



Clavinova[®]

CLP-175

CLP-170

CLP-150

Reference Booklet

Referenzheft

Livret de référence

Folleto de referencia



Table of contents / Inhaltsverzeichnis / Table des matières / Índice de contenido

Normal (Default) Setting List / Liste der Grundeinstellungen (Default) / Liste des réglages normaux (par défaut) / Lista de ajustes normales (predeterminados).....	3
XG Voice List / XG Voice-Liste / Liste des voix XG / Lista de sonidos XG	6
XG Drum Kit List / Liste der Drum Kits (Schlagzeug-Sets) / Liste des kits de percussion XG / Lista del kit de batería XG ...	10
XG Effect Type List / Liste der XG-Effekttypen / Liste des types d'effets XG / Lista de tipos de efectos XG	12
Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos.....	13
Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets / Tabla de asignación de datos para efectos	20
MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI.....	22
MIDI Implementation Chart / MIDI Implementierung stabelle / Tableau d'implémentation MIDI / Gráfico de implementación MIDI.....	32
Specifications / Technische Daten / Spécifications / Especificaciones	33

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

Function		Value	Reference page in the Owner'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 (CLP-175/170)		ON	34	32
Metronome	Time signature	4/4	39	37
	Volume	100		
	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
Recording mode	Extra track channel: 3		45	43
	Start: Normal		43	41
	End: Replace		44	42
Character code		International	56	54

■ Song setting

Function	Value	Reference page in the Owner's Manual	
		CLP-175	CLP-170/150
Correcting note timing (Quantize)	Off	75	73
Swing rate (SwingRate)	50%		
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	Reference page in the Owner'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

■ Voice setting

Function	Value	Reference page in the Owner'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	Reference page in the Owner'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	Reference page in the Owner'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	Reference page in the Owner's Manual	
		CLP-175	CLP-170/150
Selecting a touch response (TouchResponse) Fixed volume	Medium	93	91
	64		
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	94	92
	C		
Specifying the Split Point (SplitPoint)	F#2	94	92
Change the key (Transpose) Transposition amount	Master	94	92
	0		
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
Selecting the items stored at shutdown (MemoryBackUp)	Transpose:Off	97	95
	Main/LeftVoice:Off		
	Metronome Setting:Off		
	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.

■ Bank Select MSB=00

[illegible]

: Same as Bank 0

: No sound

E : Element number

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

Instrument Group		Pgm#	Bank 0		Bank 0	Release		Rezo Sweep		Muted		Detune 1		Detune 2		Detune 3		Octave 1		Octave 2		5th 1		5th 2		Bend		Tutti	
			Bank Select LSB=00			Bank 25	E	Bank 27	E	Bank 28	E	Bank 32	E	Bank 33	E	Bank 34	E	Bank 35	E	Bank 36	E	Bank 37	E	Bank 38	E	Bank 39	E	Bank 40	E
Piano	1	Acoustic Grand Piano	GrandPno	2																								PianoStr	2
	2	Bright Acoustic Piano	BrlghtPno	2																									
	3	Electric Grand Piano	El Grand	2								Det.CP80	2															LayerCP1	2
	4	Honky-tonk Piano	HnkyTonk	2																									
	5	Electric Piano 1	E Piano1	2								Chor.EP1	2															HardEl.P	2
	6	Electric Piano 2	E Piano2	2								Chor.EP2	2	DX Hard	2	DXLegend	2											DX Phase	2
	7	Harpischord	Harpsi.	1	Harpsi.2	2											Harpsi.3	2											
	8	Clavi	Clavi.	2			ClavWah	2																					
Chromatic Percussion	9	Celesta	Celesta	1																									
	10	Glockenspiel	Glocken	1																									
	11	Music Box	MusicBox	2																									
	12	Vibraphone	Vibes	1																									
	13	Marimba	Marimba	1																									
	14	Xylophone	Xylophon	1																									
	15	Tubular Bells	TubulBel	1																									
	16	Dulcimer	Dulcimer	1													Dulcimr2												
Organ	17	Drawbar Organ 1	DrawOrgn	1								DetDrwOr	2	60sDrOr1	2	60sDrOr2	2	70sDrOr1	2	DrawOrg2	2	60sDrOr3	2	Even Bar	2			16+2'2/3	2
	18	Percussive Organ	PercOrgn	1								DetPrcOr	2	Lite Org	2														
	19	Rock Organ	RockOrgn	2																									
	20	Church Organ 1	ChrchOrg	2								ChurOrg3	2					ChurOrg2	2									NotreDam	
	21	Reed Organ	ReedOrgn	1																								Puff Org	2
	22	Accordion	Accordion	2								AccordIt	2																
	23	Hamonica	Harmnica	1								Harmo. 2	2																
	24	Tango Accordion	TangoAcD	2																									
Guitar	25	Acoustic Guitar (nylon) 1	NylonGtr	1	NylonG3	2																							
	26	Acoustic Guitar (steel)	SteelGtr	1																									
	27	Electric Guitar (jazz)	Jazz Gtr	1																								Nlyn&Stl	2
	28	Electric Guitar (clean)	CleanGtr	1								ChorusGt	2																
	29	Electric Guitar (muted)	Mute.Gtr	1																									
	30	Overdriven Guitar	Ovrdrive	1																								FunkGtr1	2
	31	Distortion Guitar	Dist.Gtr	1																								FeedbkGt	2
	32	Guitar Harmonics	GtrHarmo	1																									
Bass	33	Acoustic Bass	Aco.Bass	1																								JazzRthm	2
	34	Electric Bass (finger)	FngrBass	1				FlangeBa	2		MutePkBa	1																Ba&DstIEG	2
	35	Electric Bass (pick)	PickBass	1																									
	36	Fretless Bass	Fretless	1																									
	37	Slap Bass 1	SlapBas1	1				ResoSlap	1																				
	38	Slap Bass 2	SlapBas2	1																									
	39	Synth Bass 1	SynBass1	1																								TechnoBa	2
	40	Synth Bass 2	SynBass2	2																								ModulBa	2
Strings	41	Violin	Violin	1																									
	42	Viola	Viola	1																									
	43	Cello	Cello	1																									
	44	Contrabass	Contrabs	1																									
	45	Tremolo Strings	Trem.Str	1																								Susp.Str	2
	46	Pizzicato Strings	Pizz.Str	1																									
	47	Orchestral Harp	Harp	1																								YangChin	2
	48	Trimpini	Trimpini	1																									
Ensemble	49	String Ensemble 1	Strings1	1																								Orchestr	2
	50	String Ensemble 2	Strings2	1																								Warm Str	2
	51	Synth Strings 1	Syn.Str1	2				Reso Str	2																				
	52	Synth Strings 2	Syn.Str2	2																									
	53	Choir Aahs	ChoirAah	1																								ChoirStr	2
	54	Voice Oohs	VoiceOoh	1																									
	55	Synth Voice	SynVoice	1																								SyVoice2	2
	56	Orchestra Hit	Orch.Hit	2																									
Brass	57	Trumpet	Trumpet	1																									
	58	Trombone	Trombone	1									Warm Trp	2															
	59	Tuba	Tuba	1																									
	60	Muted Trumpet	Mute.Trp	1																									

: Same as Bank 0

: No sound

E : Element number

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

Instrument Group	Pgm#	Velo-Switch										Velo-Xfade										other wave									
		Bank 0 Bank Select LSB=00		Bank 0	E	Bank 41	E	Bank 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	E		
Piano	1	Acoustic Grand Piano	GrandPno	2	Dream	2																									
	2	Bright Acoustic Piano	BritePno	2																											
	3	Electric Grand Piano	El Grand	2	LayerCP2	2																									
	4	Honky-tonk Piano	HnkyTonk	2																											
	5	Electric Piano 1	E Piano1	2								VX ElP1	2	60sELP1	1																
	6	Electric Piano 2	E Piano2	2	DX+Analg	2	DXKotoEP	2				VX ElP2	2																		
	7	Harpsichord	Harpsi.	1																											
	8	Clavi	Clavi.	2										PulseClv	1	PierceCl	2														
Chromatic Percussion	9	Celesta	Celesta	1																											
	10	Glockenspiel	Glocken	1																											
	11	Music Box	MusicBox	2										Orgel	2																
	12	Vibraphone	Vibes	1							HardVibe	2																			
	13	Marimba	Marimba	1										SineMrb	2																
	14	Xylophone	Xylophon	1																											
	15	Tubular Bells	TubulBel	1																											
Organ	16	Olcimer	Dulcimer	1																											
	17	Drawbar Organ 1	DrawOrgn	1										Organ Ba	1	70sDrOr2	2	CheezOrg	2	DrawOrg3	2										
	18	Percussive Organ	PerOrgn	1																											
	19	Rock Organ	RockOrgn	2										RotaryOr	2	SloRotar	2	FstRotar	2												
	20	Church Organ 1	ChrchOrg	2										OrgFlute	2	TrnOrgFl	2														
	21	Reed Organ	ReedOrgn	1																											
	22	Accordion	Acordion	2																											
	23	Hamonica	Harmnica	1																											
Guitar	24	Tango Accordion	TangoAcd	2										TngoAcd2	2																
	25	Acoustic Guitar (nylon)	NylonGtr	1																											
	26	Acoustic Guitar (steel)	SteelGtr	1	Stl&Body	2																									
	27	Electric Guitar (jazz)	Jazz Gtr	1																											
	28	Electric Guitar (clean)	CleanGtr	1																											
	29	Electric Guitar (muted)	Mute.Gtr	1	MuteStIG	2					FunkGtr2	2	Jazz Man	1																	
	30	Overdriven Guitar	Ovrdrive	1							Gt.Pinch	2																			
	31	Distortion Guitar	Dist.Gtr	1	FeedbkG2	2												GIFeedbk	1	GtrHrmo2	1										
Bass	32	Guitar Harmonics	GtrHarmo	1																											
	33	Acoustic Bass	Ac.Bass	1								VXUpgrht	2																		
	34	Electric Bass (finger)	FngrBass	1							FngrSlap	2	FngBass2	2				Mod.Bass	2												
	35	Electric Bass (pick)	PickBass	1																											
	36	Fretless Bass	Fretless	1																											
	37	Slap Bass 1	SlapBas1	1																											
	38	Slap Bass 2	SlapBas2	1																											
	39	Synth Bass 1	SynBass1	1																											
Strings	40	Synth Bass 2	SynBass2	2	DX Bass	2								Orbiter	2	Sqr.Bass	1	RubberBa	2												
	41	Violin	Violin	1										X WireBa	2																
	42	Viola	Viola	1																											

: Same as Bank 0

■ : No sound

E : Element number

■ Bank Select MSB=64

[illegible]

: Same as Bank 0

■ : No sound

E : Element number

Pch#	SFX		E
1	CuttingNz	Bank 0	1
2	CtingNz2		2
3			
4	Str Slap		1
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17	Fl.KClk		1
18			
19	Thunder		
20	Wind		1
21			
22	Stream	2	
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33	Shower	1	
34			
35	Wind	1	
36			
37	Bubble	2	
38	Feed	2	
39			
40			
41			
42			
43			
44			
45			
46			
47			
48	Dog	1	
50	Horse	1	
51	Tweet2	1	
52			
53			
54			
55	Ghost	2	
56	Maou	2	
57			
58			
59			
60			
62			
63			
64			
65	PhoneCall	1	
66	DoorSeqk	1	
67	Door Slam	1	
68	ScratchC	1	
69	ScratchS	2	
70	WindChem	1	
71	Telephon2	1	
72			
73			
74			
75			
76			
77			
78			
79			
80			
81	CarEight	1	
82	CarTSeq1	1	
83	Car Pass	1	
84	CarCrash	1	
85	Siren	2	
86	Train	1	
87	JetPlane	2	
88	Starship	2	
89	Burst	2	
90	Coaster	2	
91	Submarine	2	
92			
93			
94			
95			
96			
97	Laugh	1	
98	Scream	1	
99	Punch	1	
100	Hurt	1	
101	Footstep	1	
102			
103			
104			
105			
106			
107	WindGun	1	
108			
109			
110			
111			
112			
113	MchinGun	1	
114	LaserGun	2	
115	Xplosion	2	
116	Firework	2	
117			
118			
119			
120			
121			
122			
123			
124			
125			
126			
127			
128			

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.
- 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.

Same as Standard Kit 1
 No Sound

Bank Select MSB (0-127)				127	127	127	127	127	127	127
Bank Select LSB (0-127)				0	0	0	0	0	0	0
Program Change (1-128)				1	2	9	17	25	26	28
MIDI	Key	Alternate	Group	Standard Kit1	Standard Kit2	Room Kit	Rock Kit	Electro Kit	Analog Kit	Dance Kit
Note#	Note	Off								
13	C#-1		3	Surdo Mute						
14	D-1		3	Surdo Open						
15	D#-1			Hi Q						
16	E-1			Whip Slap						
17	F-1		4	Scratch H						
18	F#-1		4	Scratch L						
19	G-1			Finger Snap						
20	G#-1			Click Noise						
21	A-1			Metronome Click						
22	A#-1			Metronome Bell						
23	B-1			Seq Click L						
24	C0			Seq Click H						
25	C#0			Brush Tap						
26	D0	O		Brush Swirl						
27	D#0			Brush Slap						
28	E0	O		Brush Tap Swirl				Reverse Cymbal	Reverse Cymbal	Reverse Cymbal
29	F0	O		Snare Roll						
30	F#0			Castanet				Hi Q 2	Hi Q 2	Hi Q 2
31	G0			Snare Soft	Snare Soft 2		Snare Noisy	Snare Snappy Electro	Snare Noisy 4	Snare Techno
32	G#0			Sticks						
33	A0			Kick Soft				Kick 3	Kick 3	Kick Techno Q
34	A#0			Open Rim Shot	Open Rim Shot H Short					Rim Gate
35	B0			Kick Tight			Kick 2	Kick Gate	Kick Analog Short	Kick Techno L
36	C1			Kick	Kick Short		Kick Gate	Kick Gate Heavy	Kick Analog	Kick Techno
37	C#1			Side Stick	Side Stick Light				Side Stick Analog	Side Stick Analog
38	D1			Snare	Snare Short	Snare Snappy	Snare Rock	Snare Noisy 2	Snare Analog	Snare Clap
39	D#1			Hand Clap						
40	E1			Snare Tight	Snare Tight H	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 3	Snare Analog 2	Snare Dry
41	F1			Floor Tom L		Tom Room 1	Tom Rock 1	Tom Electro 1	Tom Analog 1	Tom Analog 1
42	F#1		1	Hi-Hat Closed					Hi-Hat Closed Analog	Hi-Hat Closed 3
43	G1			Floor Tom H		Tom Room 2	Tom Rock 2	Tom Electro 2	Tom Analog 2	Tom Analog 2
44	G#1		1	Hi-Hat Pedal					Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3
45	A1			Low Tom		Tom Room 3	Tom Rock 3	Tom Electro 3	Tom Analog 3	Tom Analog 3
46	A#1		1	Hi-Hat Open					Hi-Hat Open Analog	Hi-Hat Open 3
47	B1			Mid Tom L		Tom Room 4	Tom Rock 4	Tom Electro 4	Tom Analog 4	Tom Analog 4
48	C2			Mid Tom H		Tom Room 5	Tom Rock 5	Tom Electro 5	Tom Analog 5	Tom Analog 5
49	C#2			Crash Cymbal 1					Crash Analog	Crash Analog
50	D2			High Tom		Tom Room 6	Tom Rock 6	Tom Electro 6	Tom Analog 6	Tom Analog 6
51	D#2			Ride Cymbal 1						
52	E2			Chinese Cymbal						
53	F2			Ride Cymbal Cup						
54	F#2			Tambourine						
55	G2			Splash Cymbal						
56	G#2			Cowbell					Cowbell Analog	Cowbell Analog
57	A2			Crash Cymbal 2						
58	A#2			Vibraslap						
59	B2			Ride Cymbal 2						
60	C3			Bongo H						
61	C#3			Bongo L						
62	D3			Conga H Mute					Conga Analog H	Conga Analog H
63	D#3			Conga H Open					Conga Analog M	Conga Analog M
64	E3			Conga L					Conga Analog L	Conga Analog L
65	F3			Timbale H						
66	F#3			Timbale L						
67	G3			Agogo H						
68	G#3			Agogo L						
69	A3			Cabasa						
70	A#3			Maracas					Maracas 2	Maracas 2
71	B3	O		Samba Whistle H						
72	C4	O		Samba Whistle L						
73	C#4			Guiro Short						
74	D4	O		Guiro Long						
75	D#4			Claves					Claves 2	Claves 2
76	E4			Wood Block H						
77	F4			Wood Block L						
78	F#4			Cuica Mute				Scratch H 2	Scratch H 2	Scratch H 2
79	G4			Cuica Open				Scratch L 2	Scratch L 2	Scratch L 2
80	G#4		2	Triangle Mute						
81	A4		2	Triangle Open						
82	A#4			Shaker						
83	B4			Jingle Bells						
84	C5			Bell Tree						
85	C#5									
86	D5									
87	D#5									
88	E5									
89	F5									
90	F#5									
91	G5									

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

Bank Select MSB (0-127)			127	127	127	126	126
Bank Select LSB (0-127)			0	0	0	0	0
Program Change (1-128)			33	41	49	1	2
MIDI Note#	Note	Key Off	Alternate Group	Jazz Kit	Brush Kit	Symphony Kit	SFX Kit1
							SFX Kit2
13	C#-1		3				
14	D-1		3				
15	D#-1						
16	E-1						
17	F-1		4				
18	F#-1		4				
19	G-1						
20	G#-1						
21	A-1						
22	A#-1						
23	B-1						
24	C0						
25	C#0						
26	D0	O					
27	D#0						
28	E0	O					
29	F0	O					
30	F#0						
31	G0			Snare Jazz H	Brush Slap 2		
32	G#0						
33	A0					Kick Soft 2	
34	A#0				Open Rim Shot Light		
35	B0					Gran Cassa	
36	C1			Kick Jazz	Kick Jazz	Gran Cassa Mute	Cutting Noise
37	C#1			Side Stick Light	Side Stick Light		Cutting Noise 2
38	D1			Snare Jazz L	Brush Slap 3	Band Snare	Door Slam
39	D#1						String Slap
40	E1			Snare Jazz M	Brush Tap 2	Band Snare 2	Scratch Cut
41	F1				Tom Brush 1		Scratch H 3
42	F#1		1				Wind Chime
43	G1				Tom Brush 2		Telephone Ring 2
44	G#1		1				
45	A1				Tom Brush 3		
46	A#1		1				
47	B1				Tom Brush 4		
48	C2				Tom Brush 5		
49	C#2					Hand Cymbal	
50	D2				Tom Brush 6		
51	D#2					Hand Cymbal Short	
52	E2						Flute Key Click
53	F2						Car Engine Ignition
54	F#2						Car Tires Squeal
55	G2						Car Passing
56	G#2						Car Crash
57	A2						Siren
58	A#2					Hand Cymbal 2	Train
59	B2					Hand Cymbal 2 Short	Jet Plane
60	C3						Starship
61	C#3						Burst
62	D3						Roller Coaster
63	D#3						Submarine
64	E3						
65	F3						
66	F#3						
67	G3						
68	G#3						Shower
69	A3						Laugh
70	A#3						Thunder
71	B3	O					Scream
72	C4	O					Wind
73	C#4						Punch
74	D4	O					Stream
75	D#4						Heart Beat
76	E4						Bubble
77	F4						Foot Steps
78	F#4						Feed
79	G4						
80	G#4		2				
81	A4		2				
82	A#4						
83	B4						
84	C5						Dog
85	C#5						Horse
86	D5						Bird Tweet 2
87	D#5						Explosion
88	E5						Firework
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	Symphonic

■ 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

All variation/insertion effects

Type MSB	Type LSB	Effect Name
0	0	No Effect
1	0	Hall 1
1	1	Hall 2
1	6	Hall M
1	7	Hall L
1	17	(Hall)
1	19	(Hall)
2	0	Room 1
2	1	Room 2
2	2	Room 3
2	5	Room S
2	6	Room M
2	7	Room L
2	17	(Room)
3	0	Stage 1
3	1	Stage 2
3	17	(Stage)
3	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	0	Gate Reverb*
11	0	Reverse Gate*
16	0	White Room*
17	0	Tunnel*
18	0	Canyon*
19	0	Basement*
20	0	Karaoke 1*
20	1	Karaoke 2*
20	2	Karaoke 3*
21	0	Tempo Delay*
21	8	Tempo Echo*
22	0	Tempo Cross*
64	0	THRU
65	0	Chorus1
65	1	Chorus2
65	2	Chorus3
65	3	GM Chorus 1
65	4	GM Chorus 2
65	5	GM Chorus 3
65	6	GM Chorus 4
65	7	FB Chorus
65	8	Chorus 4
66	0	Celeste 1
66	1	Celeste 2
66	2	Celeste 3
66	8	Celeste 4
66	18	(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	1	DIST+ROT SP*
69	2	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	0	TOUCH WAH1
82	1	TOUCH WAH+DIST*
82	2	TOUCH WAH+OD*
82	8	TOUCH WAH 2
83	0	COMPRESSOR*
84	0	NOISE GATE*
85	0	VOICE CANCEL*
86	0	2WAY ROT SP*
86	1	DIST+2ROTSP*
86	2	OD + 2ROT SP*
86	3	A SIM + 2ROT SP*
87	0	ENS DETUNE*
88	0	AMBIENCE*
93	0	TALK MOD*
94	0	LO-FI*
95	0	DIST+DELAY*
95	1	OD+DELAY*
96	0	CMP+DIST+DLY*
96	1	CMP+OD+DLY*
97	0	WAH+DIST+DLY*
97	1	WAH+OD+DLY*
98	0	V DIST HARD*
98	1	V DIST H+DLY*
98	2	V DIST SOFT*
98	3	V DIST S+DLY*
99	0	DUAL ROTSP1*
99	1	DUAL ROTSP2*
100	0	DIST+T DELAY*
100	1	OD+T DELAY*
101	0	CMP+DIST+TDLY*
101	1	CMP+OD+T DLY*
102	0	WAH+DIST+TDLY*
102	1	WAH+OD+T DLY*
103	0	V DIST H+TDLY*
103	1	V DIST S+T DLY*
119	0	VIBE VIBRATE**

* Variation only

** Insertion only

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

- Parameters marked with a ● in the "Control" column can be controlled from an AC1 (assignable controller 1) etc. However, 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	1-127		●
11	Rev Delay	0.1mS-99.3mS	0-63	table#5	
12	Density	0-4 (reverb, variation block) 0-2 (insertion block)	0-4 0-2		
13	Er/Rev Balance	E63>R - E=R - E<R63	1-127		
14	High Damp	0.1-1.0	1-10		
15	Feedback Level	-63+63	1-127		
16					

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

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-1486.0ms	1-14860		
2	Rch Delay	0.1-1486.0ms	1-14860		
3	Cch Delay	0.1-1486.0ms	1-14860		
4	Feedback Delay	0.1-1486.0ms	1-14860		
5	Feedback Level	-63+63	1-127		
6	Cch Level	0-127	0-127		
7	High Damp	0.1-1.0	1-10		
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	-12+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	-12+12dB	52-76		

DELAY L, R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-1486.0ms	1-14860		
2	Rch Delay	0.1-1486.0ms	1-14860		
3	Feedback Delay 1	0.1-1486.0ms	1-14860		
4	Feedback Delay 2	0.1-1486.0ms	1-14860		
5	Feedback Level	-63+63	1-127		
6	High Damp	0.1-1.0	1-10		
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	-12+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	-12+12dB	52-76		

ECHO (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1-743.0ms	1-7430		
2	Lch Feedback Level	-63+63	1-127		
3	Rch Delay1	0.1-743.0ms	1-7430		
4	Rch Feedback Level	-63+63	1-127		
5	High Damp	0.1-1.0	1-10		
6	Lch Delay2	0.1-743.0ms	1-7430		
7	Rch Delay2	0.1-743.0ms	1-7430		
8	Delay2 Level	0-127	0-127		
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	-12+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	-12+12dB	52-76		

CROSS DELAY (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	0.1-743.0ms	1-7430		
2	R->L Delay	0.1-743.0ms	1-7430		
3	Feedback Level	-63+63	1-127		
4	Input Select	L, R, L&R	0-2		
5	High Damp	0.1-1.0	1-10		
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	-12+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	-12+12dB	52-76		

EARLY REF1, EARLY REF2 (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5		
2	Room Size	0.1-7.0	0-44	table#6	
3	Diffusion	0-10	0-10		
4	Initial Delay	0.1mS-200.0mS	0-127	table#5	
5	Feedback Level	-63+63	1-127		
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0k-Thru	34-60	table#3	
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Liveness	0-10	0-10		
12	Density	0-3	0-3		
13	High Damp	0.1-1.0	1-10		
14					
15					
16					

GATE REVERB

REVERSE GATE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Type	TypeA, TypeB	0-1		
2	Room Size	0.1-7.0	0-44	table#6	
3	Diffusion	0-10	0-10		
4	Initial Delay	0.1mS-200.0mS	0-127	table#5	
5	Feedback Level	-63+63	1-127		
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0k-Thru	34-60	table#3	
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Liveness	0-10	0-10		
12	Density	0-3	0-3		
13	High Damp	0.1-1.0	1-10		
14					
15					
16					

WHITE ROOM

TUNNEL

CANYON

BASEMENT (reverb, variation block)

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3-30.0s	0-69	table#4	
2	Diffusion	0-10	0-10		
3	Initial Delay	0.1mS-99.3mS	0-63	table#5	
4	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k-Thru	34-60	table#3	
6	Width	0.5-10.2m	0-37	table#11	
7	Height	0.5-20.2m	0-73	table#11	
8	Depth	0.5-30.2m	0-104	table#11	
9	Wall Vary	0-30	0-30		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11	Rev Delay	0.1mS-99.3mS	0-63	table#5	
12	Density	0-4	0-4		
13	Er/Rev Balance	E63>R - E=R - E<R63	1-127		
14	High Damp	0.1-1.0	1-10		
15	Feedback Level	-63+63	1-127		
16					

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

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	1-127		
11					
12					
13					
14					
15					
16					

TEMPO DELAY

TEMPO ECHO (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3-4thx6	0-19	table#14	●
2	Feedback Level	-63-+63	1-127		
3	Feedback High Dump	0-1.0	0-10		
4	L/R Diffusion	1(-63ms)-64(0ms)-127(63ms)	1-127		
5	Lag	1(-63ms)-64(0ms)-127(63ms)	1-127		
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40		
14	EQ Low Gain	-12-+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58		
16	EQ High Gain	-12-+12dB	52-76		

TEMPO CROSS (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time L>R	64th/3-4thx6	0-19	table#14	●
2	Delay Time R>L	64th/3-4thx6	0-19	table#14	
3	Feedback Level	-63-+63	1-127		
4	Input Select	L, R, L&R	0-2		
5	Feedback High Dump	0-1.0	0-10		
6	Lag	1(-63ms)-64(0ms)-127(63ms)	1-127		
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40		
14	EQ Low Gain	-12-+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58		
16	EQ High Gain	-12-+12dB	52-76		

CHORUS1, 2, 3, 4

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

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	LFO Depth	0-127	0-127		
3	Feedback Level	-63-+63	1-127		
4	Delay Offset	0.0mS-50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12-+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15	Input Mode	mono/stereo	0-1		
16					

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

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	LFO Depth	0-127	0-127		
3	Feedback Level	-63-+63	1-127		
4	Delay Offset	0.0mS-50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12-+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14	LFO Phase Difference	-180-+180deg(resolution=3deg.)	4-124		
15					
16					

SYMPHONIC (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	LFO Depth	0-127	0-127		
3	Delay Offset	0.0mS-50mS	0-127	table#2	
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12-+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15					
16					

ROTARY SPEAKER (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	LFO Depth	0-127	0-127		
3					
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	EQ Mid Frequency (variation block)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (variation block)	-12-+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15					
16					

DISTORTION+ROTARY SPEAKER

OVERDRIVE+ROTARY SPEAKER (variation block)

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

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

AMP SIM.+ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0-39.7Hz	0-127		●
2	LFO Depth	0-127	0-127		
3	AMP Type	Off, Stack, Combo, Tube	0-3		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40		table#3
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<W=63	1-127		
11					
12					
13					
14	Drive	0-127	0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level	0-127	0-127		

TREMOLO (variation insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	AM Depth	0-127	0-127		
3	PM Depth	0-127	0-127		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	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	table#3
12	EQ Mid Gain (variation block)	-12-+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14	LFO Phase Difference	-180-+180deg(resolution=3deg.)	4-124		
15	Input Mode	mono/stereo	0-1		
16					

AUTO PAN (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	L/R Depth	0-127	0-127		
3	F/R Depth	0-127	0-127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0-5		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	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	table#3
12	EQ Mid Gain (variation block)	-12-+12dB	52-76		
13	EQ Mid Width (variation block)	1.0-12.0	10-120		
14					
15					
16					

PHASER 1 (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Phase Shift Offset	0-127	0-127		
4	Feedback Level	-63-+63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	table#3
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Stage	4-22 (chorus, variation block)	4-22		●
12	Diffusion	4-12 (insertion block)	4-12		
13		mono/stereo	0-1		
14					
15					
16					

PHASER 2 (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Phase Shift Offset	0-127	0-127		
4	Feedback Level	-63-+63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	table#3
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Stage	3-11	3-6		●
12					
13	LFO Phase Difference	-180deg-+180deg(resolution=3deg.)	4-124		
14					
15					
16					

DISTORTION

OVERDRIVE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
3	EQ Low Gain	-12-+12dB	52-76		
4	LPF Cutoff	1.0k-Thru	34-60	table#3	
5	Output Level	0-127	0-127		
6					table#3
7	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
8	EQ Mid Gain	-12-+12dB	52-76		
9	EQ Mid Width	1.0-12.0	10-120		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Edge(Clip Curve)	0-127	0-127	mild-sharp	
12					
13					
14					
15					
16					

COMP+DIST (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
3	EQ Low Gain	-12-+12dB	52-76		
4	LPF Cutoff	1.0k-Thru	34-60	table#3	
5	Output Level	0-127	0-127		
6					table#3
7	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
8	EQ Mid Gain	-12-+12dB	52-76		
9	EQ Mid Width	1.0-12.0	10-120		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Edge(Clip Curve)	0-127	0-127	mild-sharp	table#8
12	Attack	1ms-40ms	0-19	table#8	
13	Release	10ms-680ms	0-15	table#9	
14	Threshold	-48dB- -6dB	79-121		
15	Ratio	1.0-20.0	0-7	table#10	
16					

STEREO DISTORTION

STEREO OVER DRIVE (variation block)

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

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

AMP SIMULATOR (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127	table#3	●
2	AMP Type	Off, Stack, Combo, Tube	0-3		
3	LPF Cutoff	1.0k-Thru	34-60		
4	Output Level	0-127	0-127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127	mild-sharp	
11	Edge(Clip Curve)	0-127	0-127		
12					
13					
14					
15					
16					

STEREO AMP SIMULATOR (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	AMP Type	Off, Stack, Combo, Tube	0-3		
3	LPF Cutoff	1kHz-Thru	34-60		
4	Output Level	0-127	0-127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Edge(Clip Curve)	0-127	0-127		
12					
13					
14					
15					
16					

3BAND EQ(MONO) (variation block)

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12-+12dB	52-76	table#3	
2	EQ Mid Frequency	100Hz-10.0kHz	14-54		
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	table#3	
6	EQ Low Frequency	50Hz-2.0kHz	8-40		
7	EQ High Frequency	500Hz-16.0kHz	28-58		
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono/stereo	0-1		
16					

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

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
2	EQ Low Gain	-12-+12dB	52-76		
3	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
4	EQ High Gain	-12-+12dB	52-76		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

AUTO WAH (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Cutoff Frequency Offset	0-127	0-127		
4	Resonance	1.0-12.0	10-120		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		

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

AUTO WAH+DIST

AUTO WHA+ODRV (variation block)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Cutoff Frequency Offset	0-127	0-127		
4	Resonance	1.0-12.0	10-120		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Drive	0-127	0-127		
12	EQ Low Gain(distortion)	-12+12dB	52-76		
13	EQ Mid Gain(distortion)	-12+12dB	52-76		
14	LPF Cutoff	1.0kHz-thru	34-60	table#3	
15	Output Level	0-127	0-127		
16					

PITCH CHANGE 1 (variation block)

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

PITCH CHANGE 2 (variation block)

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

HARMONIC ENHANCER (variation block)

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

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

TOUCH WAH 1

TOUCH WAH+DIST (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	0-127	0-127		●
2	Cutoff Frequency Offset	0-127	0-127		
3	Resonance	1.0-12.0	10-120		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Drive (variation block)	0-127	0-127		
12					
13					
14					
15					
16					

TOUCH WAH 2

TOUCH WAH+ODRV (variation, insertion block)

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	0-127	0-127		●
2	Cutoff Frequency Offset	0-127	0-127		
3	Resonance	1.0-12.0	10-120		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		
11	Drive (variation block)	0-127	0-127		
12	EQ Low Gain (variation block) (distortion)	-12-+12dB	52-76		
13	EQ Mid Gain (variation block) (distortion)	-12-+12dB	52-76		
14	LPF Cutoff (variation block)	1.0kHz-thru	34-60	table#3	
15	Output Level (variation block)	0-127	0-127		
16	Release (variation block)	10-680mS	52-67	table#12	

COMPRESSOR (variation block)

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

NOISE GATE (variation block)

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

VOICE CANCEL (variation block)

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

2WAY ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0Hz-39.7Hz	0-127	table#1	●
2	Drive Low	0-127	0-127		
3	Drive High	0-127	0-127		
4	Low/High	L63>H - L=H - L<H63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10					
11	Crossover Frequency	100Hz-10.0kHz	14-54	table#3	
12	Mic L-R Angle	0deg-180deg(resolution=3deg.)	0-60		
13					
14					
15					
16					

DIST+2WAY ROTARY SPEAKER

OD+2WAY ROTARY SPEAKER (variation block)

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

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

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

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

ENSEMBLE DETUNE (variation block)

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

AMBIENCE (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.0mS-50mS	0-127	table#2	
2	Output Phase	normal/invers	0-1		
3					
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12-+12dB	52-76		
10	Dry/Wet	D63>W - D=W - D<W63	1-127		●
11					
12					
13					
14					
15					
16					

TALKING MODULATION (variation block)

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

LO-FI (variation block)

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

DIST+DELAT

OVERDRIVE+DELAT (variation block)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay Time	0.1-1486.0ms	1-14860		
2	Rch Delay Time	0.1-1486.0ms	1-14860		
3	Delay Feedback 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	1-127		●
11					
12					
13					
14					
15					
16					

COMP+DIST+DELAT

COMP+OVERDRIVE+DELAT (variation block)

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

WAH+DIST+DELAT

WAH+OVERDRIVE+DELAT (variation block)

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

V DISTORTION HARD

V DISTORTION SOFT (variation block)

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