

Clavinova

CLP-175 CLP-170 CLP-150

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)

Fund	ction	Value		e page in the r's Manual
			CLP-175	CLP-170/150
Voice selection		Grand Piano 1	30	28
Split mode		Off	37	35
Split point		F#2	38	36
Reverb On/Off		ON	33	31
Chorus On/Off		per voice	33	31
Brilliance mode		Normal	32	30
iAFC ON/OFF (CL	P-175/170)	ON	34	32
	Time signature	4/4		
Metronome	Volume	100	39	37
	Voice	BellOff		
Tempo		120	27, 39, 58	25, 37, 56
Transpose		0	94	92
Song select		Preset song [NewSong]	26, 40, 57	24, 38, 55
Song balance		Song balance slider value at power-on	47	45
		Extra track channel: 3	45	43
Recording mode		Start: Normal	43	41
		End: Replace	44	42
Character code		International	56	54

■ Song setting

Function	Value		e page in the r's Manual
		CLP-175	CLP-170/150
Correcting note timing (Quantize)	Off	75	73
Swing rate (SwingRate)	50%	75	73
Specifying whether playback starts immediately along with the first voicing (QuickPlay)	On	76	74
Auditioning the channels (ChannelListen)	_	76	74
Deleting data from each channel (ChannelClear)	_	76	74
Specifying the range and playing back repeatedly (FromToRepeat)	RepeatOff	76	74
Playing back the phrase specified by the phrase mark (PhraseMark)	RepeatOff	77	75
Playing back a song repeatedly (SongRepeat)	Off	77	75

■ Metronome setting

Function	Value		e page in the r's Manual
		CLP-175	CLP-170/150
Setting the metronome time signature (TimeSignature)	4/4	78	76
Setting the metronome volume level (MetronomeVolume)	100	78	76
Selecting the metronome voice (MetronomeSound)	BellOff	78	76

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

■ Voice setting

Function	Value		e page in the r's Manual
		CLP-175	CLP-170/150
Octave (Octave)	per voice	80	78
Volume level (Volume)	per voice	80	78
Position of right and left channels (Pan)	per voice	80	78
Fine pitch adjustment (only in Dual mode) (Detune)	per voice	80	78
Reverb type (ReverbType)	per voice	81	79
Reverb depth (ReverbSend)	per voice	81	79
Chorus type (ChorusType)	per voice	81	79
Chorus depth (ChorusSend)	per voice	81	79
Chorus on/off (ChorusOnOff)	per voice	82	80
Select the DSP type [DSP Type (DSP)]	per voice	82	80
Set the speed of the vibraphone vibrato effect (VibeRotorSpeed(RotorSpeed))	per voice	82	80
Turn the vibraphone vibrato effect on/off [VibeRotorOnOff (RotorOnOff)]	per voice	83	81
Adjust the speed of the rotary speaker [RotarySpeed (Rot.Speed)]	per voice	83	81
Adjust the DSP effect depth (DSPDepth)	per voice	83	81
Adjust the brightness of the sound (Brightness)	per voice	83	81
Adjust the resonance effect [HarmonicContent (Harmonic)]	per voice	83	81
Adjust the low-range frequency of the equalizer [EQ LowFreq. (EQ L.Freq)]	per voice	84	82
Adjust the low-range gain (boost/cut) of the equalizer (EQ LowGain)	per voice	84	82
Adjust the high-range frequency of the equalizer [EQ HighFreq. (EQ H.Freq)]	per voice	84	82
Adjust the high-range gain (boost/cut) of the equalizer (EQ HighGain)	per voice	84	82
Touch sensitivity (TouchSense)	per voice	85	83
Right pedal function (RPedal)	per voice	85	83
Center pedal function (MPedal)	per voice	85	83
Left pedal function (LPedal)	per voice	86	84
Auxiliary pedal function (AuxPedal)	per voice	86	84

■ iAFC setting (CLP-175/170)

Function	Value		e page in the r's Manual
		CLP-175	CLP-170
Select the iAFC type (iAFC Type)	DynDmpEfx:Semi- Concert SpatialEnsEfx/ NaturalSnd- Brd:Medium	87	85
Adjust the iAFC depth (iAFC Depth)	106	87	85
Calibrate (automatically adjust) (Calibration)	_	88	86
Restore the basic iAFC settings (iAFC Default)	_	88	86

■ MIDI setting

Function	Value		e page in the r's Manual
		CLP-175	CLP-170/150
MIDI transmit channel (MidiOutChannel)	Main:Ch1, Left:Ch2, Layer:Ch3, LeftLayer:Ch4	90	88
MIDI receive channel (MidiInChannel)	Ch1–16: Song, Ch17: Keyboard, Ch18: Main, Ch19: Left, Ch20: Layer, Ch21: LeftLayer, Others: Off	90	88
Local control on/off (LocalControl)	On	91	89
Selecting performance from the keyboard or song data for MIDI transmission (MidiOutSelect)	Keyboard	91	89
Type of data received via MIDI (ReceiveParameter)	All data: On	91	89
Type of data transmitted via MIDI (TransmitParameter)	All data: On	91	89
Transmitting the initial settings (InitialSetup)	-	92	90
Voice data bulk dump (VoiceBulkDump)	_	92	90

■ Other settings

Function	Value		e page in the r's Manual
		CLP-175	CLP-170/150
Selecting a touch response (TouchResponse) Fixed volume	Medium 64	93	91
Fine tuning of the pitch (Tune)	A3=440.0Hz	93	91
Selecting a tuning curve for a piano voice (PianoTuningCurve)	Stretch	93	91
Selecting a scale (Scale) Root note	Equal C	94	92
Specifying the Split Point (SplitPoint)	F#2	94	92
Change the key (Transpose) Transposition amount	Master 0	94	92
Adjusting the depth of the Soft pedal (SoftPedalDepth)	5	95	93
Depth of string resonance (StringResonanceDepth)	5	95	93
Depth of sustain sampling for the damper pedal (SustainSamplingDepth)	5	95	93
Specify the volume of the key-off sound (KeyOffSamplingDepth)	5	95	93
Selecting a pedal function for vibraphone (VibraphonePedalMode)	PianoLike	95	93
Assign the SONG [START/STOP] function to the pedal (PedalStart/Stop)	All pedals : Off	96	94
Selecting a type of auxiliary pedal (AuxPedalType)	Make	96	94
Setting the point at which the damper pedal starts to affect the sound (HalfPedalPoint)	0	96	94
Pitch bend range (PitchBendRange)	2	96	94
Switch the speaker on/off (Speaker)	Normal (HeadphoneSW)	97	95
	Transpose:Off		
	Main/LeftVoice:Off		
Selecting the items stored at shutdown (MemoryBackUp)	Metronome Setting:Off	97	95
	OtherSetting:Off		
	Others:On		
Restoring the normal (default) settings (FactorySet)	MemorySong Excluded	97	95

XG Voice List / XG Voice-Liste / Liste des voix XG / Lista de sonidos XG

• When you specify a program change as a number in the range of 0-127, specify a number that is one less than the program number listed below. For example, to specify program number 128, you would specify program change 127.

Fast Decay Double Attack Bright

■ Bank Select MSB=00

Instrument		Book 0		_	KSP	Stereo		Single		Slow	_	Fast Decay	4	Double Attack	В	Bright		_	Dark	_		R	esonant	Α	ttack
Instrument Group	Pgm#	Bank 0 Bank Select LSB=00	1	Ε		Bank	3 E	Bank 6	E	Bank 8	Е	Bank 12 E	E	Bank 14 E	Ш	Bank 16 E	Bank 17	E		E	Bank 19	E	Bank 20 E		Bank 24
iano	1 2	Acoustic Grand Piano Bright Acoustic Piano	GrandPno BritePno	2	GrndPnoK 1 BritPnoK 1				-		4		4		H				MelloGrP	2		+		H	
	3	Electric Grand Piano Honky-tonk Piano	El.Grand	2	ElGrPnoK 2 HnkyTnkK 2						#		1		ŧ							Ŧ		I	
	5	Electric Piano 1	E.Piano1	2	El.Pno1K 1								+						MelloEP1	2					
	7	Electric Piano 2 Harpsichord	E.Piano2 Harpsi.	1	El.Pno2K 1 Harpsi.K 1		\rightarrow		+		\dashv		+		+			\dashv		Н		+		+	
Chromatic		Clavi Celesta	Clavi. Celesta	2	Clavi K 1		_				4		1		ļ							1			
Percussion	10	Glockenspiel	Glocken	1							#		#									I			
	11	Vibraphone	Vibes	2	Vibes K 1		-		+		+		+		+			-		Н		+		+	
		Marimba Xylophone	Marimba Xylophon	1	MarimbaK 1						4		7		H					П				H	
	15	Tubular Bells	TubulBel	1							#		#		t							#		I	
Organ	16	Dulcimer Drawbar Organ 1		1			-		\dashv		\dashv		+		+			\dashv		Н		+		Ŧ	
	18	Percussive Organ Rock Organ		1 2							4		4		H									70	0sPcOr1
	20	Church Organ 1	ChrchOrg	2							#		#		t							İ		I	
	22	Reed Organ Accordion	Acordion	2									+												
		Hamonica Tango Accordion		2			-		+		+		+		+			-		Н		+		+	
Guitar	25	Acoustic Guitar (nylon) 1 Acoustic Guitar (steel)	NylonGtr	1			_				\dashv		7			lylonGt2 1 teelGt2 1						+			
	27	Electric Guitar (jazz)	Jazz Gtr	1							#		#			itoeidiz i			MelloGtr	1		İ			
		Electric Guitar (clean) Electric Guitar (muted)		1			+		\dashv		\dashv		+		+			\dashv		Н		+		+	
	30	Overdriven Guitar Distortion Guitar		1					4		4		7		Ŧ							1		Ŧ	
	32	Guitar Harmonics	GtrHarmo	1							_		#									1			
Bass	34	Acoustic Bass Electric Bass (finger)	FngrBass	1			-		+		+		+		۰			-	FingrDrk	2		+		۰	
	35 36	Electric Bass (pick) Fretless Bass	PickBass	1					4		4		4		F			4						H	
	37	Slap Bass 1 Slap Bass 2	SlapBas1	1									1		T							1		ľ	
	39	Synth Bass 1	SynBass1	1															SynBa1Dk	1	SynBa2Dk 1		astResB 1	A	cidBass
Strings	40	Synth Bass 2 Violin		2				MelloSBa		Slow VIn	1	Seq Bass 2	J		H				ClkSynBa	2	SynBa2Dk 1				
-	42	Viola Cello		1											F							I			
	44	Contrabass	Contrabs	1									#									I			
	45 46	Tremolo Strings Pizzicato Strings		1			-		H	SlwTrStr	1		+		H			-		Н		+		H	
	47	Orchestral Harp Timpani	Harp	1			Ŧ		1		1		1		F							T		I	
Ensemble	49	String Ensemble 1 String Ensemble 2	Strings1	1		S.Strng S.SlwS				Slow Str	1 2		1		ļ							1		Aı	rco Str 2
	51	Synth Strings 1	Syn.Str1	2		U.OIWO				LegatoSt			#		t							t			
	53	Synth Strings 2 Choir Aahs	ChoirAah	2		S.Choir	2		+		\dashv		+		С	h.Aahs2 2		\dashv		Н		+		H	
	54	Voice Oohs Synth Voice	VoiceOoh	1							4		1												
	56	Orchestra Hit	Orch.Hit	2							#		#		Ļ		D : T					İ			
Brass	58	Trumpet Trombone	Trombone	1					-		+		+				BriteTrp	2	Trmbone2	2		+			
	59	Tuba Muted Trumpet	Tuba	1							4		7		Τι	uba 2 1								H	
	61	French Horn Brass Section 1	Fr. Horn	2			_	FrHrSolo	1		#		#		ļ							#			
	63	Synth Brass 1	SynBrss1	1					1			Quack Br 2			t							R	ezSynBr 2	Po	olyBrss 2
Reed	64 65	Synth Brass 2 Soprano Sax		1			-		+		+		+		+				Soft Brs	2		+		+	
	66	Alto Sax Tenor Sax	Alto Sax	1					4		4		1		ļ			4				1			
	68	Baritone Sax	Bari.Sax	1							_		#									I			
	70	Oboe English Horn	Eng.Horn	1									+												
		Bassoon Clarinet	Bassoon Clarinet	1					-		\dashv		+		+			-		Н		+		H	
Pipe	73	Piccolo Flute	Piccolo	1							\dashv		1		Ŧ							1			
	75	Recorder	Recorder	1							#		#		t							#			
	76 77	Pan Flute Blown Bottle	Bottle	2		-	\rightarrow		+		\dashv		+		+			\dashv		Н		+		+	
		Shakuhachi Whistle		2							4		7		H									H	
0 11 1	80	Ocarina	Ocarina	1			=	0 1 10		110			#		t						01 1				
Synth Lead	82	Lead 1 (square) Lead 2 (sawtooth)	Saw Ld	2				SquarLd2 Saw Ld 2	1 1	ThickSaw	2		+						Hollow Dyna Saw	1	Shroud 2 Digi Saw 2	2 B	ig Lead 2	Н	leavySyn 2
	84	Lead 4 (chiff)	Chiff Ld	2					I		I		1		F							I		ı	
	85	Lead 5 (charang)	CharanLd	2					1		1		ı		F							T		Q.	ynthAah 2
	87	Lead 7 (fifths)	Fifth Ld	2																				3	y in Mail 2
Synth Pad	89	Lead 8 (bass+lead) Pad 1 (new age)	NewAgePd	2											Т	ig&Low 2									
	90	Pad 2 (warm) Pad 3 (polysynth)	Warm Pad	2					I		7		1		T	hickPad 2	Soft Pad	2	Sine Pad	2		Ŧ		F	
	92	Pad 4 (choir)	ChoirPad	2					1						F									I	
	94	Pad 5 (bowed) Pad 6 (metallic)	MetalPad	2									J		ı										
	96	Pad 8 (sweep)		2			Ŧ		1		1		1		F							S	hwimmer 2	Ŧ	
Synth Effects	97	FX 1 (rain) FX 2 (soundtrack)	Rain	2									ı		F									ı	
	99	FX 3 (crystal)	Crystal	2								SynDrCmp 2		Popcorn 2	ı					2					
	101	FX 4 (atmosphere) FX 5 (brightness)	Bright	2									1		H				WarmAtms	2	HollwRls 2	1			
	102	FX 6 (goblins)	Goblins	2						Echoes 2	,		Į,	Echo Pan 2	Ţ							T		I	
-Al:	104	FX 8 (sci-fi)	Sci-Fi	2									ď	2 2	f										
Ethnic	105 106	Banjo	Banjo	1											f										
	108	Shamisen Koto	Koto	1			Ŧ		I		Ī		I		F									H	
	109	Kalimba	Kalimba	1 2									1		ı							ı		ı	
	111		Fiddle	1											f										
Percussive	113	Shanai Tinkle Bell	TnklBell	1																					
	114	Agogo Steel Drums	Agogo SteelDrm	2					I		I		I		H										
	116	Woodblock Taiko Drum	Woodblok	1									1		I							1		ı	
	118	Melodic Tom 1	MelodTom	2											H										
	119	Synth Drum Reverse Cymbal	Syn Drum	1					1		1		1		F							I		H	
	121		FretNoiz	2									1		T							T		T	
Sound Effects	122	Diodili NUISE							1				4		н										
Sound Effects	122 123	Seashore		2									_		-										
Sound Effects	122 123 124 125	Seashore Bird Tweet Telephone Ring	Tweet	2																H					
Sound Effects	122 123 124 125 126	Seashore Bird Tweet	Tweet Telphone	2																					

Instrument Group	Pgm#	Bank 0 Bank Select LSB=00	Bank 0	Е	Release Bank 25		Bank 27 E		E	Detune 1 Bank 32	Е	Detune 2 Bank 33	Ε	Detune 3 Bank 34	Е	Octave 1 Bank 35	Е	Octave 2 Bank 36	Е	5th 1 Bank 37	Ε	5th 2 Bank 38		Bend Bank 39	\neg	Futti Bank 40
iano	1 2	Acoustic Grand Piano Bright Acoustic Piano	GrandPno BritePno	2																					F	PianoStr
	3	Electric Grand Piano Honky-tonk Piano	El.Grand	2					F	Det.CP80	2								Ħ				4		L	_ayerCP1
	5 6	Electric Piano 1 Electric Piano 2	E.Piano1 E.Piano2	2					F	Chor.EP1 Chor.EP2	2	DX Hard	2	DXLegend	2											HardEI.P DX Phase
	7	Harpsichord Clavi	Harpsi.	1	Harpsi.2		aviWah 2		F							Harpsi.3	2									
hromatic ercussion		Celesta Glockenspiel	Celesta	1					F		F														#	
	11	Music Box Vibraphone	MusicBox Vibes	2					F		F								Ħ				4		#	
	13	Marimba Xylophone	Marimba Xylophon	1					F		F														7	
	15	Tubular Bells Dulcimer	TubulBel	1					Ħ							Dulcimr2	2								#	
rgan	17	Drawbar Organ 1 Percussive Organ	DrawOrgn	1					F	DetDrwOr DetPrcOr	2	60sDrOr1 Lite Org	2	60sDrOr2	2	70sDrOr1	2	DrawOrg2	2		2	Even Bar	2		1	16+2"2/3
	19	Rock Organ Church Organ 1	RockOrgn	2					ŧ	ChurOrg3	2	Lite Olg	Ĺ			ChurOrg2	2			reicoigz	Ĺ					NotreDam
	21	Reed Organ Accordion	ReedOrgn	1 2					ŧ	Accordit	2					Ondroigz	_									Puff Org
	23	Hamonica Tango Accordion	Harmnica	1 2					t	Harmo. 2	2														#	
uitar	25	Acoustic Guitar (nylon) 1 Acoustic Guitar (steel)	NylonGtr		NylonGt3	2			t							12StrGtr	2									Nyln&Stl
	27	Electric Guitar (jazz) Electric Guitar (clean)		1					t	Jazz Amp ChorusGt	2					123000	_								ľ	чуппосоц
	29	Electric Guitar (muted) Overdriven Guitar	Mute.Gtr Ovrdrive	1					ŧ	Onordact	Ĺ														F	-unkGtr1
		Distortion Guitar Guitar Harmonics	Dist.Gtr GtrHarmo	1					ŧ																F	eedbkGt
ass	33	Acoustic Bass Electric Bass (finger)	Aco.Bass	1		Ele	angeBa 2		ŧ														#			JazzRthm Ba&DstEG
	35	Electric Bass (pick)	PickBass Fretless	1		Гю	angeba 2	MutePkBa	1	Fretles2	2	Fretles3	2	Fretles4	2											Jakusieu
	37	Fretless Bass Slap Bass 1	SlapBas1	1		Re	esoSlap 1		ŧ	PunchThm	2	rielless	_	rieues4	_										#	
	39	Slap Bass 2 Synth Bass 1 Synth Bass 2	SynBass1	1						SmthComP	2					Clv Bass	2									TechnoBa
trings		Synth Bass 2 Violin Viola	Violin	1						SmthSynB	2															ModulrBa
	42 43 44	Cello	Cello	1 1							f															
	45	Contrabass Tremolo Strings	Trem.Str	1 1																					5	Susp.Str
	47	Pizzicato Strings Orchestral Harp	Harp	1 1					t																Ì	YangChin
nsemble	49	Timpani String Ensemble 1 String Ensemble 2	Strings1	1 1					t							60sStrng	2								(Orchestr Warm Str
	51	Synth Strings 1 Synth Strings 2	Syn.Str1	2		Re	eso Str 2		ŧ																ľ	Warm Su
	53	Choir Aahs	ChoirAah	1					t	MelChoir	2															ChoirStr
	55	Voice Oohs Synth Voice	SynVoice	1					t																5	SyVoice2
rass	57	Orchestra Hit Trumpet	Trumpet	1					t	Warm Trp	2					OrchHit2	2								#	
	58 59	Trombone Tuba	Trombone Tuba	1					£																#	
	61	Muted Trumpet French Horn	Fr. Horn	1					t	FrHorn 2	1									HornOrch	2				_	
	62 63	Brass Section 1 Synth Brass 1	BrasSect SynBrss1	2		Sy	nBrss3 2			JumpBrss	2					Tp&TbSec	2									BrssSec2
eed	65	Synth Brass 2 Soprano Sax	SprnoSax	1					t																	SynBrss4
		Alto Sax Tenor Sax		1					£																	Sax Sect BrthTnSx
	69	Baritone Sax Oboe	Oboe	2					t																#	
		English Horn Bassoon	Bassoon	1					£																1	
ipe	73	Clarinet Piccolo	Piccolo	1					+																_	
	75	Flute Recorder		1					H																_	
	77	Pan Flute Blown Bottle	Bottle	2					+																+	
	79	Shakuhachi Whistle	Whistle	2																					-	
ynth Lead	81	Ocarina Lead 1 (square)	SquareLd	2					+																+	
	83	Lead 2 (sawtooth) Lead 3 (calliope)	CaliopLd	2	WaspySyn 2	2			+																F	PulseSaw
	85	Lead 4 (chiff) Lead 5 (charang)	CharanLd	2					\blacksquare																	
		Lead 6 (voice) Lead 7 (fifths)		2					H							Big Five	2						+		+	
ynth Pad	89	Lead 8 (bass+lead) Pad 1 (new age)	Bass&Ld NewAgePd	2					H																-	
	90	Pad 2 (warm) Pad 3 (polysynth)		2					F		H								H				-		4	
	92	Pad 4 (choir)	ChoirPad	2					F																-	
	94	Pad 6 (metallic) Pad 7 (halo)	MetalPad	2					F		H												-		1	
ynth Effects	96	Pad 8 (sweep) FX 1 (rain)		2		Co	onverge 2		F		H								H				4		4	
	98	FX 2 (soundtrack) FX 3 (crystal)	SoundTrk Crystal	2		Pro	ologue 2		F							RndGlock	2									GlockChi
	100	FX 4 (atmosphere)	Atmosphr	2					F																1	Nylon EP
	102	FX 6 (goblins) FX 7 (echoes)	Goblins	2					F														1		1	
hnic	104	FX 8 (sci-fi) Sitar	Sci-Fi Sitar	2					F	DetSitar	2					Sitar 2	2						1		1	
	106	Banjo Shamisen	Banjo	1				MuteBnjo	1														4		7	
	108	Koto Kalimba	Koto	1					F																#	
	110	Bagpipe Fiddle	Bagpipe Fiddle	2					F		F		ĺ						F							
ercussive	112	Shanai Tinkle Bell	Shanai	1					F		F															
,	114	Agogo Steel Drums	Agogo	2																						
	116	Woodblock Taiko Drum	Woodblok	1							Í															
	118	Melodic Tom 1	MelodTom	2							ĺ															
ound E#	120	Synth Drum Reverse Cymbal Guitar Fret Noise		1																						
ound Effects	122	Breath Noise	BrthNoiz	2							f															
	124	Seashore Bird Tweet	Tweet	2							ĺ															
	126	Telephone Ring Helicopter	Helicptr	1																						
		Applause Gunshot		1																						

nstrument		Bank 0		П		_		П	Velo-Swite		Xfade	_	other wave					_								_	
Group	Pgm#	Bank Select LSB=00	Bank 0	E			nk 42	E	Bank 43	E	Bank 45	E	Bank 64	E	Bank 65	E	Bank 66	E	Bank 67	E	Bank 68	E	Bank 69	E	Bank 70	E	Bank 71
ano	2		GrandPno BritePno	2	Dream 2																						
			El.Grand HnkyTonk	2	LayerCP2 2																					\exists	
	5	Electric Piano 1	E.Piano1	2	DX+Analg 2	DXK	otoEP	2			VX EI.P1 VX EI.P2	2	60sEl.P1	1													
	7	Harpsichord	Harpsi. Clavi.	1 2									PulseClv	1	PierceCl	2											
romatic rcussion	9	Celesta	Celesta	1									- diocon		1 1010001												
100331011	11	Music Box Vibraphone	MusicBox	2							HardVibe		Orgel	2													
	13	Marimba	Marimba	1							riaiuvibe	Ĺ	SineMrmb	2													
	15	Tubular Bells	TubulBel	1																							
gan	17	Dulcimer Drawbar Organ 1	DrawOrgn	1									Organ Ba	1	70sDrOr2	2	CheezOrg	2	DrawOrg3	2							
		Percussive Organ Rock Organ	PercOrgn RockOrgn	1 2									RotaryOr	2	SloRotar	2	FstRotar	2								\dashv	
	20	Church Organ 1	ChrchOrg	2									OrgFlute	2	TrmOrgFl	2											
	22	Accordion	Acordion Harmnica	2																							
itar	24		TangoAcd	2					VelGtHrm	2		F	TngoAcd2	2													
itai	26	Acoustic Guitar (steel)	SteelGtr	1	Stl&Body 2				veida ii iii	_																	
	28	Electric Guitar (clean)	CleanGtr	1																							
	30	Overdriven Guitar	Ovrdrive	1	MuteStIG 2					2	Jazz Man	1															
	32	Guitar Harmonics	GtrHarmo	1	FeedbkG2 2										GtFeedbk	1	GtrHrmo2	1									
ss	34		Aco.Bass FngrBass	1				Н	FngrSlap	2	VXUprght FngBass2	2			Mod.Bass	2		=		Н						\dashv	
	35 36	Electric Bass (pick) Fretless Bass	PickBass Fretless	1								H														-	
	37			1					VeloSlap	2																	
	39	Synth Bass 1	SynBass1	1 2	DX Bass 2								Orbiter X WireBa	2	Sqr.Bass	1	RubberBa	2									
ings	41		Violin Viola	1	DX Buod							E	X Wilde														
	43	Cello	Cello	1																							
	45	Tremolo Strings	Trem.Str	1																							
	47	Orchestral Harp	Harp	1																							
semble		Timpani String Ensemble 1		1	Orchstr2 2	Trem	Orch	2			Velo.Str	2														\dashv	
	50	String Ensemble 2	Strings2		Kingdom 2								70s Str Syn Str4	1 2	Strings3 Syn Str5	1 2											
	52	Synth Strings 2 Choir Aahs	Syn.Str2 ChoirAah	2									,		,												
	54	Voice Oohs	VoiceOoh SynVoice	1	Choral 2								AnaVoice	1													
	56	Orchestra Hit	Orch.Hit	2	Critital 2									2													
ISS	58	Trombone	Trombone	1																							
		Muted Trumpet	Mute.Trp	1																							
	62	Brass Section 1	BrasSect		Hi Brass 2	Mello	oBrs	2																			
	63 64	Synth Brass 1 Synth Brass 2	SynBrss1 SynBrss2	2	ChoirBrs 2						AnVelBr1 AnVelBr2			2												\dashv	
ed	65	Soprano Sax	SprnoSax Alto Sax	1					HyprAlto	2																	
	67	Tenor Sax	TenorSax Bari.Sax	1	SoftTenr 2				,,,				TnrSax 2	1													
	69	Oboe	Oboe	2																							
	71	Bassoon	Eng.Horn Bassoon	1																							
ie	73	Clarinet Piccolo	Piccolo	1																							
	75	Recorder	Recorder	1																							
	77	Pan Flute Blown Bottle	Bottle	2				Н				H						=								\dashv	
		Shakuhachi Whistle	Shakhchi Whistle	2																						=	
nth Lead	80 81	Ocarina Lead 1 (square)		1				Н				F	Mellow	2	SoloSine	2	SineLead	1								4	
	82		Saw Ld	2	Dr. Lead 2						VeloLead	2				2											
	84	Lead 4 (chiff)	Chiff Ld	2									Rubby	2		2											
	86	Lead 5 (charang) Lead 6 (voice) Lead 7 (fifths)	Voice Ld	2									DistLead Vox Lead	2	vviieLeau	_											
	88	Lead 8 (bass+lead)	Bass&Ld	2									Fat&Prky	2	Soft Wrl	2											
nth Pad	90	Pad 2 (warm)	NewAgePd Warm Pad	2									Horn Pad	2	RotarStr	2											
	92	Pad 4 (choir)	PolySyPd ChoirPad	2									Heaven	2			Ana. Pad Itopia	2	SquarPad CC Pad	2						1	
		Pad 5 (bowed) Pad 6 (metallic)	BowedPad MetalPad	2									Glacier Tine Pad	2	GlassPad Pan Pad	2										\dashv	
		Pad 7 (halo) Pad 8 (sweep)	Halo Pad	2								F		2			Celstial	2								4	
nth Effects	97	FX 1 (rain)	Rain	2							ClaviPad	2	HrmoRain Ancestrl	2	AfrenWnd	2	Carib	2									
	99	FX 3 (crystal)	Crystal		ClearBel 2	Chor	rBell	2					SynMalet		SftCryst	2	LoudGlok AtmosPad	2	ChrstBel Planet	2	VibeBell	2	DigiBell	2	AirBells	2	BellHarp
	101	FX 5 (brightness)	Bright	2									FantaBel	2						2	T.11						Glisten
	103	FX 7 (echoes)	Echoes	2									GobSynth EchoBell	2			Ring Pad SynPiano	2			ToHeaven StarDust	2	Reso&Pan	2	Night	2	disten
nic	105	Sitar	Sitar	2				Н					Starz	2													
				1														=								-	
	108	Koto Kalimba	Koto	1																							
	110	Bagpipe	Bagpipe	2		F				ĺ		f						Í				Í					
cussive	112	Shanai	Shanai	1									Shanai 2	1													
cussive	114	Agogo	Agogo	2																							
	116	Woodblock	Woodblok	1								f															
	118	Taiko Drum Melodic Tom 1	MelodTom	1 2								f	Mel Tom2	1	Real Tom		Rock Tom	2								J	
	119	Synth Drum	Syn Drum RevCymbl	1									Ana Tom	1		2											
und Effects	121	Guitar Fret Noise	FretNoiz	2								ĺ						ĺ									
	123	Seashore	Seashore	2								ĺ						Í									
	125	Bird Tweet Telephone Ring	Telphone	1																							
	127	Applause	Applause	1																							
	128	Gunshot	Gunshot	1																							

■ Bank Select MSB=64

Instrument Group	Pgm#	Bank 0 Bank Select LSB=00	Bank 0	E	Bank 72	E	Bank 96	E	Bank 97	E	Bank 98	Ε	Bank 99	E	Bank 100	E	Bank 101	E
Piano	2	Acoustic Grand Piano Bright Acoustic Piano	GrandPno BritePno	2				E										E
	4	Electric Grand Piano Honky-tonk Piano	El.Grand HnkyTonk E.Piano1	2				H										
	6	Electric Piano 1 Electric Piano 2	E.Piano2	2														
Chromotio	8	Harpsichord Clavi	Harpsi. Clavi.	1 2 1														
Chromatic Percussion	10	Celesta Glockenspiel	Glocken	1				Ė										
	11	Music Box Vibraphone	MusicBox Vibes	1					D.F. L.									
	13 14	Marimba Xylophone	Marimba Xylophon	1					Balimba		Log Drum	2						
	15 16	Tubular Bells Dulcimer	TubulBel Dulcimer	1			ChrchBel Cimbalom	2	Carillon Santur	2								
Organ	17 18	Drawbar Organ 1 Percussive Organ	DrawOrgn PercOrgn	1				L										
	19 20	Rock Organ Church Organ 1	RockOrgn ChrchOrg	2														
	21 22	Reed Organ Accordion	ReedOrgn Acordion	1				H										
	23 24	Hamonica Tango Accordion	Harmnica TangoAcd	1														
Guitar	25 26	Acoustic Guitar (nylon) 1 Acoustic Guitar (steel)	NylonGtr SteelGtr	1			Ukulele Mandolin	2										
	27 28	Electric Guitar (jazz) Electric Guitar (clean)	Jazz Gtr CleanGtr	1				H										H
	29 30	Electric Guitar (muted) Overdriven Guitar	Mute.Gtr Ovrdrive	1				H										
	31 32	Distortion Guitar Guitar Harmonics	Dist.Gtr GtrHarmo	1				F										F
Bass	33 34	Acoustic Bass Electric Bass (finger)	Aco.Bass FngrBass	1				F										F
	35 36	Electric Bass (pick) Fretless Bass	PickBass Fretless	1			SynFretI	2	SmthFrtl	2								
	37 38	Slap Bass 1 Slap Bass 2	SlapBas1 SlapBas2	1			Oyin ion	Ì	Oman ra	Ì								
	39 40	Synth Bass 1 Synth Bass 2	SynBass1 SynBass2	1			Hammer	2										
Strings	41	Violin	Violin Viola	1				F										
	43	Viola Cello	Cello	1				E										
	44 45	Contrabass Tremolo Strings	Contrabs Trem.Str	1				L										
	46 47	Pizzicato Strings Orchestral Harp	Pizz.Str Harp	1														
Ensemble	48 49	Timpani String Ensemble 1	Timpani Strings1	1														
	50 51	String Ensemble 2 Synth Strings 1	Strings2 Syn.Str1	1				H										
	52 53	Synth Strings 2 Choir Aahs	Syn.Str2 ChoirAah	2				H										
	54 55	Voice Oohs Synth Voice	VoiceOoh SynVoice	1														
Brass	56 57	Orchestra Hit Trumpet	Orch.Hit Trumpet	2		F		F										F
	58 59	Trombone Tuba	Trombone Tuba	1				F										
	60 61	Muted Trumpet French Horn	Mute.Trp Fr. Horn	1				F										
	62	Brass Section 1 Synth Brass 1	BrasSect SynBrss1	1				F										F
Reed	64 65	Synth Brass 2 Soprano Sax	SynBrss2 SprnoSax	1				F										
need	66	Alto Sax	Alto Sax	1														
	67 68	Tenor Sax Baritone Sax	TenorSax Bari.Sax	1														
	69 70	Oboe English Horn	Oboe Eng.Horn	1														
	71 72	Bassoon Clarinet	Bassoon Clarinet	1														
Pipe	73 74	Piccolo Flute	Piccolo Flute	1														
	75 76	Recorder Pan Flute	Recorder PanFlute	1				H										
	77 78	Blown Bottle Shakuhachi	Bottle Shakhchi	2														
	79 80	Whistle Ocarina	Whistle Ocarina	1				H										
Synth Lead	81 82	Lead 1 (square) Lead 2 (sawtooth)	SquareLd Saw Ld	2			Seq Ana.	2										
	83 84	Lead 3 (calliope) Lead 4 (chiff)	CaliopLd Chiff Ld	2														
	85 86	Lead 5 (charang) Lead 6 (voice)	CharanLd Voice Ld	2				F										F
	87 88	Lead 7 (fifths) Lead 8 (bass+lead)	Fifth Ld Bass&Ld	2				F										
Synth Pad	89 90	Pad 1 (new age) Pad 2 (warm)	NewAgePd Warm Pad	2				F										F
	91 92	Pad 3 (polysynth) Pad 4 (choir)	PolySyPd ChoirPad	2				F										
	93 94	Pad 5 (bowed)	BowedPad MetalPad	2				E										
	95	Pad 6 (metallic) Pad 7 (halo)	Halo Pad	2				Ė										
Synth Effects	96 97	Pad 8 (sweep) FX 1 (rain)	SweepPad Rain	2				L										
	98 99	FX 2 (soundtrack) FX 3 (crystal)	SoundTrk Crystal	2	Gamelmba	2												
	100 101	FX 4 (atmosphere) FX 5 (brightness)	Atmosphr Bright	2			Smokey	2										
	102 103	FX 6 (goblins) FX 7 (echoes)	Goblins Echoes	2			BelChoir	2										
Ethnic	104	FX 8 (sci-fi) Sitar	Sci-Fi Sitar	2			Tambra	2	Tamboura	2								H
	106 107	Banjo Shamisen	Banjo Shamisen	1			Rabab	2	Gopichnt	2	Oud	2						
	108 109	Koto Kalimba	Koto Kalimba	1			Taisho-k	2	Kanoon	2								
	110	Bagpipe Fiddle	Bagpipe Fiddle	2				F										
Percussive	112	Shanai Tinkle Bell	Shanai TnklBell	1			Pungi Bonang	1	Hichriki Altair	2	Gamelan	2	S.Gamlan	2	Rama Cym	2	AsianRel	2
. 5.0433190	114	Agogo Steel Drums	Agogo SteelDrm	2			Jonany	Ĺ			ThaiBell	2	J. Garriali	Ĺ	. папіа Оупі	Ĺ	. romatitudi	Ĺ
	116	Woodblock	Woodblok	1			Castanet	1	GIASTEIC	_	Maidell	_						
	117	Taiko Drum Melodic Tom 1	TaikoDrm MelodTom	2			Gr.Cassa	1										
	119 120	Synth Drum Reverse Cymbal	Syn Drum RevCymbl	1														
Sound Effects	122	Guitar Fret Noise Breath Noise	FretNoiz BrthNoiz	2				H										
	123 124	Seashore Bird Tweet	Seashore Tweet	2				F						ĺ				
	125 126	Telephone Ring Helicopter	Telphone Helicptr	1				F						f		F		
	127	Applause	Applause	1														
	128	Gunshot	Gunshot	1														

SFX Pch# Bank 0 1 CuttingNz 2 CitingNz2 3 4 Str Siap 5 6 7 8 9 10 11 12 13 14 15	E
1 CuttngNz 2 2 CttngNz2 3 3 4 Str Slap 5 6 7 8 9 10 11 12 13 14	1
2 CttngNz2 3 4 Str Slap 5 6 7 8 9 10 11 12 13	÷
4 Str Slap 5 6 7 8 9 10 11 12 13 14	2
5 6 7 8 9 10 11 12 13 14	1
7 8 9 10 11 12 13	Ė
8 9 10 11 12 13 14	н
10 11 12 13 14	Н
11 12 13 14	
12 13 14	н
14	П
	н
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16 17 Fl.KClik	ļ
17 Fl.KClik 18	1
19	
20	Н
22	Н
23	
25	Н
26	
27	н
29	П
30	Н
32	Н
33 Shower	1
	1
36 Stream	2
38 Feed	2
39	Ĺ
40	
42	
43	
44	
46	
47	
49 Dog	1
50 Harra	1
52	1
53	
54 55 Ghost	2
56 Maou	2
57 58	н
59	Н
60	
62	Н
63	
64 65 PhonCall	1
66 DoorSnek	1
I 67 IDoor Slam	1
69 ScratchS	2
70 WindChim	1
71 Telphon2	1
73	П
74 75	н
76	Н
77 78	
78	Н
80	Н
81 CarElgnt 82 CarTSqel	1
	1
84 CarCrash 85 Siren	1
85 Siren 86 Train	1
87 JetPlane	2
88 Starship 89 Burst	2
00 Constor	2
91 Submarin	2
92 93	
93	
93 94 95 96	1
93 94 95 96	
93 94 95 96 97 Laugh	1
93 94 95 96 97 Laugh 98 Scream 99 Punch	1 1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104	1
93 94 95 96 97 100 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 107	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 107	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 102 103 104 105 106 107 108 109 110	1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 108 109 109 101 101 101 101 101 101	1 1 1
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 108 109 110 111 111 111 111 112 113 MchinGun 114 JasserGun	1 1 1 1 1 1 1 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 108 109 110 111 111 111 111 112 113 MchinGun 114 JasserGun	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 108 109 109 101 101 101 101 102 103 104 105 106 107 107 108 109 109 101 101 101 102 103 104 105 106 107 107 108 109 109 109 109 109 109 109 109	1 1 1 1 1 1 1 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 108 109 110 111 111 111 111 112 113 MchinGun 114 JasserGun	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Funch 100 Heart 101 Footstep 102 103 104 105 106 107 108 1101 111 112 LaserGun 115 Xiposion 116 117 118 117 118	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 104 105 106 107 108 110 111 112 113 MchinGun 114 LaserGun 116 Frework 117 118 119 120	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 104 105 106 107 108 110 111 112 113 MchinGun 114 LaserGun 116 Frework 117 118 119 120	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 1107 108 1109 1110 1111 112 MchinGun 114 LaserGun 116 Firework 117 118 119 120 120 121 121	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 107 108 109 110 1112 1113 MchinGun 1114 LaserGun 117 118 119 120 121 122 122 123 124	1 1 1 2 2 2
93 94 95 96 97 Laugh 98 Scream 99 Punch 100 Heart 101 Footstep 102 103 104 105 106 107 108 109 110 111 111 111 112 113 MchinGun 115 Xplosion 116 Frework 117 118 119 119 120 121 121 121 122 123	1 1 1 2 2 2

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

 When you specify a program change as a number in the range of 0-127, specify a number that is one less than the program number listed below. For example, to specify program number 128, you would specify program change 127.

March Marc	Bank S	elect I	MSB (0-127)	127	127	127	127	127	127	127
No. Marcon Marc	Bank S	elect l	LSB (0	J-127)	0	0	0	0	0	0	0
March Marc	Prograi	m Cha	inge (1-128)	1	2	9	17	25	26	28
10					Standard Kit1	Standard Kit2	Room Kit	Rock Kit	Electro Kit	Analog Kit	Dance Kit
14				3	Surdo Mute						
15											
17 14 4 Systab.H	15	D#-1									
19											
19	_		ļ								
20				4							
22			1								
28		A-1									
24 0.0											
25 26 0 0 0 0 0 0 0 0 0	_										
20 0 0 0 0 0 0 0 0 0											
28 EU			0								
29 50 0 0 0 0 0 0 0 0		D#0			Brush Slap						
March Marc									Reverse Cymbal	Reverse Cymbal	Reverse Cymbal
31 20	_		0						11:00	11:00	11:00
32 An			1			Snare Soft 2		Snare Noisy			
						O O O E			Zinai o cinappy Electio	23.0 110.0y T	23.0 100.1110
Section Kick Kock Short	33								Kick 3	Kick 3	Kick Techno Q
Second S						Open Rim Shot H Short					
Solid Soli	_		1			Kink Chart					
38 Di								Kick Gate	Kick Gate Heavy		
Marciago			\vdash				Snare Snapov	Snare Rock	Snare Noisv 2		
40 Et	_						опано опарру				- Constant
14					Snare Tight	Snare Tight H					
48 Gi	_						Tom Room 1	Tom Rock 1	Tom Electro 1		
March Marc				1			Tom Boom 2	Tom Book 2	Tom Flootro 2		
45 Al				1			TOTT HOUTT 2	TOTT HOCK 2	TOTT Electro 2		
High High	_			·			Tom Room 3	Tom Rock 3	Tom Electro 3		
March Marc				1	Hi-Hat Open						
49 C/2 Crash Analog Crash An	_										
50 DZ							Tom Room 5	Tom Rock 5	Tom Electro 5		
51 Did							Tom Doom C	Tam Danis C	Tem Fleetes C		
Section Compare Cymbal Section _						TOTT HOUTT 6	TOTT HOCK 6	TOTTI ETECTIO 6	Tom Analog 6	Totti Arialog 6	
Same Fig. File Cymbal Cup											
Solation Solation	53	F2									
Section Compact Comp											
57 A2										Courball Angles	Comball Apples
58 APZ	_									Cowbell Arialog	Cowbell Analog
Section Sect											
Compart Comp											
Conga H Mute Conga H Mute Conga Analog H Conga Analog H Conga Analog H Conga Analog H Conga Analog M Cong											
63 64 63 Conga H Open Conga Analog M Conga Marcas 2 Conga M Agogo L Marcas 2 Conga M Agogo L Marcas 2 Conga M Agogo L Marcas 2 M Agogo L Marcas 2 Conga M Agogo L Marcas 2 M Agogo L Marcas 2 Conga M Agogo L Marcas 2 C										0	Occupa Academid
64 E3 Conga L Conga Analog L Conga	_		1								
Fig. Fig.											
67 G3 I Agogo H I I Agogo L I			L							J3 -	J
68 G#3 I Agogo L I Agogo L I Agogo L I Agogo L I I Agogo L I I I Agogo L I	_										
69 A3 I Cabasa Maracas Maracas 2 Claves 2 Claves 2 Claves 2 Claves 2 Claves 2 Claves 2 Claves 2 Clave			-								
70 A#3 I Maracas Maracas Maracas Maracas 2 Maracas 2 71 B3 0 Samba Whistle H Samba Whistle L Samba W	_		-								
71 B3 0 Samba Whistle H 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7										Maracas 2	Maracas 2
73 C#4 I Guiro Short I Guiro Long I			0								
74 D4 O Guiro Long Claves Claves Claves Claves 2 Cratch L 2 Scratch L 2	72	C4									
75 D#4 Claves Claves Claves 2 Claves 2 76 E4 Wood Block H E4 Wood Block L E4 Wood Block L E4 E4 Wood Block L E4 E4 Wood Block L E4			Ļ								
76 E4 Wood Block H E4 Wood Block L Scratch H 2 Scratch L 2			0							Clayes 2	Clayer 2
77 F4 Wood Block L Scratch Scratch H 2 Scratch L 2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>OlaVeS 2</td> <td>CiaVes 2</td>										OlaVeS 2	CiaVes 2
78 F#4 Cuica Mute Scratch H 2 Scratch L 2											
80 G#4 1 2 Triangle Mute Image: Open Image: Open <td< td=""><td>78</td><td>F#4</td><td>L</td><td></td><td>Cuica Mute</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	78	F#4	L		Cuica Mute						
81 A4 2 Triangle Open									Scratch L 2	Scratch L 2	Scratch L 2
82 A#4 U Shaker Image: Control of the control of t			L								
83 B4 Jingle Bells Sell Tree			1	2							
84 C5 Image: Bell Tree Image: Bell Tree<											
85 C#5 I											
87 D#5 88 E5 89 F5 90 F#5	85	C#5									
88 E5 I<	86	D5									
89 F5 I 90 F#5 1 I 1 I 1 I 2 I 3 I 4 I 4 I 5 I 4 I 4 I 4 I 5 I 6 I 7 I 8 I 8 I 9 I 1 I											
90 F#5			\vdash								
			\vdash								
	91	G5									

Bank S	oloot I	MCD (n 197\	127	127	127	126	126
				0	0	0	0	0
Bank Select LSB (0-127) Program Change (1-128)		33	41	49	1	2		
MI			Alternate	Jazz Kit	Brush Kit	Symphony Kit	SFX Kit1	SFX Kit2
Note#	Note	Off	Group	JULE KIL	Drush Kit	Cymphony Kit	UI X KILL	OF A RILL
13	C#-1		3					
14	D-1		3					
15 16	D#-1 E-1							
17	F-1		4					
18	F#-1		4					
19	G-1							
20	G#-1 A-1							
22	A#-1							
23	B-1							
24 25	C0 C#0							
26	D0	0						
27	D#0							
28	E0	0						
29 30	F0 F#0	0						
31	G0			Snare Jazz H	Brush Slap 2			
32	G#0							
33	A0				Open Pire Ob 11111	Kick Soft 2		
34 35	A#0 B0				Open Rim Shot Light	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	Otring Clas	Door Slam
39 40	D#1 E1			Snare Jazz M	Brush Tap 2	Band Snare 2	String Slap	Scratch Cut Scratch H 3
41	F1			Ondre dazz W	Tom Brush 1	Barra Griare 2		Wind Chime
42	F#1		1					Telephone Ring 2
43	G1				Tom Brush 2			
44 45	G#1 A1		1		Tom Brush 3			
46	A#1		1		TOTT DIUSTI 3			
47	B1				Tom Brush 4			
48	C2				Tom Brush 5			
49 50	C#2				Tom Brush 6	Hand Cymbal		
51	D#2				TOTT BIUSITO	Hand Cymbal Short		
52	E2					Í	Flute Key Click	Car Engine Ignition
53	F2							Car Tires Squeal
54 55	F#2 G2							Car Passing Car Crash
56	G#2							Siren
57	A2					Hand Cymbal 2		Train
58	A#2							Jet Plane
59 60	B2 C3					Hand Cymbal 2 Short		Starship Burst
61	C#3							Roller Coaster
62	D3							Submarine
63	D#3							
64 65	E3							
66	F#3							
67	G3							
68	G#3						Shower	Laugh
69 70	A3 A#3						Thunder Wind	Scream Punch
71	B3	0					Stream	Heart Beat
72	C4	0					Bubble	Foot Steps
73	C#4	_					Feed	
74 75	D4 D#4	0						
76	E4							
77	F4							
78	F#4							
79 80	G4 G#4		2					
81	G#4 A4		2					
82	A#4							
83	B4							
84	C5						Dog	Machine Gun
85 86	C#5						Horse Bird Tweet 2	Laser Gun Explosion
87	D#5						5.10 1 11001 2	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 panel

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

All 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
1	17	(Hall 2)
1	19	(Hall 1)
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	18	(Sound Board)
4	0	Plate
4	7	GM Plate
4	16	(Plate)
16	0	White Room
17	0	Tunnel
18	0	Canyon
19	0	Basement

■ Chorus

Chorus types that can be selected by panel

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

All 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 Speaker)
67	0	Flanger 1
67	1	Flanger 2
67	7	GM Flanger
67	8	Flanger 3
68	0	Synphonic

■ Variation/Insertion

Variation/insertion effects that can be selected by panel

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

All variation/insertion effects Type MSB | Type LSB | Effect Name

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	18	(Sound Board)
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	Ö	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	(Rotary Speaker)
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 69	2	DIST+ROT SP* OD+ROT SP*
69	3	AMP SIM+ROT SP*
70	0	Tremolo
70	18	(Tremolo)
71	0	Auto Pan
71	19	(Tremolo)
71	26	(Auto Pan)
72	0	Phaser 1
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 82	0	TOUCH WAH1 TOUCH WAH+DIST*
-	2	TOUCH WAH+DIST*
82		TOUCH WAH 2
82 83	8 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* OD+T DELAY*
100 101	0	CMP+DIST+TDLY*
101	1	CMP+DIST+TDLY CMP+OD+T DLY*
101	0	WAH+DIST+TDLY*
102	1	WAH+OD+T DLY*
102	0	V DIST H+TDLY*
103	1	V DIST S+T DLY*
119	0	VIBE VIBRATE**

^{*} Variation only

^{**} Insertion only

• Parameters marked with a • in the "Control" column can be controlled from an AC1 (assignable cotroller 1) etc. However, these only affect insertion type effects.

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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	Rev Delay	0.1mS-99.3mS	0-63	table#5	
12	Density	0-4 (reverb, variation block)	0-4		
		0-2 (insertion block)	0-2		
13	Er/Rev Balance	E63>R - E=R - E <r63< td=""><td>1-127</td><td></td><td></td></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)

Parameter	Display	Value	See Table	Control
Lch Delay	0.1-1486.0ms	1-14860		
Rch Delay	0.1-1486.0ms	1-14860		
Cch Delay	0.1-1486.0ms	1-14860		
Feedback Delay	0.1-1486.0ms	1-14860		
Feedback Level	-63-+63	1-127		
Cch Level	0-127	0-127		
High Damp	0.1-1.0	1-10		
Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
EQ Low Gain	-12-+12dB	52-76		
EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
EQ High Gain	-12-+12dB	52-76		
	Lch Delay Rch Delay Rch Delay Feedback Delay Feedback Level Cch Level High Damp Dry/Wet EQ Low Frequency EQ Low Gain EQ High Frequency	Cch Delay	Lch Delay 0.1-1486.0ms 1-14860 Rch Delay 0.1-1486.0ms 1-14860 Cch Delay 0.1-1486.0ms 1-14860 Feedback Delay 0.1-1486.0ms 1-14860 Feedback Level -63-+63 1-127 Cch Level 0-127 0-127 High Damp 0.1-1.0 1-10 Dry/Wet D63>W - D=W - D <w63< td=""> 1-127 EQ Low Frequency 32Hz-2.0kHz 4-40 EQ Low Gain -12-+12dB 52-76 EQ High Frequency 500Hz-16.0kHz 28-58</w63<>	Lch Delay 0.1-1486.0ms 1-14860 Rch Delay 0.1-1486.0ms 1-14860 Cch Delay 0.1-1486.0ms 1-14860 Feedback Delay 0.1-1486.0ms 1-14860 Feedback Level 0-1-1486.0ms 1-14860 Cch Level 0-127 0-127 High Damp 0.1-1.0 1-10 Dry/Wet D63>W - D=W - D <w63< td=""> 1-127 EQ Low Frequency 32Hz-2.0kHz 4-40 table#3 EQ Low Gain -12-+12dB 52-76 EQ High Frequency 500Hz-16.0kHz 28-58 table#3</w63<>

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< td=""><td>1-127</td><td></td><td>•</td></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
		' '		See Table	Control
	Lch Delay1	0.1-743.0ms	1-7430		
2	Lch Feedback	-63-+63	1-127		
	Level				
3	Rch Delay1	0.1-743.0ms	1-7430		
4	Rch Feedback	-63-+63	1-127		
	Level				
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< td=""><td>1-127</td><td></td><td>•</td></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< td=""><td>1-127</td><td></td><td>•</td></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	Туре	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< td=""><td>1-127</td><td></td><td>•</td></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)

		, <u>, , , , , , , , , , , , , , , , , , </u>		0 711	
No.	Parameter	Display	Value	See Table	Control
1	Туре	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< td=""><td>1-127</td><td></td><td>•</td></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

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	Heigt	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< td=""><td>1-127</td><td></td><td>•</td></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< td=""><td>1-127</td><td></td><td></td></r63<>	1-127		
14	High Damp	0.1-1.0	1-10		
15	Feedback Level	-63-+63	1-127		
16					

KARAOKE1, 2, 3 (variation 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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11					
12					
13					
14					
15					
16					

TEMPO DELAY TEMPO ECHO (variation block)

	- ·	5: .		O T	
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< td=""><td>1-127</td><td></td><td>•</td></w=63<>	1-127		•
11					
12					
1	EQ Low Frequency	32Hz-2.0kHz	4-40		
	EQ Low Gain	-12-+12dB	52-76		
1	EQ High Frequency	· ·	28-58		
1	EQ High Gain	-12-+12dB	52-76		

TEMPO CROSS (variation block)

	TEINI C CHOSS (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< td=""><td>1-127</td><td></td><td>•</td></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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (varia-	_12-±12dB	52-76		
'-	tion block)	-12-+12ub	32-70		
13	EQ Mid Width (vari-	1.0-12.0	10-120		
	ation block)				
14					
1	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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
	(variation block)				
12	EQ Mid Gain (varia-	-12-+12dB	52-76		
	tion block)				
13	EQ Mid Width (vari-	1.0-12.0	10-120		
l	ation block)				
14	LFO Phase Differ-	-180-+180deg(resolu-	4-124		
	ence	tion=3deg.)			
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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (varia-	-12-+12dB	52-76		
	tion block)				
13	EQ Mid Width (vari-	1.0-12.0	10-120		
	ation block)				
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< td=""><td>1-127</td><td></td><td></td></w63<>	1-127		
11	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
10	(variation block)	10 .1040	52-76		
12	EQ Mid Gain (varia- tion block)	-12-+120B	52-76		
13	EQ Mid Width (vari-	1.0-12.0	10-120		
	ation block)				
14					
15					
16					

DISTORTION+ROTARY SPEAKER
OVERDRIVE+ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequenct	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< td=""><td>1-127</td><td></td><td></td></w=63<>	1-127		
11					
12					
13					
14	Drive	0-127	0-127		
15	LPF Cuttoff	1kHz-Thru	34-60		
16	Output Level	0-127	0-127		

AMP SIM.+ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequenct	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< td=""><td>1-127</td><td></td><td></td></w=63<>	1-127		
11					
12					
13					
14	Drive	0-127	0-127		
15	LPF Cuttoff	1kHz-Thru	34-60		
16	Output Level	0-127	0-127		

TREMOLO (variation insertion block)

Parameter	Display	Value	See Table	Control
LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	•
AM Depth	0-127	0-127		
PM Depth	0-127	0-127		
EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
EQ Low Gain	-12-+12dB	52-76		
EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
EQ High Gain	-12-+12dB	52-76		
	100Hz-10.0kHz	14-54	table#3	
'				
	-12-+12dB	52-76		
,	10100	10 100		
	1.0-12.0	10-120		
,	_180-+180deg/resolu-	1-121		
ence		7-124		
	mono/stereo	0-1		
P		' '		
	LFO Frequency AM Depth PM Depth EQ Low Frequency EQ Low Gain EQ High Frequency EQ High Gain EQ Mid Frequency (variation block) EQ Mid Gain (variation block) EQ Mid Width (variation block) LFO Phase Differ-	LFO Frequency AM Depth PM Depth O-127 EQ Low Frequency EQ Low Gain EQ High Frequency EQ High Frequency EQ Mid Frequency (variation block) EQ Mid Gain (variation block) EQ Mid Width (variation block) EQ Mid Width (variation block) EQ Mid Width (variation block) EQ Mid Width (variation block) EQ High Gain 100Hz-10.0kHz -12-+12dB -12-+12dB -12-+12dB -180-+180deg(resolution=3deg.)	Depth O-127 O-12	LFO Frequency

ALITO PAN (variation insertion block)

	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 (varia- tion 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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•			
11	Stage	4-22 (chorus, variation block)	4-22					
	-	4-12 (insertion block)	4-12					
12	Diffusion	mono/stereo	0-1					
13								
14								
15								
16								
		l .						

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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	Stage	3-11	3-6		
12					
13	LFO Phase Differ-	-180deg-+180deg(resolu-	4-124		
	ence	tion=3deg.)			
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< td=""><td>1-127</td><td></td><td></td></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< td=""><td>1-127</td><td></td><td></td></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	-48dB6dB	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 Cuttoff	1kHz-Thru	34-60		
5	Output Level		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< td=""><td>1-127</td><td></td><td></td></w63<>	1-127		
11	Edge(Clip Curve)	0-127	0-127		
12					
13					
14					
15					
16					

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< td=""><td>1-127</td><td></td><td></td></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 Cuttoff	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< td=""><td>1-127</td><td></td><td></td></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< td=""><td>1-127</td><td></td><td></td></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< td=""><td>1-127</td><td></td><td></td></w63<>	1-127		
11	Drive	0-127	0-127		
12	EQ Low Gain(dis- tortion)	–12-+12dB	52-76		
13	EQ Mid Gain(dis- tortion)	-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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	Pan 1	L63-R63	1-127		
	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< td=""><td>1-127</td><td></td><td>•</td></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)

HAN	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									

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 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< td=""><td>1-127</td><td></td><td></td></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)

1000	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< td=""><td>1-127</td><td></td><td></td></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 (varia- tion 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
INO.	Attack	1-40ms	0-19	table#8	Control
!					
	Release	10-680ms	0-15	table#9	
3	Threshold	-486dB	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					
- 10					

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	-7230dB	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		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=H - L <h63< td=""><td>1-127</td><td></td><td></td></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(resolu- tion=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=H-L <h=63< td=""><td>1-127</td><td></td><td></td></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 Cuttoff	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=H-L <h=63< td=""><td>1-127</td><td></td><td></td></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 Fre- quency	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 Cuttoff	1kHz-Thru	34-60		
16	Output Level		0-127		

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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	EQ Low Frequency	32Hz-2.0kHz (variation, insertion block)	4-40	table#3	
12	EQ Low Gain	-12-+12dB (variation,	52-76		
'-	La Low dam	insertion block)	0E 70		
13	EQ High Frequency	500Hz-16.0kHz (variation,	28-58	table#3	
		insertion block)			
14	EQ High Gain	-12-+12dB (variation, inser-	52-76		
1		tion block)			
15					
16					

AMBIENCE (variation block)

No.	Parameter	Display	Value	See Table	Control
	Delay Time	0.0mS-50mS	0-127	table#2	Control
	-	normal/invers	0-1	table#2	
3	Catpat i ilado	Thornta will verb	0 '		
4					
5					
	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
	EQ Low Gain	-12-+12dB	52-76	14210110	
	EQ High Frequency	· ·	28-58	table#3	
	EQ High Gain	-12-+12dB	52-76		
	Dry/Wet	D63>W - D=W - D <w63< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
	,				
11					
12					
13					
14					
15					
16					

TALKING MODULATION (variation block)

TALKING WODDLATION (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	44.1kHz-345Hz	0-127	table#13	
	Control				
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,	0-5		
		Clean, Low			
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< td=""><td>1-127</td><td></td><td>•</td></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 Time	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< td=""><td>1-127</td><td></td><td>•</td></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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
	A	4	0.40	4-1-1-110	
11	P	1ms-40ms	0-19	table#8	
12		10ms-680ms	0-15	table#9	
13	Comp. Threshold	-48dB6dB	79-121		
14	Comp. Ratio	1.0-20.0	0-7	table#10	
15					
16					

WAH+DIST+DELAT WAH+OVERDRIVE+DELAT (variation block)

		D: 1		A T	
No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1-1486.0ms	1-14860		
2	Delay Feedback	-63-+63	1-127		
	Level				
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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
	*				
11	Wah Sensitive	0-127	0-127		
12	Wah Cutoff Freq	0-127	0-127		
	Offset				
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	0-100%	0-100		
2	Device	Transister/Vintage Tube/	0-4		
		Dist1/Dist2/Fuzz			
3	Speaker	Flat/Stack/Combo/Twin/	0-5		
		Radio/Megaphone			
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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11					
12					
13					
14					
15					
16					

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/	0-4		
3	Speaker	Dist1/Dist2/Fuzz 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< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	Delay Mix	0-127	0-127		
12					
13					
14					
15					
16					

DUAL ROTOR SPEAKER1, 2 (variation block)

DOAL HOTON SPLAKENT, 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< td=""><td>1-127</td><td></td><td></td></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< td=""><td>1-127</td><td></td><td>•</td></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< td=""><td>1-127</td><td></td><td>•</td></w=63<>	1-127		•
11	Comp. Attack	1ms-40ms	0-19		
12	Comp. Release	10ms-680ms	0-15		
13	Comp. Threshold	-48dB6dB	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< td=""><td>1-127</td><td></td><td>•</td></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/	0-4		
		Dist1/Dist2/Fuzz			
3	Speaker	Flat/Stack/Combo/Twin/	0-5		
		Radio/Megaphone			
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	-63-+63	1-127		
	Level				
8	L/R Diffusion	1(-63ms)-64(0ms)-	1-127		
		127(63ms)			
9	Lag	1(-63ms)-64(0ms)-	1-127		
		127(63ms)			
10	Dry/Wet Balance	D63>W-D=W-D <w63< td=""><td>1-127</td><td></td><td>•</td></w63<>	1-127		•
11	Delay Mix	0-127	0-127		
12		0-127	0-127		
13					
14					
15					
16					
10					

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< td=""><td>1-127</td><td></td><td></td></w63<>	1-127		
11					
12					
13					
14	LFO Phase Differ-	-180-+180deg(resolu-	4-124		
	ence	tion=3deg.)			
	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

Data	quency 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 15	0.59	78 79	4.04
16	0.63	79 80	4.21 4.37
17	0.67	81	
18	0.72	82	4.54 4.71
19	0.80	83	4.71
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 36	1.47	99	9.42
36	1.51	100 101	9.76
38	1.60	101	10.1
39	1.64	102	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 55	2.27	118 119	24.9
56		119	
	2.36	120	27.6
57 58	2.40	121	28.9
59	2.44	123	31.6
60	2.40	123	33.0
61	2.57	125	34.3
62	2.61	126	37.0
63	2.65	127	39.7

Data	Value	Data	Value
Data 0	value 0.0	Data 64	Value 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 30	2.9	93 94	9.3
30	3.0	94	9.4
٠.	3.1	95 96	9.5
32 33	3.2 3.3	96	9.6
34	3.4	98	9.7
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

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			
10				
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			
	400			
26				
27	450			
28	500			
29	560			
30	630			
31	700			
32	800			
33	900			
34	1.0k			
35	4 41			
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			
	18.0k			
59	18 112			

Data	Value	Data	
0	0.3	64	
1	0.4	65	
2	0.5	66	
3	0.6	67	
4	0.7	68	
5	0.7	69	
	0.8	09	
6			
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	4.6		
46			
47	5.0 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		

Data	Value	Data	Value
0	0.1	64	100.8
1	1.7	65	102.4
2	3.2	66	104.0
3	_		104.0
	4.8	67	
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		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
2-7			
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			155.9
	55.2	99	
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
45			
-	72.5	110	
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		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	1251	196.9
61 62	96.1 97.7	125 126	196.9 198.4

Tahla#5

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

Table#6

Room Size			
Data	Value	Data	Value
0	0.1	64	10.1
1	0.3	65	10.3
2	0.4	66	10.4
3	0.6	67	10.6
4	0.7	68	10.8
5	0.9	69	10.9
6	1.0	70	11.1
7	1.2	71	11.2
8	1.4	72	11.4
9	1.5	73	11.5
10	1.7	74	11.7
11	1.8	75	11.9
12	2.0	76	12.0
13	2.1	77	12.2
14	2.3	78	12.3
15	2.5	79	12.5
16	2.6	80	12.6
17	2.8	81	12.8
18	2.9	82	12.9
19	3.1	83	13.1
20	3.1	84	13.3
21	3.4	85	13.4
22	3.5	86	13.6
23	3.7	87	13.7
24	3.9	88	13.9
25	4.0	89	14.0
26	4.2	90	14.2
27	4.3	91	14.4
28	4.5	92	14.5
29	4.6	93	14.7
30	4.8	94	14.8
31	5.0	95	15.0
32	5.1	96	15.1
33	5.3	97	15.3
34	5.4	98	15.5
35	5.6	99	15.6
36	5.7	100	15.8
37	5.9	101	15.9
38	6.1	102	16.1
39	6.2	103	16.2
40	6.4	104	16.4
41	6.5	105	16.6
42	6.7	106	16.7
43	6.8	107	16.9
44	7.0	108	17.0
45	7.2	109	17.2
46	7.3	110	17.3
47	7.5	111	17.5
48	7.6	112	17.6
49	7.8	113	17.8
50	7.9	114	18.0
51	8.1	115	18.1
52	8.2	116	18.3
53	8.4	117	18.4
54	8.6	118	18.6
55	8.7	119	18.7
56	8.9	120	18.9
57	9.0	121	19.1
58	9.2	122	19.2
	0.0	123	19.4
59	9.3		
59 60	9.5	124	19.5
59 60 61	9.5 9.7	124 125	19.7
59 60	9.5	124	

Table#7

Data	Value	Data	Value
0	0.1	64	201.6
1	3.2	65	204.8
2	6.4	66	207.9
3	9.5	67	211.1
4	12.7	68	214.2
5	15.8	69	217.4
6	19.0	70	220.5
7		71	223.7
8	22.1	71	
	25.3		226.8
9	28.4	73	230.0
10	31.6	74	233.1
11	34.7	75	236.3
12	37.9	76	239.4
13	41.0	77	242.6
14	44.2	78	245.7
15	47.3	79	248.9
16	50.5	80	252.0
17	53.6	81	255.2
18	56.8	82	258.3
19	59.9	83	261.5
20	63.1	84	264.6
21	66.2	85	267.7
22	69.4	86	270.9
23	72.5	87	274.0
24	75.7	88	277.2
25	78.8	89	280.3
26	82.0	90	283.5
27	85.1	91	286.6
28	88.3	92	289.8
29	91.4	93	292.9
30	94.6	94	296.1
31		95	299.2
32	97.7 100.9	96	302.4
33	104.0	97	305.5
34	107.2	98	308.7
35	110.3	99	311.8
36	113.5	100	315.0
37	116.6	101	318.1
38	119.8	102	321.3
39	122.9	103	324.4
40	126.1	104	327.6
41	129.2	105	330.7
42	132.4	106	333.9
43	135.5	107	337.0
44	138.6	108	340.2
45	141.8	109	343.3
46	144.9	110	346.5
47	148.1	111	349.6
48	151.2	112	352.8
49	154.4	113	355.9
50	157.5	114	359.1
51	160.7	115	362.2
52	163.8	116	365.4
53	167.0	117	368.5
54	170.1	118	371.7
55	173.3	119	374.8
56	176.4	120	378.0
57	179.6	120	381.1
58	182.7	122	384.3
59	185.9	123	387.4
60	189.0	124	390.6
61	192.2	125	393.7
62	195.3	126	396.9
63	198.5	127	400.0

Table#8 ck Time

Compressor Attac			
Data	Value		
0	1		
1	2		
2	3		
3	4		
4	5		
5	6		
6	7		
7	8		
8	9		
9	10		
10	12		
11	14		
12	16		
13	18		
14	20		
15	23		
16	26		
17	30		
18	35		
19	40		

Table#9 Compressor Release Time

Data	Value	Data	Value
0	10	8	85
1	15	9	100
2	25	10	115
3	35	11	140
4	45	12	170
5	55	13	230
6	65	14	340
7	75	15	680

Table#10

Compre	Compressor Hatio			
Data	Value	Data	Value	
0	1.0	4	5.0	
1	1.5	5	7.0	
2	2.0	6	10.0	
3	3.0	7	20.0	

Table#11 Reverb Width;Depth;Height Data Value Data

0.8

1.0 1.5

2.0 2.3 2.6

3.1

10 11

17.9 65 66 18.2

18.8 19.1 68 69

20.5

71 72 19.7 20.0

74 75

77 21.4 78 21.7 22.0

80 22 7 81 82 23.0

83 84 23.6 85 23.9

87 24.5 24.9 88 89 90 25.5 25.8 91 26.1 93 26.5 26.8 27.5 27.8 96 97 99 28.5

100 28.8

102

103

29.5

13	3.9	Г
14	4.1	Г
15	4.4	Г
16	4.6	Г
17	4.9	Г
18	5.2	Г
19	5.4	Г
20	5.7	Г
21	5.9	Г
22	6.2	Г
23	6.5	Г
24	6.7	Г
25	7.0	Г
26	7.2	Г
27	7.5	Г
28	7.8	Г
29	8.0	Г
30	8.3	T
31	8.6	T
32	8.8	H
33	9.1	Г
34	9.4	Г
35	9.6	Н
36	9.9	Н
37	10.2	Н
38	10.4	
39	10.7	
40	11.0	
41	11.2	
42	11.5	
43	11.8	
44	12.1	
45	12.3	
46	12.6	
47	12.9	
48	13.1	
49	13.4	
50	13.7	
51	14.0	
52	14.2	
53	14.5	
54	14.8	
55	15.1	
56	15.4	
57	15.6	
58	15.9	
59	16.2	
60	16.5	
61	16.8	
62	17.1	
63	17.1	

Table#12 Wah Release Time

Data	Value	
52	10.0	ı
53	15.0	
54	25.0	
55	35.0	
56	45.0	
57	55.0	
58	65.0	
59	75.0	
60	85.0	
61	100.0	
62	115.0	
63	140.0	
64	170.0	
65	230.0	
66	340.0	
67	680.0	

Table#13

Sampling Freq Control			
Data	Value	Data	Value
0	44.1K	64	678.0
1	22.1K	65	668.0
2	14.7K	66	658.0
3	11.0K	67	649.0
4	8.8K	68	639.0
5	7.4K	69	630.0
6	6.3K	70	621.0
7	5.5K	71	613.0
8	4.9K	72	604.0
9	4.5K	73	596.0
10 11	4.0K	74 75	588.0
	3.7K	75 76	580.0 573.0
12	3.4K 3.2K	76	565.0
14	3.2K 2.9K	78	558.0
		78 79	
15	2.8K	80	551.0
16 17	2.6K 2.5K	81	544.0 538.0
	2.3K	82	531.0
18 19	2.3K	83	525.0
20		84	519.0
21	2.1K 2.0K	85	513.0
22	1.92K	86	507.0
23	1.84K	87	501.0
24	1.76K	88	496.0
25	1.70K	89	490.0
26	1.63K	90	485.0
27	1.58K	91	479.0
28	1.52K	92	474.0
29	1.47K	93	469.0
30	1.42K	94	464.0
31	1.38K	95	459.0
32	1.34K	96	455.0
33	1.30K	97	450.0
34	1.26K	98	445.0
35	1.23K	99	441.0
36	1.19K	100	437.0
37	1.16K	101	432.0
38	1.13K	102	428.0
39	1.10K	103	424.0
40	1.08K	104	420.0
41	1.05K	105	416.0
42	1.03K	106	412.0
43	1.00K	107	408.0
44	980.0	108	405.0
45	959.0	109	401.0
46	938.0	110	397.0
47	919.0	111	394.0
48	900.0	112	390.0
49	882.0	113	387.0
50	865.0	114	383.0
51	848.0	115	380.0
52	832.0	116	377.0
53	817.0	117	374.0
54	802.0	118	371.0
55	788.0	119	368.0
56	774.0	120	364.0
57	760.0	121	361.0
58	747.0	122	359.0
59	735.0	123	356.0
60	723.0	124	353.0
61	711.0	125	350.0
62	700.0	126	347.0
63	689.0	127	345.0

Table#14 Tempo Delay

Tempo I	Delay		
Data	Value	Data	Value
0	64th/3	64	4thX51
1	64th.	65	4thX52
2	32th	66	4thX53
3	32th/3	67	4thX54
4	32th.	68	4thX55
5	16th	69	4thX56
6	16th/3	70	4thX57
7	16th.	71	4thX58
8	8th	72	4thX59
9	8th/3	73	4thX60
10	8th.	74	4thX61
11	4th	75	4thX62
12	4th/3	76	4thX63
13	4th.	77	4thX64
14	2nd		1111/10
15	2nd/3		
16	2nd.		
17	4thX4		
18	4thX5		
19	4thX6		
20	4thX7		
21			
22	4thX8		
23	4thX9		
	4thX10		
24	4thX11		
25	4thX12		
26	4thX13		
27	4thX14		
28	4thX15		
29	4thX16		
30	4thX17		
31	4thX18		
32	4thX19		
33	4thX20		
34	4thX21		
35	4thX22		
36	4thX23		
37	4thX24		
38	4thX25		
39	4thX26		
40	4thX27		
41	4thX28		
42	4thX29		
43	4thX30		
44	4thX31		
45	4thX32		
46	4thX33		
47	4thX34		
48	4thX35		
49	4thX36		
50	4thX37		
51	4thX38		
52	4thX39		
53	4thX40		
54	4thX41		
55	4thX42		
56	4thX43		
57	4thX44		
58	4thX45		
59	4thX46		
60	4thX47		
61			
62	4thX48 4thX49		
63	4thX50		

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	0.0	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/0cccccc denotes the check sum.
- · ddH/0ddddddd denotes the data/value.

Preset Voice List

• When you specify a program change as a number in the range of 0-127, specify a number that is one less than the program number listed below. For example, to specify program number 128, you would specify program change 127.

Voice group	Voice name	Bank MSB	Bank LSB	(1-128)
	GrandPiano1	0	122	1
GRANDPIANO1	MellowPiano	0	123	1
GITANDI IANOT	RockPiano	0	122	3
	HonkyTonkPiano	0	122	4
GRANDPIANO2	GrandPiano2	0	112	1
GHAINDFIAINO2	BrightPiano	0	112	2
E.PIANO1	E.Piano1	0	122	6
E.FIANOT	SynthPiano	0	122	89
E.PIANO2	E.Piano2	0	122	5
E.FIANO2	Vintage E.Piano	0	123	5
HARPSICHORD	Harpsichord8'	0	122	7
TIATII SICTIOND	Harpsichord8'+4'	0	123	7
E.CLAVICHORD	E.Clavichord	0	122	8
E.CLAVICHORD	Wah Clavi.	0	123	8
	Vibraphone	0	122	12
VIBRAPHONE	Marimba	0	122	13
	Celesta	0	122	9
GUITAR	NylonGuitar	0	122	25
GUIIAN	SteelGuitar	0	122	26

Voice group	Voice name	Bank MSB	Bank LSB	Program Change (1-128)
	PipeOrganPrincipal	0	123	20
CHURCHORGAN	PipeOrganTutti	0	122	20
CHUNCHUNGAN	PipeOrganFlute1	0	124	20
	PipeOrganFlute2	0	125	20
	JazzOrgan	0	122	17
JAZZORGAN	RotaryOrgan	0	124	17
	MellowOrgan	0	125	17
	Strings	0	122	49
STRINGS	SynthStrings	0	122	51
	SlowStrings	0	122	50
	Choir	0	122	53
CHOIR	SlowChoir	0	123	53
	Scat	0	122	54
SYNTH.PAD	SynthPad1	0	122	90
STNIH.FAD	SynthPad2	0	123	89
WOOD BASS	WoodBass	0	122	33
WOOD BASS	Bass&Cymbal	0	124	33
E.BASS	ElectricBass	0	122	34
E.BASS	FretlessBass	0	122	36

MIDI CHANNEL MESSAGE (1)

○: available

	Sta	atus byte		19	st Data byte		2nd E	ata byte	MIC	I Reception	(respond/ignore)	MIDI Transm (generated			PL	.AY	REC
MIDI Events		Status	Data	(HEX)	Parameter	Data	(HEX)	Parameter	Song	Main Layer Left 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)	0	0	0	×	0	×	0	×	×
Key On	9nH	(n:Channel Number)	kk		Key no. (0–127)	vv		Key On :vv=1-127 Key Off :vv=0	0	0	0	(Keyboard)	0	×	0	×	0
			0	(00H)	Bank Select MSB**	0 64 126 127	(00H) (40H) (7EH) (7FH)	Normal SFX voice SFX kit Drum kit	0	0	×	(Voice)	0	×	0	0	0
			1	(01H)	Modulation	0–127	(00H 7FH)	Data	0	0	(All manually played parts)	×	0	×	0	0	×
			5	(05H)	Portamento Time	0–127	(00H 7FH)	Data	0	0	(All manually played parts)	×	0	×	0	0	×
			6	(06H)	Data Entry MSB	0–127	(00H 7FH)	Data	0	0	O (All manually played parts)	(Voice Setting)	0	×	0	0	0
			7	(07H)	Main Volume	0–127	(00H 7FH)	Data	0	0	(All manually played parts)	(Voice Setting)	0	×	0	0	0
			10	(0AH)	Panpot	0–127	(00H 7FH)	L64	0	0	O (All manually played parts)	(Voice Setting)	0	×	0	0	0
			11	(0BH)	Expression	0–127	(00H 7FH)	Data	0	0	O (All manually played parts)	(Pedal)	0	×	0	0	0
			32	(20H)	Bank Select LSB**	0–127	(00H 7FH)	Data	0	0	×	(Voice)	0	×	0	0	0
			38	(26H)	Data Entry LSB	0–127	(00H 7FH)	Data	0	0	(All manually played parts)	(Voice Setting)	0	×	0	×	0
			64	(40H)	Sustain(Damper)	0–127	(00H 7FH)	Data	0	0	O (All manually played parts)	O (Pedal)	0	×	0	0	0
			65	(41H)	Portamento	0–127	(00H 7FH)	063, 64127 (OFF, ON)	0	0	(All manually played parts)	×	0	×	0	0	×
			66	(42H)	Sostenuto	0–127	(00H 7FH)		0	0	(All manually played parts)	O (Pedal)	0	×	0	0	0
Control	D-II		67	(43H)	Soft Pedal	0–127	(00H	063, 64127	0	0	(All manually	O (Pedal)	0	×	0	0	0
Change	BnH		71		Harmonic Content	0–127	7FH) (00H	(OFF, ON) -640+63	0	0	played parts) (All manually	(Voice Setting)	0	×	0	0	0
			72		Release Time	0–127	7FH) (00H	-640+63	0	0	played parts) (All manually	×	0	×	0	0	×
			73		Attack Time	0–127	7FH) (00H	-640+63	0	0	played parts) O (All manually	×	0	×	0	0	×
			74		Brightness	0–127	7FH) (00H	-640+63	0	0	played parts) (All manually	(Voice Setting)	0	×	0	0	0
			84		Portamento Control	0-127	7FH) (00H	Key no. (0–127)	0	0	played parts)	×	0	×	0	×	×
			91	(5BH)	Effect1 Depth (Reverb	0-127	7FH) (00H	Data	0		(All manually	O (Voice Setting)		×			
			93	(5DH)	Send Level) Effect3 Depth (Chorus	0-127	7FH) (00H	Data		0	played parts) (All manually	O (Voice Setting)	0		0	0	0
			94	(5EH)	Send Level) Effect4 Depth (Variation	0-127	7FH) (00H	Data	0	0	played parts) (All manually		0	×	0	0	0
			96		Send Level) RPN Increment	0-127	7FH)	*	0	0	played parts)	×	0	×	0	O ×	×
			97		RPN Decrement	-	_	*	0	0	×	×	0	×	0	×	×
			98	(62H)	NRPN LSB	0–127	(00H 7FH)	Data	0	0	×	×	0	×	0	0	×
			99	(63H)	NRPN MSB	0–127	(00H 7FH)	Data	0	0	×	×	0	×	0	0	×
			100	(64H)	RPN LSB	0–127	(00H 7FH)	Data	0	0	(All manually played parts)	(Voice Setting)	0	×	0	0	0
			101	(65H)	RPN MSB	0–127	(00H 7FH)	Data	0	0	O (All manually played parts)	O (Voice Setting)	0	×	0	0	0
		(n:Channel Number)	120	(78H)	All Sound Off	0	(00H)	Data	0	0	(All manually played parts)	×	0	×	0	×	×
			121	(79H)	Reset All Controllers	0	(00H)	Data	0	×	×	×	0	×	0	×	×
	D.II		123	(7BH)	All Note Off	0	(00H)	Data	0	0	(All manually played parts)	×	0	×	0	×	×
Mode Message	BnH		124		Omni Off	0	(00H)	Data	0	×	×	×	×	×	×	×	×
			125		Omni On Mono	0-16	(00H) (00H	Data	0	×	×	×	× 0	×	×	×	×
			127	(7FH)		0	10H) (00H)		0	×	×	×	0	×	0	×	×
Program Change**	CnH	(n:Channel Number)	pp	(00H 7FH)	Voice number (0–127)	-	-	-	0	0	×	O (Voice)	0	×	0	0	0
Channel After Touch	DnH	(n:Channel Number)	vv	/OOL	Data	_	-		0	0	(All manually played parts)	×	0	×	0	×	×
Polyphonic After Touch	AnH	(n:Channel Number)	kk	(00H 7FH)	Key no. (0–127)	vv	(00H 7FH)	Data	0	×	× ×	×	0	×	0	×	×
Pitch Bend Change	EnH	(n:Channel Number)	СС	(00H 7FH)	LSB	dd	(00H 7FH)	MSB	0	0	(All manually played parts)	O (Pedal)	0	×	0	0	0
Chango	F8H	MIDI Clock	-	7.11)		-)	_			X played parts)	0			-	-	×
	FAH	Start	-		_	-		-			0	0			-	-	×
Realtime Mes- sage	FBH FCH	Continue Stop	-		_	-		- -			× O	×			_	-	×
-390	FEH	Active Sens	-			-		_			0	0			-	-	×
	FFH	System Reset	-		_	-		_			×	×			-	-	×
		-							-								

^{*} The data byte is ignored.

^{**} For the Bank Select MSB, Bank Select LSB and Program Change numbers of the preset voices, refer to page 22.

MIDI CHANNEL MESSAGE (2)

Parameters controlled by NRPN (Non-Registered Parameter Numbers)

NR	PN	Data	Entry			MIDI	Reception (re	espond/ignore)	MIDI Transn (generated			PL	.AY	REC
MSB	LSB	MSB	LSB	Parameter	Data Range	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 (-640+63)	0	0	×	×	0	×	0	0	×
01H	09H	mmH		Vibrato Depth	mm : 00H-40H-7FH (-640+63)	0	0	×	×	0	×	0	0	×
01H	0AH	mmH		Vibrato Delay	mm : 00H-40H-7FH (-640+63)	0	0	×	×	0	×	0	0	×
01H	20H	mmH		Low Pass Filter Cutoff Fre- quency	mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	0	×
01H	21H	mmH		Low Pass Filter Resonance	mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	0	×
01H	30H	mmH		EQ BASS	mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	0	×
01H	31H	mmH		EQ TREBLE	mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	0	×
01H	34H	mmH		EQ BASS Frequency	mm : 04H-28H (322.0k [Hz])	0	×	×	×	0	×	0	0	×
01H	35H	mmH		EQ TREBLE Frequency	mm : 1CH-3AH (50016.0k [Hz])	0	×	×	×	0	×	0	0	×
01H	63H	mmH		EG Attack Time	mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	0	×
01H	64H	mmH		EG Decay Time	mm : 00H-40H-7FH (-640+63)	0	0	×	×	0	×	0	0	×
01H	66H	mmH		EG Release	mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	0	×
14H	rrH	mmH		Drum Low Pass Filter Cutoff Frequency	rr : drum instrument note number mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	×	×
15H	rrH	mmH		Drum Low Pass Filter Reso- nance	rr : drum instrument note number mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	×	×
16H	rrH	mmH		Drum EG Attack Rate	rr : drum instrument note number mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	×	×
17H	rrH	mmH		Drum EG Decay Rate	rr : drum instrument note number mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	×	×
18H	rrH	mmH		Drum Pitch Coarse	rr : drum instrument note number mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	×	×
19H	rrH	mmH		Drum Pitch Fine	rr : drum instrument note number mm : 00H-40H-7FH (-640+63)	0	×	×	×	0	×	0	×	×
1AH	rrH	mmH		Drum Level	rr : drum instrument note number mm : 00H-7FH (0127)	0	×	×	×	0	×	0	×	×
1CH	rrH	mmH		Drum Pan	rr : drum instrument note number mm : 00H, 01H-40H-7FH (RND, L63CR63)	0	×	×	×	0	×	0	×	×
1DH	rrH	mmH		Drum Reverb Send Level	rr : drum instrument note number mm : 00H-7FH (0127)	0	×	×	×	0	×	0	×	×
1EH	rrH	mmH		Drum Chorus Send Level	rr : drum instrument note number mm : 00H-7FH (0127)	0	×	×	×	0	×	0	×	×
1FH	rrH	mmH		Drum Variation Send Level	r: drum instrument note number mm : 00H-7FH (0127) (Variation Connection = SYSTEM) mm : 00H, 01H-7FH (OFF, ON) (Variation Connection = INSERTION)	0	×	×	×	0	×	0	×	×

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)

NR	PN	Data	Entry			MIDI	Reception (re	espond/ignore)	MIDI Transn (generated			PL	AY	REC
MSB	LSB	MSB	LSB	Parameter	Data Range	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])	0	0	(All manually played parts)	(Other Setting)	0	×	0	0	0
00H	01H	mmH	ШН	Fine Tune	mm II:00H 00H -100 [cent] mm II:40H 00H 0 [cent] mm II:7FH 7FH 100 [cent]	0	0	O (All manually played parts)	(Voice Setting)	0	×	0	0	0
00H	02H	mmH		Coarse Tune	mm : 28H-40H-58H (-240+24 [semitones])	0	0	(All manually played parts)	×	0	×	0	0	×
7FH	7FH			Null	-	0	0	(All manually played parts)	×	0	×	0	×	×

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

								(effect	MIDI Recepti tive or not for		MIDI Transm (generated			PL	.AY	REC
	Addres (H)	s	Size (H)	Data (H)	Parameter	Description	XG Default (H)	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	-102.40+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		0		×	0	×	0	×	×
		04	1	00-7F	MASTER VOLUME	0127	7F	0	×	×	×	0	×	0	0	×
		05	1	00-7F	MASTER ATTENUATOR	0127	00	×	×	×	×	×	×	×	×	×
		06	1	28-58	TRANSPOSE	-240+24 [semitones]	40	0	×	×	×	0	×	0	0	×
		7D	1	N	DRUM SETUP RESET	N:Drum setup number	-	0	×	×	×	0	×	0	×	×
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	0	×	×	×	0	×	0	×	0
		7F	1	00	ALL PARAMETER RESET	00=ON	-	0	×	×	×	0	×	0	×	×

TOTAL SIZE

MIDI Parameter Change table (SYSTEM INFORMATION)

							(effec	MIDI Recepti tive or not for		MIDI Transm (generated			PL	AY	REC
A	(H)	s	Size (H)	Data (H)	Parameter	Description	Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
		00		20-7F	Model Name 1	32127(ASCII CHARACTER)									
01	00		E												
		0D		20-7F	Model Name 14	el Name 14 32127(ASCII CHARACTER)	-	_	-	×	×	0	×	×	×
		0E	1	NOT USED]					_					
		0F	1		NOT USED										

TOTAL SIZE

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

								(effec	MIDI Recepti		MIDI Transm (generated			PL	AY	REC
A	(H)	s	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorded from panel
02	01	00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Parameter List	01(=HALL1) 00		0		O(Voice Setting)	0	×	0	0	0
		02	1	00-7F	REVERB PARAMETER 1	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		03	1	00-7F	REVERB PARAMETER 2	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		04	1	00-7F	REVERB PARAMETER 3	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		05	1	00-7F	REVERB PARAMETER 4	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		06	1	00-7F	REVERB PARAMETER 5	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		07	1	00-7F	REVERB PARAMETER 6	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		08	1	00-7F	REVERB PARAMETER 7	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		09	1	00-7F	REVERB PARAMETER 8	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		0A	1	00-7F	REVERB PARAMETER 9	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		0B	1	00-7F	REVERB PARAMETER 10	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		0C	1	00-7F	REVERB RETURN	-∞dB0dB+6dB(096127)	40		0		×	0	×	0	0	×
		0D	1	01-7F	REVERB PAN	L63CR63	40		0		×	0	×	0	0	×
TOTAL	L SIZE		0E	•												
02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		11	1	00-7F	REVERB PARAMETER 12	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		12	1	00-7F	REVERB PARAMETER 13	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		13	1	00-7F	REVERB PARAMETER 14	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		14	1	00-7F	REVERB PARAMETER 15	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×
		15	1	00-7F	REVERB PARAMETER 16	"	Depends on Reverb Type	0 (*	Depends on Re	verb Type)	×	0	×	0	0	×

TOTAL SIZE

								(effec	MIDI Recepti tive or not for		MIDI Transm (generated			PL	.AY	REC
4	Addres (H)	s	Size (H)	Data (H)	Parameter	Description	XG Default (H)	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		0		(Voice Setting)	0	×	0	0	0
		22	1	00-7F	CHORUS PARAMETER 1	"	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		23	1	00-7F	CHORUS PARAMETER 2	"	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		24	1	00-7F	CHORUS PARAMETER 3	"	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		25	1	00-7F	CHORUS PARAMETER 4	"	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		26	1	00-7F	CHORUS PARAMETER 5	"	Depends on Chorus Type	,, <u> </u>		orus Type)	×	0	×	0	0	×
		27	1	00-7F	CHORUS PARAMETER 6	"	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		28	1	00-7F	CHORUS PARAMETER 7	"	Depends on Chorus Type), a C C C C C C C C C C C C C C C C C C		orus Type)	×	0	×	0	0	×
		29	1	00-7F	CHORUS PARAMETER 8	"	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		2A	1	00-7F	CHORUS PARAMETER 9	II .	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		2B	1	00-7F	CHORUS PARAMETER 10	II .	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		2C	1	00-7F	CHORUS RETURN	-∞dB0dB+6dB(096127)	40		0		×	0	×	0	0	×
		2D	1	01-7F	CHORUS PAN	L63CR63	40		0		×	0	×	0	0	×
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB0dB+6dB(096127)	00		0		×	0	×	0	0	×
ГОТА	L SIZE	=	0F			·	•				•					
02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		31	1	00-7F	CHORUS PARAMETER 12	II .	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		32	1	00-7F	CHORUS PARAMETER 13	II .	Depends on Chorus Type	O(* [Depends on Ch	orus Type)	×	0	×	0	0	×
		33	1	00-7F	CHORUS PARAMETER 14	II .	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		34	1	00-7F	CHORUS PARAMETER 15	II .	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×
		35	1	00-7F	CHORUS PARAMETER 16	п	Depends on Chorus Type	0 (* 1	Depends on Ch	orus Type)	×	0	×	0	0	×

								(effec	MIDI Recepti		MIDI Transm (generated			PL	AY	REC
A	ddres (H)	s	Size (H)	Data (H)	Parameter	Description	XG Default (H)	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)		0		×	0	×	0	0	×
				00-7F	VARIATION TYPE LSB	п	00									
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB	" "	Depends on Vari- ation Type	0(*[Depends on Vari	ation Type)	×	0	×	0	0	×
		44	2	00-7F	VARIATION PARAMETER 2 MSB	п	Depends on Vari-	0(*1	Depends on Vari	ation Type)	×	0	×	0	0	×
			_	00-7F	VARIATION PARAMETER 2 LSB	,,	ation Type	0, -	ocpendo on van	ation type)	^		^			^
		46	,	00-71 00-7F	VARIATION PARAMETER 3 MSB		Depends on Vari-	0 (* [Donanda on Vari	intion Time)						×
		46	2	00-7F			ation Type	0(1	Depends on Vari	allon type)	×	0	×	0	0	^
		40			VARIATION PARAMETER 4 MOR		Depends on Vari-	0 /* 5		- P T N				_		
		48	2	00-7F	VARIATION PARAMETER 4 MSB		ation Type	06.	Depends on Vari	ation (ype)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 4 LSB	"	Depends on Vari-					_		_	_	
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	"	ation Type	00,0	Depends on Vari	ation Type)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 5 LSB	"	Depends on Vari-									
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	"	ation Type	0(*[Depends on Vari	ation Type)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 6 LSB	"	Depends on Vari-									
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	"	ation Type	(* Depends on Variation Type		ation Type)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 7 LSB	п	Daniel de la Verd									
		50	2	00-7F	VARIATION PARAMETER 8 MSB	ıı .	Depends on Vari- ation Type	(* Depends on Variation Type		ation Type)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 8 LSB	н										
		52	2	00-7F	VARIATION PARAMETER 9 MSB	ıı .	Depends on Vari- ation Type	0(*[Depends on Vari	ation Type)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 9 LSB	п										
		54	2	00-7F	VARIATION PARAMETER 10 MSB	п	Depends on Vari- ation Type	0(*0	Depends on Vari	ation Type)	×	0	×	0	0	×
				00-7F	VARIATION PARAMETER 10 LSB	н	алон туро									
		56	1	00-7F	VARIATION RETURN	-∞dB0dB+6dB(096127)	40		0		×	0	×	0	0	×
		57	1	01-7F	VARIATION PAN	L63CR63	40		0		×	0	×	0	0	×
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB0dB+6dB(096127)	00		0		×	0	×	0	0	×
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB0dB+6dB(096127)	00		0		×	0	×	0	0	×
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00		0		×	0	×	0	0	×
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part116(015) Transmission: Part116(015) AD(64) OFF(127)	7F		0		×	0	×	0	0	×
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-640+63	40		0		×	0	×	0	0	×
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-640+63	40		0		×	0	×	0	0	×
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-640+63	40		0		×	0	×	0	0	×
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-640+63	40		0		×	0	×	0	0	×
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-640+63	40		0		×	0	×	0	0	×
TOTAL	L SIZI	≡	21													
02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Vari- ation Type	0 (* 0	Depends on Vari	ation Type)	×	0	×	0	0	×
		71	1	00-7F	VARIATION PARAMETER 12	п	Depends on Vari- ation Type	0 (* 0	Depends on Vari	ation Type)	×	0	×	0	0	×
		72	1	00-7F	VARIATION PARAMETER 13	н	Depends on Vari- ation Type	0 (* [Depends on Vari	ation Type)	×	0	×	0	0	×
		73	1	00-7F	VARIATION PARAMETER 14	н	Depends on Vari- ation Type	0 (* [Depends on Vari	ation Type)	×	0	×	0	0	×
		74	1	00-7F	VARIATION PARAMETER 15	п	Depends on Vari- ation Type	0 (* [Depends on Vari	ation Type)	×	0	×	0	0	×
		75	1	00-7F	VARIATION PARAMETER 16	н	Depends on Vari- ation Type	0 (* [Depends on Vari	ation Type)	×	0	×	0	0	×

TOTAL SIZE 06

MIDI Parameter Change table (EFFECT2)

							MIDI Reception (effective or not for each part)		MIDI Transmission (generated data)			PLAY		REC	
A	ddres (H)	s	Size (H)	Data (H)	Parameter	Description	Song	Main Layer Left Left-Layer	Keyboard	Panel (main generation method)	Song	Midi	PLAY	REW	Recorde from panel
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List		0		(Voice Setting)	0	×	0	0	0
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	ıı .	0 (* 0	epends on Ins	ertion Type)	(Voice Setting)	0	×	0	0	0
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	п	-	epends on Inse		×	0	×	0	0	×
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	н		epends on Ins		(Voice Setting)	0	×	0	0	0
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	"	-	epends on Ins		×	0	×	0	0	×
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	п	-	epends on Ins		×	0	×	0	0	×
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	п	-	epends on Ins		×	0	×	0	0	×
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	п	-							-	_
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	"	-	epends on Ins		×	0	×	0	0	×
								epends on Ins		×	0	×	0	0	×
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9			epends on Ins		×	0	×	0	0	×
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	II .	0 (* 0	epends on Ins	ertion Type)	(Voice Setting)	0	×	0	0	0
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part116(015) Transmission: Part116(015) AD(64) OFF(127)		0		(Voice)	0	×	0	0	0
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-640+63		0		×	0	×	0	0	×
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-640+63		0		×	0	×	0	0	×
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-640+63		0		×	0	×	0	0	×
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-640+63		0		×	0	×	0	0	×
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-640+63		0		×	0	×	0	0	×
DTAL	L SIZE	20	12	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		21	1	00-7F	INSERTION EFFECT PARAMETER 12	н	0 (* 0	epends on Inse	ertion Type)	×	0	×	0	0	×
		22	1	00-7F	INSERTION EFFECT PARAMETER 13	п	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		23	1	00-7F	INSERTION EFFECT PARAMETER 14	п	0(*	epends on Ins	ertion Type)	×	0	×	0	0	×
		24	1	00-7F	INSERTION EFFECT PARAMETER 15	н	0(*0	epends on Ins	ertion Type)	×	0	×	0	0	×
		25	1	00-7F	INSERTION EFFECT PARAMETER 16	п		epends on Ins		(Voice Setting)	0	×	0	ō	0
OTAL	L SIZE		6					.,	, , ,	0 (*** 3,					
		30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB	п.	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB	" "	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB	"	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB	11	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		ЗА	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB	H	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB	"	0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB		0 (* 0	epends on Ins	ertion Type)	×	0	×	0	0	×
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB			epends on Ins		×	0	×	0	0	×
		42	2	00-7F	INSERTION EFFECT PARAMETER 10 MSB	"	O(* D	epends on Inse	ertion Type)	O(Voice Setting)	0	×	0	0	0

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.

MIDI Parameter Change table (MULTI PART)

Δ	ddres	·e	Size	Data			XG Default	(effect	MIDI Recepti tive or not for Main		MIDI Transm (generated			PL	AY	REC
	(H)		(H)	(H)	Parameter	Description	(H)	Song	Layer Left Left-Layer	Keyboard	Panel (main gener- ation method)	Song	Midi	PLAY	REW	Recorded from panel
08	nn	00	1	00-20	NOT USED		part10=7F, other	×	×	×	×	×	×	×	×	×
		01	1	00-7F	BANK SELECT MSB	0127	parts=00	0	0	×	×	0	×	0	0	×
		02	1	00-7F	BANK SELECT LSB	0127	00	0	0	×	×	0	×	0	0	×
		03	1	00-7F 00-	PROGRAM NUMBER	1128	00	0	0	×	×	0	×	0	0	×
		04	1	0F,7F	Rcv CHANNEL	116,OFF	Part No.	0	×	×	×	0	×	0	×	×
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	0	×	×	×	0	×	0	×	×
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST(for Drum)	01	0	×	×	×	0	×	0	×	×
		07	1	00-03	PART MODE	NORMAL, DRUM,	part10=02, other parts=00	0	×	×	(Drum Voice)	0	×	0	×	0
		08	1	28-58	NOTE SHIFT	DRUMS12 -240+24 [semitones]	40	0	0	×	×	0	×	0	0	×
		09	2	00-0F	DETUNE	-12.80+12.7 [Hz] 1st bit3-0 → bit7-4	08 00	0	0	×	×	0	×	0	×	×
		0A		00-0F		2nd bit3-0 → bit3-0	-	_								
		0B 0C	1	00-7F 00-7F	VOLUME VELOCITY SENSE DEPTH	0127 0127	64	0	0	×	X (Vaine Cattine)	0	×	0	0	×
		0D	1	00-7F	VELOCITY SENSE DEFTH	0127	40	0	0	×	○(Voice Setting) ○(Voice Setting)	0	×	0	0 0	0
		0E	1	00-7F	PAN	RND,L63CR63	40	0	0	×	×	0	×	0	0	×
		0F	1	00-7F	NOTE LIMIT LOW	C-2G8	00	0	0	×	×	0	×	0	×	×
		10	1	00-7F	NOTE LIMIT HIGH	C-2G8	7F	0	0	×	×	0	×	0	×	×
		11	1	00-7F	DRY LEVEL	0127	7F	0	0	×	×	0	×	0	0	×
		12	1	00-7F	CHORUS SEND	0127	00	0	0	×	×	0	×	0	0	×
		13	1	00-7F 00-7F	REVERB SEND VARIATION SEND	0127	28	0	0	×	×	0	×	0	0	×
		14	1	00-7F	VIBRATO RATE	0127 -640+63	40	0	0	×	×	0	×	0	0	×
		16	1	00-71 00-7F	VIBRATO DEPTH	-640+63	40	0	0	×	×	0	×	0	0	×
		17	1	00-7F	VIBRATO DELAY	-640+63	40	0	0	×	×	0	×	0	0	×
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-640+63	40	0	0	×	×	0	×	0	0	×
		19	1	00-7F	FILTER RESONANCE	-640+63	40	0	0	×	×	0	×	0	0	×
		1A	1	00-7F	EG ATTACK TIME	-640+63	40	0	0	×	×	0	×	0	0	×
		1B	1	00-7F	EG DECAY TIME	-640+63	40	0	0	×	×	0	×	0	0	×
		1C 1D	1	00-7F 28-58	EG RELEASE TIME MW PITCH CONTROL	-640+63 -240+24 [semitones]	40	0	0	×	×	0	×	0	O ×	×
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	0	×	×	0	×	0	×	×
		1F	1	00-7F	MW AMPLITUDE CONTROL	-1000+100 [%]	40	0	0	×	×	0	×	0	×	×
		20	1	00-7F	MW LFO PMOD DEPTH	0127	0A	0	ō	×	×	0	×	Ō	×	×
		21	1	00-7F	MW LFO FMOD DEPTH	0127	00	0	0	×	×	0	×	0	×	×
		22	1	00-7F	MW LFO AMOD DEPTH	0127	00	0	0	×	×	0	×	0	×	×
		23	1	28-58	BEND PITCH CONTROL	-240+24 [semitones]	42	0	0	×	×	0	×	0	×	×
		24 25	1	00-7F 00-7F	BEND LOW PASS FILTER CONTROL BEND AMPLITUDE CONTROL	-96000+9450 [cent] -1000+100 [%]	40	0	0	×	×	0	×	0	×	×
		26	1	00-7F	BEND LFO PMOD DEPTH	0127	00	0	0	×	×	0	×	0	×	×
		27	1	00-7F	BEND LFO FMOD DEPTH	0127	00	0	0	×	×	0	×	0	×	×
		28	1	00-7F	BEND LFO AMOD DEPTH	0127	00	Ō	ō	×	×	0	×	0	×	×
ОТА	L SIZE	E	29						•							
		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	0	×	×	×	0	×	0	×	×
		31	1	00-01	Rcv CH AFTER TOUCH(CAT)	OFF, ON	01	0	×	×	×	0	×	0	×	×
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	0	×	×	×	0	×	0	×	×
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	0	×	×	×	0	×	0	×	×
		34	1	00-01	Rcv POLY AFTER TOUCH(PAT)	OFF, ON	01	0	×	×	×	0	×	0	×	×
		35 36	1		Rcv NOTE MESSAGE Rcv RPN	OFF, ON OFF, ON	01	0	×	×	×	0	×	0	×	×
		37	1	00-01	Rcv NRPN	OFF, ON	XGmode=01,		×	×	×		×		×	×
							GMmode=00	0				0		0		
		38	1	00-01	Rcv MODULATION Rcv VOLUME	OFF, ON	01	0	×	×	×	0	×	0	×	×
		3A	1		Rcv PAN	OFF, ON	01	0	×	×	×	0	×	0	×	×
		3B	1		Rcv EXPRESSION	OFF, ON	01	0	×	×	×	0	×	0	×	×
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	0	×	×	×	Ō	×	Ō	×	×
		3D	1		Rcv PORTAMENTO	OFF, ON	01	0	×	×	×	0	×	0	×	×
		3E	1		Rcv SOSTENUTO	OFF, ON	01	0	×	×	×	0	×	0	×	×
		3F	1	00-01	RCV SOFT PEDAL	OFF, ON	01	0	×	×	×	0	×	0	×	×
		40	1		Rcv BANK SELECT SCALE TUNING C	OFF, ON -630+63 [cent]	01	0	×	×	X (Other Setting)	0	×	0	×	×
		42	1		SCALE TUNING C#	-630+63 [cent]	40	0	0	×	(Other Setting)	0	×	0	×	0
		43	1	00-7F	SCALE TUNING D	-630+63 [cent]	40	0	0	×	O (Other Setting)	0	×	0	×	0
		44	1	00-7F	SCALE TUNING D#	-630+63 [cent]	40	0	0	×	O (Other Setting)	0	×	0	×	0
		45	1		SCALE TUNING E	-630+63 [cent]	40	0	0	×	(Other Setting)	0	×	0	×	0
		46	1	00-7F	SCALE TUNING F	-630+63 [cent]	40	0	0	×	O(Other Setting)	0	×	0	×	0
		47	1		SCALE TUNING F#	-630+63 [cent]	40	0	0	×	(Other Setting)	0	×	0	×	0
		48 49	1		SCALE TUNING G SCALE TUNING G#	-630+63 [cent]	40	0	0	×	(Other Setting)	0	×	0	×	0
		49 4A	1			-630+63 [cent] -630+63 [cent]	40	0	0	×	O (Other Setting) O (Other Setting)	0	×	0	×	0
		4B	1		SCALE TUNING A#	-630+63 [cent]	40	0	0	×	(Other Setting)	0	×	0	×	0
		4C	1			-630+63 [cent]	40	0	0	×	(Other Setting)	0	×	0	×	0
		4D	1		CAT PITCH CONTROL	-240+24 [semitones]	40	0	Ö	×	×	Ō	×	ō	×	×
		4E	1		CAT LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	0	×	×	0	×	0	×	×
		4F	1		CAT AMPLITUDE CONTROL	-1000+100 [%]	40	0	0	×	×	0	×	0	×	×
		50	1	00-7F	CAT LEO EMOD DEPTH	0127	00	0	0	×	×	0	×	0	×	×
		51 52	1	00-7F 00-7F	CAT LFO FMOD DEPTH CAT LFO AMOD DEPTH	0127	00	0	0	×	×	0	×	0	×	×
		53	1	28-58	PAT PITCH CONTROL	-240+24 [semitones]	40	0	×	×	×	0	×	0	×	×
		54	1		PAT LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	0	×	0	×	×
	i		1 1				1.1									. ^

							(effec	MIDI Recepti		MIDI Transm (generated			PLAY		REC
Addres (H)	ss	Size (H)	Data (H)	Parameter	Description	XG Default (H)	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	-1000+100 [%]	40	0	×	×	×	0	×	0	×	×
	56	1	00-7F	PAT LFO PMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	57	1	00-7F	PAT LFO FMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	58	1	00-7F	PAT LFO AMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	59	1	00-5F	AC1 CONTROLLER NUMBER	095	10	0	×	×	×	0	×	0	×	×
	5A	1	28-58	AC1 PITCH CONTROL	-240+24 [semitones]	40	0	×	×	×	0	×	0	×	×
	5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	0	×	0	×	×
	5C	1	00-7F	AC1 AMPLITUDE CONTROL	-1000+100 [%]	40	0	×	×	×	0	×	0	×	×
	5D	1	00-7F	AC1 LFO PMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	5E	1	00-7F	AC1 LFO FMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	5F	1	00-7F	AC1 LFO AMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	60	1	00-5F	AC2 CONTROLLER NUMBER	095	11	0	×	×	×	0	×	0	×	×
	61	1	28-58	AC2 PITCH CONTROL	-240+24 [semitones]	40	10	×	×	×	0	×	0	×	×
	62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-96000+9450 [cent]	40	0	×	×	×	0	×	0	×	×
	63	1	00-7F	AC2 AMPLITUDE CONTROL	-1000+100 [%]	40	0	×	×	×	0	×	0	×	×
	64	1	00-7F	AC2 LFO PMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	65	1	00-7F	AC2 LFO FMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	66	1	00-7F	AC2 LFO AMOD DEPTH	0127	00	0	×	×	×	0	×	0	×	×
	67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	0	0	×	×	0	×	0	0	×
	68	1	00-7F	PORTAMENTO TIME	0127	00	0	0	×	×	ō	×	0	ō	×
	69	1	00-7F	PITCH EG INITIAL LEVEL	-640+63	40	0	×	×	×	ō	×	ō	×	×
	6A	1	00-7F	PITCH EG ATTACK TIME	-640+63	40	10	×	×	×	0	×	0	×	×
	6B	1	00-7F	PITCH EG RELEASE LEVEL	-640+63	40	10	×	×	×	0	×	0	×	×
	6C	1	00-7F	PITCH EG RELEASE TIME	-640+63	40	10	×	×	×	0	×	0	×	×
	6D	1	01-7F	VELOCITY LIMIT LOW	1127	01	0	×	×	×	0	×	0	×	×
	6E	1	01-7F	VELOCITY LIMIT HIGH	1127	7F	0	×	×	×	0	×	0	×	×
OTAL SIZ		3F	0.71	VECTOR I EIIII I IIIII		ļ	1 0		_ ^						
	70	1		NOT USED		-	T -	-	-	-	-	-	-	-	-
	71	1		NOT USED		-	-	-	-	-	-	-	-	-	-
	72	1	00-7F	EQ BASS GAIN	-12dB+12dB	40	0	0	×	(Voice Setting)	0	×	0	0	0
OTAL SIZ	73	1 04	00-7F	EQ TREBLE GAIN	-12dB+12dB	40	0	0	×	(Voice Setting)	0	×	0	0	0
- 11 LE OIZ				NOT USED			1 -			_	_	_	Γ_	-	
_	74 75	1		NOT USED			+-		_	-	_	_	_	-	-
	76	1	04-28	EQ BASS FREQUENCY	322.0k [Hz]	0C	0	0	×	(Voice Setting)	0	×	0	0	0
	77	1	1C-3A	EQ TREBLE FREQUENCY	50016.0k [Hz]	36	0	0	×	(Voice Setting)	0	×	0	0	0
	78	1		NOT USED	and the seal	-	-	-	-		-	-	-	-	-
	79	1		NOT USED		-	-	-	-	-	-	-	-	-	-
	7A	1		NOT USED		-	-	-	-	-	-	-	-	-	-
	7B 7C	1		NOT USED NOT USED			-	-	-	-	-	-	-	-	-
	7D	1		NOT USED			-	 -	_	_	_	_	_	-	-
	7E	1		NOT USED		-	-	-	-	-	-	-	-	-	-
	7F	1		NOT USED		-	-	-	-	-	-	-	-	-	-

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 Parameter Change table (DRUM SETUP)

								(effec	MIDI Recepti		MIDI Transm (generated			PL	.AY	REC
	Addres (H)	S	Size (H)	Data (H)	Parameter	Description	XG Default (H)	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	-640+63	40	0	×	×	×	0	×	0	×	×
		01	1	00-7F	PITCH FINE	-640+63 [cent]	40	0	×	×	×	0	×	0	×	×
		02	1	00-7F	LEVEL	0127	Depends on the note	0	×	×	×	0	×	0	×	×
		03	1	00-7F	ALTERNATE GROUP	OFF, 1127	Depends on the note	0	×	×	×	0	×	0	×	×
		04	1	00-7F	PAN	RND, L63CR63	Depends on the note	0	×	×	×	0	×	0	×	×
		05	1	00-7F	REVERB SEND	0127	Depends on the note	0	×	×	×	0	×	0	×	×
		06	1	00-7F	CHORUS SEND	0127	Depends on the note	0	×	×	×	0	×	0	×	×
		07	1	00-7F	VARIATION SEND	0127	7F	0	×	×	×	0	×	0	×	×
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	0	×	×	×	0	×	0	×	×
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	0	×	×	×	0	×	0	×	×
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	0	×	×	×	0	×	0	×	×
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-640+63	40	0	×	×	×	0	×	0	×	×
		0C	1	00-7F	LOW PASS FILTER RESO- NANCE	-640+63	40	0	×	×	×	0	×	0	×	×
		0D	1	00-7F	EG ATTACK RATE	-640+63	40	0	×	×	×	0	×	0	×	×
		0E	1	00-7F	EG DECAY1 RATE	-640+63	40	0	×	×	×	0	×	0	×	×
		0F	1	00-7F	EG DECAY2 RATE	-640+63	40	0	×	×	×	0	×	0	×	×
TOTA	L SIZE	=	10					•								
		20	1	00-7F	EQ BASS GAIN	-12+12 [dB]	40	0	×	×	×	0	×	0	×	×
		21	1	00-7F	EQ TREBLE GAIN	-12+12 [dB]	40	0	×	×	×	0	×	0	×	×
		22	1		NOT USED		-	-	-	-	-	-	-	-	-	-
		23	1		NOT USED		-	-	-	-	-	-	-	-	-	-
		24	1	04-28	EQ BASS FREQUENCY	322.0k [Hz]	0C	0	×	×	×	0	×	0	×	×
		25	1	1C-3A	EQ TREBLE FREQUENCY	50016.0k [Hz]	36	0	×	×	×	0	×	0	×	×
		26	1		NOT USED		-	-	-	-	-	-	-	-	-	-
		27	1		NOT USED		-	-	-	-	-	-	-	-	-	-
		28 29	1		NOT USED NOT USED		-	-	-	-	-	-	-	-	-	-
		29 2A	1		NOT USED			-	-	_	_	-	-	-	-	-
		2B	1	-	NOT USED	+	=	-		_	_	_	-	_	_	-
		2C	1		NOT USED	1	_	-	-	-	-	-	-	-	-	-
		2D	1		NOT USED		-	-	-	-	-	-	-	-	-	-

TOTAL SIZE

n: Drum Setup Number (0-1)

rr: note number (0D-5B)

In the following cases, the Clavinova 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

		· .										
			(effect	MIDI Reception (effective or not for each part) Main MiDI Reception			MIDI Transmission (generated data)				PLAY	
MIDI Event		Data Format				(affecting the panel)	Panel (main genera- tion method)	Song	Midi	PLAY	REW	Recorded from panel
	F0 7F XN 04	01 SS TT F7										
	11110000	F0 = Exclusive status									'	
	01111111	7F = Universal Real Time									'	
Mantanyahana	0xxxnnnn	XN = When N is received N=0-F,v received. X=ignored						×				
Master Volume	00000100	04 = Sub-ID #1=Device Control !	Message O	×	×	×	×	(Output as XG	×	0		×
	00000001	01 = Sub-ID #2=Master Volume						Master Volume)			'	
	0ssssss	SS = Volume LSB									'	
	0tttttt	TT = Volume MSB										
	11110111	F7 = End of Exclusive			1						'	

System Exclusive Messages (Universal Non Realtime messages)

		MIDI Reception (effective or not for each part)			MIDI Reception	MIDI Transmission (generated data)				PLAY	
MIDI Event	Data Format	Song	Main Layer Left Left-Layer	Keyboard	(affecting the panel)	Panel (main genera- tion 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 0xxxnnnn	0	×	×	(Voice Setting Reverb Type Chorus Type)	×	0	×	0	×	0

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)

					(effect	MIDI Reception		MIDI Reception				
MIDI Event				Data Format	Song	Main Layer Left Left-Layer	Keyboard	(affecting the panel)	Panel (main genera- tion method)	Song	Midi	
	F0	43 73 01	50	11 On 02 dd F7								
		11110000	F0	= Exclusive status								
		01000011	43	= YAMAHA ID								
		01110011	73	= Clavinova ID								
String Reso-		00000001	01	= Model ID (Clavinova common ID)	_	_		0	0	_		
nance Depth		01010000	50	= SubID	0	0	×	(Other Setting)	(Other Setting)	0	×	
		00010001	11	= SubID								
		0000nnnn	0n	= Channel (00–0F)								
		00000010	02	= SubID(String Resonance Depth)								
		0ddddddd	dd F7	= Depth(00–48) = End of Exclusive								
	F0	11110111 43 73 01	50	11 On 03 dd F7								
	FU	11110000	F0	= Exclusive status	-							
		01000011	43	= YAMAHA ID								
		01110011	73	= Clavinova ID								
		00000001	01	= Model ID (Clavinova common ID)								
Sustain Sample		01010000	50	= SubID	0	0	×	0	0	0	×	
Depth		00010001	11	= SubID			^	(Other Setting)	(Other Setting)		^	
		00010001 0000nnnn	0n	= Channel (00–0F)								
		00000011	03	= SubID(Sustain Sample Depth)								
		0ddddddd	dd	= Depth(00-48)								
		11110111	F7	= End of Exclusive								
	F0	43 73 01	50	11 On 04 dd F7								
		11110000	F0	= Exclusive status								
		01000011	43	= YAMAHA ID								
		01110011	73	= Clavinova ID								
W O# O		0000001	01	= Model ID (Clavinova common ID)								
Key Off Sam- pling Depth		01010000	50	= SubID	0	0	×	O (Other Setting)	(Other Setting)	0	×	
ping bepar		00010001	11	= SubID				(Other octarig)	(Other octarig)			
		0000nnnn	0n	= Channel (00-0F)								
		00000100	04	= SubID(Key Off Sampling Depth)								
		0ddddddd	dd	= Depth(00-50)								
		11110111	F7	= End of Exclusive								
	F0	43 73 01	50	11 On 05 dd F7								
		11110000	F0	= Exclusive status								
		01000011	43	= YAMAHA ID								
		01110011	73	= Clavinova ID								
Coff Dodal Door		00000001	01	= Model ID (Clavinova common ID)				0	1 0			
Soft Pedal Depth		01010000	50	= SubID = SubID	0	0	×	O (Other Setting)	(Other Setting)	0	×	
		00010001	11 0n	= SUDID = Channel (00–0F)								
		0000nnnn 00000101	0n 05	= Channel (00-0F) = SubID(Soft Pedal Depth)								
		0ddddddd	dd	= SubiD(Soft Pedal Depth) = Depth(00–7F)								
		0dadadad 11110111	F7	= Deptn(00-7F) = End of Exclusive								
		11110111	г/	= ETIU OT EXCIUSIVE								

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

System Exclusive Messages (Others)

						(effec	MIDI Reception		MIDI Reception	MIDI Transmission (generated data)			
MIDI Event					Data Format	Song	Main Layer Left Left-Layer	Keyboard	(affecting the	Panel (main genera- tion method)	Song	Midi	
	F0	43	1n 2										
		1:	1110000	F									
		0:	1000011	4	3 = YAMAHA ID								
		0.0	001nnnn	11	n = always 0(when transmit), n=0-F(when receive)								
		0.0	0100111	2	7 = Model ID of TG100								
MIDI Master		0.0	0110000	3	0 = Address High		_					l	
Tuning		0.0	000000	0	0 = Address Mid		0		(Other Setting)	×	0	×	
		0.0	000000	0	O = Address Low								
		0.0	000mmmm	Or	n = Master Tune MSB								
		0.0	0001111	0	I = Master Tune LSB								
		00	cccccc	C	c = don't care								
		1	1110111	F	7 = End of Exclusive								

Function		Transmitted	Recognized	Remarks
Basic	Default	1–16	1–16	
Channel	Changed	1–16	1–16	
Mode	Default	3	3	
	Messages	x	Х	
	Altered	*******	x	
Note		0–127	0–127	
Number:	True voice	******	0–127	
Velocity	Note ON	o 9nH , v = 1–127	o 9nH , v = 1–127	
	Note OFF	x 9nH , v = 0	x	
After Touch	Key's	x	x	
	Ch's	x	О	
Pitch Bend		0	o 0–24 semi	
Control	0, 32			Bank Select
	0, 32 1	0 X	0	Modulation
Change	5	X	0	Portament Time
	7, 10, 11	Ô	0	1 Ortainent Time
	6, 38	0	0	Data Entry
	64, 66, 67	0	0	Data Littry
	65	X	0	Portament
	71 , 74	0	0	Sound Controller
	71 , 74 72 , 73			Sound Controller
	72 , 73 84	X	0	Portament Control
		X	0	
	91, 93	0	0	Effect Depth
	94	×	0	Effect Depth
	96–97	X	0	RPN Inc,Dec
	98–99	X	0	NRPN LSB,MSB
	100–101	0	0	RPN LSB,MSB
	120	X	0	All Sound Off
Prog		o 0–127	o 0–127	
Change:	True #	******		
System Exclusiv	ve	0	0	
Common :	Song Pos.	x	x	
:	Song Sel.	x	x	
:	Tune		X	
•		X	X	
System :	Clock	0	X	
Real Time :	Commands	0	0	
Aux :	All Sound Off	х	o (120, 126–127)	
:	Reset All Cntrls	X	o (121)	
:	Local ON/OF All Notes OFF	X	X	
Messages :	Active Sense	0	0	
:	Reset	X	X	
Notes:		<u> </u>	1	1

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	CLP-175	CLP-170	CLP-150							
Keyboard		88 keys (A-1–C7)								
Sound Source	AWM Dynamic Stereo Sampling									
Polyphony		max. 128 voices								
Voice Selection	Panel preset for manual pe	erformance: 38 voices, XG voices	: 480 voices + 12 drum kits							
Effect	Reverb, Chorus, Brilliance, Vari iA	ation effect, Insertion effect × 3, FC	Reverb, Chorus, Brilliance, Variation effect, Insertion effect × 3							
Controls		Dual, Split								
Display		LCD								
Recording/Playback	16-trac	k recording/playback, tempo adju	ustment							
Disk Drive	3.5-inch floppy diskdrive (2DD and 2HD compatible)	-							
Pedal		Damper, Sostenuto, Soft								
Demo Songs	16	voice demo songs, 50 preset sor	ngs							
Jacks/Connectors		, PHONES X2, AUX IN(L/L+R,R) VEL FIXED)(L,R), TO HOST, USI								
Main Amplifiers	60W × 2 -	+ 20W × 2	60W × 2							
Speakers	16cm × 2, 10cm × 2, 3cm (DOME) × 2, 5cm × 2	16cm × 2, 10cm × 2, 3cm (DOME) × 2	16cm × 2, 5cm × 2							
Dimensions (W × D × H) (CLP-175: Lid up, CLP170/150: with music rest)	1435mm × 1147mm × 933mm [56-1/2" × 45-1/8" × 36-3/4"] (1435mm × 1147mm × 1390mm [56-1/2" × 45-1/8" × 54-7/16"])	1381mm × 513mm × 857mm [54-3/8" × 20-3/16" × 33-3/4"] (1381mm × 513mm × 1026mm [54-3/8" × 20-3/16" × 40-3/8"])	1381mm × 513mm × 853mm [54-3/8" × 20-3/16" × 33-9/16"] (1381mm × 513mm × 1022mm [54-3/8" × 20-3/16" × 40-1/4"])							
Weight	118kg, 260lbs., 2oz	84kg, 185lbs., 3oz	61.5kg, 135lbs., 9oz							
Accessories	Owner's Manual, Reference Bo Score Collection	Owner's Manual, Reference Booklet, "50 Greats for the Piano" Score Collection								

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