



Clavinova®

CVP-900

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YAMAHA

Voice List / Voice-Liste / Liste des voix / Lista de voces

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number	
			MSB	LSB		
PIANO & HARPSI.	GrandPiano1	Natural!	0	122	0	
	GrandPiano2	Live!	0	122	1	
	Piano&Str	Natural!	0	125	0	
	Piano&Choir	Natural!	0	126	0	
	Oct.Piano1	Natural!	0	123	3	
	Harpischrd8'	Natural!	0	122	6	
	Hc8'+4'	Natural!	0	123	6	
	Harpsi&Str	Natural!	0	124	6	
	Piano&EP	Natural!	0	122	2	
	Oct.Piano2	Natural!	0	124	3	
	BrightPiano	Natural!	0	123	0	
	MellowPiano	Natural!	0	124	0	
	RockPiano	Natural!	0	124	2	
	HonkyTonk	Natural!	0	122	3	
	CP 80	Natural!	0	123	2	
	GrandPiano	Live!	0	113	0	
	Grand Piano	-	0	112	0	
	BrightPiano	-	0	112	1	
	Rock Piano	-	0	114	2	
	Midi Grand	-	0	112	2	
	Honky Tonk	-	0	112	3	
	Oct. Piano 1	-	0	113	3	
	Oct. Piano 2	-	0	114	3	
	Harpischord	-	0	112	6	
	GrandHarpsi	-	0	113	6	
	CP 80	-	0	113	2	
	E.PIANO	DX EP	Natural!	0	122	5
		DX Bright EP	Natural!	0	123	5
		E.Piano	Natural!	0	122	4
		Tremolo EP	Natural!	0	124	4
		FunkyEP	Natural!	0	123	4
		Galaxy EP	-	0	114	4
		Stage EP	-	0	117	4
E.Piano		Cool!	0	119	4	
E.Clavichord		Natural!	0	122	7	
Wah E.Clavi		Natural!	0	123	7	
Polaris EP		-	0	115	4	
Jazz Chorus		-	0	118	5	
Hyper Tines		-	0	113	5	
Phase EP		-	0	120	4	
New Tines		-	0	116	5	
Funk EP		-	0	112	4	
DX Modern		-	0	112	5	
Vintage EP		-	0	116	4	
Clavi		-	0	112	7	
Wah Clavi		-	0	113	7	
Venus EP		-	0	114	5	
Modem EP		-	0	115	5	
Tremolo EP		-	0	113	4	
Super DX		-	0	117	5	
Suitcase EP		-	0	118	4	
ORGAN & ACCORDION		PipeOrganP	Natural!	0	123	19
		PipeOrg F11	Natural!	0	124	19
		PipeOrg F12	Natural!	0	125	19
	PipeOrg Tu	Natural!	0	122	19	
	ChapelOrgn1	-	0	113	19	
	ChapelOrgn2	-	0	114	19	
	ChapelOrgn3	-	0	115	19	
	Pipe Organ	-	0	112	19	
	TheatreOrg1	-	0	114	16	
	TheatreOrg2	-	0	114	17	
	Elec.Organ	Cool!	0	118	18	
	Rotor Organ	-	0	117	18	
	Rock Organ1	-	0	112	18	
	Dance Organ	-	0	113	17	
	Gospel Org	-	0	119	16	
	Jazz Organ	Cool!	0	117	16	
	Purple Org	-	0	114	18	
	Jazz Organ1	-	0	112	16	
	Rock Organ2	-	0	113	18	
	RotaryDrive	-	0	116	18	
	Full Rocker	-	0	115	18	
	Elec.Organ	-	0	118	17	
	DrawbarOrg	-	0	115	16	
	Click Organ	-	0	112	17	
	Stadium Org	-	0	118	16	
	Mellow Draw	-	0	115	17	
	Jazz Organ2	-	0	113	16	
	Bright Draw	-	0	116	16	
	60's Organ	-	0	116	17	

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number	
			MSB	LSB		
ORGAN & ACCORDION	Jazz Organ3	-	0	120	16	
	Musette	-	0	112	21	
	Tutti Accrd	-	0	113	21	
	Small Accrd	-	0	115	21	
	Accordion	-	0	116	21	
	Tango Accrd	-	0	112	23	
	Steirisch	-	0	117	21	
	Bandoneon	-	0	113	23	
	Soft Accrd	-	0	114	21	
	Modem Harp	-	0	113	22	
	Blues Harp	-	0	114	22	
	Harmonica	-	0	112	22	
	Reed Organ	-	0	112	20	
	PERCUSSION	Vibraphone	Natural!	0	122	11
		TremoloVibes	Natural!	0	124	11
		Marimba	Natural!	0	122	12
		Xylophone	-	0	112	13
Steel Drums		Natural!	0	122	114	
Celesta		Natural!	0	122	8	
Glocken		-	0	112	9	
Music Box		-	0	112	10	
TubularBell		-	0	112	14	
Kalimba		-	0	112	108	
Vibraphone		-	0	112	11	
Jazz Vibes		-	0	113	11	
Marimba		-	0	112	12	
Steel Drums		-	0	112	114	
Celesta		-	0	112	8	
Dulcimer		-	0	112	15	
Timpani		-	0	112	47	
Arabic Kit		SFX Kit	126	0	35	
Cuban Kit		Live!SFX	126	0	40	
PopLatin Kit		Live!SFX	126	0	43	
Std.Kit+P		Live!Drums	127	0	83	
Funk Kit+P		Live!Drums	127	0	84	
Brush Kit+P		Live!Drums	127	0	85	
Standard Kit1		Drums	127	0	0	
Standard Kit2		Drums	127	0	1	
Standard Kit		Live!Drums	127	0	80	
Funk Kit		Live!Drums	127	0	81	
Brush kit		Live!Drums	127	0	82	
Jazz Kit		Drums	127	0	32	
Brush Kit		Drums	127	0	40	
Hit Kit		Drums	127	0	4	
Room Kit		Drums	127	0	8	
Rock Kit		Drums	127	0	16	
Electro Kit		Drums	127	0	24	
Analog Kit		Drums	127	0	25	
Dance Kit		Drums	127	0	27	
Symphony Kit		Drums	127	0	48	
SFX Kit1		SFX Kit	126	0	0	
SFX Kit2		SFX Kit	126	0	1	
StyStd.Kit+P		Live!Drums	127	0	125	
StyFunk Kt+P		Live!Drums	127	0	126	
Sty Std.Kit		Live!Drums	127	0	123	
Sty Funk Kit		Live!Drums	127	0	124	
GUITAR		Folk Guitar	Natural!	0	122	25
		12StrGuitar	Natural!	0	123	25
		Nylon Guitar	Live!	0	116	24
		Jazz Guitar	Cool!	0	115	26
	Elec. Gtr	Cool!	0	114	28	
	12StrGuitar	-	0	113	25	
	SolidGuitar	-	0	118	27	
	Vintage Amp	-	0	115	29	
	Aloha Gtr	-	0	118	26	
	Crunch Gtr	-	0	113	30	
	Smooth Lead	-	0	119	26	
	60's Clean	-	0	117	27	
	Classic Gtr	Live!	0	115	24	
	Jazz SolGtr	Cool!	0	116	26	
	VintageOpen	-	0	123	27	
	Folk Guitar	-	0	112	25	
	Solid Chord	-	0	121	27	
	VintageMute	-	0	115	28	
	PedalSteel	-	0	115	27	
	Lead Guitar	-	0	114	29	
	Mandolin	-	0	114	25	
	Chorus Gtr	-	0	124	27	
	VintageTrem	-	0	120	27	
	Spanish Gtr	-	0	113	24	

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number	
			MSB	LSB		
GUITAR	Octave Gtr	-	0	113	26	
	Deep Chorus	-	0	114	27	
	CampfireGtr	-	0	115	25	
	SmoothNylon	-	0	114	24	
	Tremolo Gtr	-	0	113	27	
	HawaiianGtr	-	0	114	26	
	Heavy Stack	-	0	114	30	
	BrightClean	-	0	116	27	
	Wah Guitar	-	0	122	27	
	Classic Gtr	-	0	112	24	
	DX JazzGtr	-	0	117	26	
	Distortion	-	0	112	30	
	Elec.12Str	-	0	119	27	
	FeedbackGtr	-	0	113	29	
	SlideGuitar	-	0	125	27	
	CleanGuitar	-	0	112	27	
	MutedGuitar	-	0	112	28	
	Funk Guitar	-	0	113	28	
	Jazz Guitar	-	0	112	26	
	Overdrive	-	0	112	29	
	BASS	Wood Bass	Natural!	0	122	32
		ElectricBass	Natural!	0	122	33
		Finger Bass	-	0	112	33
		UprightBass	-	0	113	32
Pick Bass		-	0	112	34	
SuperFretles		-	0	113	35	
Slap Bass		-	0	112	36	
Analog Bass		-	0	112	39	
DX FunkBass		-	0	113	37	
DrySynBass		-	0	116	39	
Touch Bass		-	0	115	39	
Hi Q Bass		-	0	113	38	
Funk Bass		-	0	112	37	
Aco.Bass		-	0	112	32	
Fretless		-	0	112	35	
Bass&Cymbal		-	0	114	32	
Fusion Bass		-	0	113	36	
Rave Bass		-	0	114	38	
Dance Bass		-	0	113	39	
Synth Bass		-	0	112	38	
Snap Bass		-	0	114	39	
Click Bass		-	0	115	38	
BRASS		Trumpet	Sweet!	0	115	56
		Trombone	Sweet!	0	117	57
	Muted Trump	Sweet!	0	114	59	
	Flugel Horn	Sweet!	0	118	56	
	SoftTrumpet	-	0	114	56	
	Hyper Brass	Live!	0	118	62	
	MellowBrass	-	0	116	61	
	Big Brass	-	0	121	61	
	Pop Brass	-	0	118	61	
	Brass Combo	-	0	115	66	
	SoloTrumpet	-	0	112	56	
	Solo Tromb	-	0	112	57	
	Muted Trump	-	0	112	59	
	Flugel Horn	-	0	113	56	
	Air Trumpet	-	0	117	56	
	Storzando	-	0	125	61	
	OctaveBrass	Live!	0	116	62	
	MoonLight	-	0	115	71	
	Ballad Brass	-	0	119	66	
	Saxy Mood	-	0	120	66	
	JazzTrumpet	-	0	116	56	
	Trombone	-	0	116	57	
	Soft Tromb	-	0	115	57	
	MellowTromb	-	0	114	57	
	French Horn	-	0	112	60	
	Pop Brass	Live!	0	117	62	
	BrassSection	-	0	112	61	
	BigBandBrs	-	0	113	61	
	Step Brass	-	0	124	61	
	BrightBrass	-	0	120	61	
	Trumpet Ens	-	0	122	61	
	SmoothTromb	-	0	118	57	
	Trb.Section	-	0	113	57	
	MellowHorns	-	0	119	61	
	Soft Brass	-	0	123	61	
	Full Horns	-	0	114	61	
	High Brass	-	0	115	61	
	Small Brass	-	0	117	61	

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number	
			MSB	LSB		
BRASS	BallroomBrs	-	0	113	59	
	Brass Hit	-	0	126	61	
	80's Brass	-	0	113	62	
	Analog Brs	-	0	112	63	
	Soft Analog	-	0	114	63	
	FunkyAnalog	-	0	115	62	
	TechnoBrass	-	0	114	62	
	Synth Brass	-	0	112	62	
	Ober Brass	-	0	113	63	
	BaritonHorn	-	0	113	58	
	Bariton Hit	-	0	114	58	
	Tuba	-	0	112	58	
	Alp Bass	-	0	113	33	
	WOODWIND	Tenor Sax	Sweet!	0	117	66
		Alto Sax	Sweet!	0	114	65
		Soprano Sax	Sweet!	0	113	64
		Clarinet	Sweet!	0	114	71
		Growl Sax	-	0	118	66
Flute		Sweet!	0	114	73	
Pan Flute		Sweet!	0	113	75	
Oboe		-	0	112	68	
EnglishHorn		-	0	112	69	
BaritoneSax		-	0	112	67	
BreathTenor		-	0	114	66	
BreathyAlto		-	0	113	65	
Soprano Sax		-	0	112	64	
Clarinet		-	0	112	71	
Bassoon		-	0	112	70	
Class.Flute		-	0	115	73	
Pan Flute		-	0	113	73	
Piccolo		-	0	112	72	
EthnicFlute		-	0	112	75	
Rock Bari		-	0	113	67	
Tenor Sax		-	0	112	66	
Alto Sax		-	0	112	65	
MelClarinet		-	0	113	71	
Flute		-	0	112	73	
Shakuhachi	-	0	112	77		
Whistle	-	0	112	78		
Recorder	-	0	112	74		
Ocarina	-	0	112	79		
WoodwindEns	-	0	113	66		
Sax Section	-	0	116	66		
Bagpipe	-	0	112	109		
STRINGS	Strings	Natural!	0	122	48	
	Strings	Live!	0	117	49	
	Allegro	Live!	0	122	49	
	Orchestra	Live!	0	116	49	
	Strings	-	0	112	48	
	Cello	Natural!	0	122	42	
	Orch. Brass	-	0	118	49	
	Orch. Flute	-	0	119	49	
	Orch. Fl.Br	-	0	120	49	
	Orch. Oboe	-	0	121	49	
	Solo Violin	-	0	112	40	
	Soft Violin	-	0	113	40	
	Fiddle	-	0	112	110	
	Viola	-	0	112	41	
	Cello	-	0	112	42	
	Contrabass	-	0	112	43	
	ChamberStrs	-	0	112	49	
	Str.Quartet	-	0	114	49	
	ConcertoStr	-	0	115	48	
	Bow Strings	-	0	116	48	
	MarcatoStrs	-	0	115	49	
	Symphon.Str	-	0	114	48	
	OrchStrings	-	0	113	48	
	SlowStrings	-	0	113	49	
TremoloStrs	-	0	112	44		
PizzStrings	-	0	112	45		
Analog Strs	-	0	112	51		
Syn Strings	-	0	112	50		
OberStrings	-	0	113	51		
Harp	-	0	112	46		
Hackbrett	-	0	113	46		
Banjo	-	0	112	105		
Sitar	-	0	112	104		
Koto	-	0	112	107		
Shamisen	-	0	112	106		
Orch.Hit	-	0	112	55		

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number	
			MSB	LSB		
CHOIR & PAD	Choir	Natural!	0	122	52	
	Vocal	Live!	0	114	53	
	Doo	Live!	0	117	53	
	Bah	Live!	0	118	53	
	Dao	Live!	0	119	53	
	Gospel	Live!	0	116	52	
	Humm	Live!	0	118	52	
	Hah Choir	-	0	114	52	
	Gothic Vox	-	0	113	53	
	Sunbeam	-	0	123	88	
	SweetHeaven	-	0	118	88	
	DreamHeaven	-	0	121	88	
	Bell Heaven	-	0	119	88	
	Pan Heaven	-	0	120	88	
	Pro Heaven	-	0	122	88	
	DooBa Scats	-	0	115	53	
	Daa Choir	-	0	120	53	
	Doo Choir	-	0	122	53	
	Doom Choir	-	0	120	52	
	Doom	Live!	0	116	53	
	Mmh	Live!	0	117	52	
	Bah Choir	-	0	121	53	
	Huh Choir	-	0	119	52	
	Choir	-	0	112	52	
	Air Choir	-	0	112	54	
	Vocal Ensbl	-	0	113	52	
	Vox Humana	-	0	112	53	
	Voices	-	0	113	54	
	Uuh Choir	-	0	115	52	
	Insomnia	-	0	113	94	
	Cyber Pad	-	0	113	99	
	Wave 2001	-	0	112	95	
	Neo WarmPad	-	0	115	89	
	Atmosphere	-	0	112	99	
	Xenon Pad	-	0	112	91	
	Skydiver	-	0	112	101	
	Far East	-	0	112	97	
	Template	-	0	114	95	
	Equinox	-	0	112	94	
	Glass Pad	-	0	114	93	
	Fantasia	-	0	112	88	
	DX Pad	-	0	112	92	
	Symbiont	-	0	113	88	
	Stargate	-	0	114	88	
	Area 51	-	0	112	89	
	Dark Moon	-	0	113	89	
	Ionosphere	-	0	115	94	
	Golden Age	-	0	115	88	
	Solaris	-	0	114	94	
	Time Travel	-	0	116	88	
	Millennium	-	0	117	88	
	Transform	-	0	113	95	
	Dunes	-	0	114	89	
	SYNTH.	Oxygen	-	0	122	81
		Matrix	-	0	123	81
		Wire Lead	-	0	120	81
		Hip Lead	-	0	113	80
		Hop Lead	-	0	117	80
		Square Lead	-	0	112	80
		Saw Lead	-	0	112	81
		Fire Wire	-	0	116	81
		Analogon	-	0	115	81
		Funky Lead	-	0	121	81
		Paraglide	-	0	114	84
		Robolead	-	0	124	81
		Fargo	-	0	119	81
		Portatone	-	0	112	84
Blastar		-	0	114	81	
Big Lead		-	0	113	81	
Warp		-	0	117	81	
Adrenaline		-	0	113	84	
Synchronize		-	0	112	96	
Tiny Lead		-	0	118	80	
Stardust		-	0	112	98	
Aero Lead		-	0	112	83	
Mini Lead		-	0	114	80	
Synth Flute		-	0	119	80	
Sub Aqua		-	0	118	81	
Impact		-	0	113	87	
Sun Bell		-	0	113	98	

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number
			MSB	LSB	
SYNTH.	Under Heim	-	0	112	87
	Rhythmic	-	0	113	96
	Hi Bias	-	0	116	80
	Vinylead	-	0	115	80
	Skyline	-	0	115	84
	Clockwork	-	0	114	96
ORGAN FLUTES	Jazz Draw!	Organ Flutes!	0	126	16
	BluesOrgan!	Organ Flutes!	0	126	16
	SixteenOne!	Organ Flutes!	0	126	16
	Even Bars!	Organ Flutes!	0	126	16
	Pop Organ!	Organ Flutes!	0	126	16
	RockingOrg!	Organ Flutes!	0	126	16
	Percussive!	Organ Flutes!	0	126	16
	GospelOrg!	Organ Flutes!	0	126	16
	Pad Organ!	Organ Flutes!	0	126	16
	Full Ranks!	Organ Flutes!	0	126	16

XG

Category	Voice Type	Bank Select		MIDI Program Number	
		MSB	LSB		
PIANO	Grand Piano	0	0	0	
	GrndPianoKSP	0	1	0	
	MellowGrPno	0	18	0	
	PianoStrings	0	40	0	
	Dream	0	41	0	
	Bright Piano	0	0	1	
	BritePnoKSP	0	1	1	
	ElecGrandPno	0	0	2	
	ElecGrPnoKSP	0	1	2	
	Detuned CP80	0	32	2	
	Layered CP 1	0	40	2	
	Layered CP 2	0	41	2	
	Honkytonk	0	0	3	
	HonkytonkKSP	0	1	3	
	El.Piano 1	0	0	4	
	El.Piano1KSP	0	1	4	
	Mellow EP 1	0	18	4	
	Chorus EP 1	0	32	4	
	HardEl Piano	0	40	4	
	VXfade EL.P1	0	45	4	
	60sEl.Piano1	0	64	4	
	El.Piano 2	0	0	5	
	El.Piano2KSP	0	1	5	
	Chorus EP 2	0	32	5	
	DX EP Hard	0	33	5	
	DX Legend	0	34	5	
	DX Phase EP	0	40	5	
	DX+AnalogEP	0	41	5	
	DX Koto EP	0	42	5	
	VXfade EL.P2	0	45	5	
	Harpsichord	0	0	6	
	Harpsi.KSP	0	1	6	
	Harpsichord2	0	25	6	
	Harpsichord3	0	35	6	
	Clavi.	0	0	7	
	Clavi.KSP	0	1	7	
	Clavi.Wah	0	27	7	
	Pulse Clavi.	0	64	7	
	PierceClavi.	0	65	7	
	CHROMATIC PERC	Celesta	0	0	8
		Glockenspiel	0	0	9
		Music Box	0	0	10
		Orgel	0	64	10
		Vibraphone	0	0	11
		Vibes KSP	0	1	11
Hard Vibes		0	45	11	
Marimba		0	0	12	
Marimba KSP		0	1	12	
Sine Marimba		0	64	12	
Balimba		0	97	12	
Log Drums		0	98	12	
Xylophone		0	0	13	
TubularBells		0	0	14	
Church Bells		0	96	14	
Carillon		0	97	14	
Dulcimer		0	0	15	
Dulcimer 2		0	35	15	
Cimbalom		0	96	15	
Santur		0	97	15	
ORGAN		DrawbarOrgan	0	0	16
	DetDrawOrgan	0	32	16	
	60sDrawOrg1	0	33	16	
	60sDrawOrg2	0	34	16	
	70sDrawOrg1	0	35	16	
	DrawbarOrg2	0	36	16	
	60sDrawOrg3	0	37	16	
	Even Bar Org	0	38	16	
	16+2'2_3 Org	0	40	16	
	Organ Bass	0	64	16	
	70sDrawOrg2	0	65	16	
	Cheezy Organ	0	66	16	
	DrawbarOrg3	0	67	16	
	Perc.Organ	0	0	17	
	70sPercOrg1	0	24	17	
	DetPercOrgan	0	32	17	
	Light Organ	0	33	17	
	Perc.Organ2	0	37	17	
	Rock Organ	0	0	18	
Rotary Organ	0	64	18		
Slow Rotary	0	65	18		

Category	Voice Type	Bank Select		MIDI Program Number	
		MSB	LSB		
ORGAN	Fast Rotary	0	66	18	
	Church Organ	0	0	19	
	ChurchOrgan3	0	32	19	
	ChurchOrgan2	0	35	19	
	Notre Dame	0	40	19	
	Organ Flute	0	64	19	
	Trem.OrganFl	0	65	19	
	Reed Organ	0	0	20	
	Puff Organ	0	40	20	
	Accordion	0	0	21	
	Accord It	0	32	21	
	Harmonica	0	0	22	
	Harmonica 2	0	32	22	
	Tango Accord	0	0	23	
	TangoAccord2	0	64	23	
	GUITAR	Nylon Guitar	0	0	24
		NylonGuitar2	0	16	24
		NylonGuitar3	0	25	24
		VelGtrHarmo	0	43	24
		Ukulele	0	96	24
		Steel Guitar	0	0	25
		SteelGuitar2	0	16	25
		12Str Guitar	0	35	25
Nylon&Steel		0	40	25	
Steel&Body		0	41	25	
Mandolin		0	96	25	
Jazz Guitar		0	0	26	
MellowGuitar		0	18	26	
Jazz Amp		0	32	26	
Clean Guitar		0	0	27	
ChorusGuitar		0	32	27	
Muted Guitar		0	0	28	
FunkGuitar1		0	40	28	
MuteSteelGtr		0	41	28	
FunkGuitar2		0	43	28	
Jazz Man		0	45	28	
Overdriven		0	0	29	
Guitar Pinch		0	43	29	
Distortion		0	0	30	
FeedbackGtr		0	40	30	
FeedbackGtr2		0	41	30	
GtrHarmonics		0	0	31	
GtrFeedback		0	65	31	
GtrHarmonic2		0	66	31	
BASS		AcousticBass	0	0	32
		Jazz Rhythm	0	40	32
		VXUprghtBass	0	45	32
		Finger Bass	0	0	33
	Finger Dark	0	18	33	
	Flange Bass	0	27	33	
	Bass&DistEG	0	40	33	
	Finger Slap	0	43	33	
	FingerBass2	0	45	33	
	Mod.Bass	0	65	33	
	Pick Bass	0	0	34	
	MutePickBass	0	28	34	
	FretlessBass	0	0	35	
	Fretless 2	0	32	35	
	Fretless 3	0	33	35	
	Fretless 4	0	34	35	
	Syn.Fretless	0	96	35	
	SmthFretless	0	97	35	
	Slap Bass 1	0	0	36	
	ResonantSlap	0	27	36	
	Punch Thumb	0	32	36	
	Slap Bass 2	0	0	37	
	Velo.Sw.Slap	0	43	37	
	Synth Bass 1	0	0	38	
	SynBass1Dark	0	18	38	
	FastResoBass	0	20	38	
	Acid Bass	0	24	38	
	Clavi Bass	0	35	38	
	Techno Bass	0	40	38	
Orbiter	0	64	38		
Square Bass	0	65	38		
Rubber Bass	0	66	38		
Hammer	0	96	38		
Synth Bass 2	0	0	39		
MellowSyBass	0	6	39		
SequenceBass	0	12	39		

Category	Voice Type	Bank Select		MIDI Program Number	
		MSB	LSB		
BASS	ClickSynBass	0	18	39	
	SynBass2Dark	0	19	39	
	SmoothSyBass	0	32	39	
	ModulrSyBass	0	40	39	
	DX Bass	0	41	39	
X Wire Bass	0	64	39		
STRINGS	Violin	0	0	40	
	SlwAtkViolin	0	8	40	
	Viola	0	0	41	
	Cello	0	0	42	
	Contrabass	0	0	43	
	Trem.Strings	0	0	44	
	SlwAtTremStr	0	8	44	
	SuspenseStr	0	40	44	
	PizzicatoStr	0	0	45	
	Orch.Harp	0	0	46	
	Yang Chin	0	40	46	
	Timpani	0	0	47	
	ENSEMBLE	Strings 1	0	0	48
		StereoStrngs	0	3	48
SlwAtkStrngs		0	8	48	
Arco Strings		0	24	48	
60's Strings		0	35	48	
Orchestra		0	40	48	
Orchestra 2		0	41	48	
TremOrchestra		0	42	48	
Velo.Strings		0	45	48	
Strings 2		0	0	49	
S.SlowStrngs		0	3	49	
LegatoStrngs		0	8	49	
Warm Strings		0	40	49	
Kingdom		0	41	49	
70's Strings		0	64	49	
Strings 3		0	65	49	
SynStrings1		0	0	50	
Reso Strings		0	27	50	
SynStrings4		0	64	50	
SynStrings5		0	65	50	
SynStrings2		0	0	51	
Choir Aahs		0	0	52	
Stereo Choir		0	3	52	
Choir Aahs 2		0	16	52	
Mellow Choir		0	32	52	
ChoirStrings		0	40	52	
Voice Oohs		0	0	53	
Synth Voice		0	0	54	
SynthVoice2		0	40	54	
Choral		0	41	54	
Analog Voice		0	64	54	
OrchestraHit		0	0	55	
OrchestrHit2		0	35	55	
Impact		0	64	55	
BRASS		Trumpet	0	0	56
		Trumpet 2	0	16	56
		BriteTrumpet	0	17	56
		Warm Trumpet	0	32	56
		Trombone	0	0	57
		Trombone 2	0	18	57
	Tuba	0	0	58	
	Tuba 2	0	16	58	
	MutedTrumpet	0	0	59	
	French Horn	0	0	60	
	Fr.Horn Solo	0	6	60	
	FrenchHorn2	0	32	60	
	HornOrchestr	0	37	60	
	BrassSection	0	0	61	
	Tp&TbSection	0	35	61	
	BrassSect2	0	40	61	
	High Brass	0	41	61	
	Mellow Brass	0	42	61	
	SynthBrass1	0	0	62	
	Quack Brass	0	12	62	
	ResoSynBrass	0	20	62	
	Poly Brass	0	24	62	
	SynthBrass3	0	27	62	
	Jump Brass	0	32	62	
	AnaVelBrass1	0	45	62	
	AnalogBrass1	0	64	62	
	SynthBrass2	0	0	63	
	Soft Brass	0	18	63	

Category	Voice Type	Bank Select		MIDI Program Number	
		MSB	LSB		
BRASS	SynthBrass4	0	40	63	
	Choir Brass	0	41	63	
	AnaVelBrass2	0	45	63	
	AnalogBrass2	0	64	63	
REED	Soprano Sax	0	0	64	
	Alto Sax	0	0	65	
	Sax Section	0	40	65	
	HyperAltoSax	0	43	65	
	Tenor Sax	0	0	66	
	BreathyTenor	0	40	66	
	SoftTenorSax	0	41	66	
	Tenor Sax2	0	64	66	
	Baritone Sax	0	0	67	
	Oboe	0	0	68	
	English Horn	0	0	69	
	Bassoon	0	0	70	
	Clarinet	0	0	71	
	PIPE	Piccolo	0	0	72
		Flute	0	0	73
		Recorder	0	0	74
		Pan Flute	0	0	75
Blown Bottle		0	0	76	
Shakuhachi		0	0	77	
Whistle		0	0	78	
Ocarina		0	0	79	
SYNTH LEAD		Square Lead	0	0	80
		SquareLead2	0	6	80
		LM Square	0	8	80
	Hollow	0	18	80	
	Shroud	0	19	80	
	Mellow	0	64	80	
	Solo Sine	0	65	80	
	Sine Lead	0	66	80	
	SawtoothLead	0	0	81	
	SawtoothLd2	0	6	81	
	Thick Saw	0	8	81	
	Dynamic Saw	0	18	81	
	Digital Saw	0	19	81	
	Big Lead	0	20	81	
	Heavy Synth	0	24	81	
	WaspY Synth	0	25	81	
	Pulse Saw	0	40	81	
	Dr. Lead	0	41	81	
	VelocityLead	0	45	81	
	Seq.Analog	0	96	81	
	CalliopeLead	0	0	82	
	Pure Pad	0	65	82	
	Chiff Lead	0	0	83	
	Rubby	0	64	83	
	Charang Lead	0	0	84	
	DistortedLd	0	64	84	
	Wire Lead	0	65	84	
	Voice Lead	0	0	85	
	Synth Aahs	0	24	85	
	Vox Lead	0	64	85	
	Fifths Lead	0	0	86	
	Big Five	0	35	86	
	Bass & Lead	0	0	87	
Big & Low	0	16	87		
Fat & Perky	0	64	87		
Soft Whirl	0	65	87		
SYNTH PAD	New Age Pad	0	0	88	
	Fantasy	0	64	88	
	Warm Pad	0	0	89	
	Thick Pad	0	16	89	
	Soft Pad	0	17	89	
	Sine Pad	0	18	89	
	Horn Pad	0	64	89	
	RotaryStrngs	0	65	89	
	PolySynthPad	0	0	90	
	Poly Pad 80	0	64	90	
	Click Pad	0	65	90	
	Analog Pad	0	66	90	
	Square Pad	0	67	90	
	Choir Pad	0	0	91	
	Heaven	0	64	91	
	Itopia	0	66	91	
	CC Pad	0	67	91	
	Bowed Pad	0	0	92	
	Glacier	0	64	92	

Category	Voice Type	Bank Select		MIDI Program Number	
		MSB	LSB		
SYNTH PAD	Glass Pad	0	65	92	
	Metallic Pad	0	0	93	
	Tine Pad	0	64	93	
	Pan Pad	0	65	93	
	Halo Pad	0	0	94	
	Sweep Pad	0	0	95	
	Shwimmer	0	20	95	
	Converge	0	27	95	
	Polar Pad	0	64	95	
	Celestial	0	66	95	
	Rain	0	0	96	
SYNTH EFFECTS	Clavi Pad	0	45	96	
	Harmo Rain	0	64	96	
	African Wind	0	65	96	
	Carb	0	66	96	
	Sound Track	0	0	97	
	Prologue	0	27	97	
	Ancestral	0	64	97	
	Crystal	0	0	98	
	SynthDr.Comp	0	12	98	
	Popcorn	0	14	98	
	Tiny Bells	0	18	98	
	RoundGlocken	0	35	98	
	GlockenChime	0	40	98	
	Clear Bells	0	41	98	
	Chorus Bells	0	42	98	
	Synth Mallet	0	64	98	
	Soft Crystal	0	65	98	
	Loud Glocken	0	66	98	
	ChristmasBel	0	67	98	
	Vibe Bells	0	68	98	
	DigitalBells	0	69	98	
	Air Bells	0	70	98	
	Bell Harp	0	71	98	
	Gamelimba	0	72	98	
	Atmosphere	0	0	99	
	Warm Atmos.	0	18	99	
	HollowRelease	0	19	99	
	NylonElPiano	0	40	99	
	Nylon Harp	0	64	99	
	Harp Vox	0	65	99	
	Atmos.Pad	0	66	99	
	Planet	0	67	99	
	Brightness	0	0	100	
	FantasyBells	0	64	100	
	Smokey	0	96	100	
	Goblins	0	0	101	
	GoblinsSynth	0	64	101	
	Creepier	0	65	101	
	Ring Pad	0	66	101	
	Ritual	0	67	101	
	To Heaven	0	68	101	
	Night	0	70	101	
	Glitten	0	71	101	
	Bell Choir	0	96	101	
	Echoes	0	0	102	
	Echoes2	0	8	102	
	Echo Pan	0	14	102	
	Echo Bells	0	64	102	
	Big Pan	0	65	102	
	Synth Piano	0	66	102	
	Creation	0	67	102	
	Star Dust	0	68	102	
	Reso&Panning	0	69	102	
	Sci-Fi	0	0	103	
	Starz	0	64	103	
	ETHNIC	Sitar	0	0	104
		DetunedSitar	0	32	104
		Sitar 2	0	35	104
		Tambra	0	96	104
		Tamboura	0	97	104
		Banjo	0	0	105
		Muted Banjo	0	28	105
		Rabab	0	96	105
		Gopichant	0	97	105
		Oud	0	98	105
		Shamisen	0	0	106
		Koto	0	0	107
		Taisho-kin	0	96	107
Kanoon		0	97	107	

Category	Voice Type	Bank Select		MIDI Program Number	
		MSB	LSB		
ETHNIC	Kalimba	0	0	108	
	Bagpipe	0	0	109	
	Fiddle	0	0	110	
	Shanai	0	0	111	
	Shanai2	0	64	111	
	Pungi	0	96	111	
	Hichiriki	0	97	111	
PERCUSSIVE	Tinkle Bell	0	0	112	
	Bonang	0	96	112	
	Altair	0	97	112	
	GamelanGongs	0	98	112	
	StereoGamlan	0	99	112	
	Rama Cymbal	0	100	112	
	Asian Bells	0	101	112	
	Agogo	0	0	113	
	Steel Drums	0	0	114	
	Glass Perc.	0	97	114	
	Thai Bells	0	98	114	
	Woodblock	0	0	115	
	Castanets	0	96	115	
	Taiko Drum	0	0	116	
	Gran Cassa	0	96	116	
	Melodic Tom	0	0	117	
	MelodicTom2	0	64	117	
	Real Tom	0	65	117	
	Rock Tom	0	66	117	
	Synth Drum	0	0	118	
	Analog Tom	0	64	118	
ElectroPerc.	0	65	118		
Rev.Cymbal	0	0	119		
SOUND EFFECTS	GtrFretNoise	0	0	120	
	Breath Noise	0	0	121	
	Seashore	0	0	122	
	Bird Tweet	0	0	123	
	TelephonRing	0	0	124	
	Helicopter	0	0	125	
	Applause	0	0	126	
	Gunshot	0	0	127	
	SFX	CuttingNoise	64	0	0
		CuttingNoiz2	64	0	1
		String Slap	64	0	3
Fl.Key Click		64	0	16	
Shower		64	0	32	
Thunder		64	0	33	
Wind		64	0	34	
Stream		64	0	35	
Bubble		64	0	36	
Feed		64	0	37	
Dog		64	0	48	
Horse		64	0	49	
Bird Tweet 2		64	0	50	
Ghost		64	0	54	
Maou		64	0	55	
Phone Call		64	0	64	
Door Squeak		64	0	65	
Door Slam		64	0	66	
Scratch Cut		64	0	67	
ScratchSplit		64	0	68	
Wind Chime		64	0	69	
TelphonRing2		64	0	70	
CarEngineIgn		64	0	80	
CarTiresSql		64	0	81	
Car Passing		64	0	82	
Car Crash		64	0	83	
Siren		64	0	84	
Train		64	0	85	
Jet Plane		64	0	86	
Starship		64	0	87	
Burst		64	0	88	
RollrCoaster		64	0	89	
Submarine		64	0	90	
Laugh		64	0	96	
Scream		64	0	97	
Punch		64	0	98	
Heartbeat		64	0	99	
FootSteps	64	0	100		
Machine Gun	64	0	112		
Laser Gun	64	0	113		
Explosion	64	0	114		
Firework	64	0	115		

Drum/key Assignment List

Liste der Tastenzuordnungen der Schlaginstrumente


Liste d'assignation instrument de batterie/touche du clavier

Lista de asignación de teclas/batería

Bank Select MSB (0-127)					127	127	127	127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0	0	0	0
Program Change (0-127)					0	1	4	8	16	24	25	27
MIDI Note#	Key	Keyboard Note	Key Off	Alternate Group	Standard Kit1	Standard Kit2	Hit Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit	Dance Kit
13	C#-1	(C#0)		3	Surdo Mute							
14	D-1	(D0)		3	Surdo Open							
15	D#-1	(D#0)			Hi Q							
16	E-1	(E0)			Whip Slap							
17	F-1	(F0)		4	Scratch H							
18	F#-1	(F#0)		4	Scratch L							
19	G-1	(G0)			Finger Snap							
20	G#-1	(G#0)			Click Noise							
21	A-1	(A0)			Metronome Click							
22	A#-1	(A#0)			Metronome Bell							
23	B-1	(B0)			Seq Click L							
24	C0	C1			Seq Click H							
25	C#0	C#1			Brush Tap							
26	D0	D1	O		Brush Swirl							
27	D#0	D#1			Brush Slap							
28	E0	E1	O		Brush Tap Swirl					Reverse Cymbal	Reverse Cymbal	Reverse Cymbal
29	F0	F1	O		Snare Roll							
30	F#0	F#1			Castanet					Hi Q 2	Hi Q 2	Hi Q 2
31	G0	G1			Snare Soft	Snare Soft 2	Snare Electro		Snare Noisy	Snare Snappy Electro	Snare Noisy 4	Snare Techno
32	G#0	G#1			Sticks							
33	A0	A1			Kick Soft		Kick Tight L			Kick 3	Kick 3	Kick Techno Q
34	A#0	A#1			Open Rim Shot	Open Rim Shot H Short	Snare Pitched					Rim Gate
35	B0	B1			Kick Tight		Kick Wet		Kick 2	Kick Gate	Kick Analog Short	Kick Techno L
36	C1	C2			Kick	Kick Short	Kick Tight H		Kick Gate	Kick Gate Heavy	Kick Analog	Kick Techno
37	C#1	C#2			Side Stick	Side Stick Light	Stick Ambient				Side Stick Analog	Side Stick Analog
38	D1	D2			Snare	Snare Short	Snare Ambient	Snare Snappy	Snare Rock	Snare Noisy 2	Snare Analog	Snare Clap
39	D#1	D#2			Hand Clap							
40	E1	E2			Snare Tight	Snare Tight H	Snare Tight 2	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 3	Snare Analog 2	Snare Dry
41	F1	F2			Floor Tom L		Hybrid Tom 1	Tom Room 1	Tom Rock 1	Tom Electro 1	Tom Analog 1	Tom Analog 1
42	F#1	F#2	1		Hi-Hat Closed		Hi-Hat Closed 2				Hi-Hat Closed Analog	Hi-Hat Closed 3
43	G1	G2			Floor Tom H		Hybrid Tom 2	Tom Room 2	Tom Rock 2	Tom Electro 2	Tom Analog 2	Tom Analog 2
44	G#1	G#2	1		Hi-Hat Pedal		Hi-Hat Pedal 2				Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3
45	A1	A2			Low Tom		Hybrid Tom 3	Tom Room 3	Tom Rock 3	Tom Electro 3	Tom Analog 3	Tom Analog 3
46	A#1	A#2	1		Hi-Hat Open		Hi-Hat Open 2				Hi-Hat Open Analog	Hi-Hat Open 3
47	B1	B2			Mid Tom L		Hybrid Tom 4	Tom Room 4	Tom Rock 4	Tom Electro 4	Tom Analog 4	Tom Analog 4
48	C2	C3			Mid Tom H		Hybrid Tom 5	Tom Room 5	Tom Rock 5	Tom Electro 5	Tom Analog 5	Tom Analog 5
49	C#2	C#3			Crash Cymbal 1						Crash Analog	Crash Analog
50	D2	D3			High Tom		Hybrid Tom 6	Tom Room 6	Tom Rock 6	Tom Electro 6	Tom Analog 6	Tom Analog 6
51	D#2	D#3			Ride Cymbal 1							
52	E2	E3			Chinese Cymbal							
53	F2	F3			Ride Cymbal Cup							
54	F#2	F#3			Tambourine		Tambourine Light					
55	G2	G3			Splash Cymbal							
56	G#2	G#3			Cowbell						Cowbell Analog	Cowbell Analog
57	A2	A3			Crash Cymbal 2							
58	A#2	A#3			Vibraslap							
59	B2	B3			Ride Cymbal 2							
60	C3	C4			Bongo H							
61	C#3	C#4			Bongo L							
62	D3	D4			Conga H Mute						Conga Analog H	Conga Analog H
63	D#3	D#4			Conga H Open						Conga Analog M	Conga Analog M
64	E3	E4			Conga L						Conga Analog L	Conga Analog L
65	F3	F4			Timbale H							
66	F#3	F#4			Timbale L							
67	G3	G4			Agogo H							
68	G#3	G#4			Agogo L							
69	A3	A4			Cabasa							
70	A#3	A#4			Maracas						Maracas 2	Maracas 2
71	B3	B4	O		Samba Whistle H							
72	C4	C5	O		Samba Whistle L							
73	C#4	C#5			Guiro Short							
74	D4	D5	O		Guiro Long							
75	D#4	D#5			Claves						Claves 2	Claves 2
76	E4	E5			Wood Block H							
77	F4	F5			Wood Block L							
78	F#4	F#5			Cuica Mute					Scratch H 2	Scratch H 2	Scratch H 2
79	G4	G5			Cuica Open					Scratch L 2	Scratch L 2	Scratch L 2
80	G#4	G#5	2		Triangle Mute							
81	A4	A5	2		Triangle Open							
82	A#4	A#5			Shaker							
83	B4	B5			Jingle Bells							
84	C5	C6			Bell Tree							
85	C#5	(C#6)										
86	D5	(D6)										
87	D#5	(D#6)										
88	E5	(E6)										
89	F5	(F6)										
90	F#5	(F#6)										
91	G5	(G6)										

* Key Off: Keys marked "O" stop sounding the instant they are released.

* Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number

 Same as Standard Kit 1

 No Sound

Bank Select MSB (0-127)					127	127	127	127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0	0	0	0
Program Change (0-127)					32	40	48	80 / 123	81 / 124	82	83 / 125	84 / 126
MIDI Note#	Keyboard Note	Key Off	Alternate Group	Jazz Kit	Brush Kit	Symphony Kit	Standard Kit Sty Std.Kit	Funk Kit Sty Funk Kit	Sty BrushKit	Std.Kit+P StyStd. Kit+P	Funk Kit+P StyFunk Kit+P	
13	C#-1	(C#0)		3								
14	D-1	(D0)		3								
15	D#-1	(D#0)										
16	E-1	(E0)										
17	F-1	(F0)		4								
18	F#-1	(F#0)		4								
19	G-1	(G0)										
20	G#-1	(G#0)										
21	A-1	(A0)										
22	A#-1	(A#0)										
23	B-1	(B0)										
24	C0	C1										
25	C#0	C#1					Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo	
26	D0	D1	O				Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo	
27	D#0	D#1					Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo	
28	E0	E1	O				Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	
29	F0	F1	O				Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo	
30	F#0	F#1										
31	G0	G1		Snare Jazz H	Brush Slap 2		Snare L Stereo	Snare Funk L Stereo	Brush Slap 2 Stereo	Snare L Stereo	Snare L Stereo	
32	G#0	G#1										
33	A0	A1				Kick Soft 2	Kick Soft Stereo	Kick Soft Stereo	Kick Soft Stereo	Kick Soft Stereo	Kick Soft Stereo	
34	A#0	A#1			Open Rim Shot Light		Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo	
35	B0	B1				Gran Cassa	Kick Light Stereo	Kick Std Stereo	Kick Std Stereo	Kick Light Stereo	Kick Std Stereo	
36	C1	C2		Kick Jazz	Kick Jazz	Gran Cassa Mute	Kick Std Stereo	Kick Funk Stereo	Kick Funk Stereo	Kick Std Stereo	Kick Funk Stereo	
37	C#1	C#2		Side Stick Light	Side Stick Light		Side Stick Stereo	Side Stick Stereo	Side Stick Stereo	Side Stick Stereo	Side Stick Stereo	
38	D1	D2		Snare Jazz L	Brush Slap 3	Band Snare	Snare M Stereo	Snare Funk M Stereo	Snare Brush M Stereo	Snare M Stereo	Snare Funk M Stereo	
39	D#1	D#2								Hand Clap Stereo	Hand Clap Stereo	
40	E1	E2		Snare Jazz M	Brush Tap 2	Band Snare 2	Snare H Stereo	Snare Funk H Stereo	Snare Brush H Stereo	Snare H Stereo	Snare Funk H Stereo	
41	F1	F2			Tom Brush 1		Floor Tom L Stereo	Floor Tom L Stereo	Brush Floor Tom L Stereo	Floor Tom L Stereo	Floor Tom L Stereo	
42	F#1	F#2	1				Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	
43	G1	G2			Tom Brush 2		Floor Tom H Stereo	Floor Tom H Stereo	Brush Floor Tom H Stereo	Floor Tom H Stereo	Floor Tom H Stereo	
44	G#1	G#2	1				Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	
45	A1	A2			Tom Brush 3		Low Tom Stereo	Low Tom Stereo	Brush Low Tom Stereo	Low Tom Stereo	Low Tom Stereo	
46	A#1	A#2	1				Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo	
47	B1	B2			Tom Brush 4		Mid Tom L Stereo	Mid Tom L Stereo	Brush Mid Tom L Stereo	Mid Tom L Stereo	Mid Tom L Stereo	
48	C2	C3			Tom Brush 5		Mid Tom H Stereo	Mid Tom H Stereo	Brush Mid Tom H Stereo	Mid Tom H Stereo	Mid Tom H Stereo	
49	C#2	C#3				Hand Cymbal	Crash Cymbal 1 Stereo	Crash Cymbal 1 Stereo	Brush Crash Cymbal 1 Stereo	Crash Cymbal 1 Stereo	Crash Cymbal 1 Stereo	
50	D2	D3			Tom Brush 6		High Tom Stereo	High Tom Stereo	Brush High Tom Stereo	High Tom Stereo	High Tom Stereo	
51	D#2	D#3				Hand Cymbal Short	Ride Cymbal 1 Stereo	Ride Cymbal 1 Stereo	Brush Ride Cymbal 1 Stereo	Ride Cymbal 1 Stereo	Ride Cymbal 1 Stereo	
52	E2	E3					Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo	
53	F2	F3					Ride Cymbal Cup Stereo	Ride Cymbal Cup Stereo	Brush Ride Cymbal Cup Stereo	Ride Cymbal Cup Stereo	Ride Cymbal Cup Stereo	
54	F#2	F#3								Tambourine Stereo	Tambourine Stereo	
55	G2	G3					Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo	
56	G#2	G#3								Cowbell Stereo	Cowbell Stereo	
57	A2	A3				Hand Cymbal 2	Crash Cymbal 2 Stereo	Crash Cymbal 2 Stereo	Brush Crash Cymbal 2 Stereo	Crash Cymbal 2 Stereo	Crash Cymbal 2 Stereo	
58	A#2	A#3										
59	B2	B3				Hand Cymbal 2 Short	Ride Cymbal 2 Stereo	Ride Cymbal 2 Stereo	Brush Ride Cymbal 2 Stereo	Ride Cymbal 2 Stereo	Ride Cymbal 2 Stereo	
60	C3	C4								Bongo H Stereo	Bongo H Stereo	
61	C#3	C#4								Bongo L Stereo	Bongo L Stereo	
62	D3	D4								Conga H Mute Stereo	Conga H Mute Stereo	
63	D#3	D#4								Conga H Open Stereo	Conga H Open Stereo	
64	E3	E4								Conga L Stereo	Conga L Stereo	
65	F3	F4								Timbale H Stereo	Timbale H Stereo	
66	F#3	F#4								Timbale L Stereo	Timbale L Stereo	
67	G3	G4										
68	G#3	G#4										
69	A3	A4								Cabasa Stereo	Cabasa Stereo	
70	A#3	A#4								Maracas Stereo	Maracas Stereo	
71	B3	B4	O									
72	C4	C5	O									
73	C#4	C#5								Guiro Short Stereo	Guiro Short Stereo	
74	D4	D5	O							Guiro Long Stereo	Guiro Long Stereo	
75	D#4	D#5										
76	E4	E5										
77	F4	F5										
78	F#4	F#5								Cuica Mute Stereo	Cuica Mute Stereo	
79	G4	G5								Cuica Open Stereo	Cuica Open Stereo	
80	G#4	G#5	2							Triangle Mute Stereo	Triangle Mute Stereo	
81	A4	A5	2							Triangle Open Stereo	Triangle Open Stereo	
82	A#4	A#5								Shaker Stereo	Shaker Stereo	
83	B4	B5										
84	C5	C6								Wind Chime Stereo	Wind Chime Stereo	
85	C#5	(C#6)										
86	D5	(D6)										
87	D#5	(D#6)										
88	E5	(E6)										
89	F5	(F6)										
90	F#5	(F#6)										
91	G5	(G6)										

Bank Select MSB (0-127)					127	126	126	126	126	126
Bank Select LSB (0-127)					0	0	0	0	0	0
Program Change (0-127)					85	35	0	1	40	43
MIDI Note#	Keyboard Note	Key Off	Alternate Group	Brush Kit+P	Arabic Kit	SFX Kit1	SFX Kit2	Cuban Kit	PopLatin Kit	
13	C#-1 (C#0)		3							
14	D-1 (D0)		3							
15	D#-1 (D#0)									
16	E-1 (E0)									
17	F-1 (F0)		4							
18	F#-1 (F#0)		4						Hand Clap Stereo	
19	G-1 (G0)									
20	G#-1 (G#0)									
21	A-1 (A0)									
22	A#-1 (A#0)							Conga H Tip Stereo	Conga H Tip Stereo	
23	B-1 (B0)							Conga H Heel Stereo	Conga H Heel Stereo	
24	C0	C1			Nakarazan Dom			Conga H Open Stereo	Conga H Open Stereo	
25	C#0	C#1		Brush Tap Stereo	Cabasa			Conga H Mute Stereo	Conga H Mute Stereo	
26	D0	D1	O	Brush Swirl Stereo	Nakarazan Edge			Conga H Slap Open Stereo	Conga H Slap Open Stereo	
27	D#0	D#1		Brush Slap Stereo	Hager Dom			Conga H Slap Stereo	Conga H Slap Stereo	
28	E0	E1	O	Brush Tap Swirl Stereo	Hager Edge			Conga H Slap Mute Stereo	Conga H Slap Mute Stereo	
29	F0	F1	O	Snare Roll Stereo	Bongo H			Conga L Tip Stereo	Conga L Tip Stereo	
30	F#0	F#1			Bongo L			Conga L Heel Stereo	Conga L Heel Stereo	
31	G0	G1		Brush Slap 2 Stereo	Conga H Mute			Conga L Open Stereo	Conga L Open Stereo	
32	G#0	G#1			Conga H Open			Conga L Mute Stereo	Conga L Mute Stereo	
33	A0	A1		Kick Soft Stereo	Conga L			Conga L Slap Open Stereo	Conga L Slap Open Stereo	
34	A#0	A#1		Open Rim Shot Stereo	Zagrouda H			Conga L Slap Stereo	Conga L Slap Stereo	
35	B0	B1		Kick Std Stereo	Zagrouda L			Conga L Slide Stereo	Conga L Slide Stereo	
36	C1	C2		Kick Funk Stereo	Kick Soft	Cutting Noise	Phone Call	Bongo H Open 1 Finger Stereo	Bongo H Open 1 finger Stereo	
37	C#1	C#2		Side Stick Stereo	Side Stick	Cutting Noise 2	Door Squeak	Bongo H Open 3 Finger Stereo	Bongo H Open 3 finger Stereo	
38	D1	D2		Snare Brush M Stereo	Snare Soft		Door Slam	Bongo H Rim Stereo	Bongo H Rim Stereo	
39	D#1	D#2		Hand Clap Stereo	Arabic Hand Clap	String Slap	Scratch Cut	Bongo H Tip Stereo	Bongo H Tip Stereo	
40	E1	E2		Snare Brush H Stereo	Snare		Scratch H 3	Bongo H Heel Stereo	Bongo H Heel Stereo	
41	F1	F2		Brush Floor Tom L Stereo	Floor Tom L		Wind Chime	Bongo H Slap Stereo	Bongo H Slap Stereo	
42	F#1	F#2	1	Hi-Hat Closed Stereo	Hi-Hat Closed		Telephone Ring 2	Bongo L Open 1 Finger Stereo	Bongo L Open 1 finger Stereo	
43	G1	G2		Brush Floor Tom H Stereo	Floor Tom H			Bongo L Open 3 Finger Stereo	Bongo L Open 3 finger Stereo	
44	G#1	G#2	1	Hi-Hat Pedal Stereo	Hi-Hat Pedal			Bongo L Rim Stereo	Bongo L Rim Stereo	
45	A1	A2		Brush Low Tom Stereo	Low Tom			Bongo L Tip Stereo	Bongo L Tip Stereo	
46	A#1	A#2	1	Hi-Hat Open Stereo	Hi-Hat Open			Bongo L Heel Stereo	Bongo L Heel Stereo	
47	B1	B2		Brush Mid Tom L Stereo	Mid Tom L			Bongo L Slap Stereo	Bongo L Slap Stereo	
48	C2	C3		Brush Mid Tom H Stereo	Mid Tom H			Timbale L Open Stereo	Timbale L Open Stereo	
49	C#2	C#3		Brush Crash Cymbal 1 Stereo	Crash Cymbal 1					
50	D2	D3		Brush High Tom Stereo	High Tom					
51	D#2	D#3		Brush Ride Cymbal 1 Stereo	Ride Cymbal 1					
52	E2	E3		Chinese Cymbal Stereo	Crash Cymbal 2	Flute Key Click	Car Engine Ignition			
53	F2	F3		Brush Ride Cymbal Cup Stereo	Duhulla Dom		Car Tires Squeal			
54	F#2	F#3		Tambourine Stereo	Tambourine		Car Passing	Timbale H Open Stereo	Timbale H Open Stereo	
55	G2	G3		Splash Cymbal Stereo	Duhulla Tak		Car Crash			
56	G#2	G#3		Cowbell Stereo	Cowbell		Siren			
57	A2	A3		Brush Crash Cymbal 2 Stereo	Duhulla Sak		Train			
58	A#2	A#3			Claves		Jet Plane			
59	B2	B3		Brush Ride Cymbal 2 Stereo	Doff Dom		Starship			
60	C3	C4		Bongo H Stereo	Katem Dom		Burst	Cowbell Top Stereo	Cowbell Top Stereo	
61	C#3	C#4		Bongo L Stereo	Katem Tak		Roller Coaster			
62	D3	D4		Conga H Mute Stereo	Katem Sak		Submarine			
63	D#3	D#4		Conga H Open Stereo	Katem Tak					
64	E3	E4		Conga L Stereo	Doff Tak			Guiro Short Stereo	Guiro Short Stereo	
65	F3	F4		Timbale H Stereo	Tabla Dom			Guiro Long Stereo	Guiro Long Stereo	
66	F#3	F#4		Timbale L Stereo	Tabla Tak1					
67	G3	G4			Tabla Tik					
68	G#3	G#4			Tabla Tak2	Shower	Laugh	Tambourine Stereo	Tambourine Stereo	
69	A3	A4		Cabasa Stereo	Tabla Sak	Thunder	Scream			
70	A#3	A#4		Maracas Stereo	Tabla Roll of Edge	Wind	Punch			
71	B3	B4	O		Tabla Flam	Stream	Heart Beat			
72	C4	C5	O		Sagat 1	Bubble	Foot Steps	Maracas Stereo	Maracas Stereo	
73	C#4	C#5		Guiro Short Stereo	Tabel Dom	Feed		Shaker Stereo	Shaker Stereo	
74	D4	D5	O	Guiro Long Stereo	Sagat 3			Cabasa Stereo	Cabasa Stereo	
75	D#4	D#5			Tabel Tak				Cuica Mute Stereo	
76	E4	E5			Sagat 2				Cuica Open Stereo	
77	F4	F5			Rik Dom					
78	F#4	F#5		Cuica Mute Stereo	Rik Tak 2					
79	G4	G5		Cuica Open Stereo	Rik Finger 1					
80	G#4	G#5	2	Triangle Mute Stereo	Rik Tak 1					
81	A4	A5	2	Triangle Open Stereo	Rik Finger 2				Triangle Mute Stereo	
82	A#4	A#5		Shaker Stereo	Rik Brass Tremolo				Triangle Open Stereo	
83	B4	B5			Rik Sak					
84	C5	C6		Wind Chime Stereo	Rik Tik	Dog	Machine Gun		Wind Chime Stereo	
85	C#5 (C#6)					Horse	Laser Gun			
86	D5 (D6)					Bird Tweet 2	Explosion			
87	D#5 (D#6)						Firework			
88	E5 (E6)									
89	F5 (F6)									
90	F#5 (F#6)					Ghost				
91	G5 (G6)					Maou				

Style List / Liste der Styles / Liste des styles / Lista de estilos

Category	Style Name	
8Beat	Cool8Beat	
	8BeatModern	
	OrganBallad	
	Unplugged	
	8BeatAdria	
	HeartBeat	
	60'sGtrPop	
	60's8Beat	
	8Beat1	
	8Beat2	
	PianoBallad	
	RomanticBallad	
	RomanticPiano	
	LoveSong	
	AcousticBallad	
	6-8ModernEP	
	6-8Orchestral	
	6-8SlowRock1	
	6-8SlowRock2	
	OffBeat	
	60'sRock1	
	60'sRock2	
	60'sRock3	
	BritPop	
	RockBallad	
	HardRock	
	Rock+HalfTime	
	RockShuffle	
	RootRock	
	8BeatRock	
	SynthRock	
	8BeatPiano	
	J-Ballad1	
	J-Ballad2	
	16Beat	16Beat
		PopBallad
		16BeatBallad1
		16BeatBallad2
		SlowBallad
FusionShuffle		
PopShuffle1		
PopShuffle2		
GuitarPop		
16BeatUpTempo		
Slow&Easy		
AnalogBallad		
R&B		
HipHopLight		
KoolShuffle		
FunkyFusion		
JazzRock		
16BeatFunk		
Piano16Beat		
J-16Ballad		
Dance	EuroTrance	
	Ibiza	
	HouseMusik	
	SwingHouse	
	TechnoPolis	
	Clubdance	
	ClubLatin	
	Garage1	
	Garage2	
	TechnoParty	
	USPop	
	UKPop	
	Groundbeat	
	HipHopGroove	
	TripHop	
	CoolBlues	
	HipShuffle	
	DanceShuffle	
	HipHopPop	
	6-8Trance	
	80'sDance	
	Disco	DiscoPhilly1
		70'sDisco1
70'sDisco2		
70'sDisco3		
LatinDisco		
DiscoPhilly2		
SaturdayNight		
DiscoChocolate		

Category	Style Name	
Disco	DiscoHands	
	DiscoFunk	
	DiscoSamba	
	DiscoParty	
	DiscoFox	
	FunkyDisco	
	DiscoVenus	
	BigBand	BigBandFast1
		BigBandMid1
		30'sBigBand
		JungleDrum
		EasyListening
		BigBandFast2
		BigBandMid2
		40'sBigBand
		CatGroove
		OrchestraBallad
		BigBandBallad
		MidnightSwing
	Swing&Jazz	MoonlightBallad
		BigBandShuffle1
		BigBandShuffle2
		BigBandBoogie
		AcousticJazz
		JazzClub
		Swing1
		Swing2
		Five-Four
		JazzPiano1
		JazzBallad1
GypsySwing		
Dixieland1		
Ragtime1		
AfroCuban		
Bebop		
LoungePiano		
ElectricJazz		
StrideSwing		
PianoShuffle		
JazzVocal		
Charleston		
Dixieland2		
Ragtime2		
R&B	Soul	
	DetroitPop1	
	Twist	
	60'sRock&Roll	
	Swingin'Boogie	
	GospelSwing	
	GospelSisters	
	GospelBrothers	
	6-8Soul	
	DenimBlues	
	ModernR&B	
	NewGospel	
	Funk	
	CrocoTwist	
	Rock&Roll	
	SoulBeat	
	DetroitPop2	
	SoulShuffle	
ComboTwist		
BoogieWoogie		
6-8Blues		
BluesPiano1		
BluesPiano2		
BluesBallad		
BlueberryBlues		
AmazingGospel		
GospelFunk		
GospelShuffle		
LovelyShuffle		
ComboBoogie		
BluesShuffle		
4-4Blues		
CoolFunk		
Country	Country8Beat1	
	CountryPop1	
	CountryRock	
	CntrySing-a-long	
	CountrySwing1	
	ModernCntryBld	
	ModernCntryPop	

Category	Style Name
Country	CountryBallad
	Country2-4
	CowboyBoogie
	Country8Beat2
	CountryPop2
	CountryBrothers
	CountryShuffle
	CountrySwing2
	Bluegrass1
	Bluegrass2
	Hoedown
	FingerPickin
	CountryUnplugged
	CountryTwoStep
	SingerSongWriter
CountrySlide	
Latin	BrazilianSamba
	PopSamba
	BossaNova
	PopBossa1
	PopBossa2
	BigBandSamba
	BigBandMambo
	BigBandSalsa
	CoolBossa
	SlowBossa
	Tijuana
	DiscoLatin
	LatinPop
	RockChaCha
	FastBossa
	Mambo1
	Mambo2
	Salsa
Montuno	
Merengue	
GuitarBossa1	
GuitarBossa2	
ComboSamba	
Beguine	
ComboRumba	
GypsyRumba	
RumbaFlamenca	
Rumbalsland	
PopRumba	
Espagnole	
Carnival	
Caribbean	
HappyReggae	
SheriffReggae	
JumboReggae	
Bolero	
March	USMarch
	6-8March
	ChildrensMarch
	GermanMarch1
	GermanMarch2
	BandMarch
	PolkaPop
	PolkaOberkrainer
	Tarantella
	Waltz
SwingWaltz	
PopWaltz	
JazzWaltz1	
JazzWaltz2	
BandWaltz	
CountryWaltz	
TraditionalWaltz	
WaltzOberkrainer	
Musette	
ClassicWaltz	
MidnightWaltz	
BallRoom	VienneseWaltz
	EnglishWaltz
	Slowfox
	Foxtrot
	Quickstep
	OrganQuickstep
	Tango1
	Tango2
	Swingfox
	Pasodoble

Category	Style Name
BallRoom	Samba
	ChaChaCha
	Rumba
Movie&Show	MovieBallad
	MovieSwing
	SecretService
	WildWest
	MoviePanther
	Showtune
	ChristmasSwing
World	ChristmasWaltz
	IrishDance
	ScottishReel
	Jig
	Hawaiian
	FrenchMusette
	LimboRock
	HullyGully
	Enka1
	Enka2
	Enka3
	JapaneseFolk
	FolkRock
	NewAge
	PopEnka
DanceGroove	
Pianist	Stride1
	Stride2
	PianoSwing1
	PianoSwing2
	PianoSwing3
	PianoRag1
	PianoRag2
	Arpeggio1
	Arpeggio2
	Arpeggio3
	PianoOrchBallad
	Musical
	Traditional1
	Traditional2
	Traditional3
	PianoBoogie
	PianoRock&Roll
	SlowRock
	2BeatSwing
	JazzBallad2
	8Beat
	8BeatBallad1
	8BeatBallad2
4Stroke	
Nocturne	
PianoMarch1	
PianoMarch2	
6-8PianoMarch	
Waltz	
JazzWaltz	
PianoBossa	
PianoSamba	
PianoChaCha	
PianoBeguine	
PianoRumba	
SlowWaltz	

Effect Type List / Liste der Effekttypen Liste des types d'effet / Lista de tipos de efecto

■ Effect Type (for Natural Voices)

Reverb	Chorus	DSP	Brilliance
ROOM	CHORUS	DELAY LCR	DARK
HALL 1	CELESTE	DELAY LR	MELLOW
HALL 2	FLANGER	ECHO	NORMAL
STAGE		CRS-DELAY	BRIGHT
PLATE		SYMPHONIC	METALLIC
		ROTARY SP	
		TREMOLO	
		VIB ROTER	
		AUTO PAN	
		PHASER	
		AUTO WAH	
		PIANO REV	
		NO EFFECT	

■ XG Effect Type

○ Reverb Type

Effect Name	Type MSB	Type LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
HALL M	1	6
HALL L	1	7
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
ROOM S	2	5
ROOM M	2	6
ROOM L	2	7
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
GM PLATE	4	7
WHITE ROOM	16	0
TUNNEL	17	0
CANYON	18	0
BASEMENT	19	0
NO EFFECT	0	0

○ Chorus Type

Effect Name	Type MSB	Type LSB
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
GM CHORUS1	65	3
GM CHORUS2	65	4
GM CHORUS3	65	5
GM CHORUS4	65	6
FB CHORUS	65	7
CELESTE1	66	0
CELESTE2	66	2
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0
GM FLANGER	67	7
SYMPHONIC1	68	16
SYMPHONIC2	68	0
PHASER1	72	0
ENS DETUNE (ENSEMBLE DETUNE)	87	0
NO EFFECT	0	0

○ DSP Type

DSP Block

Variation	DSP 1
Insertion 1	DSP 3
Insertion 2	DSP 4
Insertion 3	DSP 5
Insertion 4	DSP 6
Insertion 5	DSP 7

Variation/Insertion1-4

Effect Name	Type MSB	Type LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
HALL M	1	6
HALL L	1	7
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
ROOM S	2	5
ROOM M	2	6
ROOM L	2	7
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
GM PLATE	4	7
WHITE ROOM	16	0
TUNNEL	17	0
CANYON	18	0
BASEMENT	19	0
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
GM CHORUS1	65	3
GM CHORUS2	65	4
GM CHORUS3	65	5
GM CHORUS4	65	6
FB CHORUS	65	7
CELESTE1	66	0
CELESTE2	66	2
SYMPHONIC1	68	16
SYMPHONIC2	68	0
ENS DETUNE (ENSEMBLE DETUNE)	87	0
KARAOKE1	20	0
KARAOKE2	20	1
KARAOKE3	20	2
ER1	9	0
ER2	9	1
GATE REVERB	10	0
REVERS GATE	11	0
EQ DISCO	76	16
EQ TEL	76	17
2BAND EQ	77	0
3BAND EQ	76	0
HM ENHANCE1 (HARMONIC ENHANCER 1)	81	16
HM ENHANCE2 (HARMONIC ENHANCER 2)	81	0
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0
GM FLANGER	67	7
DELAY LCR1	5	16
DELAY LCR2	5	0
DELAY LR	6	0
ECHO	7	0
CROSS DELAY	8	0
TEMPO DELAY	21	0
TEMPO ECHO	21	8
TEMPO CROSS	22	0
DIST HEAVY	73	0
ST DIST (STEREO DISTORTION)	73	8
COMP+DIST1 (COMPRESSOR+DISTORTION 1)	73	16
COMP+DIST2 (COMPRESSOR+DISTORTION 2)	73	1
OVERDRIVE	74	0
ST OD (STEREO OVER DRIVE)	74	8
DIST HARD (DISTORTION HARD)	75	16
DIST SOFT (DISTORTION SOFT)	75	17
ST DIST HARD (STEREO DISTORTION HARD)	75	18
ST DIST SOFT (STEREO DISTORTION SOFT)	75	19
V_DIST HARD (V DISTORTION HARD)	98	0
V_DIST SOFT (V DISTORTION SOFT)	98	2
AMP SIM (AMP SIMULATOR)	75	0
ST AMP1 (STEREO AMP SIMULATOR 1)	75	20

Effect Name	Type MSB	Type LSB
ST AMP2 (STEREO AMP SIMULATOR 2)	75	21
ST AMP3 (STEREO AMP SIMULATOR 3)	75	8
DST+DELAY1 (DISTORTION+DELAY 1)	95	16
DST+DELAY2 (DISTORTION+DELAY 2)	95	0
OD+DELAY1 (OVERDRIVE+DELAY 1)	95	17
OD+DELAY2 (OVERDRIVE+DELAY 2)	95	1
CMP+DST+DLY1 (COMPRESSOR+DISTORTION+DELAY 1)	96	16
CMP+DST+DLY2 (COMPRESSOR+DISTORTION+DELAY 2)	96	0
CMP+OD+DLY1 (COMPRESSOR+OVERDRIVE+DELAY 1)	96	17
CMP+OD+DLY2 (COMPRESSOR+OVERDRIVE+DELAY 2)	96	1
V_DST H+DLY (V DISTORTION HARD+DELAY)	98	1
V_DST S+DLY (V DISTORTION SOFT+DELAY)	98	3
DST+TDLY (DISTORTION+TEMPO DELAY)	100	0
OD+TDLY (OVERDRIVE+TEMPO DELAY)	100	1
CMP+DST+TDL (COMPRESSOR+DISTORTION+TEMPO DELAY)	101	0
CMP+OD+TDLY (COMPRESSOR+OVERDRIVE+TEMPO DELAY)	101	1
V_DST H+TDLY (V DISTORTION HARD+TEMPO DELAY)	103	0
V_DST S+TDLY (V DISTORTION SOFT+TEMPO DELAY)	103	1
COMPRESSOR	83	0
NOISE GATE	84	0
VCE CANCEL	85	0
AMBIENCE	88	0
TALKING MOD	93	0
LO-FI	94	0
PHASER1	72	0
PHASER2	72	8
EP PHASER1	72	17
EP PHASER2	72	18
EP PHASER3	72	16
PITCH CHG1 (PITCH CHANGE 1)	80	16
PITCH CHG2 (PITCH CHANGE 2)	80	0
PITCH CHG3 (PITCH CHANGE 3)	80	1
ROTARY SP1	69	16
ROTARY SP2	71	17
ROTARY SP3	71	18
ROTARY SP4	70	17
ROTARY SP5	66	18
ROTARY SP6	69	0
2WAY ROT SP (2WAY ROTARY SP)	86	0
DST+ROT SP (DISTORTION+ROTARY SP)	69	1
DST+2ROT SP (DISTORTION+2WAY ROTARY SP)	86	1
OD+ROT SP (OVERDRIVE+ROTARY SP)	69	2
OD+2ROT SP (OVERDRIVE+2WAY ROTARY SP)	86	2
AMP+ROT SP (AMP SIMULATOR+ROTARY SP)	69	3
AMP+2ROT SP (AMP SIMULATOR+2WAY ROTARY SP)	86	3
DUAL ROT SP1 (DUAL ROTOR SPEAKER 1)	99	0
DUAL ROT SP2 (DUAL ROTOR SPEAKER 2)	99	1
AUTO PAN1	71	16
AUTO PAN2	71	0
EP AUTOPAN	71	21
TREMOLO1	70	16
TREMOLO2	71	19
TREMOLO3	70	0
EP TREMOLO	70	18
GT TREMOLO1	71	20
GT TREMOLO2	70	19
AUTO WAH1	78	16
AUTO WAH2	78	0
AT WAH+DST1 (AUTO WAH+DISTORTION 1)	78	17
AT WAH+DST2 (AUTO WAH+DISTORTION 2)	78	1
AT WAH+OD1 (AUTO WAH+OVERDRIVE 1)	78	18
AT WAH+OD2 (AUTO WAH+OVERDRIVE 2)	78	2
TOUCH WAH1	82	0
TOUCH WAH2	82	8
TC WAH+DST1 (TOUCH WAH+DISTORTION 1)	82	16
TC WAH+DST2 (TOUCH WAH+DISTORTION 2)	82	1
TC WAH+OD1 (TOUCH WAH+OVERDRIVE 1)	82	17
TC WAH+OD2 (TOUCH WAH+OVERDRIVE 2)	82	2
CLAVI TC WAH (CLAVI TOUCH WAH)	82	18
EP TC WAH (EP TOUCH WAH)	82	19
WH+DST+DLY1 (WAH+DISTORTION+DELAY 1)	97	16
WH+DST+DLY2 (WAH+DISTORTION+DELAY 2)	97	0
WH+DST+TDLY (WAH+DISTORTION+TEMPO DELAY)	102	0
WH+OD+DLY1 (WAH+OVERDRIVE+DELAY 1)	97	17
WH+OD+DLY2 (WAH+OVERDRIVE+DELAY 2)	97	1
WH+OD+TDLY (WAH+OVERDRIVE+TEMPO DELAY)	102	1
THRU	64	0
NO EFFECT	0	0

Insertion5

Effect Name	Type MSB	Type LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
CELESTE1	66	0
CELESTE2	66	2
SYMPHONIC1	68	16
SYMPHONIC2	68	0
ENS DETUNE (ENSEMBLE DETUNE)	87	0
KARAOKE1	20	0
KARAOKE2	20	1
KARAOKE3	20	2
EQ DISCO	76	16
EQ TEL	76	17
2BAND EQ	77	0
3BAND EQ	76	0
HM ENHANCE1 (HARMONIC ENHANCER 1)	81	16
HM ENHANCE2 (HARMONIC ENHANCER 2)	81	0
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0
DELAY LCR1	5	16
DELAY LCR2	5	0
DELAY LR	6	0
ECHO	7	0
CROSS DELAY	8	0
TEMPO DELAY	21	0
TEMPO ECHO	21	8
TEMPO CROSS	22	0
DIST HEAVY	73	0
OVERDRIVE	74	0
DIST HARD (DISTORTION HARD)	75	16
DIST HARD2	75	22
DIST SOFT (DISTORTION SOFT)	75	17
DIST SOFT2	75	23
AMP SIM (AMP SIMULATOR)	75	0
ST AMP2	75	21
COMPRESSOR	83	0
NOISE GATE	84	0
PHASER1	72	0
EP PHASER1	72	17
EP PHASER2	72	18
EP PHASER3	72	16
ROTARY SP1	69	16
ROTARY SP2	71	17
ROTARY SP3	71	18
ROTARY SP4	70	17
ROTARY SP5	66	18
ROTARY SP6	69	0
ROTARY SP7	71	22
AUTO PAN1	71	16
AUTO PAN2	71	0
EP AUTOPAN	71	21
TREMOLO1	70	16
TREMOLO2	71	19
TREMOLO3	70	0
EP TREMOLO	70	18
GT TREMOLO1	71	20
GT TREMOLO2	70	19
AUTO WAH1	78	16
AUTO WAH2	78	0
TOUCH WAH1	82	0
TOUCH WAH2	82	8
THRU	64	0

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.

XG Effect Name

TypeMSB (Type LSB)

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

MSB = 01
MSB = 02
MSB = 03
MSB = 04

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 (rev, var, ins1-4 block)	0-4		
		0-2 (ins5 block)	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)

MSB = 05

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
2	Rch Delay	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
3	Cch Delay	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
4	Feedback Delay	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
5	Feedback Level	-63-+63	1-127		
6	Cch Level	0-127	0-127		
7	High Damp	0.1-1.0	1-10		
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	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)

MSB = 06

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
2	Rch Delay	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
3	Feedback Delay 1	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
4	Feedback Delay 2	0.1-1486.0ms (*1)	1-14860		
		0.1-715.0ms (*2)	1-7150		
5	Feedback Level	-63-+63	1-127		
6	High Damp	0.1-1.0	1-10		
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	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)

MSB = 07

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1-743.0ms (*1)	1-7430		
		0.1-355.0ms (*2)	1-3550		
2	Lch Feedback Level	-63-+63	1-127		
3	Rch Delay1	0.1-743.0ms (*1)	1-7430		
		0.1-355.0ms (*2)	1-3550		
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)	1-7430		
		0.1-355.0ms (*2)	1-3550		
7	Rch Delay2	0.1-743.0ms (*1)	1-7430		
		0.1-355.0ms (*2)	1-3550		
8	Delay2 Level	0-127	0-127		
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	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)

MSB = 08

No.	Parameter	Display	Value	See Table	Control
1	L→R Delay	0.1-743.0ms (*1)	1-7430		
		0.1-355.0ms (*2)	1-3550		
2	R→L Delay	0.1-743.0ms (*1)	1-7430		
		0.1-355.0ms (*2)	1-3550		
3	Feedback Level	-63-+63	1-127		
4	Input Select	L, R, L&R	0-2		
5	High Damp	0.1-1.0	1-10		
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	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, Insertion1-4 block)

MSB = 09

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Fdm, Rvs, Pilt, 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, Insertion1-4 block)

MSB = 10

MSB = 11

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, Insertion1-4 block)

MSB = 16

MSB = 17

MSB = 18

MSB = 19

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					

KARAOKE1, 2, 3 (variation, insertion block)

MSB = 20

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 (variation, Insertion block)
TEMPO ECHO (variation, Insertion block)

MSB = 21

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	32-2.0KH	4-40		
14	EQ Low Gain	-12+12dB	52-76		
15	EQ High Frequency	500-16.0kHz	28-58		
16	EQ High Gain	-12+12dB	52-76		

TEMPO CROSS (variation, Insertion block)

MSB = 22

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	32-2.0KH	4-40		
14	EQ Low Gain	-12+12dB	52-76		
15	EQ High Frequency	500-16.0kHz	28-58		
16	EQ High Gain	-12+12dB	52-76		

CHORUS1, 2, 3, 4

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

MSB = 65

MSB = 66

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<W=63	1-127		●
11	EQ Mid Frequency (*1)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (*1)	-12+12dB	52-76		
13	EQ Mid Width (*1)	1.0-12.0	10-120		
14					
15	Input Mode	mono/stereo	0-1		
16					

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

MSB = 67

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<W=63	1-127		●
11	EQ Mid Frequency (*1)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (*1)	-12+12dB	52-76		
13	EQ Mid Width (*1)	1.0-12.0	10-120		
14	LFO Phase Difference	-180+180deg (resolution=3deg.)	4-124		
15					
16					

SYMPHONIC (chorus, variation, insertion block)

MSB = 68

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<W=63	1-127		●
11	EQ Mid Frequency (*1)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (*1)	-12+12dB	52-76		
13	EQ Mid Width (*1)	1.0-12.0	10-120		
14					
15					
16					

ROTARY SPEAKER (variation, insertion block)

MSB = 69, LSB = 0, 16, 17

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<W=63	1-127		
11	EQ Mid Frequency (*1)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (*1)	-12+12dB	52-76		
13	EQ Mid Width (*1)	1.0-12.0	10-120		
14					
15					
16					

DISTORTION+ROTARY SPEAKER (variation, Insertion1-4 block)
OVERDRIVE+ROTARY SPEAKER (variation, Insertion1-4 block)

MSB = 69, LSB = 1
MSB = 69, LSB = 2

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	32-2.0kHz	4-40		
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500-16.0kHz	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		

AMP SIM.+ROTARY SPEAKER (variation, Insertion1-4 block)

MSB = 69, LSB = 3

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	32-2.0kHz	4-40		
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500-16.0kHz	28-58		
9	EQ High Gain	-12+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W=63	1-127		
11					
12					
13					
14	Drive	0-127	0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level	0-127	0-127		

TREMOLO (variation, insertion block)

MSB = 70

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	AM Depth	0-127	0-127		
3	PM Depth	0-127	0-127		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	-12+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	-12+12dB	52-76		
10					
11	EQ Mid Frequency (*1)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (*1)	-12+12dB	52-76		
13	EQ Mid Width (*1)	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)

MSB = 71

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, Lt->R, Rt->L, 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 (*1)	100Hz-10.0kHz	14-54	table#3	
12	EQ Mid Gain (*1)	-12+12dB	52-76		
13	EQ Mid Width (*1)	1.0-12.0	10-120		
14					
15					
16					

PHASER 1 (chorus, variation, insertion block)

MSB = 72, LSB = 0, 16, 17, 18

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

PHASER 2 (variation, Insertion1-4 block)

MSB = 72, LSB = 8

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

DISTORTION OVERDRIVE (variation, insertion block)

**MSB = 73, LSB = 0
MSB = 74**

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

COMP+DIST (variation, Insertion1-4 block)

MSB = 73, LSB = 1, 16

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

STEREO DISTORTION (variation, Insertion1-4 block)

MSB = 73, LSB = 8

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32-2.0kHz	4-40	table#3	
3	EQ Low Gain	-12~+12dB	52-76		
4	LPF Cutoff	1kHz~Thru	34-60		
5	Output Level	0-127	0-127		
6					
7	EQ Mid Frequency	100-10.0kHz	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					

STEREO OVER DRIVE (variation, Insertion1-4 block)

MSB = 74, LSB = 8

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32-2.0kHz	4-40	table#3	
3	EQ Low Gain	-12~+12dB	52-76		
4	LPF Cutoff	1kHz~Thru	34-60		
5	Output Level	0-127	0-127		
6					
7	EQ Mid Frequency	100-10.0kHz	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					

AMP SIMULATOR (variation, insertion block)

**MSB = 75,
LSB = 0, 16, 17, 22, 23, 24, 25**

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

STEREO AMP SIMULATOR (variation, Insertion1-4 block)

MSB = 75, LSB = 8, 18, 19, 20, 21

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, insertion block)

MSB = 76

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)

MSB = 77

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)

MSB = 78, LSB = 0, 16, 19, 20

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 (*1)	0-127	0-127		
12					
13					
14					
15					
16					

AUTO WAH+DIST
AUTO WHA+ODRV (variation, Insertion1-4 block)

MSB = 78, LSB = 1, 17
MSB = 78, LSB = 2, 18

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					

TOUCH WAH 2 (variation, insertion block)
TOUCH WHA+ODRV (variation, Insertion1-4 block)

MSB = 82, LSB = 8
MSB = 82, LSB = 2, 17, 18, 19

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	0-127 (var/ins1-4 block)	0-127		
12	EQ Low Gain(distortion)	-12~+12dB (var/ins1-4 block)	52-76		
13	EQ Mid Gain(distortion)	-12~+12dB (var/ins1-4 block)	52-76		
14	LPF Cutoff	1.0kHz~thru (var/ins1-4 block)	34-60	table#3	
15	Output Level	0-127 (var/ins1-4 block)	0-127		
16	Release	10~680mS (var/ins1-4 block)	52-67	table#12	

PITCH CHANGE 1 (variation, Insertion1-4 block)

MSB = 80, LSB = 0, 16

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

COMPRESSOR (variation, insertion block)

MSB = 83

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					

PITCH CHANGE 2 (variation, Insertion1-4 block)

MSB = 80, LSB = 1

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

NOISE GATE (variation, insertion block)

MSB = 84

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					

HARMONIC ENHANCER (variation, Insertion block)

MSB = 81

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					

VOICE CANCEL (variation, Insertion1-4 block)

MSB = 85

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					

TOUCH WAH 1 (variation, insertion block)
TOUCH WHA+DIST (variation, Insertion1-4 block)

MSB = 82, LSB = 0
MSB = 82, LSB = 1, 16

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	0-127 (var/ins1-4 block)	0-127		
12					
13					
14					
15					
16					

2WAY ROTARY SPEAKER (variation, Insertion1-4 block)

MSB = 86, LSB = 0

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 (variation, Insertion1-4 block)
OD+2WAY ROTARY SPEAKER (variation, Insertion1-4 block)

MSB = 86, LSB = 1
MSB = 86, LSB = 2

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	32-2.0kHz	4-40		
7	EQ Low Gain	-12->+12dB	52-76		
8	EQ High Frequency	500-16.0kHz	28-58		
9	EQ High Gain	-12->+12dB	52-76		
10					
11	Crossover Frequency	100-10.0kHz	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, Insertion1-4 block)

MSB = 86, LSB = 3

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	32-2.0kHz	4-40		
7	EQ Low Gain	-12->+12dB	52-76		
8	EQ High Frequency	500-16.0kHz	28-58		
9	EQ High Gain	-12->+12dB	52-76		
10					
11	Crossover Frequency	100-10.0kHz	14-54		
12	Mic L-R Angle	0-180deg	0-60		
13	AMP Type	Off, Slack, Combo, Tube (AMPSIM only)	0-3		
14	Drive		0-127		
15	LPF Cutoff	1kHz-Thru	34-60		
16	Output Level		0-127		

ENSEMBLE DETUNE (chorus, variation, insertion block)

MSB = 87

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, Insertion1-4 block)

MSB = 88

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, Insertion1-4 block)

MSB = 93

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, Insertion1-4 block)

MSB = 94

No.	Parameter	Display	Value	See Table	Control
1	Sampling Freq Control	44.1kHz-345Hz	0-127		
2	Word Length	1-127	1-127	table#13	
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 (variation, Insertion1-4 block)

OVERDRIVE+DELAT (variation, Insertion1-4 block)

MSB = 95

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 (variation, Insertion1-4 block)

COMP+OVERDRIVE+DELAT (variation, Insertion1-4 block)

MSB = 96

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 (variation, Insertion1-4 block)

WAH+OVERDRIVE+DELAT (variation, Insertion1-4 block)

MSB = 97

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 (variation, Insertion1-4 block)

V DISTORTION SOFT (variation, Insertion1-4 block)

MSB = 98, LSB = 0

MSB = 98, LSB = 2

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					

V DISTORTION HARD+DELAY (variation, Insertion1-4 block)
V DISTORTION SOFT+DELAY (variation, Insertion1-4 block)

MSB = 98, LSB = 1
MSB = 98, LSB = 3

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

V DIST HARD+TEMPO DELAY (variation, Insertion1-4 block)
V DIST SOFT+TEMPO DELAY (variation, Insertion1-4 block)

MSB = 103

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

DUAL ROTOR SPEAKER1, 2 (variation, Insertion1-4 block)

MSB = 99

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

NO EFFECT (reverb, chorus, variation block)

MSB = 10

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

DIST+TEMPO DELAY (variation, Insertion1-4 block)

OVERDRIVE+TEMPO DELAY (variation, Insertion1-4 block)

MSB = 100

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

THRU (variation, insertion block)

MSB = 64

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.

*1 variation, insertion 1-4

*2 insertion 5

*3 insertion 1-4

COMP+DIST+TEMPO DELAY (variation, Insertion1-4 block)

COMP+OD+TEMPO DELAY (variation, Insertion1-4 block)

MSB = 101

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

WAH+DIST+TEMPO DELAY (variation, Insertion1-4 block)

WAH+OD+TEMPO DELAY (variation, Insertion1-4 block)

MSB = 102

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

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

Table#1
LFO Frequency

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

Table#4
Reverb Time

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

Table#7
Delay Time (400.Oms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	100.9	64	201.6	96	302.4
1	3.2	33	104.0	65	204.8	97	305.5
2	6.4	34	107.2	66	207.9	98	308.7
3	9.5	35	110.3	67	211.1	99	311.8
4	12.7	36	113.5	68	214.2	100	315.0
5	15.8	37	116.6	69	217.4	101	318.1
6	19.0	38	119.8	70	220.5	102	321.3
7	22.1	39	122.9	71	223.7	103	324.4
8	25.3	40	126.1	72	226.8	104	327.6
9	28.4	41	129.2	73	230.0	105	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

Table#12
Wah Release Time

Data	Value
52	10.0
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#2
Modulation Delay Offset

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

Table#5
Delay Time (200.Oms)

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

Table#8
Compressor
Attack Time

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
0	10
1	15

Harmony/Echo Type List

Liste der Harmony/Echo-Effekttypen

Liste des types d'harmonie/d'écho

Lista de tipos de ecos/armonías

STANDARD DUET
STANDARD TRIO
FULL CHORD
ROCK DUET
COUNTRY DUET
COUNTRY TRIO
BLOCK
4-WAY CLOSE 1
4-WAY CLOSE 2
4-WAY OPEN
1+5
OCTAVE
STRUM
MULTI ASSIGN
ECHO
TREMOLO
TRILL

Vocal Harmony Type List

Liste der Vocal-Harmony-Effekttypen

Liste des types d'harmonie vocale

Lista de tipos de armonía

Display Name	Harmony Type	Mode
CountryQuar	CountryQuartet	Chordal/Vocoder
CIsdMenQuar	ClosedMenQuartet	Chordal/Vocoder
MixAcapQuar	MixAcapQuartet	Chordal/Vocoder
WomenChoir	Women Choir	Chordal/Vocoder
JazzSisters	Jazz Sisters	Chordal/Vocoder
Std Duet	Standard Duet	Chordal/Vocoder
MenChoir	Men Choir	Chordal/Vocoder
ClosedChoir	Closed Choir	Chordal/Vocoder
Girl Duet	Girl in Duet	Chordal/Vocoder
SpdyMouse	Speedy Mouse	Chromatic
HighMaleQua	HighMaleQuartet	Chordal/Vocoder
JazzQuartet	Jazz Quartet	Chordal/Vocoder
MixedChoir	Mixed Choir	Chordal/Vocoder
CntryGirls	Country Girls	Chordal/Vocoder
SistersTrio	Sisters Trio	Chordal/Vocoder
CountryMen	Country Men	Chordal/Vocoder
ACapellBoy	A Capella Boy	Chordal/Vocoder
ACapellaMix	A Capella Mix	Chordal/Vocoder
GospelDiva	Gospel Diva	Chordal/Vocoder
Lisa&Tina	Lisa and Tina	Chordal/Vocoder
AcapMenQuar	AcapMenQuartet	Chordal/Vocoder
JazzMenCho	JazzMenChoir	Chordal/Vocoder
J_CloseCho	JazzClosedCho	Chordal/Vocoder
J_WomenCho	JazzWomenCho	Chordal/Vocoder
LadiesQuart	LadiesQuartet	Chordal/Vocoder
SingB+G	Sing B+G	Chordal/Vocoder
Barbershop	Barbershop	Chordal/Vocoder
J_MixedCho	JazzMixedCho	Chordal/Vocoder
Dream Girls	Dream Girls	Chordal/Vocoder
SingBass	Sing the Bass	Chromatic
FalsetDuet	Falsetto Duet	Chordal/Vocoder
FalsetTrio	Falsetto Trio	Chordal/Vocoder
FalsettoDia	Falsetto Dia	Chordal/Vocoder
FalACapella	Fal A Capella	Chordal/Vocoder
FalsetJazz	Falsetto Jazz	Chordal/Vocoder
2UnisonLow	2 Unison Low	Chordal/Vocoder
3UnisonLow	3 Unison Low	Chordal/Vocoder
DiatncJazz	Diatonic Jazz	Chordal/Vocoder
DiatncGirl	Diatonic Girl	Chordal/Vocoder
ACapellaDia	A Capella Dia	Chordal/Vocoder
ChordalXG	ChordalXG	Chordal/Vocoder
KaraokAuto	Karaoke Auto	Chordal/Vocoder
KaraokMode	Karaoke Mode	Chordal/Vocoder
KaraokGirl	Karaoke Girl	Chordal/Vocoder
KaraokPich	Karaoke Pitch	Chordal/Vocoder
2UnisonHigh	2 Unison High	Chordal/Vocoder
3UnisonHigh	3 Unison High	Chordal/Vocoder
VocodAutoU	Vocoder Auto Upper	Chordal/Vocoder
VocodAutoL	Vocoder Auto Lower	Chordal/Vocoder
DetuneXG	DetuneXG	Detune
VocoderXG	VocoderXG	Chordal/Vocoder
VocodModeU	Vocoder Mode Upper	Chordal/Vocoder
VocodModeL	Vocoder Mode Lower	Chordal/Vocoder
VocodGirlU	Vocoder Girl Upper	Chordal/Vocoder
VocodGirlL	Vocoder Girl Lower	Chordal/Vocoder
VocodPichU	Vocoder Pitch Upper	Chordal/Vocoder
VocodPichL	Vocoder Pitch Lower	Chordal/Vocoder
ChromatXG	ChromaticXG	Chromatic
Voice&Inst	Voice & Inst	Chordal/Vocoder
Thru	Thru	-

Vocal harmony types that have "Chordal/Vocoder" in the Mode column can be used in either Chordal or Vocoder Mode.

Parameter Chart / Parametertabelle Tableau des paramètres / Gráfico de parámetros

Settings are saved/called up for each type.

Data Type	The data is saved...	The data is called up...	Saved Location
Setup	When you change settings in a display page and then exit from the page.	When you turn off the power and then turn on the power.	System area of the internal memory (Flash Memory)
Voice	When you change settings in the Voice Set display and then save the data as Voice file.	When you call up a voice.	Voice File
Song	When you save the recorded or edited (current) song as a Song file.	When you call up a song, play a song or move the song position.	Song File
Style	When you save the recorded or edited data as a Style file.	When you call up a style.	Style File
OTS	When you memorize settings with the REGISTRATION buttons and then save the current style as a Style file.	When you call up an OTS by pressing one of OTS buttons.	
Regist.	When you memorize settings with the REGISTRATION buttons and then save the data as a Registration Bank File.	When you call up an Regist. by pressing one of REGISTRATION MEMORY buttons.	Registration Bank File

If parameters belonging to more than one type are set, the new settings take priority over the old.

O: Memorized
X: Not Memorized

Parameter	System Setup	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
MainWindow											
Transpose	X	X	-	X	-	X	X	O	Tune/Trans	-	
SplitPoint(Accomp)	O	X	-	O	Guide Setting	X	X	O	Style	Split	
SplitPoint(Left)	O	X	-	X	-	X	X	O	Style	Split	
SongFile	X	X	-	X	-	X	X	O	Song	-	
StyleFile	X	X	-	O	-	X	X	O	Style	-	
IntroEndingSection	X	X	-	X	-	O	X	X	-	-	
VoiceFile (Main, Layer, Left)	X	X	-	X	-	X	X	X	-	-	The data that is saved to Regist./OTS is not actual Voice, but Program Change.
RegistrationBankFile	X	X	-	X	-	X	X	X	-	-	
PartSelect	X	X	-	X	-	X	X	X	-	-	
PartOnOff(Main, Layer)	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	Main Part is always on.
PartOnOff(Left)	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
BalancePopup											
SongVolume	X	X	-	X	-	X	X	O	Song	-	
StyleVolume	X	X	-	O	-	X	X	O	Style	-	
MicVolume	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
MainVolume	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
LeftVolume	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
LayerVolume	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Channel OnOffPopup											
ChannelOnOff(Song)	X	X	-	X	-	X	X	X	-	-	For songs that have no channel on/off message, all are set to on.
ChannelOnOff(Style)	X	X	-	O	-	O	X	O	Style	-	
VoiceEffect											
Reverb	O	X	-	X	-	X	X	X	-	-	
LeftHold	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Dsp(Main, Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Dsp(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Variation(Main, Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Variation(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Harmony/Echo	X	X	-	O	Keyboard Voice	X	O	O	Harmony	-	
Poly/Mono(Main, Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Poly/Mono(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Registration											
FreezeOnOff	X	X	-	X	-	X	X	X	-	-	
RegistMemoryPopupSetting	O	X	-	X	-	X	X	X	-	-	Filter settings when registering Registration.
RegistNumber	X	X	-	X	-	X	X	X	-	-	
RegistContentsName	X	X	-	X	-	X	X	O	-	-	
Piano											
PianoLock	O	X	-	X	-	X	X	X	-	-	
Menu>Function											
MasterTune/ScaleTune											
MasterTune											
MasterTune	O	X	-	X	-	X	X	X	-	-	
ScaleTune											
Scale	X	X	-	X	-	X	X	O	Scale	-	
Tune	X	X	-	X	-	X	X	O	Scale	-	
BaseNote	X	X	-	X	-	X	X	O	Scale	-	
SongSetting											
GuideLampOn/Off	O	X	-	X	-	X	X	X	-	-	
GuideLampTiming	O	X	-	O	Guide Setting	X	X	X	-	-	Reset to its default setting when song data doesn't include this data.
Guide Mode	O	X	-	O	Guide Setting	X	X	X	-	-	Reset to its default setting when song data doesn't include this data.
QuickStart	O	X	-	X	-	X	X	X	-	-	
SongChainPlay	O	X	-	X	-	X	X	X	-	-	
Channel Setting											
Track1 Channel	O	X	-	O	-	X	X	X	-	-	
Track2 Channel	O	X	-	O	-	X	X	X	-	-	
Vocal Harmony Channel →	Mic>MicSetup>VH Song Track										
Auto Ch Set	O	X	-	X	-	X	X	X	-	-	
Phrase Mark	X	X	-	X	-	X	X	X	-	-	
Lyrics Language	O	X	-	O	Lyrics Language	X	X	X	-	-	
StyleSetting/SplitPoint/ChordFingering											
StyleSetting/SplitPoint											
StopAccp	O	X	-	X	-	X	X	X	-	-	
OTSLinkTiming	O	X	-	X	-	X	X	X	-	-	
SynchroStopWindow	O	X	-	X	-	X	X	X	-	-	
AccompTouch	O	X	-	X	-	X	X	X	-	-	
SectionSet	O	X	-	X	-	X	X	X	-	-	
SplitPoint(Accomp) →	MainWindow										
SplitPoint(Left) →	MainWindow										
ChordFingering											
FingeringType	O	X	-	X	-	X	X	O	Style	O	
TutorRoot	X	X	-	X	-	X	X	X	-	-	
TutorType	X	X	-	X	-	X	X	X	-	-	

Parameter	System Setup	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Controller											
Pedal											
PedalType	X	O (Left only)	LPDL	O (Left only)	Keyboard Voice	X	O (Left only)	O	Pedal	-	
PedalSettings	X	O (Left only)	LPDL	O (Left only)	Keyboard Voice	X	O (Left only)	O	Pedal	-	
PedalTypeDefaultSetting	X	X	X	X	-	X	X	X	X	-	
PedalPolarity	O	X	-	X	-	X	X	X	-	-	
Keyboard/Panel											
TouchSense	O	X	-	X	-	X	X	X	-	-	
TouchOffLevel	X	X	-	X	-	X	X	O	Voice	-	
TouchOnOff	X	X	-	X	-	X	X	O	Voice	-	
TransposeAssign	X	X	-	X	-	X	X	X	-	-	
Regist.Sequence/Freeze/VoiceSet											
RegistrationSequence											
RegistSequenceData	X	X	-	X	-	X	X	O	-	-	Memorized as a single Registration Bank file.
RegistSequenceEnable	O	X	-	X	-	X	X	X	-	-	
Regist(+)Pedal	O	X	-	X	-	X	X	X	-	-	
Regist(-)Pedal	O	X	-	X	-	X	X	X	-	-	
SequenceEnd	X	X	-	X	-	X	X	O	-	-	Memorized as a single Registration Bank file.
Freeze											
FreezeGroupSetting	O	X	-	X	-	X	X	X	-	-	
VoiceSet											
VoiceSetEnable Main	O	X	-	X	-	X	X	X	-	-	
VoiceSetEnable Layer	O	X	-	X	-	X	X	X	-	-	
VoiceSetEnable Left	O	X	-	X	-	X	X	X	-	-	
Harmony/Echo											
Type	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
Volume	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
Speed	X	O	Harm	O	Keyboard Voice (Included in Type)	X	O	O	Harm	-	
Assign	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
ChordNoteOnly	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
TouchLimit	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
Utility											
Configuration											
Speaker	O	X	-	X	-	X	X	X	-	-	
DisplayVoiceNumber	O	X	-	X	-	X	X	X	-	-	
MetronomeVolume	O	X	-	X	-	X	X	X	-	-	
MetronomeSound	O	X	-	X	-	X	X	X	-	-	
TimeSignature	X	X	-	O	-	O	X	X	-	-	
ParameterLock	O	X	-	X	-	X	X	X	-	-	
TapCountPercussion	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
TapCountVelocity	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
LCDContrast	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
LCDBrightness	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
FadeInTime	O	X	-	X	-	X	X	X	-	-	
FadeOutTime	O	X	-	X	-	X	X	X	-	-	
FadeOutHoldTime	O	X	-	X	-	X	X	X	-	-	
Disk											
FloppyDiskSongAutoOpen	O	X	-	X	-	X	X	X	-	-	
Owner											
OwnerName	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
Language	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
MainPicture	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
SystemReset											
FactoryResetSetting	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
MIDI											
System											
Local Control	X	X	-	X	-	X	X	X	-	-	
Clock	X	X	-	X	-	X	X	X	-	-	
Transmit Clock	X	X	-	X	-	X	X	X	-	-	
Receive Transpose	X	X	-	X	-	X	X	X	-	-	
Receive Start/Stop	X	X	-	X	-	X	X	X	-	-	
SysEx Transmit	X	X	-	X	-	X	X	X	-	-	
SysEx Receive	X	X	-	X	-	X	X	X	-	-	
Chord SysEx Transmit	X	X	-	X	-	X	X	X	-	-	
Chord SysEx Receive	X	X	-	X	-	X	X	X	-	-	
Transmit											
Part (Ch1-16)	X	X	-	X	-	X	X	X	-	-	
Filter (Ch1-16)	X	X	-	X	-	X	X	X	-	-	
Receive											
Mode(Ch1-32)	X	X	-	X	-	X	X	X	-	-	
Filter (Ch1-32)	X	X	-	X	-	X	X	X	-	-	
Root	X	X	-	X	-	X	X	X	-	-	
Chord Detect	X	X	-	X	-	X	X	X	-	-	
MIDI Template											
Template No.	O	X	-	X	-	X	X	X	-	-	
Template Name	X	X	-	X	-	X	X	X	-	-	
VideoOut											
NTSC/PAL	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
ScreenContent	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
Lyrics											
BackGround(Panel Setting)	O	X	-	X	Lyrics Language	X	X	X	-	-	Cannot be reset with Factory Reset.
BackGround(Song Setting)	X	X	-	O	Lyrics Language	X	X	X	-	-	Reset to default background with Factory Reset.
MusicScore											
Left on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Right on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Lyric on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Chord on/off	O	X	-	O	Score Setting	X	X	X	-	-	
NoteName on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Size	O	X	-	O	Score Setting	X	X	X	-	-	
Left ch.	O	X	-	O	Score Setting	X	X	X	-	-	
Right ch.	O	X	-	O	Score Setting	X	X	X	-	-	
KeySignature	X	X	-	O	Score Setting	X	X	X	-	-	
Quantize	O	X	-	O	Score Setting	X	X	X	-	-	
NoteName	O	X	-	O	Score Setting	X	X	X	-	-	
ColorNote	O	X	-	O	Score Setting	X	X	X	-	-	

Parameter	System Setup	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Song											
Track1, 2 On/Off	X	X	-	O	Guide Setting	X	X	X	-	-	Setting is linked to Channel on/off.
ExtraTracks On/Off	X	X	-	X	-	X	X	X	-	-	Setting is linked to Channel on/off.
Synchro Start	X	X	-	X	-	X	X	X	-	-	
StartStop	X	X	-	X	-	X	X	X	-	-	
A-B Repeat	X	X	-	X	-	X	X	X	-	-	
DigitalStudio>DigitalRecording>Song Creator											
Rec Mode											
Rec Start	X	X	-	X	-	X	X	X	-	-	
PunchInAt	X	X	-	X	-	X	X	X	-	-	
Rec Stop	X	X	-	X	-	X	X	X	-	-	
PunchOutAt	X	X	-	X	-	X	X	X	-	-	
Pedal Punch In/Out	X	X	-	X	-	X	X	X	-	-	
Quantize											
Track	X	X	-	X	-	X	X	X	-	-	
Size	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	-	X	-	X	X	X	-	-	
Delete	X	X	-	X	-	X	X	X	-	-	
Mix											
Source1	X	X	-	X	-	X	X	X	-	-	
Source2	X	X	-	X	-	X	X	X	-	-	
Destination	X	X	-	X	-	X	X	X	-	-	
Channel Transpose	X	X	-	X	-	X	X	X	-	-	
SetUp	O	X	-	X	-	X	X	X	-	-	
Filter											
Main Filter	O	X	-	X	-	X	X	X	-	-	
Control Change Filter	O	X	-	X	-	X	X	X	-	-	
Accompaniment Filter	O	X	-	X	-	X	X	X	-	-	
Tempo											
Tempo	X	X	-	O	-	O	X	O	Tempo	-	
Transpose	→	MainWindow									
UpperOctave	→	MainWindow									
DigitalStudio>DigitalRecording>Style Creator											
Basic											
Section	X	X	-	X	-	X	X	X	-	-	
Pattern Length	X	X	-	X	-	O	X	X	-	-	
Tempo	X	X	-	X	-	O	X	X	-	-	
Beat	X	X	-	X	-	O	X	X	-	-	
Assembly											
Source Pattern	X	X	-	X	-	X	X	X	-	-	
Section	X	X	-	X	-	X	X	X	-	-	
Part	X	X	-	X	-	X	X	X	-	-	
Play Type	X	X	-	X	-	X	X	X	-	-	
Groove											
Original Beat	X	X	-	X	-	X	X	X	-	-	
Beat Converter	X	X	-	X	-	X	X	X	-	-	
Swing	X	X	-	X	-	X	X	X	-	-	
Fine	X	X	-	X	-	X	X	X	-	-	
Dynamics											
Part	X	X	-	X	-	X	X	X	-	-	
Accent Type	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	-	X	-	X	X	X	-	-	
Expand/Comp.	X	X	-	X	-	X	X	X	-	-	
Boost/Cut	X	X	-	X	-	X	X	X	-	-	
Quantize											
Part	X	X	-	X	-	X	X	X	-	-	
Size	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	-	X	-	X	X	X	-	-	
Velocity Change											
Part	X	X	-	X	-	X	X	X	-	-	
Boost/Cut	X	X	-	X	-	X	X	X	-	-	
Measure Copy											
Part	X	X	-	X	-	X	X	X	-	-	
Measure Top	X	X	-	X	-	X	X	X	-	-	
Measure Last	X	X	-	X	-	X	X	X	-	-	
Destination	X	X	-	X	-	X	X	X	-	-	
Measure Clear											
Part	X	X	-	X	-	X	X	X	-	-	
Measure Top	X	X	-	X	-	X	X	X	-	-	
Measure Last	X	X	-	X	-	X	X	X	-	-	
Remove Event											
Part	X	X	-	X	-	X	X	X	-	-	
Event	X	X	-	X	-	X	X	X	-	-	
Parameter											
Part	X	X	-	X	-	X	X	X	-	-	
Source Root	X	X	-	X	-	O	X	X	-	-	
Source Chord	X	X	-	X	-	O	X	X	-	-	
NTR	X	X	-	X	-	O	X	X	-	-	
NTT	X	X	-	X	-	O	X	X	-	-	
High Key	X	X	-	X	-	O	X	X	-	-	
Note Limit	X	X	-	X	-	O	X	X	-	-	
RTR	X	X	-	X	-	O	X	X	-	-	
Filter											
Main Filter	O	X	-	X	-	X	X	X	-	-	
Control Change Filter	O	X	-	X	-	X	X	X	-	-	
Style											
AccompanimentOnOff	X	X	-	X	-	X	O(On)	O	Style	-	
AutoFillOnOff	O	X	-	X	-	X	X	X	-	-	
OTSLink	O	X	-	X	-	X	X	X	-	-	
Section	X	X	-	O	-	X	X	O	Style	-	
SynchroStart	X	X	-	X	-	X	O(On)	X	-	-	
SynchroStop	X	X	-	X	-	X	X	X	-	-	
StartStop	X	X	-	O	-	X	X	X	-	-	

Parameter	System Setup	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
MusicFinder											
SortKind	O	X	-	X	-	X	X	X	-	-	
SortOrder	O	X	-	X	-	X	X	X	-	-	
TempoLock	O	X	-	X	-	X	X	X	-	-	
Search1/2											
Music	O	X	-	X	-	X	X	X	-	-	
Keyword	O	X	-	X	-	X	X	X	-	-	
FileNumber	O	X	-	X	-	X	X	X	-	-	
Beat	O	X	-	X	-	X	X	X	-	-	
SearchArea	O	X	-	X	-	X	X	X	-	-	
Tempo	O	X	-	X	-	X	X	X	-	-	
Genre	O	X	-	X	-	X	X	X	-	-	
Search results	X	X	-	X	-	X	X	X	-	-	
Record(=Property settings)	X	X	-	X	-	X	X	X	-	-	
Mic											
VocalHarmonyOnOff	X	X	-	O	Mic. Setting	X	X	O	Mic	Mic	
TalkOnOff	X	X	-	X	-	X	X	X	-	-	
EffectOnOff	X	X	-	O	Mic. Setting	X	X	O	Mic	Mic	
VHType	X	X	-	O	Mic. Setting	X	X	O	Mic	Mic	
VHParameters	X	X	-	O	Mic. Setting	X	X	X	-	Mic	Current VH Type settings and Type name
MicSetting											
OverallSetting											
EQ Low Freq.	O	X	-	X	-	X	X	X	-	-	
EQ Low Gain	O	X	-	X	-	X	X	X	-	-	
EQ Mid Freq.	O	X	-	X	-	X	X	X	-	-	
EQ Mid Gain	O	X	-	X	-	X	X	X	-	-	
EQ High Freq.	O	X	-	X	-	X	X	X	-	-	
EQ High Gain	O	X	-	X	-	X	X	X	-	-	
Noise Gate SW	O	X	-	X	-	X	X	X	-	-	
Noise Gate TH	O	X	-	X	-	X	X	X	-	-	
Compressow SW	O	X	-	X	-	X	X	X	-	-	
Compressor TH	O	X	-	X	-	X	X	X	-	-	
Compressor RAT	O	X	-	X	-	X	X	X	-	-	
Compressor OUT	O	X	-	X	-	X	X	X	-	-	
VH Song Track Mute	X	X	-	X	-	X	X	O	Mic	Mic	
VH Song Track	X	X	-	X	-	X	X	O	Mic	Mic	
VH Keyboard	X	X	-	O	Mic. Setting	X	X	O	Mic	Mic	
VH Balance	X	X	-	X	-	X	X	O	Mic	Mic	
VH Mode	X	X	-	X	-	X	X	O	Mic	Mic	
VH Chord Detect	X	X	-	X	-	X	X	O	Mic	Mic	
Mute	X	X	-	X	-	X	X	X	-	-	
MicVol	→ BalancePoup>MicVolume										
TalkSetting											
Volume	O	X	-	X	-	X	X	X	-	-	
Pan	O	X	-	X	-	X	X	X	-	-	
ReverbDepth	O	X	-	X	-	X	X	X	-	-	
ChorusDepth	O	X	-	X	-	X	X	X	-	-	
TotalVolumeAttenuator	O	X	-	X	-	X	X	X	-	-	
DSPOnOff	O	X	-	X	-	X	X	X	-	-	
DSPDepth	O	X	-	X	-	X	X	X	-	-	
DSPType	O	X	-	X	-	X	X	X	-	-	
DigitalStudio>SoundCreator											
Voice(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Voice(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Volume for Balance(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Volume for Balance(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Touch Sens(Main_Layer)	X	O	Voice	X	Keyboard Voice	X	O	O	Voice	-	
Touch Sens(Left)	X	O	Voice	X	Keyboard Voice	X	O	O	Style	-	
Octave for Left	X	O	Voice	X	-	X	X	X	-	-	
Octave for Main/Layer	X	O	Voice	X	-	X	X	X	-	-	
Mono/Poly	→ Voice Effect										
Portament Time	→ DigitalStudio>Mixing Console										
Left Pedal											
Left Pedal Type	→ Controller-Pedal										
Left Pedal Settings	→ Controller-Pedal										
Filter Brightness	→ DigitalStudio>Mixing Console										
Filter Resonance	→ DigitalStudio>Mixing Console										
EG Attack(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Attack(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EG Decay(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Decay(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EG Release(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Release(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Depth(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Depth(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Speed(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Speed(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Delay(Main_Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Delay(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Reverb Depth	→ DigitalStudio>Mixing Console										
Chorus Depth	→ DigitalStudio>Mixing Console										
DSP On/Off	→ Voice Effect										
DSP Depth	→ DigitalStudio>Mixing Console										
DSP Type(Main_Layer)	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Type(Left)	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
LastSelectedDSP	X	X	-	X	-	X	X	X	-	-	Memorized only when Sound Creator opened
DSP Variation	→ Voice Effect										
DSP Fast Value(Main_Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
DSP Fast Value(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
EQ Low Freq(Main_Layer)	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ Low Freq(Left)	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
EQ Low Gain	→ DigitalStudio>Mixing Console										
EQ High Freq(Main_Layer)	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ High Freq(Left)	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
EQ High Gain	→ DigitalStudio>Mixing Console										
Harmony/Echo											
Type	→ Harmony/Echoe										
Volume											
Speed	→ Harmony/Echoe										
Assign	→ Harmony/Echoe										
ChordNoteOnly	→ Harmony/Echoe										
TouchLimit	→ Harmony/Echoe										

Parameter	System Setup	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Natural Voice Reverb Type(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice Reverb Type(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice Chorus Type(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice Chorus Type(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice DSP Type(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice DSP Type(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice Brilliance Type(Main,Layer)	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice Brilliance Type(Left)	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice VibeSustain	O	X	-	X	-	X	X	X	-	-	
Natural Voice VibeRotorSpeed(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice VibeRotorSpeed(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice Piano SR Depth	O	X	-	X	-	X	X	X	-	-	
Natural Voice Piano SS Depth	O	X	-	X	-	X	X	X	-	-	
Piano Tuning Curve	O	X	-	X	-	X	X	X	-	-	
Organ Flutes Footage(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Footage(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ FlutesType(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ FlutesType(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Vib On/Off(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib On/Off(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Attack Footage(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack Footage(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Attack Mode(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack Mode(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Attack length(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack length(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Response(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Response(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Volume(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Volume(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
DigitalStudio>Mixing Console											
Auto Revoice											
On/Off	O	X	-	X	-	X	X	X	-	-	
Setup	O	X	-	X	-	X	X	X	-	-	
Volume											
Style Part	X	X	-	O	-	O	X	O	Style	-	
Song Part	X	X	-	O	Volume	X	X	X	-	-	
Main,Layer	→	MainWindow>BalancePopup>MainVolume/LayerVolume									
Left	→	MainWindow>BalancePopup>LeftVolume									
Acmp(Offset)	→	MainWindow>BalancePopup>StyleVolume									
Song(Offset)	→	MainWindow>BalancePopup>SongVolume									
Mic	→	MainWindow>BalancePopup>MicVolume									
Voice											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Voice	X	X	X	-	-	
PanPot											
Acmp Part	X	X	-	O	-	O	X	O	Style	-	
Song Part	X	X	-	O	Pan	X	X	X	-	-	
Main,Layer	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
Brightness											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Filter	X	X	X	-	-	
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Harmonic Contents											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Filter	X	X	X	-	-	
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Octave											
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Tune											
Main,Layer	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Portament Time											
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Pitch Bend Range											
Main,Layer	X	X	Voice	X	-	X	X	O	Voice	-	
Left	X	X	Voice	X	-	X	X	O	Style	-	
Transpose											
Master	X	X	-	X	-	X	X	O	Tune Trans	-	
Song	X	X	-	X	-	X	X	O	Tune Trans	-	
Keyboard	X	X	-	X	-	X	X	O	Tune Trans	-	
Reverb Type	X	X	-	X	-	O	X	O	Style/Song	Reverb Type	
Reverb Return Level	X	X	-	X	-	X	X	O	Style/Song	Reverb Return Level	
Natural Voice Reverb Type	X	O	Effect	X	-	O	X	O	Voice/Style/Song		
Reverb Depth											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Effect	X	X	X	-	-	
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	O	-	X	X	X	-	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
Chorus Type	X	X	-	X	-	O	X	O	Style/Song	-	
Chorus Return Level	X	X	-	X	-	X	X	O	Style/Song	Chorus Return Level	
Natural Voice Chorus Type	X	O	Effect	X	-	O	X	O	Voice/Style/Song		

Parameter	System SetUp	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Chorus Depth											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Effect	X	X	X	-	-	
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
DSP1 Type	X	X	-	X	-	O	X	O	Style/Song	-	
DSP1 Return Level	X	X	-	X	-	X	X	O	Style/Song	DSP1 Return Level	
Natural Voice DSP Type	X	O	Effect	X	-	O	X	O	Voice/Style/Song	-	
DSP Depth											
Style Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Effect	X	X	X	-	-	
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
DSP Type											
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Song	X	X	-	O	-	X	X	O	Song	-	
Effect Parameter	X	X	-	X	-	X	X	X	-	-	
MasterEQ Type	O	X	-	X	-	X	X	X	-	Master EQ	
MasterEQ Parameter	X	X	-	X	-	X	X	X	-	Master EQ	
EQ Low Gain											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Filter	X	X	X	-	-	
Main,Layer	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	
EQ High Gain											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Filter	X	X	X	-	-	
Main,Layer	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	

MIDI Data Format

MIDI-Datenformat

Format des données MIDI

Formato de datos MIDI

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter "H" as a suffix. Also, "n" can freely be defined as any whole number. To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary
0	00	0000 0000	32	20	0010 0000	64	40	0100 0000	96	60	0110 0000
1	01	0000 0001	33	21	0010 0001	65	41	0100 0001	97	61	0110 0001
2	02	0000 0010	34	22	0010 0010	66	42	0100 0010	98	62	0110 0010
3	03	0000 0011	35	23	0010 0011	67	43	0100 0011	99	63	0110 0011
4	04	0000 0100	36	24	0010 0100	68	44	0100 0100	100	64	0110 0100
5	05	0000 0101	37	25	0010 0101	69	45	0100 0101	101	65	0110 0101
6	06	0000 0110	38	26	0010 0110	70	46	0100 0110	102	66	0110 0110
7	07	0000 0111	39	27	0010 0111	71	47	0100 0111	103	67	0110 0111
8	08	0000 1000	40	28	0010 1000	72	48	0100 1000	104	68	0110 1000
9	09	0000 1001	41	29	0010 1001	73	49	0100 1001	105	69	0110 1001
10	0A	0000 1010	42	2A	0010 1010	74	4A	0100 1010	106	6A	0110 1010
11	0B	0000 1011	43	2B	0010 1011	75	4B	0100 1011	107	6B	0110 1011
12	0C	0000 1100	44	2C	0010 1100	76	4C	0100 1100	108	6C	0110 1100
13	0D	0000 1101	45	2D	0010 1101	77	4D	0100 1101	109	6D	0110 1101
14	0E	0000 1110	46	2E	0010 1110	78	4E	0100 1110	110	6E	0110 1110
15	0F	0000 1111	47	2F	0010 1111	79	4F	0100 1111	111	6F	0110 1111
16	10	0001 0000	48	30	0011 0000	80	50	0101 0000	112	70	0111 0000
17	11	0001 0001	49	31	0011 0001	81	51	0101 0001	113	71	0111 0001
18	12	0001 0010	50	32	0011 0010	82	52	0101 0010	114	72	0111 0010
19	13	0001 0011	51	33	0011 0011	83	53	0101 0011	115	73	0111 0011
20	14	0001 0100	52	34	0011 0100	84	54	0101 0100	116	74	0111 0100
21	15	0001 0101	53	35	0011 0101	85	55	0101 0101	117	75	0111 0101
22	16	0001 0110	54	36	0011 0110	86	56	0101 0110	118	76	0111 0110
23	17	0001 0111	55	37	0011 0111	87	57	0101 0111	119	77	0111 0111
24	18	0001 1000	56	38	0011 1000	88	58	0101 1000	120	78	0111 1000
25	19	0001 1001	57	39	0011 1001	89	59	0101 1001	121	79	0111 1001
26	1A	0001 1010	58	3A	0011 1010	90	5A	0101 1010	122	7A	0111 1010
27	1B	0001 1011	59	3B	0011 1011	91	5B	0101 1011	123	7B	0111 1011
28	1C	0001 1100	60	3C	0011 1100	92	5C	0101 1100	124	7C	0111 1100
29	1D	0001 1101	61	3D	0011 1101	93	5D	0101 1101	125	7D	0111 1101
30	1E	0001 1110	62	3E	0011 1110	94	5E	0101 1110	126	7E	0111 1110
31	1F	0001 1111	63	3F	0011 1111	95	5F	0101 1111	127	7F	0111 1111

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

MIDI CHANNEL MESSAGE (1)

O: available

MIDI Events	Status byte		1st Data byte		2nd Data byte		Corresponding Voice/Part			MIDI Reception (respond/ignore)					MIDI Transmission (generated data)							
	Status		Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI			
Key Off	8nH	(n:Channel Number)	kk	Key no. (0-127)	vv	Velocity (0-127)	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O	O	X	X	X	O	X			
Key On	9nH	(n:Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O	O	O	O	O	O	X			
Control Change	BnH	(n:Channel Number)	0 (00H)	Bank Select MSB	0 (00H) 64 (40H) 126 (7EH) 127 (7FH)	Normal SFX voice SFX kit Drum kit	O	X	O	O	O	O (Main)	O	O	O	O	X	O	O	X		
			1 (01H)	Modulation	0-127 (00H...7FH)	Data	O	X	X	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	O	O	X	
			5 (05H)	Portamento Time	0-127 (00H...7FH)	Data	O	X	X	O	O	O	O (Main/Layer/Left)	X	O	O	O	X	X	O	X	
			6 (06H)	Data Entry MSB	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	X	O	O	X	
			7 (07H)	Main Volume	0-127 (00H...7FH)	Data	O	X	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	X	O	O	X	
			10 (0AH)	Panpot	0-127 (00H...7FH)	L64...C...R63	O	X	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			11 (0BH)	Expression	0-127 (00H...7FH)	Data	O	X	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	O	O	O	X
			32 (20H)	Bank Select LSB	0-127 (00H...7FH)	Data	O	X	O	O	O	O	O (Main)	O	O	O	O	O	X	O	O	X
			38 (26H)	Data Entry LSB	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O (Main/Layer/Left)	X	O	O	O	X	X	O	X	
			64 (40H)	Sustain (Damper)	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O (Main/Layer/Left)	O	X	O	O	O	O	X	O	X
			65 (41H)	Portamento	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	X	O	O	O	O (Main/Layer/Left)	X	O	O	O	O	X	O	X	O
			66 (42H)	Sostenuto	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O	O	O (Main/Layer/Left)	X	O	O	O	O	O	X	O	X
			67 (43H)	Soft Pedal	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O	O	O (Main/Layer/Left)	X	O	O	O	O	O	X	O	X
			71 (47H)	Harmonic Content	0-127 (00H...7FH)	-64...0...+63	O	X	X	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			72 (48H)	Release Time	0-127 (00H...7FH)	-64...0...+63	O	X	X	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			73 (49H)	Attack Time	0-127 (00H...7FH)	-64...0...+63	O	X	X	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			74 (4AH)	Brightness	0-127 (00H...7FH)	-64...0...+63	O	X	X	O	O	O	O (Main/Layer/Left)	X	O	O	O	O	X	O	O	X
			84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	O	X	X	O	O	O	X	O	O	O	O	O	X	X	O	X
			91 (5BH)	Effect1 Depth (Reverb Send Level)	0-127 (00H...7FH)	Data	O	X	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			93 (5DH)	Effect3 Depth (Chorus Send Level)	0-127 (00H...7FH)	Data	O	X	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	O	X	X	O	O	O	O (Main/Layer/Left)	O	O	O	O	O	X	O	O	X
			96 (60H)	RPN Increment	- -	*1	O	O (Harmony Channel/Melody Channel)	O	O	O	O	X	O	O	O	X	X	X	O	X	
			97 (61H)	RPN Decrement	- -	*1	O	O (Harmony Channel/Melody Channel)	O	O	O	O	X	O	O	O	X	X	X	O	X	
			98 (62H)	NRPN LSB	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	X	O	O	O	X	O	O	O	O	X	O	O	X	
99 (63H)	NRPN MSB	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	X	O	O	O	X	O	O	O	O	X	O	O	X				
100 (64H)	RPN LSB	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	X	O	O	X				
101 (65H)	RPN MSB	0-127 (00H...7FH)	Data	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O (Main/Layer/Left)	O	O	O	O	X	O	O	X				
Mode Message	BnH	(n:Channel Number)	120 (78H)	All Sound Off	0 (00H)	Data	O	X	O	O	O (Main/Layer/Left)	O	O	O	X	X	X	O	X			
			121 (79H)	Reset All Controllers	0 (00H)	Data	O	X	O	O	X	X	X	X	X	X	X	X	O	X		
			123 (7BH)	All Note Off	0 (00H)	Data	O	O (Harmony Channel/Melody Channel)	O	O	O	O (Main/Layer/Left)	O	O	O	X	X	X	O	X		
			124 (7CH)	Omni Off	0 (00H)	Data	O	X	X	O	X	X	X	X	X	X	X	X	X	O	X	
			125 (7DH)	Omni On	0 (00H)	Data	O	X	X	O	X	X	X	X	X	X	X	X	X	O	X	
			126 (7EH)	Mono	0-16 (00H...10H)	Data	O	X	X	O	X	X	X	X	X	X	X	X	X	O	X	
127 (7FH)	Poly	0 (00H)	Data	O	X	X	O	X	X	X	X	X	X	X	X	X	O	X				

MIDI Events	Status byte		1st Data byte		2nd Data byte		Corresponding Voice/Part			MIDI Reception (respond/ignore)				MIDI Transmission (generated data)					
	Status		Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI
Program Change	CnH	(n:Channel Number)	pp (00H...7FH)	Voice Number (0-127)	-	-	O	X	O	O	O	O	O	O	O (Voice)	X	O	O	X
Channel After Touch	DnH	(n:Channel Number)	wv (00H...7FH)	Data	-	-	O	X	X	O	O	O	X	O	X	X	X	O	X
Polyphonic After Touch	AnH	(n:Channel Number)	kk (00H...7FH)	Key no. (0-127)	vv (00H...7FH)	Data	X	X	X	X	X	X	X	X	X	X	X	O	X
Pitch Bend Change	EnH	(n:Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	O	O (Harmony Channel/Melody Channel)	O	O	O	O	O	O	O (Pedal)	O	O	O	X
Realtime Message	F8H	MIDI Clock	-	-	-	-	-	-	-	O (*2)					O (*3)				
	FAH	Start	-	-	-	-	-	-	-	O (*2)					O (*4)				
	FBH	Continue	-	-	-	-	-	-	-	X					X				
	FCH	Stop	-	-	-	-	-	-	-	O (*2)					O (*4)				
	FEH	Active Sens	-	-	-	-	-	-	-	O					O				
	FFH	System Reset	-	-	-	-	-	-	-	X					X				

*1 The data byte is ignored.

*2 Received when the Clock is set to External.

*3 Transmitted when the Clock is set to Internal and Transmit Clock is set to on.

*4 Transmitted when the Transmit Clock is set to on.

About Mic/Vocal Harmony column:

The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Parameter.

MIDI CHANNEL MESSAGE (2)

NRPN

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

*1 2Band Part EQ

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

NRPN (Vocal Harmony)

NRPN		Data Entry		Parameter	Data Range	Corresponding Voice/Part			MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
MSB	LSB	MSB	LSB			Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI
00H	00H	mmH	--	Harmony Mute	0-63, 64-127 (Off, On)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	O	X	
01H	1AH	mmH	--	Detune Modulation	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	O	X	
02H	10H	mmH	--	Harmony1 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	11H	mmH	--	Harmony2 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	12H	mmH	--	Harmony3 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	20H	mmH	--	Harmony1 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	21H	mmH	--	Harmony2 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal HarmonyType Edit)	X	X	O	X	
02H	22H	mmH	--	Harmony3 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	30H	mmH	--	Harmony1 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	31H	mmH	--	Harmony2 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	
02H	32H	mmH	--	Harmony3 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	O (Vocal Harmony Type Edit)	X	X	O	X	

Data Entry LSB: Ignored.

RPN

NRPN		Data Entry		Parameter	Data Range	Corresponding Voice/Part			MIDI Reception (respond/ignore)					MIDI Transmission (generated data)						
MSB	LSB	MSB	LSB			Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI		
00H	00H	mmH	--	Pitch Bend Sensitivity	mm: 00H-18H (0...+24[semitones])	O	O (Harmony Channel/ Melody Channel)	O	O	O	O	O	O (Main/ Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
00H	01H	mmH	llH	Fine Tune	mm ll : 00H 00H -100[cent] ... mm ll : 40H 00H 0[cent] ... mm ll : 7FH 7FH 100[cent]	O	X	O	O	O	O	O (Main/ Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X	
00H	02H	mmH	--	Coarse Tune	mm: 28H-40H-58H (- 24...0...+24[semitones])	O	X	O	O	O	O	O (Main/ Layer/ Left)	O	O	X	X	O	O	X	
7FH	7FH	--	--	Null	-	O	O	O	O	O	O	O (Main/ Layer/ Left)	O	O	X	X	O	O	X	

About Mic/Vocal Harmony column:
The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Parameter.

MIDI PARAMETER CHANGE TABLE

* Not Received when Receive System Exclusive Message Parameters is set to off.
 * Not transmitted when Transmit System Exclusive Message Parameters is set to on.

MIDI Parameter Change table (XG SYSTEM)

O: available

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)				
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI	
00 00 00	4	00-0F	MASTER TUNE	-102.4...0...+102.3[cent]	*Panel setting value	O	X	O	O						O (Function)	X	O	X
		01 02 03		1st bit 3-0 →bit 15-12 2nd bit 3-0 →bit 11-8 3rd bit 3-0 →bit 7-4 4th bit 3-0 →bit 3-0														
	04 1	00-7F	MASTER VOLUME	0...127	7F	O	X	O	O	X	X	X	X	X	X	X	O	X
	05 1	00-7F	MASTER ATTENUATOR	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X	X
	06 1	28-58	TRANSPOSE	-24...0...+24[semitones]	40	O	X	O	O	X	X	X	X	X	X	X	O	X
	7D 1	N	DRUM SETUP RESET	N: Drum setup number	-	O (Drum only)	X	X	O	X	X	X	X	X	X	X	O	X
	7E 1	00	XG SYSTEM ON	00=XG system ON	-	O	X	O	O	X	X	X	O	X	X	O	X	
	7F 1	00	ALL PARAMETER RESET	00=ON	-	O	X	O	O	X	X	X	O	X	X	O	X	

TOTAL SIZE 07

MIDI Parameter Change table (SYSTEM INFORMATION)

Address (H)	Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)				
					Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI	
01 00 00	E	20-7F	Model Name 1	32...127(ASCII CHARACTER)	-	-	-	-	-	-	-	-	-	X	X	X	O
		0D 0E 0F	Model Name 14 NOT USED	32...127(ASCII CHARACTER) NOT USED													

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
02 01 00	2	00-7F	REVERB TYPE MSB	Refer to Effect Parameter List	01(=HALL1)	O	O	X	O					O (Mixing Console)	O	O	X
		00-7F	REVERB TYPE LSB	~	00												
	02 1	00-7F	REVERB PARAMETER 1	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console)	O	O	X
	03 1	00-7F	REVERB PARAMETER 2	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	04 1	00-7F	REVERB PARAMETER 3	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	05 1	00-7F	REVERB PARAMETER 4	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	06 1	00-7F	REVERB PARAMETER 5	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	07 1	00-7F	REVERB PARAMETER 6	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	08 1	00-7F	REVERB PARAMETER 7	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	09 1	00-7F	REVERB PARAMETER 8	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	0A 1	00-7F	REVERB PARAMETER 9	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	0B 1	00-7F	REVERB PARAMETER 10	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
	0C 1	00-7F	REVERB RETURN	~dB...0dB...+6dB (0...96...127)	40	O	O	X	O					O (Mixing Console)	O	O	X
	0D 1	01-7F	REVERB PAN	L63...C...R63	40	O	O	X	O					X	O	O	X

TOTAL SIZE 0E

	02 01 10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
		11 1	00-7F	REVERB PARAMETER 12	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
		12 1	00-7F	REVERB PARAMETER 13	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
		13 1	00-7F	REVERB PARAMETER 14	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
		14 1	00-7F	REVERB PARAMETER 15	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X
		15 1	00-7F	REVERB PARAMETER 16	~	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)					O (Mixing Console *Depends on Reverb Type)	O	O	X

TOTAL SIZE 06

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)					
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI		
	5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16(0...15) Transmission: Part1...16(0...15) AD(64) OFF(127)	7F	O	O	X			O				O (Mixing Console)	O	O	X
	5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	O	O	X			O				X	O	O	X
	5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	O	O	X			O				X	O	O	X
	5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	O	O	X			O				X	O	O	X
	5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	X	X	X			X				X	X	X	X
	60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	X	X	X			X				X	X	X	X

TOTAL SIZE 21

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

TOTAL SIZE 06

MIDI Parameter Change table (MULTI EQ)

Address (H)	Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)					
					Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI		
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic	O	O	X			O			X	X	O	X
		01	1	34-4C	EQ GAIN1	-12...0...+12[dB]	O	O	X			O			O (Mixing Console)	X	O	X
		02	1	04-28	EQ FREQUENCY1	32...2.0k[Hz]	O	O	X			O			O (Mixing Console)	X	O	X
		03	1	01-78	EQ Q1	0.1...12.0	O	O	X			O			O (Mixing Console)	X	O	X
		04	1	00-01	EQ SHAPE1	shelving, peaking	O	O	X			O			X	X	O	X
		05	1	34-4C	EQ GAIN2	-12...0...+12[dB]	O	O	X			O			O (Mixing Console)	X	O	X
		06	1	0E-36	EQ FREQUENCY2	100...10.0k[Hz]	O	O	X			O			O (Mixing Console)	X	O	X
		07	1	01-78	EQ Q2	0.1...12.0	O	O	X			O			O (Mixing Console)	X	O	X
		08	1		NOT USED		-	-	-			-			-	-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12[dB]	O	O	X			O			O (Mixing Console)	X	O	X
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k[Hz]	O	O	X			O			O (Mixing Console)	X	O	X
		0B	1	01-78	EQ Q3	0.1...12.0	O	O	X			O			O (Mixing Console)	X	O	X
		0C	1		NOT USED		-	-	-			-			-	-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12[dB]	O	O	X			O			O (Mixing Console)	X	O	X
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k[Hz]	O	O	X			O			O (Mixing Console)	X	O	X
		0F	1	01-78	EQ Q4	0.1...12.0	O	O	X			O			O (Mixing Console)	X	O	X
		10	1		NOT USED		-	-	-			-			-	-	-	-
		11	1	34-4C	EQ GAIN5	-12...0...+12[dB]	O	O	X			O			O (Mixing Console)	X	O	X
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k[Hz]	O	O	X			O			O (Mixing Console)	X	O	X
		13	1	01-78	EQ Q5	0.1...12.0	O	O	X			O			O (Mixing Console)	X	O	X
		14	1	00-01	EQ SHAPE5	shelving, peaking	O	O	X			O			X	X	O	X

TOTAL SIZE 5

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

MIDI Parameter Change table (EFFECT2)

Address (H)	Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)					
					Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI		
03	n	00	2	00-7F	INSERTION EFFECT TYPE MSB	Refer to Effect Parameter List	O	O	X			O			O (Mixing Console)	X	O	X
				00-7F	INSERTION EFFECT TYPE LSB	~												
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	~	O	O	X			O (*Depends on Insertion Type)			O (Mixing Console *Depends on Insertion Type)	X	O	X

Address (H)	Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)					
					Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI		
	0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16(0...15) Transmission: Part1...16(0...15) AD(64) OFF(127)	O	O	X			O				O (Mixing Console)	X	O	X
	0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63	O	O	X			O				X	X	O	X
	0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63	O	O	X			O				X	X	O	X
	0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63	O	O	X			O				X	X	O	X
	10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63	X	X	X			X				X	X	X	X
	11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63	X	X	X			X				X	X	X	X

TOTAL SIZE 12

	20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
	21	1	00-7F	INSERTION EFFECT PARAMETER 12	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
	22	1	00-7F	INSERTION EFFECT PARAMETER 13	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
	23	1	00-7F	INSERTION EFFECT PARAMETER 14	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
	24	1	00-7F	INSERTION EFFECT PARAMETER 15	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
	25	1	00-7F	INSERTION EFFECT PARAMETER 16	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X

TOTAL SIZE 6

	30	2	00-7F	INSERTION EFFECT PARAMETER 1 MSB	Refer to Effect Parameter List	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 1 LSB	-												
	32	2	00-7F	INSERTION EFFECT PARAMETER 2 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 2 LSB	-												
	34	2	00-7F	INSERTION EFFECT PARAMETER 3 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 3 LSB	-												
	36	2	00-7F	INSERTION EFFECT PARAMETER 4 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 4 LSB	-												
	38	2	00-7F	INSERTION EFFECT PARAMETER 5 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 5 LSB	-												
	3A	2	00-7F	INSERTION EFFECT PARAMETER 6 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 6 LSB	-												
	3C	2	00-7F	INSERTION EFFECT PARAMETER 7 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 7 LSB	-												
	3E	2	00-7F	INSERTION EFFECT PARAMETER 8 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 8 LSB	-												
	40	2	00-7F	INSERTION EFFECT PARAMETER 9 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 9 LSB	-												
	42	2	00-7F	INSERTION EFFECT PARAMETER 10 MSB	-	O	O	X	O (*Depends on Insertion Type)					O (Mixing Console *Depends on Insertion Type)	X	O	X
			00-7F	INSERTION EFFECT PARAMETER 10 LSB	-												

TOTAL SIZE 14

The EFFECT 2 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.
0-4: 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 (SPECIAL EFFECT)

Address (H)	Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)					
					Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI		
04	00	00	2	00-7F	INSERTION EFFECT TYPE MSB	Vocoder(89), Chordal(90), Detune(91), Chromatic(92), Thru(0...88, 93...127)	X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
				00-7F	INSERTION EFFECT TYPE LSB													
	02	1	00-7F	INSERTION EFFECT PARAMETER 1 Harmony Mode			X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	03	1	00-7F	INSERTION EFFECT PARAMETER 2 Harmony Gender Type	Off(0), Auto(1)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	04	1	00-7F	INSERTION EFFECT PARAMETER 3 Lead Gender Type	Off(0), Unison(1), Male(2), Female(3)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	05	1	00-7F	INSERTION EFFECT PARAMETER 4 Lead Gender Depth	-64...0...+63(0...127)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	06	1	00-7F	INSERTION EFFECT PARAMETER 5 Lead Pitch Correction	Free(0), Correct(1)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	07	1	00-7F	INSERTION EFFECT PARAMETER 6 Auto Upper Gender Threshold	0...12(0...12)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	08	1	00-7F	INSERTION EFFECT PARAMETER 7 Auto Lower Gender Threshold	0...12(0...12)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	09	1	00-7F	INSERTION EFFECT PARAMETER 8 Upper Gender Depth	-64...0...+63(0...127)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	0A	1	00-7F	INSERTION EFFECT PARAMETER 9 Lower Gender Depth	-64...0...+63(0...127)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	0B	1	00-7F	INSERTION EFFECT PARAMETER 10	L63-H...L=H...L<H63 (1...64...127)		X	O	X	X	X	X	X	X	O (MicSetting)	X	O	X
	0C	1	00-7F	INSERTION EFFECT PART NUMBER	AD(64), OFF(0...63, 65...127)		X	O	X	X	X	X	X	X	O (Vocal Harmony Sw)	X	O	X
	0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		X	X	X	X	X	X	X	X	X	X	X	X
	0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		X	X	X	X	X	X	X	X	X	X	X	X
	0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		X	X	X	X	X	X	X	X	X	X	X	X
	10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		X	X	X	X	X	X	X	X	X	X	X	X
	11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		X	X	X	X	X	X	X	X	X	X	X	X
TOTAL SIZE		12																

	14	1	00-7F	UNIQUE INSERTION EFFECT EXTERNAL CONTROL CH1 (HARMONY CHANNEL)	1...16(0...15), OFF(127)		X	O	X	X	X	X	X	X	O (MicSetting)	X	O	X
	15	1	00-7F	UNIQUE INSERTION EFFECT EXTERNAL CONTROL CH1 (MELODY CHANNEL)	1...16(0...15), OFF(127)		X	O	X	X	X	X	X	X	X	X	O	X
TOTAL SIZE		2																

	20	1	00-7F	INSERTION EFFECT PARAMETER 11 Vibrate Depth	0...100cent(0...127)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	21	1	00-7F	INSERTION EFFECT PARAMETER 12 Vibrate Rate	0Hz(0), 0.1...12.7Hz(1...127)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	22	1	00-7F	INSERTION EFFECT PARAMETER 13 Vibrate Delay	0...2.54sec(0...127)		X	O	X	X	X	X	X	X	O (VH Type Select)	X	O	X
	23	1	00-7F	INSERTION EFFECT PARAMETER 14			X	X	X	X	X	X	X	X	X	X	X	X
	24	1	00-7F	INSERTION EFFECT PARAMETER 15			X	X	X	X	X	X	X	X	X	X	X	X
	25	1	00-7F	INSERTION EFFECT PARAMETER 16			X	X	X	X	X	X	X	X	X	X	X	X
TOTAL SIZE		6																

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

MIDI Parameter Change table (MULTI PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)					
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI		
08	nn	00	1	00-20	ELEMENT RESERVE	0...32	part10=00, other parts=02	O	X	X	O	X	X	X	X	X	X	O	X
	01	1	00-7F	BANK SELECT MSB	0...127	part10=7F, other parts=00	O	X	O	O	O	X	O	O	X	X	O	X	
	02	1	00-7F	BANK SELECT LSB	0...127	00	O	X	O	O	O	X	O	O	X	X	O	X	
	03	1	00-7F	PROGRAM NUMBER	0...127	00	O	X	O	O	O	X	O	O	X	X	O	X	
	04	1	00-0F, 7F	RCV CHANNEL	1...16, OFF	Part No.	O	X	X	O	X	X	X	X	X	X	X	O	X
	05	1	00-01	MONO/POLY MODE	MONO, POLY	01	O	X	X	O	X	X	X	X	X	X	X	O	X
	06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	O	X	X	O	X	X	O	X	X	X	X	O	X
	07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part10=02, other parts=00	O	X	O	O	X	X	X	X	O (Drum Voice)	X	O	X	
	08	1	00-7F	CHANNEL TRANSPOSE	-24...0...+24[semitones]	40	O	X	O	O	O	X	O	O	X	X	O	X	
	09	2	00-0F	00-0F	DETUNE	08 00	O	X	O	O	O	X	O	O	X	X	O	X	
	0B	1	00-7F	VOLUME	0...127	64	O	X	O	O	O	X	O	O	X	X	O	X	
	0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	O	X	O	O	O	X	X	O	O (Sound Creator)	X	O	X	
	0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	O	X	O	O	O	X	X	O	O (Sound Creator)	X	O	X	
	0E	1	00-7F	PAN	RND, L63...C...R63	40	O	X	O	O	O	X	O	O	X	X	O	X	
	0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	O	X	X	O	X	X	X	X	X	X	O	X	
	10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	O	X	X	O	X	X	X	X	X	X	O	X	
	11	1	00-7F	DRY LEVEL	0...127	7F	O	X	X	O	O	X	O	O	O (Sound Creator)	X	O	X	
	12	1	00-7F	CHORUS SEND	0...127	00	O	X	O	O	O	X	O	O	X	X	O	X	

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)				
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI	
	13	1	00-7F	REVERB SEND	0...127	28	0	X	0	0	0	X	0	0	X	X	0	X
	14	1	00-7F	VARIATION SEND	0...127	00	0	X	X	0	0	X	0	0	X	X	0	X
	15	1	00-7F	VIBRATO RATE	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	0	X	X	0	0	X	0	0	X	X	0	X
	1D	1	28-58	MW PITCH CONTROL	-24...0...+24[semitones]	40	0	X	X	0	0	X	0	0	X	X	0	X
	1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	X	X	0	0	X	0	0	X	X	0	X
	1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100[%]	40	0	X	X	0	0	X	0	0	X	X	0	X
	20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	0	X	X	0	0	X	0	0	X	X	0	X
	21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	0	X	X	0	0	X	0	0	X	X	0	X
	22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	0	X	X	0	0	X	0	0	X	X	0	X
	23	1	28-58	BEND PITCH CONTROL	-24...0...+24[semitones]	42	0	X	0	0	0	X	0	0	X	X	0	X
	24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	X	X	0	0	X	0	0	X	X	0	X
	25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100[%]	40	0	X	X	0	0	X	0	0	X	X	0	X
	26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	0	X	X	0	0	X	0	0	X	X	0	X
	27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	0	X	X	0	0	X	0	0	X	X	0	X
	28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	0	X	X	0	0	X	0	0	X	X	0	X

TOTAL SIZE 29

	30	1	00-01	Rcv PITCH BEND	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	0	X	0	0	X	X	X	X	X	X	0	X
	36	1	00-01	Rcv RPN	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	37	1	00-01	Rcv NRPN	OFF, ON	XG mode=01, GM mode=00	X	X	X	X	X	X	X	X	X	X	X	X
	38	1	00-01	Rcv MODULATION	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	39	1	00-01	Rcv VOLUME	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	3A	1	00-01	Rcv PAN	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	3C	1	00-01	Rcv HOLD1	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	40	1	00-01	Rcv BANK SELECT	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
	41	1	00-7F	SCALE TUNING C	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	42	1	00-7F	SCALE TUNING #	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	43	1	00-7F	SCALE TUNING D	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	44	1	00-7F	SCALE TUNING #	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	45	1	00-7F	SCALE TUNING E	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	46	1	00-7F	SCALE TUNING F	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	47	1	00-7F	SCALE TUNING #	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	48	1	00-7F	SCALE TUNING G	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	49	1	00-7F	SCALE TUNING G#	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	4A	1	00-7F	SCALE TUNING A	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	4B	1	00-7F	SCALE TUNING A#	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	4C	1	00-7F	SCALE TUNING B	-63...0...+63[cent]	40	0	X	0	0	0	X	0	0	O (Function)	X	0	X
	4D	1	28-58	CAT PITCH CONTROL	-24...0...+24[semitones]	40	0	X	X	0	0	X	X	0	X	X	0	X
	4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	X	X	0	0	X	X	0	X	X	0	X
	4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100[%]	40	0	X	X	0	0	X	X	0	X	X	0	X
	50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	0	X	X	0	0	X	X	0	X	X	0	X
	51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	0	X	X	0	0	X	X	0	X	X	0	X
	52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	0	X	X	0	0	X	X	0	X	X	0	X
	53	1	28-58	PAT PITCH CONTROL	-24...0...+24[semitones]	40	X	X	X	X	X	X	X	X	X	X	X	X
	54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	X	X	X	X	X	X	X	X	X	X	X	X
	55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100[%]	40	X	X	X	X	X	X	X	X	X	X	X	X
	56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	X	X	X	X	X	X	X	X	X	X	X	X
	5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	X	X	X	X	X	X	X	X	X	X	X	X
	5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	X	X	X	X	X	X	X	X	X	X	X	X
	5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	X	X	X	X	X	X	X	X	X	X	X	X
	5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	X	X	X	X	X	X	X	X	X	X	X	X
	61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	X	X	X	X	X	X	X	X	X	X	X	X
	62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	X	X	X	X	X	X	X	X	X	X	X	X
	63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	X	X	X	X	X	X	X	X	X	X	X	X
	64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
	67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	0	X	X	0	0	X	X	0	X	X	0	X
	68	1	00-7F	PORTAMENTO TIME	0...127	00	0	X	X	0	0	X	X	0	X	X	0	X

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)				
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI	
69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X	X
6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X	X
6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X	X
6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X	X
6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	X	X	X	X	X	X	X	X	X	X	X	X	X
6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	X	X	X	X	X	X	X	X	X	X	X	X	X

TOTAL SIZE 3F

70	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	O	X	X	O	O	X	O	O	O	O (Mixing Console)	O	O	X
73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	O	X	X	O	O	X	O	O	O	O (Mixing Console)	O	O	X

TOTAL SIZE 04

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

TOTAL SIZE 0C

nn = PART NUMBER

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

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

MIDI Parameter Change table (A/D PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)				
						Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI	
10	00	00	1	00-01	INPUT GAIN		X	X	X	X	X	X	X	X	X	X	X	X
		01	1	00-7F	BANK SELECT MSB	0...127	X	X	X	X	X	X	X	X	X	X	X	X
		02	1	00-7F	BANK SELECT LSB	0...127	X	X	X	X	X	X	X	X	X	X	X	X
		03	1	00-7F	PROGRAM NUMBER	0...127	X	X	X	X	X	X	X	X	X	X	X	X
		04	1	00-1F,7F	Rcv CHANNEL	1...16,OFF	X	O	X	X	X	X	X	X	X	X	O	X
		05	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		06	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		07	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		08	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		09	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0B	1	00-7F	VOLUME	0...127	X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		0C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0E	1	01-7F	PAN	L63...C...R63	X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		0F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		10	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		12	1	00-7F	CHORUS SEND		X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		13	1	00-7F	REVERB SEND		X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X

TOTAL SIZE 15

10	0n	30	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		31	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		34	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		35	1	00-01	MUTE	ON, OFF	X	X	X	X	X	X	X	X	X	X	X	X
		36	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		37	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		38	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		39	1	00-01	Rcv VOLUME	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		3A	1	00-01	Rcv PAN	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		3C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		3D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		3E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		3F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		40	1	00-01	Rcv BANK SELECT	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		41	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		42	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		43	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		44	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		45	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		46	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		47	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		48	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		49	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		50	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-

Address (H)	Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
					Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
51	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
52	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
53	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
54	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
55	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
56	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
57	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
58	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	X	X	X	X	X	X	X	X	X	X	X	X
5A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
5B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
5C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
5D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
5E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
5F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	X	X	X	X	X	X	X	X	X	X	X	X

TOTAL SIZE 31

The A/D PART Parameter cannot be reset to its factory setting with XG SYSTEM ON.

MIDI Parameter Change table (DRUM SETUP)

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

TOTAL SIZE 10

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

TOTAL SIZE 0E

n: Drum Setup Number (0-1)
rr: note number (0D-5B)

In the following cases, the CVP will initialize all Drum Setups.
XG SYSTEM ON received
GM SYSTEM ON received
DRUM SETUP RESET received (only when in XG mode)

[Note]
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

* Not received when the Receive System Exclusive Message is set to off.
 * Not transmitted when the Transmit System Exclusive Message is set to on.

System Exclusive Messages

O: available

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)				
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI	
Section Control	F0 43 7E 00 ss dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No. 00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D 0ddddd dd = Switch On/Off 00H (Off) 7HF (On) 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	-	O (Section LED)	O (Section Sw)	X	O	X
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	-	O (Tempo indication)	O (Tempo Sw)	X	O	X
Chord Control	F0 43 7E tt d1 d2 d3 d4 F7 Type 1 (tt=2) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddd d1 = chord root(cr) 0ddddd d2 = chord type(ct) 0ddddd d3 = bass note(bn) 0ddddd d4 = bass type(bt) 11110111 F7 = End of Exclusive cr: Chord Root Offnnnn ff: b or #, nnnn: note(root) 0000nnnn 0n bbb 0fff0000 x0 reserved 0001nnnn 1n bb 0fff0001 x1 C 0010nnnn 2n b 0fff0010 x2 D 0011nnnn 3n natural 0fff0011 x3 E 0100nnnn 4n # 0fff0100 x4 F 0101nnnn 5n ## 0fff0101 x5 G 0110nnnn 6n ### 0fff0110 x6 A 0fff0111 x7 B ct: Chord Type 0 - 34,127 00000000 00 0 Maj 00010010 12 18 dim7 00000001 01 1 Maj6 00010011 13 19 7th 00000010 02 2 Maj7 00010100 14 20 7sus4 00000011 03 3 Maj7 (#11) 00010101 15 21 7b5 00000100 04 4 Maj (9) 00010110 16 22 7 (9) 00000101 05 5 Maj7 (9) 00010111 17 23 7 (#11) 00000110 06 6 Maj6 (9) 00011000 18 24 7 (13) 00000111 07 7 aug 00011001 19 25 7 (b9) 00001000 08 8 min 00011010 1A 26 7 (b13) 00001001 09 9 min6 00011011 1B 27 7 (#9) 00001010 0A 10 min7 00011100 1C 28 Maj7aug 00001011 0B 11 min7b5 00011101 1D 29 7aug 00001100 0C 12 min (9) 00011110 1E 30 1+8 00001101 0D 13 min7 (9) 00011111 1F 31 1+5 00001110 0E 14 min7 (11) 00100000 20 32 sus4 00001111 0F 15 minMaj7 00100001 21 33 1+2+5 00010000 10 16 minMaj7 (9) 00100010 22 34 cc 00010001 11 17 dim bn : On Bass Chord Same as Chord root 127:No bass chord bt : Bass Chord Same as Chord type 127:No bass chord * Not received when Receive Chord System Exclusive Message is set to off. * Not transmitted when Transmit Chord System Exclusive Message is set to on.	-	-	-	-	-	-	-	-	-	O (Chord indication)	O (Keyboard)	X	O	X
	Type2 (tt=3) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddd dd = note1 0ddddd dd = note2 0ddddd dd = note3 : 0ddddd dd = ... note10 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	-	O (Chord indication)	X	X	X	X

System Exclusive Messages (Universal Realtime messages)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)				
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI	
Master Volume	F0 7F 7F 04 01 ll mm F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 01111111 7F = ID of target device 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 01111111 ll = Volume LSB 0mmmmmmmm mm= Volume MSB 11110111 F7 = End of Exclusive or F0 7F XN 04 01 ll mm F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 01111111 ll = Volume LSB 0mmmmmmmm mm= Volume MSB 11110111 F7 = End of Exclusive	O	-	O	O	X	X	X	X	X	X	X	X	X	X

System Exclusive Messages (Universal Non Realtime messages)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
General MIDI System On	F0 7E 7F 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 01111111 7F = ID of target device 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive or F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive	O	-	O	O	X	X	X	O	O (Mixing Console)	X	X	O	X

System Exclusive Messages (XG)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
XG Parameter Change	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddd dd = Data : 11110111 F7 = End of Exclusive	*Refer to Parameter Change Table			*Refer to Parameter Change Table					-	*Refer to Parameter Change Table			O (When receiving the XG Parameter Request)
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddd dd = Data : 0ddddd dd = Data 0ccccc cc = Checksum 11110111 F7 = End of Exclusive	*Refer to Parameter Change Table			*Refer to Parameter Change Table					-	X	X	X (Output as Parameter Change)	O (When receiving the XG Dump Request)
XG Parameter Request	F0 43 3n 4C hh ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (-)	X	X	X	X
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (-)	X	X	X	X

System Exclusive Messages (Clavinova compliance)

11110000	F0 = Exclusive status
01000011	43 = YAMAHA ID
01110011	73 = Clavinova ID
:	:
11110111	F7 = End of Exclusive

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular/Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
Internal Clock	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-	-	-	X	X	X	X	X	O (Function)	X	X	X	X
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-	-	X	X	X	X	X	O (Function)	X	X	X	X
Organ Flutes data Bulk Dump	F0 43 73 01 06 0B 00 01 06 0n [Bulk Data] sum F7 01H Model ID (Clavinova common ID) 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H, 00H, 01H, 06H Data Length :16bytes 1st Channel No. 0nH 2nd Footage [1'] 00 - 8H 8 : maximum 3rd [1 1/3'] 00 - 8H 4th [1 3/5'] 00 - 8H 5th [2'] 00 - 8H 6th [2 2/3'] 00 - 8H 7th [4'] 00 - 8H 8th [5 1/3'] 00 - 8H 9th [8'] 00 - 8H 10th [16'] 00 - 8H 11th [Attack 2'] 00 - 8H 12th [Attack 2 2/3'] 00 - 8H 13th [Attack 4'] 00 - 8H 14th Settings [Attack Length] 00 - 8H 15th [Response] 00 - 8H 16th [Attack Mode] 00 - 01H 00H: Each, 01H: First 17th [Wave Variation] 00 - 01H 00H: Sine, 01H: Tone Wheel 18th [Volume] 01 - 9H 9: maximum 19th [aux] 00H 20th [aux] 00H 21th [aux] 00H 22th [aux] 00H sum Check Sum = 0-sum(BULK DATA)	O (Organ Flute)	X	X	O	O	X	X	O	O (Sound Creator)	O (Sound Creator)	X	O	X
Natural Voice Reverb Type	F0 43 73 01 31 0n 00 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nmmn 0n = Channel No. (Always 00) 00000000 00 = Natural Voice Reverb Type Substatus 0ddddd dd = data (0:Room, 1:Hall1, 2:Hall2, 3:Stage, 4:Plate)	X	X	O					O	O (Sound Creator)	O (Sound Creator)	O	O	X
Natural Voice Chorus Type	F0 43 73 01 31 0n 01 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nmmn 0n = Channel No. (Always 00) 00000001 01 = Natural Voice Chorus Type Substatus 0ddddd dd = data (0:Chorus,1:Celeste, 2:Flanger)	X	X	O					O	O (Sound Creator)	O (Sound Creator)	O	O	X
Natural Voice Variation Type	F0 43 73 01 31 0n 02 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nmmn 0n = Channel No. (Always 00) 0000010 02 = Natural Voice Variation Type Substatus 0ddddd dd = data (00H:DelayLCR, 01H:DelayLR, 02H:Echo, 03H:CrossDelay, 04H:Symphonic, 05H:RotarySpeaker, 06H:Tremolo, 07H:VibeRotor, 08H:AutoPan, 09H:Phaser, 0AH:AutoWah, 0BH:SoundBoardRev, 0CH:Off)	X	X	O					O	O (Sound Creator)	O (Sound Creator)	O	O	X
Natural Voice Vibe Rotor Control	F0 43 73 01 31 0n 08 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nmmn 0n = Channel No. (Always 00) 00001000 08 = Natural Voice Vibe Rotor Control Substatus 0ddddd dd = data (00H:Off, 7FH:On)	X	X	O (If the Type is set to Vibe Rotor)					O	O (Sound Creator)	O (Sound Creator)	X	O	X
Natural Voice Variation Send Level	F0 43 73 01 50 11 0n 00 dd F7 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Common Model data 00010001 11 = Song Track related 0000nmmn 0n = Channel No. 00000000 00 = Natural Voice Variation Send Level Substatus 0ddddd dd = data (00H-7FH)	X	X	O	O	O	X	O	O	O (Mixing Console)	O (Mixing Console)	O	O	X
Natural Voice Dry Level	F0 43 73 01 50 11 0n 01 dd F7 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Common Model data 00010001 11 = Song Track related 0000nmmn 0n = Channel No. 00000001 01 = Natural Voice Dry Level Substatus 0ddddd dd = data (00H-7FH)	X	X	O	O	O	X	O	O	O (Mixing Console)	O (Mixing Console)	O	O	X

System Exclusive Messages Special Operators

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)				
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI	
Volume & Expression & Pan Realtime control off (Voice Reserve)	F0 43 73 01 11 0n 45 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. 01000101 45 = Volume & Expression Control No. Substatus 0ddddd dd = data (00H : Realtime On, 7FH : Realtime Off) 11110111 F7 = End of Exclusive	O	-	O	O	X	X	X	X	X	X	X	X	O	X
MIDI Key LED Mode On Off	F0 43 73 01 11 0n 47 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. 01000111 47 = MIDI Key LED Mode On Off Substatus 0ddddd dd = data 00H : Key LED Mode Off 01H : Key LED Mode On+no notes sound 02H : Key LED Mode On+notes sound 11110111 F7 = End of Exclusive When Key LED Mode is set to On, key note on messages via designated channel turns the LED on/off. 9n, note, Vel=0 : off 9n, note, Vel=1 : flush 9n, note, Vel=2- : on When selecting whether notes sound or not, you should turn off the Key LED Mode once.	-	-	-	-	-	-	-	-	O (Keyboard LED lights when receiving the note messages)	X	X	X	X	X

System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)				
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI	
Vocal Harmony Pitch to Note ON/OFF	F0 43 73 01 11 0n 50 00 ss F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000000 00 = Pitch to Note Parameter No. 0ddddd dd = data (00H : Off, 01H : On) 11110111 F7 = End of Exclusive	X	O	X	X	X	X	X	X	X	O (Vocal Harmony Edit)	O (Vocal Harmony Edit)	X	O	X
Vocal Harmony Pitch to Note Part	F0 43 73 01 11 00 50 01 ss F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000001 01 = Pitch to Note Part Parameter No. 0ddddd dd = data 00H : Main 01H : Layer 02H : Left 04H : Upper 11110111 F7 = End of Exclusive	X	O	X	X	X	X	X	X	X	O (Vocal Harmony Edit)	O (Vocal Harmony Edit)	X	O	X
Vocal Harmony Vocoder Part (Harmony Part (Panel))	F0 43 73 01 11 00 50 10 ss F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00010000 10 = Vocoder Part Parameter No. 0ddddd dd = data 00H : Off 01H : Upper 02H : Lower 11110111 F7 = End of Exclusive	X	O	X	X	X	X	X	X	X	O (Mic Setting)	O (Mic Setting)	X	O	X

System Exclusive Messages (Others)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)				
		Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI	
MIDI Master Tuning	F0 43 1n 27 30 00 00 mn ll cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = always 0 (when transmit), n=0-F (when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	O	X	O			O				O (Function)	X	X	X	X

Song System Exclusive Message List

Liste der System-Exclusive-Meldungen der Songs

Liste des messages exclusifs au système de morceaux

Lista de mensajes exclusivos del sistema de canciones

Data Format	Parameter	Description
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Guide

F0 43 73 01 1F 00 cc dd F7	Guide Mode	cc = Part Select No 00H: Right=ON, Left=ON 01H: Right=OFF, Left=ON 02H: Right=ON, Left=OFF 03H: Right=OFF, Left=OFF dd = Mode 00H: Guide OFF, 01H: Next Note, 02H: Any Key, 03H: Karao Key, 04H: Vocal CueTime
F0 43 73 01 21 00 00 mm F7	Guide Lamp Timing	00H=Next, 01H/02H=Just

Panel Setting

F0 43 73 01 22 00 0n mm ll pp F7	Panel Program Change	mm=Bank Select MSB, ll=Bank Select LSB, nn=Program Change
F0 43 73 01 22 01 0n vv F7	Panel Voice Volume	00H-07FH
F0 43 73 01 22 02 0n vv F7	Panel Voice Reverb Depth	00H-07FH
F0 43 73 01 22 03 0n vv F7	Panel Voice Effect Depth	00H-07FH

Score

F0 43 73 01 50 12 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 05 dd F7	Size designation	00H: SMALL, 01H: MIDDLE, 02H: LARGE, 03H: Xlarge
F0 43 73 01 50 12 06 dd F7	Left Ch	00H-0FH=CH, 7EH=OFF, 7FH=AUTO
F0 43 73 01 50 12 07 dd F7	Right Ch	00H-0FH=CH, 7EH=OFF, 7FH=AUTO
F0 43 73 01 50 12 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON
F0 43 73 01 50 12 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second
F0 43 73 01 50 12 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo
F0 43 73 01 50 12 0B dd F7	Color Note	00H: OFF, 7FH: ON

Style

F0 43 73 01 11 00 16 dd dd F7	Style No.	dd dd=StyleNo.
F0 43 73 01 51 05 00 00 08 Rhy1 Rhy2 Bass Chd1 Chd2 Pad Phr1 Phr2	Style Part On / Off	00H: OFF, 01H: ON
F0 43 73 01 51 00 00 03 10 00 dd F7	ACMP SPLIT POINT	00H-7FH

Song Meta Event List

Liste der Meta-Events der Songs

Liste des méta-événements des morceaux

Lista de meta-eventos de canciones

Data Format	Parameter	Description
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SMF META Event

FF 01 len [Data]	TEXT	len=Data length, [Data]=Text data
FF 02 len [Data]	Copyright	len=Data length, [Data]=Copyright data
FF 03 len [Data]	Sequence Name	len=Data length, [Data]=Sequence Name
FF 05 len [Data]	Lyrics	len=Data length, [Data]=Lyrics data
FF 2F 00	End Of Track	
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 = 01D4C0H-B71B00 (5-500)
FF 58 04 nn dd cc bb	Beat (Time signature)	nn =Denominator (2 ⁿ), dd=Numerator, CC=MIDI clock per metronome click, dd=Number of thirty-second notes in MIDI quarter note
FF 59 02 sf mi	Key Signature	sf=-7-7 (7 _b -7 _b) mi=0:Major key, 1:Minor key

YAMAHA META Event

FF 7F 06 43 73 0A 00 04 dd	Start Measure Number	00H:Start from the first measure, 01H: Start from the second measure
FF 7F 15 43 73 0A 00 05 tr1 tr2 ... tr16	Track Information	"O": Off, "K": Keyboard, "V": Vocal Harmony, "Z": Other
FF 7F 15 43 73 0A 00 06 tr1 tr2 ... tr16	Offset Volume	0-FFFH
FF 7F 07 43 73 0A 00 07 dd	Song Offset Measure	-100--1, 1-100
FF 7F len 43 73 0C 00 [Data]	Style Name	len=Data length, [Data]=Style Name
FF 7F len 43 73 0D 00 [Data]	Song OTS	len=Data length, [Data]=OTS Data

YAMAHA XF META Event

FF 7F 07 43 7B 01 cr ct bn bt	Chord Name	Refer to "Chord Control" in the MIDI Data Format (System Exclusive Messages)
FF 7F 05 43 7B 03 dd 08	Phrase Mark	See below
FF 7F 04 43 7B 04 dd	Max Phrase Number	01H-7FH
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	rr=Melody Track 1 Ch, ll=Melody Track 2 Ch
FF 7F len 43 7B 21 00 pp [Data]	Lyrics Bitmap	pp=Display type 00H: Center 01H: Tile len=Data length, [Data]=File Path

[Phrase mark]

FF 7F 05 43 7B 03 xx 08 Phrase mark

```
xx   Phrase mark   0hfcccc

bit6(h)
0:Right, 1:Left   Right hand/Left hand
bit5(f)
0:Channel available, 1:Channel not available
Flag for whether channel information (bit 4 - 0) is valid or not
Phrases common to all channels assigned to 1
bit4-0(ccccc)
CH(0:1ch-31:32ch) Channel information whose phrase mark is available
```

Function...	Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	
Mode	Default Messages Altered	3 X *****	3 X X	
Note Number : True voice		0 - 127 *****	0 - 127 0 - 127	
Velocity	Note ON Note OFF	O 9nH,v=1-127 X 9nH,v=0	O 9nH,v=1-127 X	
After Touch	Key's Ch's	X X	X X	
Pitch Bend		O	O 0 - 24 semi	
Control Change	0,32 1,5 7,10,11 6,38 64,66,67 65 71-74 84 91,93 94 96-97 98-99 100-101 120 121	O X O O O X X X O X X X O X X O X X	O X O O O X X X O X O X O O O O	Bank Select Data Entry Portamento Sound Controller Portament Cntrl RPN Inc,Dec NRPN LSB,MSB RPN LSB,MSB All Sound Off Reset All Cntrls
Prog Change : True #		O 0 - 127 *****	O 0 - 127	
System Exclusive		O	O	
Common : Song Pos. : Song Sel. : Tune	X X X	X X X	X X X	
System : Clock Real Time : Commands	O O	O O	O O	
Aux : All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset	X X X X O X	X X X X O X	O (120,126-127) O (121) X O (123-125) O X	
Notes:				

Function...	Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	
Mode	Default Messages Altered	3 X *****	3 X X	
Note Number : True voice		0 - 127 *****	0 - 127 0 - 127	
Velocity	Note ON Note OFF	O 9nH,v=1-127 X 9nH,v=0	O 9nH,v=1-127 X	
After Touch	Key's Ch's	X X	X O	
Pitch Bend		O	O 0 - 24 semi	
Control Change	0,32 1,5,7,10,11 6,38 64,65,66,67 71-74 84 91,93,94 96-97 98-99 100-101 120 121	O O O O O O X O O X X	O O O O O O O O O O O	Bank Select Data Entry Sound Controller Portament Cntrl Effect Depth RPN Inc,Dec NRPN LSB,MSB RPN LSB,MSB All Sound Off Reset All Cntrls
Prog Change : True #		O 0 - 127 *****	O 0 - 127	
System Exclusive		O	O	
Common : Song Pos. : Song Sel. : Tune	X X X	X X X	X X X	
System : Clock Real Time : Commands	O O	O O	O O	
Aux : All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset	X X X X O X	X X X O O X	O (120,126-127) O (121) X O (123-125) O X	
Notes:				

