2
66	2	Celeste 3
66	8	Celeste 4
66	18	(RotarySP 5)
67	0	Flanger 1
67	1	Flanger 2
67	7	GM Flanger
67	8	Flanger 3
68	0	Symphonic
68	16	(Symphonic)

Type MSB	Type LSB	Effect Name
69	0	Rotary SP
69	1	DIST+ROT SP*
69	2	OD+ROT SP*
69	3	AMP SIM+ROT SP*
70	0	Tremoro
70	22	(Vib Rotor)
71	0	Auto Pan
71	19	(Tremoro)
71	26	(Auto Pan)
72	0	Phaser1
72	8	Phaser 2*
72	19	(Phaser)
73	0	Distortion*
73	1	COMP+DIST*
73	8	STEREO DIST*
74	0	Over Drive*
74	8	STEREO OD*
75	0	AMP SIM.*
75	8	STEREO A SIM*
76	0	3BAND EQ*
77	0	2BAND EQ*
78	0	AUTO WAH
78	1	AUTO WAH+DIST*
78	2	AUTO WAH+OD*
78	21	(AUTO WAH)
80	0	PITCH CHANGE*
80	1	PITCH CHANGE2*
81	0	HRM ENH*
82	0	TOUCH WAH1
82	1	TOUCH WAH+DIST*
82	2	TOUCH WAH+OD*
82	8	TOUCH WAH 2
83	0	COMPRESSOR*
84	0	NOISE GATE*
85	0	VOICE CANCEL*
86	0	2WAY ROT SP*
86	1	DIST+2ROTSP*
86	2	OD + 2ROT SP*
86	3	A SIM + 2ROT SP*
87	0	ENS DETUNE*
88	0	AMBIENCE*
93	0	TALK MOD*
94	0	LO-FI*
95	0	DIST+DELAY*
95	1	OD+DELAY*
96	0	CMP+DIST+DLY*
96	1	CMP+OD+DLY*
97	0	WAH+DIST+DLY*
97	1	WAH+OD+DLY*
98	0	V DIST HARD*
98	1	V DIST H+DLY*
98	2	V DIST SOFT*
98	3	V DIST S+DLY*
99	0	DUAL ROTSP1*
99	1	DUAL ROTSP2*
100	0	DIST+T DELAY*
100	1	OD+T DELAY*
11	0	CMP+DIST+TDLY*
11	1	CMP+OD+T DLY*
12	0	WAH+DIST+TDLY*
12	1	WAH+OD+T DLY*
13	0	V DIST H+TDLY*
13	1	V DIST S+T DLY*
119	0	VIBE VIBRATE**

* Variation only

** Insertion only

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos

- Parameters marked with a ● in the "Control" column can be controlled from an AC1 (assignable controller 1) etc. However, this is valid only for a Variation effect (when selected for Insertion).

**HALL1, HALL2
ROOM1, ROOM2, ROOM3
STAGE1, STAGE2
PLATE (reverb, variation, insertion block)**

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3-30.0s	0-69	table#4	
2	Diffusion	0-10	0-10		
3	Initial Delay	0.1mS-99.3mS	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	0.1mS-99.3mS	0-63	table#5	
12	Density	0-4 (reverb, variation block) 0-2 (insertion block)	0-4 0-2		
13	Er/Rev Balance	E63>R - E=R - E<R63	1-127		
14	High Damp	0.1-1.0	1-10		
15	Feedback Level	-63+63	1-127		
16					

DELAY L, C, R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-1486.0ms	1-14860		
2	Rch Delay	0.1-1486.0ms	1-14860		
3	Cch Delay	0.1-1486.0ms	1-14860		
4	Feedback Delay	0.1-1486.0ms	1-14860		
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	32Hz-2.0kHz	4-40	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 (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-1486.0ms	1-14860		
2	Rch Delay	0.1-1486.0ms	1-14860		
3	Feedback Delay 1	0.1-1486.0ms	1-14860		
4	Feedback Delay 2	0.1-1486.0ms	1-14860		
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	32Hz-2.0kHz	4-40	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		

ECHO (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1-743.0ms	1-7430		
2	Lch Feedback Level	-63+63	1-127		
3	Rch Delay1	0.1-743.0ms	1-7430		
4	Rch Feedback Level	-63+63	1-127		
5	High Damp	0.1-1.0	1-10		
6	Lch Delay2	0.1-743.0ms	1-7430		
7	Rch Delay2	0.1-743.0ms	1-7430		
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	32Hz-2.0kHz	4-40	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 (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	0.1-743.0ms	1-7430		
2	R->L Delay	0.1-743.0ms	1-7430		
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	32Hz-2.0kHz	4-40	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 (variation block)

No.	Parameter	Display	Value	See Table	Control
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	0.1mS-200.0mS	0-127	table#5	
5	Feedback Level	-63+63	1-127		
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0k-Thru	34-60	table#3	
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 (variation block)**

No.	Parameter	Display	Value	See Table	Control
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	0.1mS-200.0mS	0-127	table#5	
5	Feedback Level	-63+63	1-127		
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0k-Thru	34-60	table#3	
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					

**WHITE ROOM
TUNNEL
CANYON
BASEMENT (reverb, variation block)**

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3-30.0s	0-69	table#4	
2	Diffusion	0-10	0-10		
3	Initial Delay	0.1mS-99.3mS	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	0.1mS-99.3mS	0-63	table#5	
12	Density	0-4	0-4		
13	Er/Rev Balance	E63>R - E=R - E<R63	1-127		
14	High Damp	0.1-1.0	1-10		
15	Feedback Level	-63+63	1-127		
16					

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KARAOKE1, 2, 3 (insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1mS-400.0mS	0-127	table#7	
2	Feedback Level	-63+63	1-127		
3	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
4	LPF Cutoff	1.0k-Thru	34-60	table#3	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13					
14					
15					
16					

TEMPO DELAY

TEMPO ECHO (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3-4thx6	0-19	table#14	
2	Feedback Level	-63+63	1-127		
3	Feedback High Dump	0-1.0	0-10		
4	L/R Diffusion	1(-63ms)-64(0ms)-127(63ms)	1-127		
5	Lag	1(-63ms)-64(0ms)-127(63ms)	1-127		
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40		
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		

TEMPO CROSS (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time L>R	64th/3-4thx6	0-19	table#14	
2	Delay Time R>L	64th/3-4thx6	0-19	table#14	
3	Feedback Level	-63+63	1-127		
4	Input Select	L, R, L&R	0-2		
5	Feedback High Dump	0-1.0	0-10		
6	Lag	1(-63ms)-64(0ms)-127(63ms)	1-127		
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40		
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		

CHORUS1, 2, 3, 4

CELESTE1, 2, 3, 4 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Feedback Level	-63+63	1-127		
4	Delay Offset	0.0mS-50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15	Input Mode	mono/stereo	0-1		
16					

FLANGER1, 2, 3 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Feedback Level	-63+63	1-127		
4	Delay Offset	0.0mS-50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14	LFO Phase Difference	-180+180deg(resolution=3deg.)	4-124		
15					
16					

SYMPHONIC (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Delay Offset	0.0mS-50mS	0-127	table#2	
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15					
16					

ROTARY SPEAKER (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	LFO Depth	0-127	0-127		
3					
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15					
16					

DISTORTION+ROTARY SPEAKER

OVERDRIVE+ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0-39.7Hz	0-127		●
2	LFO Depth	0-127	0-127		
3					
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40		
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58		
9	EQ High Gain	-12+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		
11					
12					
13					
14	Drive	0-127	0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level	0-127	0-127		

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AMP SIM.+ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0-39.7Hz	0-127		●
2	LFO Depth	0-127	0-127		
3	AMP Type	Off, Stack, Combo, Tube	0-3		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40		
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58		
9	EQ High Gain	-12+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		
11					
12					
13					
14	Drive	0-127	0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level	0-127	0-127		

TREMOLO (variation insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-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	32Hz-2.0kHz	4-40	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	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14	LFO Phase Difference	-180+180deg(resolution=3deg.)	4-124		
15	Input Mode	mono/stereo	0-1		
16					

AUTO PAN (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-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	32Hz-2.0kHz	4-40	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	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15					
16					

PHASER 1 (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Phase Shift Offset	0-127	0-127		
4	Feedback Level	-63+63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	4-22 (chorus, variation block)	4-22		
12	Diffusion	4-12 (insertion block)	4-12		
13		mono/stereo	0-1		
14					
15					
16					

PHASER 2 (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Phase Shift Offset	0-127	0-127		
4	Feedback Level	-63+63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	3-11	3-6		
12					
13	LFO Phase Difference	-180deg+180deg(resolution=3deg.)	4-124		
14					
15					
16					

DISTORTION

OVERDRIVE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32Hz-2.0kHz	4-40	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	100Hz-10.0kHz	14-54	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					

COMP+DIST (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32Hz-2.0kHz	4-40	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	100Hz-10.0kHz	14-54	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	Attack	1ms-40ms	0-19	table#8	
13	Release	10ms-680ms	0-15	table#9	
14	Threshold	-48dB- -6dB	79-121		
15	Ratio	1.0-20.0	0-7	table#10	
16					

STEREO DISTORTION

STEREO OVER DRIVE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
3	EQ Low Gain	-12+12dB	52-76		
4	LPF Cutoff	1kHz-Thru	34-60		
5	Output Level	0-127	0-127		
6					
7	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
8	EQ Mid Gain	-12+12dB	52-76		
9	EQ Mid Width	1-12	10-120		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Edge(Clip Curve)	0-127	0-127		
12					
13					
14					
15					
16					

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AMP SIMULATOR (variation block)

No.	Parameter	Display	Value	See Table	Control
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					

STEREO AMP SIMULATOR (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	AMP Type	Off, Stack, Combo, Tube	0-3		
3	LPF Cutoff	1kHz-Thru	34-60		
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		
12					
13					
14					
15					
16					

3BAND EQ(MONO) (variation block)

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12+12dB	52-76		
2	EQ Mid Frequency	100Hz-10.0kHz	14-54	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	Input Mode	mono/stereo	0-1		
16					

2BAND EQ(STEREO) (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Frequency	32Hz-2.0kHz	4-40	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					
12					
13					
14					
15					
16					

AUTO WAH (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Cutoff Frequency Offset	0-127	0-127		●
4	Resonance	1.0-12.0	10-120		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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		

No.	Parameter	Display	Value	See Table	Control
11	Drive (variation block)	0-127	0-127		
12					
13					
14					
15					
16					

**AUTO WAH+DIST
AUTO WHA+ODRV (variation block)**

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Cutoff Frequency Offset	0-127	0-127		●
4	Resonance	1.0-12.0	10-120		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	Drive	0-127	0-127		
12	EQ Low Gain(distortion)	-12+12dB	52-76		
13	EQ Mid Gain(distortion)	-12+12dB	52-76		
14	LPF Cutoff	1.0kHz-thru	34-60	table#3	
15	Output Level	0-127	0-127		
16					

PITCH CHANGE 1 (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24+24	40-88		
2	Initial Delay	0.1mS-400.0mS	0-127	table#7	
3	Fine 1	-50+50	14-114		
4	Fine 2	-50+50	14-114		
5	Feedback Level	-63+63	1-127		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Pan 1	L63-R63	1-127		
12	Output Level 1	0-127	0-127		
13	Pan 2	L63-R63	1-127		
14	Output Level 2	0-127	0-127		
15					
16					

PITCH CHANGE 2 (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24+24	40-88		
2	Initial Delay	0.1mS-400.0mS	0-127	table#7	
3	Fine 1	-50+50cent	14-114		
4	Fine 2	-50+50cent	14-114		
5	Feedback Level	-63+63	1-127		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Pan 1	L63-R63	1-127		
12	Output Level 1	0-127	0-127		
13	Pan 2	L63-R63	1-127		
14	Output Level 2	0-127	0-127		
15					
16					

HARMONIC ENHANCER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	HPF Cutoff	500Hz-16.0kHz	28-58		
2	Drive	0-127	0-127		
3	Mix Level	0-127	0-127		
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

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TOUCH WAH 1

TOUCH WAH+DIST (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	0-127	0-127		
2	Cutoff Frequency Offset	0-127	0-127		●
3	Resonance	1.0-12.0	10-120		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	Drive (variation block)	0-127	0-127		
12					
13					
14					
15					
16					

TOUCH WAH 2

TOUCH WAH+ODRV (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	0-127	0-127		
2	Cutoff Frequency Offset	0-127	0-127		●
3	Resonance	1.0-12.0	10-120		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	Drive (variation block)	0-127	0-127		
12	EQ Low Gain (variation block) (distortion)	-12+12dB	52-76		
13	EQ Mid Gain (variation block) (distortion)	-12+12dB	52-76		
14	LPF Cutoff (variation block)	1.0kHz-thru	34-60	table#3	
15	Output Level (variation block)	0-127	0-127		
16	Release (variation block)	10-680mS	52-67	table#12	

COMPRESSOR (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Attack	1-40ms	0-19	table#8	
2	Release	10-680ms	0-15	table#9	
3	Threshold	-48- -6dB	79-121		
4	Ratio	1.0-20.0	0-7	table#10	
5	Output Level	0-127	0-127		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOISE GATE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Attack	1-40ms	0-19	table#8	
2	Release	10-680ms	0-15	table#9	
3	Threshold	-72- -30dB	55-97		
4	Output Level	0-127	0-127		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

VOICE CANCEL (variation block)

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11	Low Adjust	0-26	0-26		
12	High Adjust	0-26	0-26		
13					
14					
15					
16					

2WAY ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0Hz-39.7Hz	0-127	table#1	●
2	Drive Low	0-127	0-127		
3	Drive High	0-127	0-127		
4	Low/High	L63>H - L=L - L<H63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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	Crossover Frequency	100Hz-10.0kHz	14-54	table#3	
12	Mic L-R Angle	0deg-180deg(resolution=3deg.)	0-60		
13					
14					
15					
16					

DIST+2WAY ROTARY SPEAKER

OD+2WAY ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0-39.7Hz	0-127		●
2	Drive Low	0-127	0-127		
3	Drive High	0-127	0-127		
4	Low/High Balance	L63>H-L=L<H=63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40		
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58		
9	EQ High Gain	-12+12dB	52-76		
10					
11	Crossover Frequency	100Hz-10.0kHz	14-54		
12	Mic L-R Angle	0-180deg	0-60		
13					
14	Drive		0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level		0-127		

AMP SIM.+2WAY ROTARY SP (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0-39.7Hz	0-127		●
2	Drive Low	0-127	0-127		
3	Drive High	0-127	0-127		
4	Low/High Balance	L63>H-L=L<H=63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40		
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58		
9	EQ High Gain	-12+12dB	52-76		
10					
11	Crossover Frequency	100Hz-10.0kHz	14-54		
12	Mic L-R Angle	0-180deg	0-60		
13	AMP Type	Off, Stack, Combo, Tube(AMPSIM only)	0-3		
14	Drive		0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level		0-127		

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ENSEMBLE DETUNE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Detune	-50-+50cent	14-114		
2	Lch Init Delay	0.0mS-50mS	0-127	table#2	
3	Rch Init Delay	0.0mS-50mS	0-127	table#2	
4					
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	EQ Low Frequency	32Hz-2.0kHz (variation, insertion block)	4-40	table#3	
12	EQ Low Gain	-12-+12dB (variation, insertion block)	52-76		
13	EQ High Frequency	500Hz-16.0kHz (variation, insertion block)	28-58	table#3	
14	EQ High Gain	-12-+12dB (variation, insertion block)	52-76		
15					
16					

AMBIENCE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.0mS-50mS	0-127	table#2	
2	Output Phase	normal/invers	0-1		
3					
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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					

TALKING MODULATION (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Vowel	a, i, u, e, o	0-4		●
2	Move speed	1-62	1-62		
3	Drive	0-127	0-127		
4	Output Level	0-127	0-127		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

LO-FI (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Sampling Freq Control	44.1kHz-345Hz	0-127	table#13	
2	Word Length	1-127	1-127		
3	Output Gain	-6-+12dB	0-18		
4	LPF Cutoff	63Hz-Thru	10-60	table#3	
5	Filter Type	Thru, PowerBass, Radio, Tel, Clean, Low	0-5		
6	LPF Resonance	1.0-12.0	10-120		
7	Bit Assign	0-6	0-6		
8	Emphasis	Off/On	0-1		
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13					
14					
15	Input Mode	mono/stereo			
16					

DIST+DELAT

OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay Time	0.1-1486.0ms	1-14860		
2	Rch Delay Time	0.1-1486.0ms	1-14860		
3	Delay Feedback Level	0.1-1486.0ms	1-14860		
4	Delay Feedback Level	-63-+63	1-127		
5	Delay Mix	0-127	0-127		
6	Dist Drive	0-127	0-127		
7	Dist Output Level	0-127	0-127		
8	Dist EQ Low Gain	-12-+12dB	52-76		
9	Dist EQ Mid Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13					
14					
15					
16					

COMP+DIST+DELAT

COMP+OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1-1486.0ms	1-14860		
2	Delay Feedback Level	-63-+63	1-127		
3	Delay Mix	0-127	0-127		
4	Dist Drive	0-127	0-127		
5	Dist Output Level	0-127	0-127		
6	Dist EQ Low Gain	-12-+12dB	52-76		
7	Dist EQ Mid Gain	-12-+12dB	52-76		
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Comp. Attack	1ms-40ms	0-19	table#8	
12	Comp. Release	10ms-680ms	0-15	table#9	
13	Comp. Threshold	-48dB- -6dB	79-121		
14	Comp. Ratio	1.0-20.0	0-7	table#10	
15					
16					

WAH+DIST+DELAT

WAH+OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1-1486.0ms	1-14860		
2	Delay Feedback Level	-63-+63	1-127		
3	Delay Mix	0-127	0-127		
4	Dist Drive	0-127	0-127		
5	Dist Output Level	0-127	0-127		
6	Dist EQ Low Gain	-12-+12dB	52-76		
7	Dist EQ Mid Gain	-12-+12dB	52-76		
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Wah Sensitive	0-127	0-127		
12	Wah Cutoff Freq Offset	0-127	0-127		
13	Wah Resonance	1.0-12.0	10-120		
14	Wah Release	10-680ms	52-67	table#12	
15					
16					

V DISTORTION HARD

V DISTORTION SOFT (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Overdrive Device	0-100%	0-100		
2	Device	Transister/Vintage Tube/ Dist1/Dist2/Fuzz	0-4		
3	Speaker	Flat/Stack/Combo/Twin/ Radio/Megaphone	0-5		
4	Presence	0-20	0-20		
5	Output Level	0-100%	0-100		
6					
7					
8					
9					
10	Dry/Wet Balance	D63>W-D=W-D<W63	1-127		●
11					
12					
13					
14					
15					
16					

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**V DISTORTION HARD+DELAY
V DISTORTION SOFT+DELAY (variation block)**

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0-100%	0-100		
2	Device	Transister/Vintage Tube/ Dist1/Dist2/Fuzz	0-4		
3	Speaker	Flat/Stack/Combo/Twin/ Radio/Megaphone	0-5		
4	Presence	0-20	0-20		
5	Output Level	0-100%	0-100		
6	Delay Time L	0.1ms-1486.0ms	1-14860		
7	Delay Time R	0.1ms-1486.0ms	1-14860		
8	Delay Feedback Time	0.1ms-1486.0ms	1-14860		
9	Delay Feedback Level	-63+63	1-127		
10	Dry/Wet Balance	D63>W-D=W-D<W63	1-127		●
11	Delay Mix	0-127	0-127		
12					
13					
14					
15					
16					

DUAL ROTOR SPEAKER1, 2 (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed Slow	0.0-2.65Hz	0-63	table#1	
2	Horn Speed Slow	0.0-2.65Hz	0-63	table#1	
3	Rotor Speed Fast	2.69-39.7Hz	64-127	table#1	
4	Horn Speed Fast	2.69-39.7Hz	64-127	table#1	
5	Slow-Fast Time of R	0-127	0-127		
6	Slow-Fast Time of H	0-127	0-127		
7	Drive Low	0-127	0-127		
8	Drive High	0-127	0-127		
9	Low/High Balance	L63>H-L=H-L<H=63	1-127		
10					
11	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
12	EQ Low Gain	-12+12dB	52-76		
13	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
14	EQ High Gain	-12+12dB	52-76		
15	Mic L-R Angle	0-180deg	0-60		
16	Speed Control	Slow/Fast	0/1		●

**DIST+TEMPO DELAY
OVERDRIVE+TEMPO DELAY (variation block)**

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3-4thx6	0-19	table#14	
2	Delay Feedback Level	-63+63	1-127		
3	Delay Mix	0-127	0-127		
4	Dist Drive	0-127	0-127		
5	Dist Output Level	0-127	0-127		
6	Dist EQ Low Gain	-12+12dB	52-76		
7	Dist EQ High Gain	-12+12dB	52-76		
8	L/R Diffusion	1(-63ms)-64(0ms)- 127(63ms)	1-127		
9	Lag	1(-63ms)-64(0ms)- 127(63ms)	1-127		
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		●
11					
12					
13					
14					
15					
16					

**COMP+DIST+TEMPO DELAY
COMP+OD+TEMPO DELAY (variation block)**

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3-4thx6	0-19	table#14	
2	Delay Feedback Level	-63+63	1-127		
3	Delay Mix	0-127	0-127		
4	Dist Drive	0-127	0-127		
5	Dist Output Level	0-127	0-127		
6	Dist EQ Low Gain	-12+12dB	52-76		
7	Dist EQ High Gain	-12+12dB	52-76		
8	L/R Diffusion	1(-63ms)-64(0ms)- 127(63ms)	1-127		
9	Lag	1(-63ms)-64(0ms)- 127(63ms)	1-127		
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		●
11	Comp. Attack	1ms-40ms	0-19		
12	Comp. Release	10ms-680ms	0-15		
13	Comp. Threshold	-48dB -6dB	79-121		
14	Comp. Ratio	1.0-20.0	0-7		
15					
16					

**WAH+DIST+TEMPO DELAY
WAH+OD+TEMPO DELAY (variation block)**

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3-4thx6	0-19	table#14	
2	Delay Feedback Level	-63+63	1-127		
3	Delay Mix	0-127	0-127		
4	Dist Drive	0-127	0-127		
5	Dist Output Level	0-127	0-127		
6	Dist EQ Low Gain	-12+12dB	52-76		
7	Dist EQ High Gain	-12+12dB	52-76		
8	L/R Diffusion	1(-63ms)-64(0ms)- 127(63ms)	1-127		
9	Lag	1(-63ms)-64(0ms)- 127(63ms)	1-127		
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		●
11	Wah Sensitive	0-127	0-127		
12	Wah Cutoff Freq Offset	0-127	0-127		
13	Wah Resonance	1.0-12.0	10-120		
14	Wah Release	10-680mS	52-67		
15					
16					

**V DIST HARD+TEMPO DELAY
V DIST SOFT+TEMPO DELAY (variation block)**

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0-100%	0-100		
2	Device	Transister/Vintage Tube/ Dist1/Dist2/Fuzz	0-4		
3	Speaker	Flat/Stack/Combo/Twin/ Radio/Megaphone	0-5		
4	Presence	0-20	0-20		
5	Output Level	0-100%	0-100		
6	Delay Time	64th/3-4thx6	0-19	table#14	
7	Delay Feedback Level	-63+63	1-127		
8	L/R Diffusion	1(-63ms)-64(0ms)- 127(63ms)	1-127		
9	Lag	1(-63ms)-64(0ms)- 127(63ms)	1-127		
10	Dry/Wet Balance	D63>W-D=W-D<W63	1-127		●
11	Delay Mix	0-127	0-127		
12					
13					
14					
15					
16					

VIBE VIBRATE (insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Vibrate Speed	0.00Hz-39.7Hz	0-127	table#1	
2	Vibrate Depth(AM)	0-127	0-127		
3	Vibrate Depth(PM)	0-127	0-127		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	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 Balance	D63>W-D=W-D<W63	1-127		
11					
12					
13					
14	LFO Phase Difference	-180+180deg(resolu- tion=3deg.)	4-124		
15	Input Mode	mono/stereo	0-1		
16	Vibrate SW	OFF, ON	0-1		●

**NO EFFECT (reverb, chorus, variation, insertion block)
THRU (variation, insertion block)**

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

* Parameter 10 Dry/Wet only affects insertion type effects.

Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets / Tabla de asignación de datos para efectos

Table#1
LFO Frequency

Data	Value	Data	Value
0	0.00	64	2.69
1	0.04	65	2.78
2	0.08	66	2.86
3	0.13	67	2.94
4	0.17	68	3.03
5	0.21	69	3.11
6	0.25	70	3.20
7	0.29	71	3.28
8	0.34	72	3.37
9	0.38	73	3.45
10	0.42	74	3.53
11	0.46	75	3.62
12	0.51	76	3.70
13	0.55	77	3.87
14	0.59	78	4.04
15	0.63	79	4.21
16	0.67	80	4.37
17	0.72	81	4.54
18	0.76	82	4.71
19	0.80	83	4.88
20	0.84	84	5.05
21	0.88	85	5.22
22	0.93	86	5.38
23	0.97	87	5.55
24	1.01	88	5.72
25	1.05	89	6.06
26	1.09	90	6.39
27	1.14	91	6.73
28	1.18	92	7.07
29	1.22	93	7.40
30	1.26	94	7.74
31	1.30	95	8.08
32	1.35	96	8.41
33	1.39	97	8.75
34	1.43	98	9.08
35	1.47	99	9.42
36	1.51	100	9.76
37	1.56	101	10.1
38	1.60	102	10.8
39	1.64	103	11.4
40	1.68	104	12.1
41	1.72	105	12.8
42	1.77	106	13.5
43	1.81	107	14.1
44	1.85	108	14.8
45	1.89	109	15.5
46	1.94	110	16.2
47	1.98	111	16.8
48	2.02	112	17.5
49	2.06	113	18.2
50	2.10	114	19.5
51	2.15	115	20.9
52	2.19	116	22.2
53	2.23	117	23.6
54	2.27	118	24.9
55	2.31	119	26.2
56	2.36	120	27.6
57	2.40	121	28.9
58	2.44	122	30.3
59	2.48	123	31.6
60	2.52	124	33.0
61	2.57	125	34.3
62	2.61	126	37.0
63	2.65	127	39.7

Table#2
Modulation Delay Offset

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

Table#3
EQ Frequency

Data	Value
0	THRU (0)
1	22
2	25
3	28
4	32
5	36
6	40
7	45
8	50
9	56
10	63
11	70
12	80
13	90
14	100
15	110
16	125
17	140
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
43	2.8k
44	3.2k
45	3.6k
46	4.0k
47	4.5k
48	5.0k
49	5.6k
50	6.3k
51	7.0k
52	8.0k
53	9.0k
54	10.0k
55	11.0k
56	12.0k
57	14.0k
58	16.0k
59	18.0k
60	THRU(20.0k)

Table#4
Reverb time

Data	Value	Data	Value
0	0.3	64	17.0
1	0.4	65	18.0
2	0.5	66	19.0
3	0.6	67	20.0
4	0.7	68	25.0
5	0.8	69	30.0
6	0.9		
7	1.0		
8	1.1		
9	1.2		
10	1.3		
11	1.4		
12	1.5		
13	1.6		
14	1.7		
15	1.8		
16	1.9		
17	2.0		
18	2.1		
19	2.2		
20	2.3		
21	2.4		
22	2.5		
23	2.6		
24	2.7		
25	2.8		
26	2.9		
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		
43	4.6		
44	4.7		
45	4.8		
46	4.9		
47	5.0		
48	5.5		
49	6.0		
50	6.5		
51	7.0		
52	7.5		
53	8.0		
54	8.5		
55	9.0		
56	9.5		
57	10.0		
58	11.0		
59	12.0		
60	13.0		
61	14.0		
62	15.0		
63	16.0		

Table#5
Delay Time(200.0ms)

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

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter "H" as a suffix.

Also, "n" can freely be defined as any whole number. To enter data/values, refer to the table below.

decimal	hexadecimal	binary
0	00	0000 0000
1	01	0000 0001
2	02	0000 0010
3	03	0000 0011
4	04	0000 0100
5	05	0000 0101
6	06	0000 0110
7	07	0000 0111
8	08	0000 1000
9	09	0000 1001
10	0A	0000 1010
11	0B	0000 1011
12	0C	0000 1100
13	0D	0000 1101
14	0E	0000 1110
15	0F	0000 1111
16	10	0001 0000
17	11	0001 0001
18	12	0001 0010
19	13	0001 0011
20	14	0001 0100
21	15	0001 0101
22	16	0001 0110
23	17	0001 0111
24	18	0001 1000
25	19	0001 1001
26	1A	0001 1010
27	1B	0001 1011
28	1C	0001 1100
29	1D	0001 1101
30	1E	0001 1110
31	1F	0001 1111

decimal	hexadecimal	binary
32	20	0010 0000
33	21	0010 0001
34	22	0010 0010
35	23	0010 0011
36	24	0010 0100
37	25	0010 0101
38	26	0010 0110
39	27	0010 0111
40	28	0010 1000
41	29	0010 1001
42	2A	0010 1010
43	2B	0010 1011
44	2C	0010 1100
45	2D	0010 1101
46	2E	0010 1110
47	2F	0010 1111
48	30	0011 0000
49	31	0011 0001
50	32	0011 0010
51	33	0011 0011
52	34	0011 0100
53	35	0011 0101
54	36	0011 0110
55	37	0011 0111
56	38	0011 1000
57	39	0011 1001
58	3A	0011 1010
59	3B	0011 1011
60	3C	0011 1100
61	3D	0011 1101
62	3E	0011 1110
63	3F	0011 1111

decimal	hexadecimal	binary
64	40	0100 0000
65	41	0100 0001
66	42	0100 0010
67	43	0100 0011
68	44	0100 0100
69	45	0100 0101
70	46	0100 0110
71	47	0100 0111
72	48	0100 1000
73	49	0100 1001
74	4A	0100 1010
75	4B	0100 1011
76	4C	0100 1100
77	4D	0100 1101
78	4E	0100 1110
79	4F	0100 1111
80	50	0101 0000
81	51	0101 0001
82	52	0101 0010
83	53	0101 0011
84	54	0101 0100
85	55	0101 0101
86	56	0101 0110
87	57	0101 0111
88	58	0101 1000
89	59	0101 1001
90	5A	0101 1010
91	5B	0101 1011
92	5C	0101 1100
93	5D	0101 1101
94	5E	0101 1110
95	5F	0101 1111

decimal	hexadecimal	binary
96	60	0110 0000
97	61	0110 0001
98	62	0110 0010
99	63	0110 0011
100	64	0110 0100
101	65	0110 0101
102	66	0110 0110
103	67	0110 0111
104	68	0110 1000
105	69	0110 1001
106	6A	0110 1010
107	6B	0110 1011
108	6C	0110 1100
109	6D	0110 1101
110	6E	0110 1110
111	6F	0110 1111
112	70	0111 0000
113	71	0111 0001
114	72	0111 0010
115	73	0111 0011
116	74	0111 0100
117	75	0111 0101
118	76	0111 0110
119	77	0111 0111
120	78	0111 1000
121	79	0111 1001
122	7A	0111 1010
123	7B	0111 1011
124	7C	0111 1100
125	7D	0111 1101
126	7E	0111 1110
127	7F	0111 1111

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/FOH/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

MIDI CHANNEL MESSAGE (1)

○: available

MIDI Events	Status byte		1st Data byte		2nd Data byte		MIDI Reception (respond/ignore)			MIDI Transmission (generated data)			PLAY		REC
	Status	(n:Channel Number)	Data (HEX)	Parameter	Data (HEX)	Parameter	Song	Main Layer Left Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
Key Off	8nH	(n:Channel Number)	kk	Key no. (0-127)	vv	Velocity(0-127)	○	○	○	×	○	×	○	×	×
Key On	9nH	(n:Channel Number)	kk	Key no. (0-127)	vv	Key On :vv=1-127 Key Off :vv=0	○	○	○	○ (Keyboard)	○	×	○	×	○
Control Change	BnH		0 (00H)	Bank Select MSB	0 (00H) 64 (40H) 126 (7EH) 127 (7FH)	Normal SFX voice SFX kit Drum kit	○	○	×	○ (Voice)	○	×	○	○	○
			1 (01H)	Modulation	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	×	○	×	○	○	×
			5 (05H)	Portamento Time	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	×	○	×	○	○	×
			6 (06H)	Data Entry MSB	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			7 (07H)	Main Volume	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			10 (0AH)	Panpot	0-127 (00H...7FH)	L64	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			11 (0BH)	Expression	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Pedal)	○	×	○	○	○
			32 (20H)	Bank Select LSB	0-127 (00H...7FH)	Data	○	○	×	○ (Voice)	○	×	○	○	○
			38 (26H)	Data Entry LSB	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	×	○
			64 (40H)	Sustain(Damper)	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Pedal)	○	×	○	○	○
			65 (41H)	Portamento	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	○	○	○ (All manually played parts)	×	○	×	○	○	×
			66 (42H)	Sostenuto	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	○	○	○ (All manually played parts)	○ (Pedal)	○	×	○	○	○
			67 (43H)	Soft Pedal	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	○	○	○ (All manually played parts)	○ (Pedal)	○	×	○	○	○
			71 (47H)	Harmonic Content	0-127 (00H...7FH)	-64...0...+63	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			72 (48H)	Release Time	0-127 (00H...7FH)	-64...0...+63	○	○	○ (All manually played parts)	×	○	×	○	○	×
			73 (49H)	Attack Time	0-127 (00H...7FH)	-64...0...+63	○	○	○ (All manually played parts)	×	○	×	○	○	×
			74 (4AH)	Brightness	0-127 (00H...7FH)	-64...0...+63	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	○	○	×	×	○	×	○	×	×
			91 (5BH)	Effect1 Depth (Reverb Send Level)	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			93 (5DH)	Effect3 Depth (Chorus Send Level)	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
			94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	×	○	×	○	○	×
96 (60H)	RPN Increment	-	*	○	○	×	×	○	×	○	×	×			
97 (61H)	RPN Decrement	-	*	○	○	×	×	○	×	○	×	×			
98 (62H)	NRPN LSB	0-127 (00H...7FH)	Data	○	○	×	×	○	×	○	○	×			
99 (63H)	NRPN MSB	0-127 (00H...7FH)	Data	○	○	×	×	○	×	○	○	×			
100 (64H)	RPN LSB	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○			
101 (65H)	RPN MSB	0-127 (00H...7FH)	Data	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○			
Mode Message	BnH	(n:Channel Number)	120 (78H)	All Sound Off	0 (00H)	Data	○	○	○ (All manually played parts)	×	○	×	○	×	×
			121 (79H)	Reset All Controllers	0 (00H)	Data	○	×	×	×	○	×	○	×	×
			123 (7BH)	All Note Off	0 (00H)	Data	○	○	○ (All manually played parts)	×	○	×	○	×	×
			124 (7CH)	Omn Off	0 (00H)	Data	○	×	×	×	×	×	×	×	×
			125 (7DH)	Omn On	0 (00H)	Data	○	×	×	×	×	×	×	×	×
			126 (7EH)	Mono	0-16 (00H...10H)	Data	○	×	×	×	○	×	○	×	×
			127 (7FH)	Poly	0 (00H)	Data	○	×	×	×	○	×	○	×	×
Program Change	CnH	(n:Channel Number)	pp (00H...7FH)	Voice number (0-127)	-	-	-	○	○	×	○ (Voice)	○	×	○	○
Channel After Touch	DnH	(n:Channel Number)	vv (00H...7FH)	Data	-	-	-	○	○	○ (All manually played parts)	×	○	×	○	×
Polyphonic After Touch	AnH	(n:Channel Number)	kk (00H...7FH)	Key no. (0-127)	vv (00H...7FH)	Data	○	×	×	×	○	×	○	×	×
Pitch Bend Change	EnH	(n:Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	○	○	○ (All manually played parts)	○ (Pedal)	○	×	○	○	○
Realtime Message	F8H	MIDI Clock	-	-	-	-	-	-	×	○	-	-	-	×	
	FAH	Start	-	-	-	-	-	-	○	○	-	-	-	×	
	FBH	Continue	-	-	-	-	-	-	×	×	-	-	-	×	
	FCH	Stop	-	-	-	-	-	-	○	○	-	-	-	×	
	FEH	Active Sens	-	-	-	-	-	-	○	○	-	-	-	×	
	FFH	System Reset	-	-	-	-	-	-	×	×	-	-	-	×	

* The data byte is ignored.

MIDI CHANNEL MESSAGE (2)

Parameters controlled by NRPN (Non-Registered Parameter Numbers)

NRPN		Data Entry		Parameter	Data Range	MIDI Reception (respond/ignore)			MIDI Transmission (generated data)			PLAY		REC
MSB	LSB	MSB	LSB			Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
01H	08H	mmH	--	Vibrato Rate	mm : 00H-40H-7FH (-64...0...+63)	○	○	×	×	○	×	○	○	×
01H	09H	mmH	--	Vibrato Depth	mm : 00H-40H-7FH (-64...0...+63)	○	○	×	×	○	×	○	○	×
01H	0AH	mmH	--	Vibrato Delay	mm : 00H-40H-7FH (-64...0...+63)	○	○	×	×	○	×	○	○	×
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	○	×
01H	21H	mmH	--	Low Pass Filter Resonance	mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	○	×
01H	30H	mmH	--	EQ BASS	mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	○	×
01H	31H	mmH	--	EQ TREBLE	mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	○	×
01H	34H	mmH	--	EQ BASS Frequency	mm : 04H-28H (32...2.0k [Hz])	○	×	×	×	○	×	○	○	×
01H	35H	mmH	--	EQ TREBLE Frequency	mm : 1CH-3AH (500...16.0k [Hz])	○	×	×	×	○	×	○	○	×
01H	63H	mmH	--	EG Attack Time	mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	○	×
01H	64H	mmH	--	EG Decay Time	mm : 00H-40H-7FH (-64...0...+63)	○	○	×	×	○	×	○	○	×
01H	66H	mmH	--	EG Release	mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	○	×
14H	rrH	mmH	--	Drum Low Pass Filter Cutoff Frequency	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	×	×
15H	rrH	mmH	--	Drum Low Pass Filter Resonance	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	×	×
16H	rrH	mmH	--	Drum EG Attack Rate	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	×	×
17H	rrH	mmH	--	Drum EG Decay Rate	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	×	×
18H	rrH	mmH	--	Drum Pitch Coarse	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	×	×
19H	rrH	mmH	--	Drum Pitch Fine	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)	○	×	×	×	○	×	○	×	×
1AH	rrH	mmH	--	Drum Level	rr : drum instrument note number mm : 00H-7FH (0...127)	○	×	×	×	○	×	○	×	×
1CH	rrH	mmH	--	Drum Pan	rr : drum instrument note number mm : 00H, 01H-40H-7FH (RND, L63...C...R63)	○	×	×	×	○	×	○	×	×
1DH	rrH	mmH	--	Drum Reverb Send Level	rr : drum instrument note number mm : 00H-7FH (0...127)	○	×	×	×	○	×	○	×	×
1EH	rrH	mmH	--	Drum Chorus Send Level	rr : drum instrument note number mm : 00H-7FH (0...127)	○	×	×	×	○	×	○	×	×
1FH	rrH	mmH	--	Drum Variation Send Level	rr : drum instrument note number mm : 00H-7FH (0...127) (Variation Connection = SYSTEM) mm : 00H, 01H-7FH (OFF, ON) (Variation Connection = INSERTION)	○	×	×	×	○	×	○	×	×

NRPN MSB: 14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.

Data Entry LSB: Ignored.

Parameters controlled by RPN (Registered Parameter Numbers)

NRPN		Data Entry		Parameter	Data Range	MIDI Reception (respond/ignore)			MIDI Transmission (generated data)			PLAY		REC
MSB	LSB	MSB	LSB			Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
00H	00H	mmH	--	Pitch Bend Sensitivity	mm : 00H-18H (0...+24 [semitones])	○	○	○ (All manually played parts)	○ (Other Setting)	○	×	○	○	○
00H	01H	mmH	llH	Fine Tune	mm ll : 00H 00H -100 [cent] ... mm ll : 40H 00H 0 [cent] ... mm ll : 7FH 7FH 100 [cent]	○	○	○ (All manually played parts)	○ (Voice Setting)	○	×	○	○	○
00H	02H	mmH	--	Coarse Tune	mm : 28H-40H-58H (-24...0...+24 [semitones])	○	○	○ (All manually played parts)	×	○	×	○	○	×
7FH	7FH	--	--	Null	-	○	○	○ (All manually played parts)	×	○	×	○	×	×

MIDI PARAMETER CHANGE TABLE

* Not Received when Receive Parameter SysEx is set to off.

* Not transmitted when Transmit Parameter SysEx is set to on.

MIDI Parameter Change table (XG SYSTEM)

○: available

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC		
						Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel		
00	00	00 01 02 03	4	00-0F 00-0F 00-0F 00-0F	MASTER TUNE	-102.4...0...+102.3 [cent] 1st bit3-0 → bit15-12 2nd bit3-0 → bit11-8 3rd bit3-0 → bit7-4 4th bit3-0 → bit3-0	* Panel setting value	○	×	×	×	○	×	○	×	×
		04	1	00-7F	MASTER VOLUME	0...127	7F	○	×	×	×	○	×	○	×	×
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	×	×	×	×	×	×	×	×	×
		06	1	28-58	TRANSCOPE	-24...0...+24 [semitones]	40	○	×	×	×	○	×	○	○	×
		7D	1	N	DRUM SETUP RESET	N:Drum setup number	-	○	×	×	×	○	×	○	×	×
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	○	×	×	×	○	×	○	×	○
		7F	1	00	ALL PARAMETER RESET	00=ON	-	○	×	×	×	○	×	○	×	×

TOTAL SIZE 07

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

MIDI Parameter Change table (SYSTEM INFORMATION)

Address (H)	Size (H)	Data (H)	Parameter	Description	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC
					Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
01	00	00...0D	Model Name 1 ... Model Name 14	32...127(ASCII CHARACTER) ... 32...127(ASCII CHARACTER)	-	-	-	×	×	○	×	×	×
		0E	NOT USED										
		0F	NOT USED										

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC		
						Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel		
02	01	00	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Parameter List *	01(=HALL1) 00	○			○(Voice Setting)			○	×	○	○	○
		02	REVERB PARAMETER 1	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		03	REVERB PARAMETER 2	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		04	REVERB PARAMETER 3	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		05	REVERB PARAMETER 4	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		06	REVERB PARAMETER 5	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		07	REVERB PARAMETER 6	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		08	REVERB PARAMETER 7	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		09	REVERB PARAMETER 8	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		0A	REVERB PARAMETER 9	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		0B	REVERB PARAMETER 10	"	Depends on Reverb Type	○ (* Depends on Reverb Type)			×	○	×	○	○	×		
		0C	REVERB RETURN	-->dB...0dB...+6dB(0...96...127)	40	○			×	○	×	○	○	×		
		0D	REVERB PAN	L63...C...R63	40	○			×	○	×	○	○	×		

TOTAL SIZE 0E

02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	○ (* Depends on Reverb Type)	×	○	×	○	○	×
		11	1	00-7F	REVERB PARAMETER 12	"	Depends on Reverb Type	○ (* Depends on Reverb Type)	×	○	×	○	○	×
		12	1	00-7F	REVERB PARAMETER 13	"	Depends on Reverb Type	○ (* Depends on Reverb Type)	×	○	×	○	○	×
		13	1	00-7F	REVERB PARAMETER 14	"	Depends on Reverb Type	○ (* Depends on Reverb Type)	×	○	×	○	○	×
		14	1	00-7F	REVERB PARAMETER 15	"	Depends on Reverb Type	○ (* Depends on Reverb Type)	×	○	×	○	○	×
		15	1	00-7F	REVERB PARAMETER 16	"	Depends on Reverb Type	○ (* Depends on Reverb Type)	×	○	×	○	○	×

TOTAL SIZE 06

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC				
						Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel				
02	01	20	2	00-7F 00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	Refer to Effect Parameter List *	41(=CHORUS1) 00	○			○(Voice Setting)			○	×	○	○	○
		22	1	00-7F	CHORUS PARAMETER 1	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		23	1	00-7F	CHORUS PARAMETER 2	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		24	1	00-7F	CHORUS PARAMETER 3	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		25	1	00-7F	CHORUS PARAMETER 4	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		26	1	00-7F	CHORUS PARAMETER 5	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		27	1	00-7F	CHORUS PARAMETER 6	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		28	1	00-7F	CHORUS PARAMETER 7	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		29	1	00-7F	CHORUS PARAMETER 8	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		2A	1	00-7F	CHORUS PARAMETER 9	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		2B	1	00-7F	CHORUS PARAMETER 10	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×				
		2C	1	00-7F	CHORUS RETURN	-->dB...0dB...+6dB(0...96...127)	40	○		×	○	×	○	○	×			
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	○		×	○	×	○	○	×			
		2E	1	00-7F	SEND CHORUS TO REVERB	-->dB...0dB...+6dB(0...96...127)	00	○		×	○	×	○	○	×			

TOTAL SIZE 0F

02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×
		31	1	00-7F	CHORUS PARAMETER 12	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×
		32	1	00-7F	CHORUS PARAMETER 13	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×
		33	1	00-7F	CHORUS PARAMETER 14	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×
		34	1	00-7F	CHORUS PARAMETER 15	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×
		35	1	00-7F	CHORUS PARAMETER 16	"	Depends on Chorus Type	○ (* Depends on Chorus Type)	×	○	×	○	○	×

TOTAL SIZE 06

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC		
								Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel		
02	01	40	2	00-7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05(=DELAY L,C,R)											
				00-7F	VARIATION TYPE LSB	*	00											
		42	2	00-7F	VARIATION PARAMETER 1 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 1 LSB	*												
		44	2	00-7F	VARIATION PARAMETER 2 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 2 LSB	*												
		46	2	00-7F	VARIATION PARAMETER 3 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 3 LSB	*												
		48	2	00-7F	VARIATION PARAMETER 4 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 4 LSB	*												
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 5 LSB	*												
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 6 LSB	*												
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 7 LSB	*												
		50	2	00-7F	VARIATION PARAMETER 8 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 8 LSB	*												
		52	2	00-7F	VARIATION PARAMETER 9 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 9 LSB	*												
		54	2	00-7F	VARIATION PARAMETER 10 MSB	*	Depends on Variation Type											
				00-7F	VARIATION PARAMETER 10 LSB	*												
		56	1	00-7F	VARIATION RETURN	--dB...0dB...+6dB(0...127)	40											
		57	1	01-7F	VARIATION PAN	L63...C...R63	40											
		58	1	00-7F	SEND VARIATION TO REVERB	--dB...0dB...+6dB(0...127)	00											
		59	1	00-7F	SEND VARIATION TO CHORUS	--dB...0dB...+6dB(0...127)	00											
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00											
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16(0...15) Transmission: Part1...16(0...15) AD(64) OFF(127)	7F											
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40											
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40											
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40											
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40											
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40											

TOTAL SIZE 21

02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type											
		71	1	00-7F	VARIATION PARAMETER 12	*	Depends on Variation Type											
		72	1	00-7F	VARIATION PARAMETER 13	*	Depends on Variation Type											
		73	1	00-7F	VARIATION PARAMETER 14	*	Depends on Variation Type											
		74	1	00-7F	VARIATION PARAMETER 15	*	Depends on Variation Type											
		75	1	00-7F	VARIATION PARAMETER 16	*	Depends on Variation Type											

TOTAL SIZE 06

MIDI Parameter Change table (EFFECT2)

Address (H)	Size (H)	Data (H)	Parameter	Description	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC
					Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List "			○ (Voice Setting)			○	○
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	○ (* Depends on Insertion Type)			○ (Voice Setting)			○	○
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	○ (* Depends on Insertion Type)			×			○	○
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	○ (* Depends on Insertion Type)			○ (Voice Setting)			○	○
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	○ (* Depends on Insertion Type)			×			○	○
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	○ (* Depends on Insertion Type)			×			○	○
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	○ (* Depends on Insertion Type)			×			○	○
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	○ (* Depends on Insertion Type)			×			○	○
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	○ (* Depends on Insertion Type)			×			○	○
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	○ (* Depends on Insertion Type)			×			○	○
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	○ (* Depends on Insertion Type)			○ (Voice Setting)			○	○
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16(0...15) Transmission: Part1...16(0...15) AD(64) OFF(127)			○ (Voice)			○	○
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63			○			×	○
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63			○			×	○
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63			○			×	○
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63			○			×	○
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63			○			×	○
TOTAL SIZE		12											

		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		21	1	00-7F	INSERTION EFFECT PARAMETER 12	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		22	1	00-7F	INSERTION EFFECT PARAMETER 13	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		23	1	00-7F	INSERTION EFFECT PARAMETER 14	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		24	1	00-7F	INSERTION EFFECT PARAMETER 15	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		25	1	00-7F	INSERTION EFFECT PARAMETER 16	"			○ (* Depends on Insertion Type)			○ (Voice Setting)			○	○	○
TOTAL SIZE		6															

		30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		3A	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	"			○ (* Depends on Insertion Type)			×	○	○	○	○	×
		42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	"			○ (* Depends on Insertion Type)			○ (Voice Setting)			○	○	○
TOTAL SIZE		14															

The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.

The second byte of the address is considered as an Insertion effect number.

n : insertion effect number

For effect types that do not require MSB, the Parameters for Address 02-0B will be received and the Parameters for Address 30-42 will not be received.

For effect types that require MSB, the Parameters for Address 30-42 will be received and the Parameters for Address 02-0B will not be received. When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02-0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02-0B will not be received.

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Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC	
						Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel	
	55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○	×	○	×	×
	56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	○	×	×	×	○	×	○	×	×
	5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	×	×	○	×	○	×	×
	5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	×	×	○	×	○	×	×
	5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○	×	○	×	×
	5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	○	×	×	×	○	×	○	×	×
	61	1	28-58	AC2 PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	×	×	○	×	○	×	×
	62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	×	×	○	×	○	×	×
	63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	×	×	○	×	○	×	×
	64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	○	×	×	×	○	×	○	×	×
	67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	○	○	×	×	○	×	○	○	×
	68	1	00-7F	PORTAMENTO TIME	0...127	00	○	○	×	×	○	×	○	○	×
	69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	○	×	×	×	○	×	○	×	×
	6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	○	×	×	×	○	×	○	×	×
	6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	○	×	×	×	○	×	○	×	×
	6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	○	×	×	×	○	×	○	×	×
	6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	○	×	×	×	○	×	○	×	×
	6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	○	×	×	×	○	×	○	×	×

TOTAL SIZE 3F

	70	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	71	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	○	○	×	○ (Voice Setting)	○	×	○	○	○
	73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	○	○	×	○ (Voice Setting)	○	×	○	○	○

TOTAL SIZE 04

	74	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	75	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	76	1	04-28	EQ BASS FREQUENCY	32...2.0k [Hz]	0C	○	○	×	○ (Voice Setting)	○	×	○	○	○
	77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k [Hz]	36	○	○	×	○ (Voice Setting)	○	×	○	○	○
	78	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	79	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	7A	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	7B	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	7C	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	7D	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	7E	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--
	7F	1		NOT USED	--	--	--	--	--	--	--	--	--	--	--

TOTAL SIZE 0C

nn = PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.

- BANK SELECT LSB
- MONO/POLY MODE
- SCALE TUNING
- PORTAMENTO
- PITCH EG
- FILTER MODULATION DEPTH (FMOD DEPTH)
- AMPLITUDE MODULATION DEPTH (AMOD DEPTH)

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

MIDI Parameter Change table (DRUM SETUP)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)			PLAY		REC		
						Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel		
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	○	×	×	×	○	×	○	×	×
		01	1	00-7F	PITCH FINE	-64...0...+63 [cent]	40	○	×	×	×	○	×	○	×	×
		02	1	00-7F	LEVEL	0...127	Depends on the note	○	×	×	×	○	×	○	×	×
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	Depends on the note	○	×	×	×	○	×	○	×	×
		04	1	00-7F	PAN	RND, L63...C...R63	Depends on the note	○	×	×	×	○	×	○	×	×
		05	1	00-7F	REVERB SEND	0...127	Depends on the note	○	×	×	×	○	×	○	×	×
		06	1	00-7F	CHORUS SEND	0...127	Depends on the note	○	×	×	×	○	×	○	×	×
		07	1	00-7F	VARIATION SEND	0...127	7F	○	×	×	×	○	×	○	×	×
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	○	×	×	×	○	×	○	×	×
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	○	×	×	×	○	×	○	×	×
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	○	×	×	×	○	×	○	×	×
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	○	×	×	×	○	×	○	×	×
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	○	×	×	×	○	×	○	×	×
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	○	×	×	×	○	×	○	×	×
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	○	×	×	×	○	×	○	×	×
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	○	×	×	×	○	×	○	×	×

TOTAL SIZE 10

		20	1	00-7F	EQ BASS GAIN	-12...+12 [dB]	40	○	×	×	×	○	×	○	×	×
		21	1	00-7F	EQ TREBLE GAIN	-12...+12 [dB]	40	○	×	×	×	○	×	○	×	×
		22	1		NOT USED			-	-	-	-	-	-	-	-	-
		23	1		NOT USED			-	-	-	-	-	-	-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k [Hz]	0C	○	×	×	×	○	×	○	×	×
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k [Hz]	36	○	×	×	×	○	×	○	×	×
		26	1		NOT USED			-	-	-	-	-	-	-	-	-
		27	1		NOT USED			-	-	-	-	-	-	-	-	-
		28	1		NOT USED			-	-	-	-	-	-	-	-	-
		29	1		NOT USED			-	-	-	-	-	-	-	-	-
		2A	1		NOT USED			-	-	-	-	-	-	-	-	-
		2B	1		NOT USED			-	-	-	-	-	-	-	-	-
		2C	1		NOT USED			-	-	-	-	-	-	-	-	-
		2D	1		NOT USED			-	-	-	-	-	-	-	-	-

TOTAL SIZE 0E

n: Drum Setup Number (0-1)

rr: note number (0D-5B)

In the following cases, the PF-500 will initialize all Drum Setups.

XG SYSTEM ON received

GM SYSTEM ON received

DRUM SETUP RESET received (only when in XG mode)

- When a part to which a Drum Setup is assigned receives a program change, the assigned Drum Setup will be initialized. If the same Drum Setup is assigned to two or more parts, changes in Drum Setup parameters (including program changes) will apply to all parts to which it is assigned.

System Exclusive Messages (1)

* Not Received when Receive Parameter SysEx is set to off.

* Not transmitted when Transmit Parameter SysEx is set to on.

System Exclusive Messages (Universal Realtime messages)

○: available

MIDI Event	Data Format	MIDI Reception (effective or not for each part)			MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			PLAY		REC
		Song	Main Layer Left Left-Layer	Keyboard		Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
Master Volume	F0 7F XN 04 01 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 0sssssss SS = Volume LSB 0ttttttt TT = Volume MSB 11110111 F7 = End of Exclusive	○	×	×	×	×	×	×	○	○	×

System Exclusive Messages (Universal Non Realtime messages)

MIDI Event	Data Format	MIDI Reception (effective or not for each part)			MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			PLAY		REC
		Song	Main Layer Left Left-Layer	Keyboard		Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
GM1 System On	F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive	○	×	×	○ (Voice Setting Reverb Type Chorus Type)	×	○	×	○	×	○

System Exclusive Messages (2)

* Not received when the Receive Parameter SysEx is set to off.

* Not transmitted when the Transmit Parameter SysEx is set to on.

System Exclusive Messages (Preset voice)

MIDI Event	Data Format		MIDI Reception (effective or not for each part)			MIDI Reception (affecting the panel)	MIDI Transmission (generated data)		
			Song	Main Layer Left Left-Layer	Keyboard		Panel (main generation method)	Song	Midi
String Resonance Depth	F0 43 73 01 50 11 0n 02 dd F7								
	11110000	F0 = Exclusive status							
	01000011	43 = YAMAHA ID							
	01110011	73 = Clavinova ID							
	00000001	01 = Model ID (Clavinova common ID)							
	01010000	50 = SubID	○	○	×	○ (Other Setting)	○ (Other Setting)	○	×
	00010001	11 = SubID							
	0000nnnn	0n = Channel (00-0F)							
	00000010	02 = SubID(String Resonance Depth)							
0ddddd	dd = Depth(00-48)								
11110111	F7 = End of Exclusive								
Sustain Sample Depth	F0 43 73 01 50 11 0n 03 dd F7								
	11110000	F0 = Exclusive status							
	01000011	43 = YAMAHA ID							
	01110011	73 = Clavinova ID							
	00000001	01 = Model ID (Clavinova common ID)							
	01010000	50 = SubID	○	○	×	○ (Other Setting)	○ (Other Setting)	○	×
	00010001	11 = SubID							
	0000nnnn	0n = Channel (00-0F)							
	00000011	03 = SubID(Sustain Sample Depth)							
0ddddd	dd = Depth(00-48)								
11110111	F7 = End of Exclusive								
Key Off Sampling Depth	F0 43 73 01 50 11 0n 04 dd F7								
	11110000	F0 = Exclusive status							
	01000011	43 = YAMAHA ID							
	01110011	73 = Clavinova ID							
	00000001	01 = Model ID (Clavinova common ID)							
	01010000	50 = SubID	○	○	×	○ (Other Setting)	○ (Other Setting)	○	×
	00010001	11 = SubID							
	0000nnnn	0n = Channel (00-0F)							
	0000100	04 = SubID(Key Off Sampling Depth)							
0ddddd	dd = Depth(00-50)								
11110111	F7 = End of Exclusive								
Soft Pedal Depth	F0 43 73 01 50 11 0n 05 dd F7								
	11110000	F0 = Exclusive status							
	01000011	43 = YAMAHA ID							
	01110011	73 = Clavinova ID							
	00000001	01 = Model ID (Clavinova common ID)							
	01010000	50 = SubID	○	○	×	○ (Other Setting)	○ (Other Setting)	○	×
	00010001	11 = SubID							
	0000nnnn	0n = Channel (00-0F)							
	0000101	05 = SubID(Soft Pedal Depth)							
0ddddd	dd = Depth(00-7F)								
11110111	F7 = End of Exclusive								

* For each Depth value, the reset value is 40H = voice parameter.

System Exclusive Messages (Others)

MIDI Event	Data Format		MIDI Reception (effective or not for each part)			MIDI Reception (affecting the panel)	MIDI Transmission (generated data)		
			Song	Main Layer Left Left-Layer	Keyboard		Panel (main generation method)	Song	Midi
MIDI Master Tuning	F0 43 1n 27 30 00 00 mm ll cc F7								
	11110000	F0 = Exclusive status							
	01000011	43 = YAMAHA ID							
	0001nnnn	1n = always 0 (when transmit), n=0-F (when receive)							
	00100111	27 = Model ID of TG100							
	00110000	30 = Address High		○		○ (Other Setting)			
	00000000	00 = Address Mid							
	00000000	00 = Address Low							
	0000mmmm	0m = Master Tune MSB							
	0000llll	0l = Master Tune LSB							
	0ccccccc	cc = don't care							
11110111	F7 = End of Exclusive								

Function		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1-16 1-16	1-16 1-16	
Mode	Default Messages Altered	3 x *****	3 x x	
Note Number:	True voice	0-127 *****	0-127 0-127	
Velocity	Note ON Note OFF	o 9nH , v = 1-127 x 9nH , v = 0	o 9nH , v = 1-127 x	
After Touch	Key's Ch's	x x	x o	
Pitch Bend		o	o0-24 semi	
Control Change	0, 32 1 5 7, 10, 11 6, 38 64, 66, 67 65 71, 74 72, 73 84 91, 93 94 96-97 98-99 100-101 120	o x x o o o x o x x o x x x o x x o x	o o o o o o o o o o o o o o o o o o o	Bank Select Modulation Portament Time Data Entry Portament Sound Controller Sound Controller Portament Control Effect Depth Effect Depth RPN Inc,Dec RPN LSB,MSB RPN LSB,MSB All Sound Off
Prog Change:	True #	o 0-127 *****	o 0-127	
System Exclusive		o	o	
Common	: Song Pos. : Song Sel. : Tune	x x x	x x x	
System Real Time	: Clock : Commands	o o	x o	
Aux Messages	: Local ON/OFF : All Notes OFF : Active Sense : Reset	x x o x	x o o x	
Notes:				

Mode 1 : OMNI ON , POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON ,MONO
Mode 4 : OMNI OFF,MONO

o : Yes
x : No

Specifications / Technische Daten / Spécifications / Especificaciones

Item		PF-500
Keyboard		88 keys (A-1–C7)
Sound Source		AWM Dynamic Stereo Sampling
Polyphony		max. 128 voices
Voice Selection		Panel preset for manual performance: 38 voices, XG voices: 480 voices + 12 drum kits
Effect		Reverb, Chorus, Brilliance, Variation effect, Insertion effect × 3
Controls		Dual, Split
Display		LCD
Recording/Playback		16-track recording/playback, tempo adjustment
Pedal		Damper, Sostenuto, Soft
Demo Songs		16 voice demo songs, 50 preset songs
Jacks/Connectors		MIDI (IN/OUT/THRU), PHONES X2, AUX IN, AUX OUT(L/L+R,R), AUX OUT (LEVEL FIXED)(L,R), TO HOST, PEDAL, USB, AUX PEDAL
Main Amplifiers		30W × 2
Speakers		16cm × 2, 5cm × 2
Dimensions (W × D × H) (without music stand, pedal unit)	main unit	1430mm × 507mm × 145mm [56-5/16" × 19-15/16" × 5-11/16"]
	main unit with keyboard stand	1430mm × 507mm × 762mm [56-5/16" × 19-15/16" × 30"]
Weight (without music stand, pedal unit)	main unit	30kg [66lbs., 2oz]
	main unit with keyboard stand	42kg [92lbs., 9oz]
Included Accessories		Pedal Unit, Keyboard Stand, Music Stand, Bench (included or optional depending on locale), Dust Cover (included or optional depending on locale), Owner's Manual, Reference Booklet

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Preset Song List / Liste der voreingestellten Songs / Liste des morceaux prédéfinis / Lista de canciones preseleccionadas

No.	Title	Composer
1	Invention No. 1	J.S.Bach
2	Invention No. 8	J.S.Bach
3	Gavotte	J.S.Bach
4	Prelude (Wohltemperierte Klavier I No.1)	J.S.Bach
5	Menuett G dur BWV.Anh.114	J.S.Bach
6	Le Coucou	L-C.Daquin
7	Piano Sonate No.15 K.545 1st mov	W.A.Mozart
8	Turkish March	W.A.Mozart
9	Menuett G dur	W.A.Mozart
10	Little Serenade	J.Haydn
11	Perpetuum mobile	C.M.v.Weber
12	Ecossaise	L.v.Beethoven
13	Für Elise	L.v.Beethoven
14	Marcia alla Turca	L.v.Beethoven
15	Piano Sonate op.13 "Pathétique" 2nd mov.	L.v.Beethoven
16	Piano Sonate op.27-2 "Mondschein" 1st mov.	L.v.Beethoven
17	Piano Sonate op.49-2 1st mov.	L.v.Beethoven
18	Impromptu op.90-2	F.P.Schubert
19	Moments Musicaux op.94-3	F.P.Schubert
20	Frühlingslied op.62-2	J.L.F.Mendelssohn
21	Jägerlied op.19b-3	J.L.F.Mendelssohn
22	Fantaisie-Impromptu	F.F.Chopin
23	Prelude op.28-15 "Raindrop"	F.F.Chopin
24	Etude op.10-5 "Black keys"	F.F.Chopin
25	Etude op.10-3 "Chanson de l'adieu"	F.F.Chopin

No.	Title	Composer
26	Etude op.10-12 "Revolutionary"	F.F.Chopin
27	Valse op.64-1 "Petit chien"	F.F.Chopin
28	Valse op.64-2	F.F.Chopin
29	Valse op.69-1 "L'adieu"	F.F.Chopin
30	Nocturne op.9-2	F.F.Chopin
31	Träumerei	R.Schumann
32	Fröhlicher Landmann	R.Schumann
33	La prière d'une Vierge	T.Badarzewska
34	Dolly's Dreaming and Awakening	T.Oesten
35	Arabesque	J.F.Burgmüller
36	Pastorale	J.F.Burgmüller
37	La chevaleresque	J.F.Burgmüller
38	Liebesträume Nr.3	F.Liszt
39	Blumenlied	G.Lange
40	Barcarolle	P.I.Tchaikovsky
41	Melody in F	A.Rubinstein
42	Humoresque	A.Dvorák
43	Tango (España)	I.Albéniz
44	The Entertainer	S.Joplin
45	Maple Leaf Rag	S.Joplin
46	La Fille aux Cheveux de Lin	C.A.Debussy
47	Arabesque 1	C.A.Debussy
48	Clair de lune	C.A.Debussy
49	Rêverie	C.A.Debussy
50	Golliwog's Cakewalk	C.A.Debussy

MEMO



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