

# Clavinova®

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# Voice List / Voice-Liste / Liste des sonorités / Lista de voces / Lista de Voices / ボイス一覧

Program change numbers are often specified as numbers "0 – 127." Since this list uses a "1 – 128" numbering system, in such cases it is necessary to subtract 1 from the transmitted program change numbers to select the appropriate sound: e.g. to select No. 2 in the list below, transmit program change number 1.

プログラムチェンジを0~127で設定する場合は、Program Changeの番号から1を引いた数で指定します。たとえば、2のプログラムチェンジを指定する場合は、1の値になります。

## CLP-885, CLP-895GP

Voice category	ボイスカテゴリー	Voice name	ボイス名	MSB	LSB	Program Change (1-128)
PIANO	ピアノ	CFX Grand	CFX グランド	108	0	1
		Binaural CFX Grand	バイノーラル CFX グランド	108	100	1
		Bösendorfer	ベーゼンドルファー	108	6	1
		Binaural Bösendorfer	バイノーラル ベーゼンドルファー	108	101	1
		Upright Piano	アップライトピアノ	108	5	3
		Studio Grand	スタジオ グランド	108	1	3
		Ballad Grand	バラード グランド	108	2	1
		Jazz Grand	ジャズ グランド	108	6	2
		Rock Grand	ロック グランド	108	0	3
		Warm Grand	ウォーム グランド	108	7	1
		Bright Grand	ブライツ グランド	108	0	2
		Chill out Piano	チルアウト ピアノ	108	7	4
		Lo-Fi Piano	ローファイ ピアノ	108	8	4
HonkyTonk Pf	ホンキートンク ピアノ	108	5	4		
FORTEPIANO	フォルテピアノ	Scarlatti Piano	スカルラッチェ ピアノ	108	90	4
		Mozart Piano	モーツァルト ピアノ	108	91	4
		Beethoven Piano	ベートーヴェンピアノ	108	92	4
		Chopin Piano	ショパン ピアノ	108	93	4
E.PIANO	エレピ	Stage E.Piano	ステージ エレピ	108	0	5
		DX E.Piano	DX エレピ	108	0	6
		Vintage EP	ビンテージ エレピ	108	1	5
		Soft EP	ソフト エレピ	108	2	5
		Phaser EP	フェイザー エレピ	108	3	5
		DX Bright	DX ブライト	108	1	6
ORGAN	オルガン	Tremolo Vintage	トレモロ ビンテージ	108	4	5
		Organ GrandJeu	オルガン グランジュ	108	4	20
		Organ Principal	オルガン プリンシパル	108	1	20
		Organ Tutti	オルガン トゥッティ	108	0	20
		Jazz Organ 1	ジャズ オルガン1	108	0	17
		Jazz Organ 2	ジャズ オルガン2	108	3	17
		Rock Organ	ロック オルガン	108	0	18
		Organ Flute 1	オルガン フルート1	108	2	20
STRINGS	ストリングス	Organ Flute 2	オルガン フルート2	108	3	20
		Strings	ストリングス	108	0	49
		Slow Strings	スロー ストリングス	108	0	50
		Choir	クワイア	108	0	53
		Slow Choir	スロー クワイア	108	1	53
		Mellow Strings	メロー ストリングス	108	1	49
		Dark Pad	ダークパッド	108	120	90
		Lite Pad	ライトパッド	108	122	90
BASS	ベース	Bell Pad	ベルパッド	108	12	89
		Acoustic Bass	アコースティック ベース	108	0	33
		Bass & Cymbal	ベース & シンバル	108	1	33
		Electric Bass	エレクトリック ベース	108	0	34
		Fretless Bass	フレットレス ベース	108	0	36
OTHERS	その他	Vintage Bass	ビンテージベース	108	1	34
		Harpichord 8'	ハーピシコード 8'	108	0	7
		Harpsi. 8'+4'	ハーピシコード 8'+4''	108	1	7
		Harp	ハーブ	108	0	47
		Vibraphone	ビブラフォン	108	0	12
		Marimba	マリンバ	108	0	13
		Celesta	チェレスタ	108	0	9
		Nylon Guitar	ナイロンギター	108	0	25
		Steel Guitar	スチールギター	108	0	26
		Scat	スキャット	108	0	54

\* For details on XG Voices, refer to the "XG Voice List" on page 4.

\* XGボイスについては、4ページの「XGボイス一覧」をご覧ください。

## CLP-875, CLP-845, CLP-835, CLP-865GP

Voice category	ボイスカテゴリー	Voice name	ボイス名	MSB	LSB	Program Change (1-128)
PIANO	ピアノ	CFX Grand	CFX グランド	108	0	1
		Binaural CFX Grand	バイノーラル CFX グランド	108	100	1
		Bösendorfer	ベーゼンドルファー	108	6	1
		Binaural Bösendorfer	バイノーラル ベーゼンドルファー	108	101	1
		Upright Piano	アップライト ピアノ	108	5	3
		Jazz Grand	ジャズ グランド	108	6	2
		Rock Grand	ロック グランド	108	0	3
		Warm Grand	ウォーム グランド	108	7	1
		Bright Grand	ブライト グランド	108	0	2
		Chill out Piano	チルアウト ピアノ	108	7	4
		Lo-Fi Piano	ローファイ ピアノ	108	8	4
		HonkyTonk Pf	ホンキートンク ピアノ	108	5	4
FORTEPIANO	フォルテピアノ	Mozart Piano	モーツァルト ピアノ	108	91	4
		Chopin Piano	ショパン ピアノ	108	93	4
E.PIANO	エレピ	Stage E. Piano	ステージ エレピ	108	0	5
		DX E.Piano	DX エレピ	108	0	6
		Vintage EP	ビンテージ エレピ	108	1	5
		Soft EP	ソフト エレピ	108	2	5
		Phaser EP	フェイザー エレピ	108	3	5
		DX Bright	DX ブライト	108	1	6
		Tremolo Vintage	トレモロ ビンテージ	108	4	5
ORGAN	オルガン	Organ Principal	オルガン プリンシパル	108	1	20
		Organ Tutti	オルガン トウッティ	108	0	20
		Jazz Organ 1	ジャズ オルガン 1	108	0	17
		Jazz Organ 2	ジャズ オルガン 2	108	3	17
		Rock Organ	ロック オルガン	108	0	18
STRINGS	ストリングス	Strings	ストリングス	108	0	49
		Slow Strings	スロー ストリングス	108	0	50
		Choir	クワイア	108	0	53
		Slow Choir	スロー クワイア	108	1	53
		Synth Pad	シンセ パッド	108	0	90
BASS	ベース	Acoustic Bass	アコースティック ベース	108	0	33
		Bass & Cymbal	ベース & シンバル	108	1	33
		Electric Bass	エレクトリック ベース	108	0	34
		Fretless Bass	フレットレス ベース	108	0	36
OTHERS	その他	Harpsichord 8'	ハープシコード 8'	108	0	7
		Harpsi. 8'+4'	ハープシコード 8'+4'	108	1	7
		Vibraphone	ビブラフォン	108	0	12
		Nylon Guitar	ナイロンギター	108	0	25
		Steel Guitar	スチールギター	108	0	26

# CLP-885, CLP-895GP

## XG Voice List / XG Voice-Liste / Liste des sonorités XG / Lista de voces XG / Lista de Voices XG / XGボイス一覧

Voice category	Voice name	MSB	LSB	Program Change (1-128)
PIANO	GrandPiano	0	0	1
	GrandPiano KSP	0	1	1
	MellowGndPiano	0	18	1
	PianoStrings	0	40	1
	Dream	0	41	1
	BrightPiano	0	0	2
	BrightPiano KSP	0	1	2
	E.GrandPiano	0	0	3
	E.GndPiano KSP	0	1	3
	DetunedCP80	0	32	3
	LayeredCP1	0	40	3
	LayeredCP2	0	41	3
	Honkytonk	0	0	4
	Honkytonk KSP	0	1	4
	ElectricPiano1	0	0	5
	E.Piano1 KSP	0	1	5
	Mellow E.Piano	0	18	5
	ChorusEP1	0	32	5
	Hard E.Piano	0	40	5
	Vxfade E.Piano1	0	45	5
	60s E.Piano1	0	64	5
	ElectricPiano2	0	0	6
	E.Piano2 KSP	0	1	6
	ChorusEP2	0	32	6
	DXEPHard	0	33	6
	DXLegend	0	34	6
	DXPhaseEP	0	40	6
	DX+AnalogEP	0	41	6
	DXKotoEP	0	42	6
	VXfadeEL.Piano2	0	45	6
	Harpsichord	0	0	7
	Harpsichord KSP	0	1	7
	Harpsichord2	0	25	7
	Harpsichord3	0	35	7
	Clavi	0	0	8
	Clavi KSP	0	1	8
	ClaviWah	0	27	8
	PulseClavi	0	64	8
	PierceClavi	0	65	8
	CHROMATIC PERC.	Celesta	0	0
Glockenspiel		0	0	10
MusicBox		0	0	11
MusicBox2		0	64	11
Vibraphone		0	0	12
Vibraphone KSP		0	1	12
HardVibes		0	45	12
Marimba		0	0	13
Marimba KSP		0	1	13
SineMarimba		0	64	13
Balimba		0	97	13
LogDrums		0	98	13
Xylophone		0	0	14
TubularBells		0	0	15
ChurchBells		0	96	15
Carillon		0	97	15
Dulcimer		0	0	16
Dulcimer2		0	35	16
Cimbalom		0	96	16
Santur		0	97	16
ORGAN	DrawbarOrgan	0	0	17
	DetDrawOrgan	0	32	17
	60sDrawOrgan1	0	33	17
	60sDrawOrgan2	0	34	17
	70sDrawOrgan1	0	35	17
	DrawbarOrgan2	0	36	17
	60sDrawOrgan3	0	37	17
	EvenBarOrgan	0	38	17

Voice category	Voice name	MSB	LSB	Program Change (1-128)
ORGAN	16+2'2_3Organ	0	40	17
	OrganBass	0	64	17
	70sDrawOrgan2	0	65	17
	CheezyOrgan	0	66	17
	DrawbarOrgan3	0	67	17
	Perc.Organ1	0	0	18
	70sPerc.Organ1	0	24	18
	DetPerc.Organ	0	32	18
	LightOrgan	0	33	18
	Perc.Organ2	0	37	18
	RockOrgan	0	0	19
	RotaryOrgan	0	64	19
	SlowRotary	0	65	19
	FastRotary	0	66	19
	ChurchOrgan	0	0	20
	ChurchOrgan3	0	32	20
	ChurchOrgan2	0	35	20
	NotreDame	0	40	20
	OrganFlute	0	64	20
	Trem.OrganFlute	0	65	20
	ReedOrgan	0	0	21
	PuffOrgan	0	40	21
	Accordion	0	0	22
	AccordionItalian	0	32	22
	Harmonica	0	0	23
	Harmonica2	0	32	23
TangoAccordion	0	0	24	
TangoAccord2	0	64	24	
GUITAR	NylonGuitar	0	0	25
	NylonGuitar2	0	16	25
	NylonGuitar3	0	25	25
	VelocityGtHarmo	0	43	25
	Ukulele	0	96	25
	SteelGuitar	0	0	26
	SteelGuitar2	0	16	26
	12StrGuitar	0	35	26
	Nylon&Steel	0	40	26
	Steel&Body	0	41	26
	Mandolin	0	96	26
	JazzGuitar	0	0	27
	MellowGuitar	0	18	27
	JazzAmp	0	32	27
	CleanGuitar	0	0	28
	ChorusGuitar	0	32	28
	MutedGuitar	0	0	29
	FunkGuitar1	0	40	29
	MuteSteelGuitar	0	41	29
	FunkGuitar2	0	43	29
	JazzMan	0	45	29
	Overdriven	0	0	30
	GuitarPinch	0	43	30
	DistortionGuitar	0	0	31
	FeedbackGuitar	0	40	31
	FeedbackGtr2	0	41	31
GuitarHarmonics	0	0	32	
GuitarFeedback	0	65	32	
GuitarHarmonic2	0	66	32	
BASS	AcousticBass	0	0	33
	JazzRhythm	0	40	33
	VXUprghtBass	0	45	33
	FingerBass	0	0	34
	FingerBassDark	0	18	34
	FlangeBass	0	27	34
	Bass&DistEG	0	40	34
	FingerSlapBass	0	43	34
	FingerBass2	0	45	34
	ModulatedBass	0	65	34

Voice category	Voice name	MSB	LSB	Program Change (1-128)
BASS	PickBass	0	0	35
	MutePickBass	0	28	35
	FretlessBass	0	0	36
	FretlessBass2	0	32	36
	FretlessBass3	0	33	36
	FretlessBass4	0	34	36
	SynthFretless	0	96	36
	SmthFretless	0	97	36
	SlapBass1	0	0	37
	ResonantSlap	0	27	37
	PunchThumb	0	32	37
	SlapBass2	0	0	38
	VeloSwitchSlap	0	43	38
	SynthBass1	0	0	39
	SynthBass1 Dark	0	18	39
	FastResoBass	0	20	39
	AcidBass	0	24	39
	ClaviBass	0	35	39
	TechnoBass	0	40	39
	Orbiter	0	64	39
	SquareBass	0	65	39
	RubberBass	0	66	39
	Hammer	0	96	39
	SynthBass2	0	0	40
	MellowSynBass	0	6	40
	SequenceBass	0	12	40
	ClickSynthBass	0	18	40
	SynthBass2Dark	0	19	40
	SmoothSynBass	0	32	40
	ModulrSynBass	0	40	40
	DXBass	0	41	40
	XWireBass	0	64	40
	STRINGS	Violin	0	0
SlowAttackViolin		0	8	41
Viola		0	0	42
Cello		0	0	43
Contrabass		0	0	44
TremoloStrings		0	0	45
SlwAtkTremStr		0	8	45
SuspenseStrings		0	40	45
PizzicatoStrings		0	0	46
OrchestralHarp		0	0	47
YangQin		0	40	47
Timpani		0	0	48
ENSEMBLE	Strings1	0	0	49
	StereoStrings	0	3	49
	SlwAtkStrings	0	8	49
	ArcoStrings	0	24	49
	60sStrings	0	35	49
	Orchestra	0	40	49
	Orchestra2	0	41	49
	TremoloOrchestra	0	42	49
	VelocityStrings	0	45	49
	Strings2	0	0	50
	StereoSlwStrings	0	3	50
	LegatoStrings	0	8	50
	WarmStrings	0	40	50
	Kingdom	0	41	50
	70sStrings	0	64	50
	Strings3	0	65	50
	SynthStrings1	0	0	51
	ResonantStrings	0	27	51
	SynthStrings4	0	64	51
	SynthStrings5	0	65	51
	SynthStrings2	0	0	52
	ChoirAahs	0	0	53
	StereoChoir	0	3	53
	ChoirAahs2	0	16	53
	MellowChoir	0	32	53
	ChoirStrings	0	40	53

Voice category	Voice name	MSB	LSB	Program Change (1-128)	
ENSEMBLE	VoiceOohs	0	0	54	
	SynthVoice	0	0	55	
	SynthVoice2	0	40	55	
	Choral	0	41	55	
	AnalogVoice	0	64	55	
	OrchestraHit	0	0	56	
	OrchestraHit2	0	35	56	
	Impact	0	64	56	
	BRASS	Trumpet	0	0	57
Trumpet2		0	16	57	
BrightTrumpet		0	17	57	
WarmTrumpet		0	32	57	
Trombone		0	0	58	
Trombone2		0	18	58	
Tuba		0	0	59	
Tuba2		0	16	59	
MutedTrumpet		0	0	60	
FrenchHorn		0	0	61	
FrenchHornSolo		0	6	61	
FrenchHorn2		0	32	61	
HornOrchestra		0	37	61	
BrassSection		0	0	62	
Tp&TbSection		0	35	62	
BrassSection2		0	40	62	
HighBrass		0	41	62	
MellowBrass		0	42	62	
SynthBrass1		0	0	63	
QuackBrass		0	12	63	
ResoSynthBrass		0	20	63	
PolyBrass		0	24	63	
SynthBrass3		0	27	63	
JumpBrass		0	32	63	
An.VeloBrass1		0	45	63	
AnalogBrass1		0	64	63	
SynthBrass2		0	0	64	
SoftBrass		0	18	64	
SynthBrass4		0	40	64	
ChoirBrass		0	41	64	
An.VeloBrass2		0	45	64	
AnalogBrass2		0	64	64	
REED		SopranoSax	0	0	65
	AltoSax	0	0	66	
	SaxSection	0	40	66	
	HyperAltoSax	0	43	66	
	TenorSax	0	0	67	
	BreathyTenor	0	40	67	
	SoftTenorSax	0	41	67	
	TenorSax2	0	64	67	
	BaritoneSax	0	0	68	
	Oboe	0	0	69	
	EnglishHorn	0	0	70	
	Bassoon	0	0	71	
Clarinet	0	0	72		
PIPE	Piccolo	0	0	73	
	Flute	0	0	74	
	Recorder	0	0	75	
	PanFlute	0	0	76	
	BlownBottle	0	0	77	
	Shakuhachi	0	0	78	
	Whistle	0	0	79	
	Ocarina	0	0	80	
	SYNTH LEAD	SquareLead	0	0	81
		SquareLead2	0	6	81
LMSquare		0	8	81	
Hollow		0	18	81	
Shroud		0	19	81	
Mellow		0	64	81	
SoloSine		0	65	81	
SineLead		0	66	81	
SawtoothLead	0	0	82		

Voice category	Voice name	MSB	LSB	Program Change (1-128)	
SYNTH LEAD	SawtoothLead2	0	6	82	
	ThickSaw	0	8	82	
	DynamicSaw	0	18	82	
	DigitalSaw	0	19	82	
	BigLead	0	20	82	
	HeavySynth	0	24	82	
	WaspySynth	0	25	82	
	PulseSaw	0	40	82	
	Dr.Lead	0	41	82	
	VelocityLead	0	45	82	
	SequenceAnalog	0	96	82	
	CalliopeLead	0	0	83	
	PureLead	0	65	83	
	ChiffLead	0	0	84	
	Rubby	0	64	84	
	CharangLead	0	0	85	
	DistortedLead	0	64	85	
	WireLead	0	65	85	
	VoiceLead	0	0	86	
	SynthAahs	0	24	86	
	VoxLead	0	64	86	
	FifthsLead	0	0	87	
	BigFive	0	35	87	
	Bass&Lead	0	0	88	
	Big&Low	0	16	88	
	Fat&Perky	0	64	88	
	SoftWhirl	0	65	88	
	SYNTH PAD	NewAgePad	0	0	89
		Fantasy	0	64	89
		WarmPad	0	0	90
		ThickPad	0	16	90
SoftPad		0	17	90	
SinePad		0	18	90	
HornPad		0	64	90	
RotaryStrings		0	65	90	
PolySynthPad		0	0	91	
PolyPad80		0	64	91	
ClickPad		0	65	91	
AnalogPad		0	66	91	
SquarePad		0	67	91	
ChoirPad		0	0	92	
Heaven		0	64	92	
Itopia		0	66	92	
CCPad		0	67	92	
BowedPad		0	0	93	
Glacier		0	64	93	
GlassPad		0	65	93	
MetallicPad		0	0	94	
TinePad		0	64	94	
PanPad		0	65	94	
HaloPad		0	0	95	
SweepPad		0	0	96	
Shwimmer		0	20	96	
Converge		0	27	96	
PolarPad	0	64	96		
Celestial	0	66	96		
SYNTH EFFECTS	Rain	0	0	97	
	ClaviPad	0	45	97	
	HarmoRain	0	64	97	
	AfricanWind	0	65	97	
	Carib	0	66	97	
	SoundTrack	0	0	98	
	Prologue	0	27	98	
	Ancestral	0	64	98	
	Crystal	0	0	99	
	SynthDrumComp	0	12	99	
	Popcorn	0	14	99	
	TinyBells	0	18	99	
	RoundGlocken	0	35	99	
	GlockenChime	0	40	99	

Voice category	Voice name	MSB	LSB	Program Change (1-128)
SYNTH EFFECTS	ClearBells	0	41	99
	ChorusBells	0	42	99
	SynthMallet	0	64	99
	SoftCrystal	0	65	99
	LoudGlocken	0	66	99
	ChristmasBells	0	67	99
	VibraphoneBells	0	68	99
	DigitalBells	0	69	99
	AirBells	0	70	99
	BellHarp	0	71	99
	Gamelimba	0	72	99
	Atmosphere	0	0	100
	WarmAtmos.	0	18	100
	HollowRelease	0	19	100
	NylonEl.Piano	0	40	100
	NylonHarp	0	64	100
	HarpVox	0	65	100
	AtmospherePad	0	66	100
	Planet	0	67	100
	Brightness	0	0	101
	FantasyBells	0	64	101
	Smokey	0	96	101
	Goblins	0	0	102
	GoblinsSynth	0	64	102
	Creeper	0	65	102
	RingPad	0	66	102
	Ritual	0	67	102
	ToHeaven	0	68	102
	Night	0	70	102
	Glisten	0	71	102
	BellChoir	0	96	102
Echoes	0	0	103	
Echoes2	0	8	103	
EchoPan	0	14	103	
EchoBells	0	64	103	
BigPan	0	65	103	
SynthPiano	0	66	103	
Creation	0	67	103	
Stardust	0	68	103	
Reso&Panning	0	69	103	
ScienceFiction	0	0	104	
Starz	0	64	104	
ETHNIC	Sitar	0	0	105
	DetunedSitar	0	32	105
	Sitar2	0	35	105
	Tambra	0	96	105
	Tamboura	0	97	105
	Banjo	0	0	106
	MutedBanjo	0	28	106
	Rabab	0	96	106
	Gopichant	0	97	106
	Oud	0	98	106
	Shamisen	0	0	107
	Koto	0	0	108
	Taisho-kin	0	96	108
	Kanoon	0	97	108
	Kalimba	0	0	109
	Bagpipe	0	0	110
	Fiddle	0	0	111
	Shanai	0	0	112
	Shanai2	0	64	112
	Pungi	0	96	112
Hichiriki	0	97	112	
PERCUSSIVE	TinkleBell	0	0	113
	Bonang	0	96	113
	Altair	0	97	113
	GamelanGongs	0	98	113
	StereoGamlan	0	99	113
	RamaCymbal	0	100	113
	AsianBells	0	101	113

Voice category	Voice name	MSB	LSB	Program Change (1-128)
PERCUSSIVE	Agogo	0	0	114
	SteelDrums	0	0	115
	GlassPercussion	0	97	115
	ThaiBells	0	98	115
	Woodblock	0	0	116
	Castanets	0	96	116
	TaikoDrum	0	0	117
	GranCassa	0	96	117
	MelodicTom	0	0	118
	MelodicTom2	0	64	118
	RealTom	0	65	118
	RockTom	0	66	118
	SynthDrum	0	0	119
	AnalogTom	0	64	119
	ElectroPerc.	0	65	119
ReverseCymbal	0	0	120	
SOUND EFFECTS	GuitarFretNoise	0	0	121
	BreathNoise	0	0	122
	Seashore	0	0	123
	BirdTweet	0	0	124
	TelephoneRing	0	0	125
	Helicopter	0	0	126
	Applause	0	0	127
	Gunshot	0	0	128
SFX	CuttingNoise	64	0	1
	CuttingNoise2	64	0	2
	StringSlap	64	0	4
	FluteKeyClick	64	0	17
	Shower	64	0	33
	Thunder	64	0	34
	Wind	64	0	35
	Stream	64	0	36
	Bubble	64	0	37
	Feed	64	0	38
	Dog	64	0	49
	Horse	64	0	50
	BirdTweet2	64	0	51
	Ghost	64	0	55
	Maou	64	0	56
	PhoneCall	64	0	65
	DoorSqueak	64	0	66
	DoorSlam	64	0	67
	ScratchCut	64	0	68
	ScratchSplit	64	0	69
	WindChime	64	0	70
	TelephoneRing2	64	0	71
	CarEngineIgn	64	0	81
	CarTiresSqel	64	0	82
	CarPassing	64	0	83
	CarCrash	64	0	84
	Siren	64	0	85
	Train	64	0	86
	JetPlane	64	0	87
	Starship	64	0	88
	Burst	64	0	89
	RollerCoaster	64	0	90
Submarine	64	0	91	
Laugh	64	0	97	
Scream	64	0	98	
Punch	64	0	99	
Heartbeat	64	0	100	
FootSteps	64	0	101	
MachineGun	64	0	113	
LaserGun	64	0	114	
Explosion	64	0	115	
Firework	64	0	116	

# CLP-885, CLP-895GP

## XG Drum Kit List / Liste der Drum Kits (Schlagzeug-Sets) / Liste des kits de percussion XG / Lista del kit de batería XG / Lista do conjunto de percussão XG / XGドラムキット一覧

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

Same as Standard Kit 1  
Standard Kit 1と同じ

No Sound  
音は鳴りません

\*1 Key Off. Keys marked "●" stop sounding the instant they are released.  
\*1 Key Off機能に「●」がついている楽器は、鍵盤を離したとき発音が止まります。

\*2 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.  
\*2 Alt Grp (Alternate Group)欄の番号はグループを表し、同じグループ番号の中で、1つの楽器を発音させると同じグループの中の他の楽器の発音が止まります。



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

Same as Standard Kit 1 Standard Kit 1と同じ

\*1 Key Off. Keys marked "●" stop sounding the instant they are released.

\*1 Key Off機能に「●」がついている楽器は、鍵盤を離したとき発音が止まります。

No Sound 音は鳴りません。

\*2 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.

\*2 Alt Grp (Alternate Group)欄の番号はグループを表し、同じグループ番号の中で、1つの楽器を発音させると同じグループの中の他の楽器の発音が止まります。

Kit Name		SFX Kit 1			SFX Kit 2			Pop Latin Kit		
MSB-LSB-PC# (Org:1)		126-0-1			126-0-2			126-0-44		
Note#	MIDI Note	FullName	Key Off (*1)	Alt Grp (*2)	FullName	Key Off	Alt Grp	FullName	Key Off	Alt Grp
13	C#-1							Cajon Low		
14	D-1							Cajon Slap		
15	D#-1							Cajon Tip		
16	E-1							Claves High		
17	F-1							Claves Low		
18	F#-1							Hand Clap		
19	G-1									
20	G#-1							Finger Snap		
21	A-1							Castanet		
22	A#-1							Conga H Tip		
23	B-1							Conga H Heel		
24	C0							Conga H Open		
25	C#0							Conga H Mute		
26	D0							Conga H Slap Open		
27	D#0							Conga H Slap		
28	E0							Conga H Slap Mute		
29	F0							Conga L Tip		
30	F#0							Conga L Heel		
31	G0							Conga L Open		
32	G#0							Conga L Mute		
33	A0							Conga L Slap Open		
34	A#0							Conga L Slap		
35	B0							Conga L Slide	●	
36	C1	Cutting Noise 1	●		Phone Call	●		Bongo H Open One Finger		
37	C#1	Cutting Noise 2	●		Door Squeak	●		Bongo H Open Three Finger		
38	D1				Door Slam	●		Bongo H Rim		
39	D#1	String Slap	●		Scratch Cut	●		Bongo H Tip		
40	E1				Scratch Split	●		Bongo H Heel		
41	F1				Wind Chime	●		Bongo H Slap		
42	F#1				Telephone Ring	●		Bongo L Open One Finger		
43	G1							Bongo L Open Three Finger		
44	G#1							Bongo L Rim		
45	A1							Bongo L Tip		
46	A#1							Bongo L Heel		
47	B1							Bongo L Slap		
48	C2							Timbale L		
49	C#2									
50	D2									
51	D#2									
52	E2	Flute Key Click	●		Car Engine Ignition	●				
53	F2				Car Tires Squeal	●		Paila L		
54	F#2				Car Passing	●		Timbale H		
55	G2				Car Crash	●				
56	G#2				Siren	●				
57	A2				Train	●				
58	A#2				Jet Plane	●				
59	B2				Starship	●		Paila H		
60	C3				Burst	●		Cowbell Top		
61	C#3				Roller Coaster	●		Cowbell 1		
62	D3				Submarine	●		Cowbell 2		
63	D#3							Cowbell 3		
64	E3							Guiro Short		
65	F3							Guiro Long	●	
66	F#3							Metal Guiro Short		
67	G3							Metal Guiro Long	●	
68	G#3	Shower	●		Laugh	●		Tambourine		
69	A3	Thunder	●		Scream	●		Tambourim Open		
70	A#3	Wind	●		Punch	●		Tambourim Mute		
71	B3	Stream	●		Heart Beat	●		Tambourim Tip		
72	C4	Bubble	●		Foot Steps	●		Maracas		
73	C#4	Feed	●					Shaker		
74	D4							Cabasa		
75	D#4							Cuica Mute		
76	E4							Cuica Open		
77	F4							Cowbell High 1		
78	F#4							Cowbell High 2		
79	G4							Shekere		
80	G#4							Shekere Tone		
81	A4							Triangle Mute		1
82	A#4							Triangle Open		1
83	B4									
84	C5	Dog	●		Machine Gun	●		Wind Chime		
85	C#5	Horse	●		Laser Gun	●				
86	D5	Bird Tweet	●		Explosion	●				
87	D#5				Firework	●				
88	E5									
89	F5									
90	F#5	Ghost	●							
91	G5	Maou	●							

Same as Standard Kit 1  
Standard Kit 1と同じ

No Sound  
音は鳴りません。

\*1 Key Off. Keys marked "●" stop sounding the instant they are released.  
\*1 Key Off機能に「●」がついている楽器は、鍵盤を離したとき発音が止まります。

\*2 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.  
\*2 Alt Grp (Alternate Group)欄の番号はグループを表し、同じグループ番号の中で、1つの楽器を発音させると同じグループの中の他の楽器の発音が止まります。

# Effect Type List / Liste der Effekttypen / Liste des types d'effets / Lista de tipos de efectos / Lista de tipos de efeito / エフェクトタイプ一覧

## Reverb Block

Reverb types that can be selected by Voice menu  
ボイスメニューで設定できるリバーブタイプ

Effect type	エフェクトタイプ	MSB	LSB
Off	Off	0	0
Recital Hall	リサイタルホール	1	24
Concert Hall	コンサートホール	1	4
Chamber	サロン	2	24
Room	ルーム	2	16
Cathedral	大聖堂	1	5
Club	クラブ	3	24
Plate	プレート	4	24

## Chorus Block

Chorus types that can be selected by Voice menu  
ボイスメニューで設定できるコーラスタイプ

Effect type	エフェクトタイプ	MSB	LSB
Off	Off	0	0
Chorus	コーラス	65	8
Celeste	セレステ	66	8
Flanger	フランジャー	67	1

## DSP Block

Effect types that can be selected by Voice menu  
ボイスメニューで設定できるエフェクトタイプ

Effect type	エフェクトタイプ	MSB	LSB
Off	Off	64	0
DelayLCR	ディレイLCR	5	16
DelayLR	ディレイLR	6	0
Echo	エコー	7	0
CrossDelay	クロスディレイ	8	0
Symphonic	シンフォニック	68	16
Rotary	ロータリー	69	32
Tremolo	トレモロ	70	18
VibeRotor	バイプローター	119	0
AutoPan	オートパン	71	21
Phaser	フェイザー	72	16
AutoWah	オートワウ	78	16
Distortion	ディストーション	97	33

Effect types used for the specific Voice  
(that cannot be selected by Voice menu)  
特定のボイスで使用されているエフェクトタイプ  
(ボイスメニューでの設定不可)

Effect type	エフェクトタイプ	MSB	LSB
VCM EQ 501	VCM EQ 501	77	33
CompDistortion	コンプディストーション	73	16
VintagePhaserStereo	ビンテージフェイザーステレオ	124	3
StereoOverdrive	ステレオオーバードライブ	74	8
Damper Resonance	ダンパーレゾナンス	123	8
Hall 5	ホール 5	1	1

# Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets / Lista de parámetros de efectos / Lista de parâmetros do efeito / エフェクトパラメーター一覧

Parameters marked with a ● in the "Control" column can be controlled from an AC1 (assignable controller 1) etc.  
Control欄に●印が付いているものは、AC1(アサインナブルコントローラー 1)などでコントロール可能なパラメーターです。

## REVERB

### Room, Hall 5 (ルーム、ホール5)

No.	Parameter	Display	Value	Table	Control
1	Reverb Time	0.3s - 30.0s	0 - 69	Table #9	
2	Diffusion	0 - 10	0 - 10		
3	Initial Delay Time	0.1ms - 200.0ms (192step)	0 - 127	Table #10	
		0.1ms - 99.3ms (96step, 48step)	0 - 63		
4	HPF Cutoff Frequency	Thru, 22Hz - 8.0kHz	0 - 52	Table #3	
5	LPF Cutoff Frequency	1.0kHz - 18kHz, Thru	34 - 60	Table #3	
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 127		●
11	Reverb Delay Time	0.1ms - 200.0ms (192step)	0 - 127	Table #10	
		0.1ms - 99.3ms (96step, 48step)	0 - 63		
12	Density	0 - 4 (192step, 96step) 0 - 2 (48step)	0 - 4 0 - 2		
13	ER/Reverb Balance	E63>R - E=R - E<R63	1 - 127		
14	High Damp	0.1 - 1.0	1 - 10		
15	Feedback Level	-63 - 0 - +63	1 - 127		
16					

### Recital Hall, Concert Hall, Chamber, Cathedral, Club, Plate (リサイタルホール、コンサートホール、サロン、大聖堂、クラブ、プレート)

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

## CHORUS

### Chorus, Celeste (コーラス、セレスト)

No.	Parameter	Display	Value	Table	Control
1	LFO Frequency	0.00Hz - 39.7Hz	0 - 127	Table #1	
2	LFO Depth	0 - 127	0 - 127		
3	Feedback Level	-63 - 0 - +63	1 - 127		
4	Delay Offset	0.0ms - 50.0ms	0 - 127	Table #2	
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 76		
8	EQ High Frequency	500Hz - 16kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 127		●
11	EQ Mid Frequency	100Hz - 10kHz	14 - 54	Table #3	
12	EQ Mid Gain	-12dB - 0dB - +12dB	52 - 76		
13	EQ Mid Width	0.1 - 12.0	1 - 120		
14					
15	Input Mode	Mono, Stereo	0 - 1		
16					

### Flanger (フランジャー)

No.	Parameter	Display	Value	Table	Control
1	LFO Frequency	0.00Hz - 39.7Hz	0 - 127	Table #1	
2	LFO Depth	0 - 127	0 - 127		
3	Feedback Level	-63 - 0 - +63	1 - 127		
4	Delay Offset	0.0ms - 50.0ms	0 - 127	Table #2	
5					
6	EQ Low Frequency	32Hz - 2.0kHz	4 - 40	Table #3	
7	EQ Low Gain	-12dB - 0dB - +12dB	52 - 76		
8	EQ High Frequency	500Hz - 16kHz	28 - 58	Table #3	
9	EQ High Gain	-12dB - 0dB - +12dB	52 - 76		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 127		●
11	EQ Mid Frequency	100Hz - 10kHz	14 - 54	Table #3	
12	EQ Mid Gain	-12dB - 0dB - +12dB	52 - 76		
13	EQ Mid Width	0.1 - 12.0	1 - 120		
14	LFO Phase Difference	-180deg - 0deg - +180deg (resolution=3deg.)	4 - 124		
15					
16					

## DSP

## DelayLCR (ディレイLCR)

No.	Parameter	Display	Value	Table	Control
1	Lch Delay Time	0.1ms – 1.6383s	1 – 16383		
2	Rch Delay Time	0.1ms – 1.6383s	1 – 16383		
3	Cch Delay Time	0.1ms – 1.6383s	1 – 16383		
4	Feedback Delay Time	0.1ms – 1.6383s	1 – 16383		
5	Feedback Level	-63 – 0 – +63	1 – 127		
6	Cch Level	0 – 127	0 – 127		
7	Feedback 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	-12dB – 0dB – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		

## DelayLR (ディレイLR)

No.	Parameter	Display	Value	Table	Control
1	Lch Delay Time	0.1ms – 1.6383s	1 – 16383		
2	Rch Delay Time	0.1ms – 1.6383s	1 – 16383		
3	Feedback Delay 1 Time	0.1ms – 1.6383s	1 – 16383		
4	Feedback Delay 2 Time	0.1ms – 1.6383s	1 – 16383		
5	Feedback Level	-63 – 0 – +63	1 – 127		
6	Feedback 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	-12dB – 0dB – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		

## Echo (エコー)

No.	Parameter	Display	Value	Table	Control
1	Lch Delay 1 Time	0.1ms – 1.4860s	1 – 14860		
2	Lch Feedback Level	-63 – 0 – +63	1 – 127		
3	Rch Delay 1 Time	0.1ms – 1.4860s	1 – 14860		
4	Rch Feedback Level	-63 – 0 – +63	1 – 127		
5	Feedback High Damp	0.1 – 1.0	1 – 10		
6	Lch Delay 2 Time	0.1ms – 1.4860s	1 – 14860		
7	Rch Delay 2 Time	0.1ms – 1.4860s	1 – 14860		
8	Delay 2 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	-12dB – 0dB – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		

## CrossDelay (クロスディレイ)

No.	Parameter	Display	Value	Table	Control
1	L->R Delay Time	0.1ms – 1.4860s	1 – 14860		
2	R->L Delay Time	0.1ms – 1.4860s	1 – 14860		
3	Feedback Level	-63 – 0 – +63	1 – 127		
4	Input Select	L, R, L&R	0 – 2		
5	Feedback 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	-12dB – 0dB – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		

## Symphonic (シンフォニック)

No.	Parameter	Display	Value	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 – 50.0ms	0 – 127	Table #2	
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		●
11	EQ Mid Frequency	100Hz – 10kHz	14 – 54	Table #3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14					
15					
16					

## Rotary (ロータリー)

No.	Parameter	Display	Value	Table	Control
1	Speed Control	Slow, Fast	0 – 1		●
2	Drive	0.0 – 10.0	0 – 100		
3	Tone	0.0 – 10.0	0 – 100		
4	Low/High Balance	L63>H – L=H – L<H63	1 – 127		
5	Output Level	0 – 127	0 – 127		
6	Mic L-R Angle	0deg, 90deg, 120deg, 180deg	0 – 3		
7	Input Level	-6.0dB – 0.0dB – +6.0dB	52 – 76		
8	Modulation Intensity	0 – 63	0 – 63		
9					
10					
11	Slow-Fast Time of Horn	x0.21 – x1.00 – x2.00	14 – 127	Table #4	
12	Fast-Slow Time of Horn	x0.21 – x1.00 – x2.00	14 – 127	Table #4	
13	Woofer Speed Slow	0.0rpm – 88.3rpm	0 – 127	Table #5	
14	Horn Speed Slow	0.0rpm – 89.6rpm	0 – 127	Table #6	
15	Woofer Speed Fast	189.3rpm – 736.8rpm	1 – 127	Table #7	
16	Horn Speed Fast	209.4rpm – 817.6rpm	1 – 127	Table #8	

**Tremolo (トレモロ)**

No.	Parameter	Display	Value	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	-12dB – 0dB – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		
11	Drive	0 – 127	0 – 127		
12	Dist EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
13	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 76		
14	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34 – 60	Table #3	
15	Output Level	0 – 127	0 – 127		
16					

**Phaser (フェイザー)**

No.	Parameter	Display	Value	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 – 0 – +63	1 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		●
11	Stage	4 – 22	4 – 22		
12	Diffusion	Mono, Stereo	0 – 1		
13					
14					
15					
16					

**VibeRotor (バイプローター)**

No.	Parameter	Display	Value	Table	Control
1	Rotor Speed	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	-12dB – 0dB – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		
11	EQ Mid Frequency	100Hz – 10kHz	14 – 54	Table #3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg (resolution=3deg.)	4 – 124		
15	Input Mode	Mono, Stereo	0 – 1		
16	Rotor SW	Off, On	0 – 1		●

**AutoWah (オートワウ)**

No.	Parameter	Display	Value	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	-12dB – 0dB – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		
11	Drive	0 – 127	0 – 127		
12					
13					
14					
15					
16					

**AutoPan (オートパン)**

No.	Parameter	Display	Value	Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	Table #1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	Pan Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16kHz	28 – 58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 76		
10					
11	EQ Mid Frequency	100Hz – 10kHz	14 – 54	Table #3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14					
15					
16					

**Distortion (ディストーション)**

No.	Parameter	Display	Value	Table	Control
1	Mode	Bright, Top Boost	0 – 1		
2	Normal	0.0 – 10.0	0 – 100		
3	Brilliant	0.0 – 10.0	0 – 100		
4	Bass	0.0 – 10.0	0 – 100		
5					
6	Treble	0.0 – 10.0	0 – 100		
7	Cut	0.0 – 10.0	0 – 100		
8					
9	Output	0 – 127	0 – 127		●
10					
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0 – 10		
12	Speaker Air	0 – 2	0 – 2		
13	Mic Position	Center, Edge	0 – 1		
14					
15					
16					

## VCM EQ 501

No.	Parameter	Display	Value	Table	Control
1	EQ1 Freq	31.5Hz – 2.0kHz	12 – 84	Table #15	
2	EQ1 Gain	-12.0dB – +12.0dB	40 – 88		
3	EQ2 Q	0.50 – 16.00	0 – 60	Table #15	
4	EQ2 Freq	50.0 Hz – 20.0kHz	20 – 124	Table #15	
5	EQ2 Gain	-18.0dB – +18.0dB	28 – 100		
6	EQ3 Q	0.50 – 16.00	0 – 60	Table #16	
7	EQ3 Freq	50.0 Hz – 20.0kHz	20 – 124	Table #15	
8	EQ3 Gain	-18.0dB – +18.0dB	28 – 100		
9					
10					
11	EQ4 Q	0.50 – 16.00	0 – 60	Table #16	
12	EQ4 Freq	50.0 Hz – 20.0kHz	20 – 124	Table #15	
13	EQ4 Gain	-18.0dB – +18.0dB	28 – 100		
14	EQ5 Freq	500Hz – 20.0kHz	60 – 124	Table #15	
15	EQ5 Gain	-12.0dB – +12.0dB	40 – 88		
16	Output Level	-12.0dB – +12.0dB	40 – 88		

## StereoOverdrive (ステレオオーバードライブ)

No.	Parameter	Display	Value	Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #3	
3	EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
4	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34 – 60	Table #3	
5	Output Level	0 – 127	0 – 127		
6					
7	EQ Mid Frequency	100Hz – 10kHz	14 – 54	Table #3	
8	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 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					

## CompDistortion (コンプディストーション)

No.	Parameter	Display	Value	Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	Table #15	
3	EQ Low Gain	-12dB – 0dB – +12dB	52 – 76		
4	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34 – 60	Table #3	
5	Output Level	0 – 127	0 – 127		
6					
7	EQ Mid Frequency	100Hz – 10kHz	14 – 54	Table #3	
8	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12	Attack	1ms – 40ms	0 – 19	Table #12	
13	Release	10ms – 680ms	0 – 15	Table #13	
14	Threshold	-48dB – -6dB	79 – 121		
15	Ratio	1.0 – 20.0	0 – 7	Table #14	
16					

## Damper Resonance (ダンパーレゾナンス)

No.	Parameter	Display	Value	Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127		
11					
12					
13					
14					
15					
16	Pedal Control	0 – 127	0 – 127		●

## VintagePhaserStereo (ビンテージフェイザーステレオ)

No.	Parameter	Display	Value	Table	Control
1	Speed	0.100Hz – 10.00Hz	0 – 252	Table #11	●
2	Manual	0 – 127	0 – 127		
3	Depth	0 – 127	0 – 127		
4	Feedback	0 – 127	0 – 127		
5	Stage	4, 6, 8, 10	0 – 3		
6	Mode	1, 2	0 – 1		
7	Color (*)	0 – 127	0 – 127		
8	Spread	0 – 127	0 – 127		
9					
10					
11					
12					
13					
14					
15					
16					

(\*) For the following settings, the Color parameter is not available.  
When Stage is set to 4, 6 or 8 (with Mode at 1), and 4 or 10 (with Mode at 2).

(\*) 以下の設定のときはColorは動作しません。

Mode=1でStage=4、6、8のとき、および、Mode=2でStage=4、10のとき。

# Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets / Tabla de asignación de datos para efectos / Tabela de atribuição de dados de efeito / エフェクトデータアサインテーブル

**Table #1**  
LFO Frequency [Hz]

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

**Table #2**  
Modulation Delay Offset [ms]

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

**Table #3**  
EQ Frequency [Hz]

Data	Value	Data	Value
0	THRU (20)	31	700
		32	800
1	22	33	900
2	25	34	1.0k
3	28	35	1.1k
4	32	36	1.2k
5	36	37	1.4k
6	40	38	1.6k
7	45	39	1.8k
8	50	40	2.0k
9	56	41	2.2k
10	63	42	2.5k
11	70	43	2.8k
12	80	44	3.2k
13	90	45	3.6k
14	100	46	4.0k
15	110	47	4.5k
16	125	48	5.0k
17	140	49	5.6k
18	160	50	6.3k
19	180	51	7.0k
20	200	52	8.0k
21	225	53	9.0k
22	250	54	10k
23	280	55	11k
24	315	56	12k
25	355	57	14k
26	400	58	16k
27	450	59	18k
28	500	60	THRU (20k)
29	560		
30	630		

**Table #4**  
Real Rotary Windup/down Accel

Data	Value	Data	Value
14	0.21	71	1.11
15	0.22	72	1.13
16	0.24	73	1.14
17	0.25	74	1.16
18	0.27	75	1.17
19	0.29	76	1.19
20	0.30	77	1.21
21	0.32	78	1.22
22	0.33	79	1.24
23	0.35	80	1.25
24	0.37	81	1.27
25	0.38	82	1.29
26	0.40	83	1.30
27	0.41	84	1.32
28	0.43	85	1.33
29	0.44	86	1.35
30	0.46	87	1.37
31	0.48	88	1.38
32	0.49	89	1.40
33	0.51	90	1.41
34	0.52	91	1.43
35	0.54	92	1.44
36	0.56	93	1.46
37	0.57	94	1.48
38	0.59	95	1.49
39	0.60	96	1.51
40	0.62	97	1.52
41	0.63	98	1.54
42	0.65	99	1.56
43	0.67	100	1.57
44	0.68	101	1.59
45	0.70	102	1.60
46	0.71	103	1.62
47	0.73	104	1.63
48	0.75	105	1.65
49	0.76	106	1.67
50	0.78	107	1.68
51	0.79	108	1.70
52	0.81	109	1.71
53	0.83	110	1.73
54	0.84	111	1.75
55	0.86	112	1.76
56	0.87	113	1.78
57	0.89	114	1.79
58	0.90	115	1.81
59	0.92	116	1.83
60	0.94	117	1.84
61	0.95	118	1.86
62	0.97	119	1.87
63	0.98	120	1.89
64	1.00	121	1.90
65	1.02	122	1.92
66	1.03	123	1.94
67	1.05	124	1.95
68	1.06	125	1.97
69	1.08	126	1.98
70	1.10	127	2.00



**Table #5**  
Real Rotary Woofer Speed  
Slow [rpm]

Data	Value	Data	Value
0	0.0	64	44.8
1	22.7	65	45.4
2	23.0	66	46.1
3	23.3	67	46.7
4	23.7	68	47.3
5	24.0	69	47.9
6	24.3	70	48.6
7	24.6	71	49.2
8	24.9	72	49.8
9	25.2	73	50.5
10	25.5	74	51.1
11	25.9	75	51.7
12	26.2	76	52.4
13	26.5	77	53.0
14	26.8	78	53.6
15	27.1	79	54.3
16	27.4	80	54.9
17	27.8	81	55.5
18	28.1	82	56.1
19	28.4	83	56.8
20	28.7	84	57.4
21	29.0	85	58.0
22	29.3	86	58.7
23	29.7	87	59.3
24	30.0	88	59.9
25	30.3	89	60.6
26	30.6	90	61.2
27	30.9	91	61.8
28	31.2	92	62.5
29	31.5	93	63.1
30	31.9	94	63.7
31	32.2	95	64.3
32	32.5	96	65.0
33	32.8	97	65.6
34	33.1	98	66.2
35	33.4	99	66.9
36	33.8	100	67.5
37	34.1	101	68.1
38	34.4	102	68.8
39	34.7	103	69.4
40	35.0	104	70.0
41	35.3	105	70.7
42	35.6	106	71.3
43	36.0	107	71.9
44	36.3	108	72.5
45	36.6	109	73.2
46	36.9	110	73.8
47	37.2	111	74.4
48	37.5	112	75.1
49	37.9	113	75.7
50	38.2	114	76.3
51	38.5	115	77.0
52	38.8	116	77.6
53	39.1	117	78.2
54	39.4	118	78.9
55	39.7	119	79.5
56	40.1	120	80.1
57	40.4	121	80.7
58	41.0	122	82.0
59	41.6	123	83.3
60	42.3	124	84.5
61	42.9	125	85.8
62	43.5	126	87.1
63	44.2	127	88.3

**Table #6**  
Real Rotary Horn Speed  
Slow [rpm]

Data	Value	Data	Value
0	0.0	64	45.4
1	23.0	65	46.1
2	23.3	66	46.7
3	23.7	67	47.3
4	24.0	68	47.9
5	24.3	69	48.6
6	24.6	70	49.2
7	24.9	71	49.8
8	25.2	72	50.5
9	25.5	73	51.1
10	25.9	74	51.7
11	26.2	75	52.4
12	26.5	76	53.0
13	26.8	77	53.6
14	27.1	78	54.3
15	27.4	79	54.9
16	27.8	80	55.5
17	28.1	81	56.1
18	28.4	82	56.8
19	28.7	83	57.4
20	29.0	84	58.0
21	29.3	85	58.7
22	29.7	86	59.3
23	30.0	87	59.9
24	30.3	88	60.6
25	30.6	89	61.2
26	30.9	90	61.8
27	31.2	91	62.5
28	31.5	92	63.1
29	31.9	93	63.7
30	32.2	94	64.3
31	32.5	95	65.0
32	32.8	96	65.6
33	33.1	97	66.2
34	33.4	98	66.9
35	33.8	99	67.5
36	34.1	100	68.1
37	34.4	101	68.8
38	34.7	102	69.4
39	35.0	103	70.0
40	35.3	104	70.7
41	35.6	105	71.3
42	36.0	106	71.9
43	36.3	107	72.5
44	36.6	108	73.2
45	36.9	109	73.8
46	37.2	110	74.4
47	37.5	111	75.1
48	37.9	112	75.7
49	38.2	113	76.3
50	38.5	114	77.0
51	38.8	115	77.6
52	39.1	116	78.2
53	39.4	117	78.9
54	39.7	118	79.5
55	40.1	119	80.1
56	40.4	120	80.7
57	41.0	121	82.0
58	41.6	122	83.3
59	42.3	123	84.5
60	42.9	124	85.8
61	43.5	125	87.1
62	44.2	126	88.3
63	44.8	127	89.6

**Table #7**  
Real Rotary Woofer Speed  
Fast [rpm]

Data	Value	Data	Value
1	189.3	65	378.5
2	191.8	66	383.6
3	194.3	67	388.6
4	196.8	68	393.7
5	199.4	69	398.7
6	201.9	70	403.7
7	204.4	71	408.8
8	206.9	72	413.8
9	209.4	73	418.9
10	212.0	74	423.9
11	214.5	75	429.0
12	217.0	76	434.0
13	219.5	77	439.1
14	222.1	78	444.1
15	224.6	79	449.2
16	227.1	80	454.2
17	229.6	81	459.3
18	232.2	82	464.3
19	234.7	83	469.4
20	237.2	84	474.4
21	239.7	85	479.5
22	242.2	86	484.5
23	244.8	87	489.5
24	247.3	88	494.6
25	249.8	89	499.6
26	252.3	90	504.7
27	254.9	91	509.7
28	257.4	92	514.8
29	259.9	93	519.8
30	262.4	94	524.9
31	265.0	95	529.9
32	267.5	96	535.0
33	270.0	97	540.0
34	272.5	98	545.1
35	275.1	99	550.1
36	277.6	100	555.2
37	280.1	101	560.2
38	282.6	102	565.2
39	285.1	103	570.3
40	287.7	104	575.3
41	290.2	105	580.4
42	292.7	106	585.4
43	295.2	107	590.5
44	297.8	108	595.5
45	300.3	109	600.6
46	302.8	110	605.6
47	305.3	111	610.7
48	307.9	112	615.7
49	310.4	113	620.8
50	312.9	114	625.8
51	315.4	115	630.9
52	318.0	116	635.9
53	320.5	117	640.9
54	323.0	118	646.0
55	328.0	119	656.1
56	333.1	120	666.2
57	338.1	121	676.3
58	343.2	122	686.4
59	348.2	123	696.5
60	353.3	124	706.6
61	358.3	125	716.7
62	363.4	126	726.7
63	368.4	127	736.8
64	373.5		

**Table #8**  
Real Rotary Horn Speed Fast  
[rpm]

Data	Value	Data	Value
1	209.4	65	418.9
2	212.0	66	423.9
3	214.5	67	429.0
4	217.0	68	434.0
5	219.5	69	439.1
6	222.1	70	444.1
7	224.6	71	449.2
8	227.1	72	454.2
9	229.6	73	459.3
10	232.2	74	464.3
11	234.7	75	469.4
12	237.2	76	474.4
13	239.7	77	479.5
14	242.2	78	484.5
15	244.8	79	489.5
16	247.3	80	494.6
17	249.8	81	499.6
18	252.3	82	504.7
19	254.9	83	509.7
20	257.4	84	514.8
21	259.9	85	519.8
22	262.4	86	524.9
23	265.0	87	529.9
24	267.5	88	535.0
25	270.0	89	540.0
26	272.5	90	545.1
27	275.1	91	550.1
28	277.6	92	555.2
29	280.1	93	560.2
30	282.6	94	565.2
31	285.1	95	570.3
32	287.7	96	575.3
33	290.2	97	580.4
34	292.7	98	585.4
35	295.2	99	590.5
36	297.8	100	595.5
37	300.3	101	600.6
38	302.8	102	605.6
39	305.3	103	610.7
40	307.9	104	615.7
41	310.4	105	620.8
42	312.9	106	625.8
43	315.4	107	630.9
44	318.0	108	635.9
45	320.5	109	640.9
46	323.0	110	646.0
47	328.0	111	656.1
48	333.1	112	666.2
49	338.1	113	676.3
50	343.2	114	686.4
51	348.2	115	696.5
52	353.3	116	706.6
53	358.3	117	716.7
54	363.4	118	726.7
55	368.4	119	736.8
56	373.5	120	746.9
57	378.5	121	757.0
58	383.6	122	767.1
59	388.6	123	777.2
60	393.7	124	787.3
61	398.7	125	797.4
62	403.7	126	807.5
63	408.8	127	817.6
64	413.8		

**Table #9**  
**Reverb Time [s]**

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

**Table #10**  
**Delay Time(0.1–200.0 [ms])**

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

**Table #11**  
**VCM Phaser Speed [Hz]**

Data	Value	Data	Value	Data	Value	Data	Value
0	0.100	64	0.334	128	1.062	192	3.365
1	0.103	65	0.342	129	1.083	193	3.449
2	0.105	66	0.347	130	1.104	194	3.491
3	0.108	67	0.357	131	1.125	195	3.575
4	0.110	68	0.363	132	1.146	196	3.659
5	0.113	69	0.368	133	1.167	197	3.701
6	0.116	70	0.373	134	1.188	198	3.785
7	0.118	71	0.379	135	1.209	199	3.827
8	0.121	72	0.389	136	1.230	200	3.911
9	0.124	73	0.394	137	1.251	201	3.995
10	0.126	74	0.400	138	1.272	202	4.080
11	0.129	75	0.410	139	1.304	203	4.122
12	0.131	76	0.415	140	1.325	204	4.206
13	0.134	77	0.426	141	1.346	205	4.290
14	0.137	78	0.431	142	1.367	206	4.374
15	0.139	79	0.442	143	1.410	207	4.458
16	0.142	80	0.447	144	1.430	208	4.500
17	0.145	81	0.457	145	1.451	209	4.584
18	0.147	82	0.463	146	1.472	210	4.668
19	0.150	83	0.473	147	1.493	211	4.752
20	0.152	84	0.478	148	1.535	212	4.837
21	0.155	85	0.489	149	1.556	213	4.921
22	0.158	86	0.499	150	1.577	214	5.047
23	0.160	87	0.510	151	1.619	215	5.131
24	0.163	88	0.515	152	1.640	216	5.215
25	0.166	89	0.526	153	1.682	217	5.299
26	0.168	90	0.536	154	1.703	218	5.383
27	0.171	91	0.547	155	1.724	219	5.551
28	0.173	92	0.557	156	1.767	220	5.636
29	0.179	93	0.568	157	1.808	221	5.720
30	0.181	94	0.578	158	1.829	222	5.804
31	0.184	95	0.589	159	1.872	223	5.888
32	0.187	96	0.599	160	1.893	224	6.056
33	0.192	97	0.610	161	1.935	225	6.140
34	0.195	98	0.620	162	1.977	226	6.224
35	0.200	99	0.631	163	2.000	227	6.393
36	0.202	100	0.641	164	2.040	228	6.477
37	0.205	101	0.652	165	2.082	229	6.561
38	0.210	102	0.668	166	2.124	230	6.729
39	0.213	103	0.683	167	2.145	231	6.813
40	0.218	104	0.694	168	2.187	232	6.981
41	0.221	105	0.704	169	2.229	233	7.066
42	0.226	106	0.715	170	2.271	234	7.234
43	0.229	107	0.725	171	2.313	235	7.318
44	0.234	108	0.747	172	2.355	236	7.486
45	0.237	109	0.758	173	2.397	237	7.654
46	0.242	110	0.768	174	2.439	238	7.774
47	0.247	111	0.789	175	2.503	239	7.907
48	0.250	112	0.799	176	2.544	240	8.075
49	0.255	113	0.810	177	2.587	241	8.159
50	0.260	114	0.831	178	2.629	242	8.327
51	0.265	115	0.841	179	2.671	243	8.496
52	0.271	116	0.862	180	2.734	244	8.664
53	0.276	117	0.873	181	2.776	245	8.832
54	0.281	118	0.894	182	2.860	246	9.000
55	0.287	119	0.904	183	2.902	247	9.168
56	0.289	120	0.925	184	2.944	248	9.337
57	0.294	121	0.936	185	2.986	249	9.505
58	0.300	122	0.957	186	3.028	250	9.673
59	0.308	123	0.967	187	3.070	251	9.841
60	0.310	124	0.988	188	3.154	252	10.00
61	0.318	125	1.000	189	3.196		
62	0.323	126	1.030	190	3.280		
63	0.329	127	1.051	191	3.323		

**Table #12**  
**Compressor Attack Time [ms]**

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
20	50
21	60
22	70
23	80
24	100
25	120
26	140
27	160
28	180
29	200

**Table #13**  
**Compressor Release Time [ms]**

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	230
14	340
15	680
16	850
17	1000
18	1200
19	1500
20	1700
21	2000
22	2400
23	3000

**Table #14**  
**Compressor Ratio**

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

**Table #15**  
**VCM EQ Frequency [Hz]**

Data	Value	Data	Value	Data	Value
0	16.0	46	224	92	3.15k
1	17.0	47	236	93	3.35k
2	18.0	48	250	94	3.55k
3	19.0	49	265	95	3.75k
4	20.0	50	280	96	4.00k
5	21.2	51	300	97	4.25k
6	22.4	52	315	98	4.50k
7	23.6	53	335	99	4.75k
8	25.0	54	355	100	5.00k
9	26.5	55	375	101	5.30k
10	28.0	56	400	102	5.60k
11	30.0	57	425	103	6.00k
12	31.5	58	450	104	6.30k
13	33.5	59	475	105	6.70k
14	35.5	60	500	106	7.10k
15	37.5	61	530	107	7.50k
16	40.0	62	560	108	8.00k
17	42.5	63	600	109	8.50k
18	45.0	64	630	110	9.00k
19	47.5	65	670	111	9.50k
20	50.0	66	710	112	10.0k
21	53.0	67	750	113	10.6k
22	56.0	68	800	114	11.2k
23	60.0	69	850	115	11.8k
24	63.0	70	900	116	12.5k
25	67.0	71	950	117	13.2k
26	71.0	72	1.00k	118	14.0k
27	75.0	73	1.06k	119	15.0k
28	80.0	74	1.12k	120	16.0k
29	85.0	75	1.18k	121	17.0k
30	90.0	76	1.25k	122	18.0k
31	95.0	77	1.32k	123	19.0k
32	100	78	1.40k	124	20.0k
33	106	79	1.50k	125	21.2k
34	112	80	1.60k	126	22.4k
35	118	81	1.70k	127	23.6k
36	125	82	1.80k	128	25.0k
37	132	83	1.90k	129	26.5k
38	140	84	2.00k	130	28.0k
39	150	85	2.12k	131	30.0k
40	160	86	2.24k	132	31.5k
41	170	87	2.36k	133	33.5k
42	180	88	2.50k	134	35.5k
43	190	89	2.65k	135	37.5k
44	200	90	2.80k	136	40.0k
45	212	91	3.00k		

**Table #16**  
**VCM EQ Q**

Data	Value
0	0.50
1	0.53
2	0.56
3	0.59
4	0.63
5	0.67
6	0.71
7	0.75
8	0.79
9	0.84
10	0.89
11	0.94
12	1.00
13	1.06
14	1.12
15	1.19
16	1.26
17	1.33
18	1.41
19	1.50
20	1.59
21	1.68
22	1.78
23	1.89
24	2.00
25	2.12
26	2.24
27	2.38
28	2.52
29	2.67
30	2.83
31	3.00
32	3.17
33	3.36
34	3.56
35	3.78
36	4.00
37	4.24
38	4.49
39	4.76
40	5.04
41	5.34
42	5.66
43	5.99
44	6.35
45	6.73
46	7.13
47	7.55
48	8.00
49	8.48
50	8.98
51	9.51
52	10.08
53	10.68
54	11.31
55	11.99
56	12.70
57	13.45
58	14.25
59	15.10
60	16.00

# MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI / Formato de datos MIDI / MIDIデータフォーマット

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.  
 「MIDIデータフォーマット」は、データ/値を10進数や2進数、16進数で表現しています。16進数の場合は数値のあと(または列の頭)にH(Hexadecimal)が付いています。また、"n"は任意の整数を表します。データ/値を入力する場合は、以下のテーブルをご参照ください。

Decimal (10進)	Hexadecimal (16進)	Binary (2進)	Decimal (10進)	Hexadecimal (16進)	Binary (2進)	Decimal (10進)	Hexadecimal (16進)	Binary (2進)	Decimal (10進)	Hexadecimal (16進)	Binary (2進)
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)/Oaaaaaaa (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/0ddddd denotes the data/value.
- 上記のテーブル以外でも、たとえば、144~159(10進数)/9nH/10010000~10011111(2進数)は、それぞれ(1~16)チャンネルごとのノートオンメッセージを示します。176~191/BnH/10110000~10111111は、それぞれ(1~16)チャンネルごとのコントロールチェンジメッセージを示します。192~207/CnH/11000000~11001111は、それぞれ(1~16)チャンネルごとのプログラムチェンジメッセージを示します。240/FOH/11110000はシステムエクスクルーシブメッセージの始まりを示します。247/F7H/11110111はシステムエクスクルーシブメッセージの終わりを示します。
- aaH (16進数)/Oaaaaaaa (2進数)はデータのアドレスを示します。アドレスは、High、MidとLowがあります。
- bbH/0bbbbbbbはバイトカウントを示します。
- ccH/0cccccccはチェックサムを示します。
- ddH/0dddddはデータ/値を示します。

## MIDI CHANNEL MESSAGE (1)

Application Range	MIDI, Internal Sequencer
Model	CLP-885, CLP-875, CLP-845, CLP-835, CLP-895GP, CLP-865GP

MIDI Events	Status byte	1st Data byte		2nd Data byte		MIDI Formats	MIDI Reception			MIDI Transmission	
	Status	Data (Hex)	Parameter	Data (Hex)	Parameter		Song	R1 R2 L	Keyboard (All manually played parts)	Panel	Song
Key Off	8nH (n: Channel Number)	kk	Key no. (0-127)	vv	Velocity (64)	[GM1] [GM2]	○	○	○	○	○
Key On	9nH (n: Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	[GM1] [GM2]	○	○	○	○	○
Control Change	BnH	0 (00H)	Bank Select MSB	0 (00H) 64 (40H) 118 (76H) 119 (77H) 120 (78H) 121 (79H) 126 (7EH) 127 (7FH)	Normal SFX Voice GS Rhythm GS Normal GM2 Rhythm GM2 Normal SFX kit Drum kit	[GM2]	○	○	×	○	○
		1 (01H)	Modulation	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	×	○
		5 (05H)	Portamento Time	0-127 (00H...7FH)	Data	[GM2]	○	○	○	×	○
		6 (06H)	Data Entry MSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	○
		7 (07H)	Main Volume	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	○	○
		10 (0AH)	Panpot	0-127 (00H...7FH)	L64...C...R63	[GM1] [GM2]	○	○	○	○	○
		11 (0BH)	Expression	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	○	○
		19 (13H)	Key Acceleration	0-127 (00H...7FH)	Key Acceleration (0-127)		○	○	○	○	○
		32 (20H)	Bank Select LSB	0-127 (00H...7FH)	Data	[GM2]	○	○	×	○	○
		38 (26H)	Data Entry LSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	○
		64 (40H)	Sustain (Damper)	0-127 (00H...7FH)	Data	[GM1] [GM2]	○	○	○	○	○
		65 (41H)	Portamento	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	○	○	×	○
		66 (42H)	Sostenuto	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	○	○	○	○
		67 (43H)	Soft Pedal	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	[GM2]	○	○	○	○	○
		71 (47H)	Harmonic Content	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	○
		72 (48H)	Release Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	×	○
		73 (49H)	Attack Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	×	○
		74 (4AH)	Brightness	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	○	○
		75 (4BH)	Decay Time	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	×	○
		76 (4CH)	Vibrate Rate	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	×	○
		77 (4DH)	Vibrate Depth	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	×	○
		78 (4EH)	Vibrate Delay	0-127 (00H...7FH)	-64...0...+63	[GM2]	○	○	○	×	○
		84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)		○	○	×	×	○
		88 (58H)	High-Res Velocity Prefix	0-127 (00H...7FH)	Velocity (0-127)		○	○	○	○	○
		91 (5BH)	Effect1 Depth (Reverb Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	○
		93 (5DH)	Effect3 Depth (Chorus Send Level)	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	○
		94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data		○	○	○	×	○
		96 (60H)	RPN Increment	-	-	The data byte is ignored.	○	○	×	×	○
		97 (61H)	RPN Decrement	-	-	The data byte is ignored.	○	○	×	×	○
		98 (62H)	NRPNS LSB	0-127 (00H...7FH)	Data		○	×	×	×	○
		99 (63H)	NRPNS MSB	0-127 (00H...7FH)	Data		○	×	×	×	○
		100 (64H)	RPN LSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	○
101 (65H)	RPN MSB	0-127 (00H...7FH)	Data	[GM2]	○	○	○	○	○		
Mode Message	BnH (n: Channel Number)	120 (78H)	All Sound Off	0 (00H)	Data	[GM2]	○	○	○	×	○
		121 (79H)	Reset All Controllers	0 (00H)	Data	[GM1] [GM2]	○	×	×	×	○
		122 (7AH)	Local Control	0 (00H) 127 (7FH)	OFF ON				○	×	×
		123 (7BH)	All Note Off	0 (00H)	Data	[GM1] [GM2]	○	○	○	×	○
		124 (7CH)	Omni Off	0 (00H)	Data	[GM2]	○	×	×	×	○
		125 (7DH)	Omni On	0 (00H)	Data	[GM2]	○	×	×	×	○
		126 (7EH)	Mono	0-16 (00H...10H)	Data	[GM2]	○	×	×	×	○
		127 (7FH)	Poly	0 (00H)	Data	[GM2]	○	×	×	×	○
Program Change	CnH (n: Channel Number)	pp (00H...7FH)	Voice number (0-127)	-	-	[GM1] [GM2]	○	○	×	○	
Channel After Touch	DnH (n: Channel Number)	vv (00H...7FH)	Data	-	-	[GM1] [GM2]	○	×	×	○	
Polyphonic After Touch	AnH (n: Channel Number)	kk (00H...7FH)	Key no. (0-127)	vv (00H...7FH)	Data		○	○	○	○	
Pitch Bend Change	EnH (n: Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	[GM1] [GM2]	○	○	○	○	
Realtime Message	F8H	MIDI Clock	-	-	-			×		○	
	FAH	Start	-	-	-			○		○	
	FBH	Continue	-	-	-			×		×	
	FCH	Stop	-	-	-			○		○	
	FEH	Active Sens	-	-	-			○		○	
	FFH	System Reset	-	-	-			×		×	

\*1 Ignored when Bank Select MSB/LSB/Program Change are received in Keyboard mode.

\*1 Bank Select MSB/LSB/Program Changeは、Keyboardモードで受信されると無視されます。

## MIDI CHANNEL MESSAGE (2)

Application Range	MIDI, Internal Sequencer
Model	CLP-885, CLP-875, CLP-845, CLP-835, CLP-895GP, CLP-865GP

### Parameters controlled by NRPN (Non-Registered Parameter Numbers)

#### NRPN (ノンレジスタードパラメーターナンバー)対応パラメーター

NRPN		Data Entry		Parameter	Data Range	MIDI Formats	MIDI Reception			MIDI Transmission	
MSB	LSB	MSB	LSB				Song	R1 R2 L	Keyboard (All manually played parts)	Panel	Song
01H	08H	mmH	-	Vibrato Rate	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	09H	mmH	-	Vibrato Depth	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	0AH	mmH	-	Vibrato Delay	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	20H	mmH	-	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	21H	mmH	-	Low Pass Filter Resonance	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	30H	mmH	-	EQ BASS	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	31H	mmH	-	EQ TREBLE	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	34H	mmH	-	EQ BASS Frequency	mm: 04H-28H (32...2.0k [Hz])		○	×	×	×	○
01H	35H	mmH	-	EQ TREBLE Frequency	mm: 1CH-3AH (500...16.0k [Hz])		○	×	×	×	○
01H	63H	mmH	-	EG Attack Time	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	64H	mmH	-	EG Decay Time	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
01H	66H	mmH	-	EG Release	mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
14H	rrH	mmH	-	Drum Low Pass Filter Cutoff Frequency	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
15H	rrH	mmH	-	Drum Low Pass Filter Resonance	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
16H	rrH	mmH	-	Drum EG Attack Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
17H	rrH	mmH	-	Drum EG Decay Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
18H	rrH	mmH	-	Drum Pitch Coarse	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
19H	rrH	mmH	-	Drum Pitch Fine	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
1AH	rrH	mmH	-	Drum Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
1CH	rrH	mmH	-	Drum Pan	rr: drum instrument note number mm: 00H, 01H-40H-7FH (RND, L63...C...R63)		○	×	×	×	○
1DH	rrH	mmH	-	Drum Reverb Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
1EH	rrH	mmH	-	Drum Chorus Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
1FH	rrH	mmH	-	Drum Variation Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		○	×	×	×	○
24H	rrH	mmH	-	Drum HPF Cutoff Frequency	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		○	×	×	×	○
30H	rrH	mmH	-	Drum EQ Bass Gain	rr: drum instrument note number mm: 00H-7FH (0...127)		×	×	×	×	○
31H	rrH	mmH	-	Drum EQ Treble Gain	rr: drum instrument note number mm: 00H-7FH (0...127)		×	×	×	×	○
34H	rrH	mmH	-	Drum EQ Bass Frequency	rr: drum instrument note number mm: 04H-28H (32...2.0k [Hz])		×	×	×	×	○
35H	rrH	mmH	-	Drum EQ Treble Frequency	rr: drum instrument note number mm: 1CH-3AH (500...16.0k [Hz])		×	×	×	×	○
40H	rrH	mmH	-	Drum VELOCITY PITCH SENS.	rr: drum instrument note number mm: 00H-0FH (0...15)		×	×	×	×	○
41H	rrH	mmH	-	Drum VELOCITY LPF CUTOFF SENS.	rr: drum instrument note number mm: 00H-0FH (0...15)		×	×	×	×	○

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 MSB: 14H-1FH(ドラム用)はそのパートが、ドラムモードのとき受信します。

Data Entry LSB値は無視します。

### Parameters controlled by RPN (Registered Parameter Numbers)

#### RPN (レジスタードパラメーターナンバー)対応パラメーター

RPN		Data Entry		Parameter	Data Range	MIDI Formats	MIDI Reception (respond/ignored)			MIDI Transmission (generated data)	
MSB	LSB	MSB	LSB				Song	R1 R2 L	Keyboard (All manually played parts)	Panel	Song
00H	00H	mmH	-	Pitch Bend Sensitivity	mm: 00H-18H (0...+24 [semitones])	[GM1] [GM2]	○	○	○	○	○
00H	01H	mmH	llH	Fine Tune	mm ll: 00H 00H -100 [cent] ... mm ll: 40H 00H 0 [cent] ... mm ll: 7FH 7FH 100 [cent]	[GM1] [GM2]	○	○	○	○	○
00H	02H	mmH	-	Coarse Tune	mm: 28H-40H-58H (-24...0...+24 [semitones])	[GM1] [GM2]	○	○	○	×	○
00H	05H	mmH	llH	Modulation Sensitivity	mm: Specified in semitone steps ll: Specified in 100/128 cent steps	[GM2]	○	○	○	×	○
7FH	7FH	-	-	Null	-	[GM2]	○	○	○	×	○

## MIDI PARAMETER CHANGE TABLE

Application Range	MIDI, Internal Sequencer
Model	CLP-885, CLP-875, CLP-845, CLP-835, CLP-895GP, CLP-865GP

- \* Not received when Receive Parameter SysEx is set to off.
- \* Not transmitted when Transmit Parameter SysEx is set to off.
- \* Receive System Exclusive Messageの設定がOFFのときには受信しません。
- \* Transmit System Exclusive Messageの設定がOFFのときには送信しません。

### MIDI Parameter Change Table (XG SYSTEM)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission			
						Song	R1 R2 L	Keyboard	Panel	Song		
00	00	00	4	00-0F 00-0F 00-0F 00-0F	MASTER TUNE	-102.4...0...+102.3 [cent] 1st bit3-0→bit15-12 2nd bit3-0→bit11-8 3rd bit3-0→bit7-4 4th bit3-0→bit3-0	*Panel setting value		○	×	○	
		04	1	00-7F	MASTER VOLUME	0...127	7F	○	×	×	×	○
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	×	×	×	×	×
		06	1	28-58	TRANSCOPE	-24...0...+24 [semitones]	40	○	×	×	×	○
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	-	○	×	×	×	○
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	○	×	×	×	○
		7F	1	00	ALL PARAMETER RESET	00=ON	-	○	×	×	×	×

TOTAL SIZE 07

### MIDI Parameter Change Table (SYSTEM INFORMATION)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission		
						Song	R1 R2 L	Keyboard	Panel	Song	
01	00	00 ... 0D	E	20-7F ... 20-7F	Model Name 1 ... Model Name 14	32...127 (ASCII CHARACTER) ... 32...127 (ASCII CHARACTER)	-	-	-	×	×
		0E	1		NOT USED						
		0F	1		NOT USED						

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.  
Dump Requestにより送信されます。受信は行いません。

### MIDI Parameter Change Table (EFFECT1)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission		
						Song	R1 R2 L	Keyboard	Panel	Song	
02	01	00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Type List	01 (=HALL1) 00		○	○	○
		02	1	00-7F	REVERB PARAMETER 1	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		03	1	00-7F	REVERB PARAMETER 2	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		04	1	00-7F	REVERB PARAMETER 3	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		05	1	00-7F	REVERB PARAMETER 4	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		06	1	00-7F	REVERB PARAMETER 5	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		07	1	00-7F	REVERB PARAMETER 6	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		08	1	00-7F	REVERB PARAMETER 7	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		09	1	00-7F	REVERB PARAMETER 8	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		0A	1	00-7F	REVERB PARAMETER 9	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		0B	1	00-7F	REVERB PARAMETER 10	*	Depends on Reverb Type	○ (Depends on Reverb Type)		×	○
		0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB (0...64...127)	40		○	×	○
		0D	1	01-7F	REVERB PAN	L63...C...R63	40		○	×	○

TOTAL SIZE 0E

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

TOTAL SIZE 06

Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission		
							Song	R1 R2 L	Keyboard	Panel	Song	
02	01	20	2	00-7F 00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	Refer to Effect Type List	41 (=CHORUS1) 00		○		○	○
		22	1	00-7F	CHORUS PARAMETER 1	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		23	1	00-7F	CHORUS PARAMETER 2	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		24	1	00-7F	CHORUS PARAMETER 3	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		25	1	00-7F	CHORUS PARAMETER 4	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		26	1	00-7F	CHORUS PARAMETER 5	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		27	1	00-7F	CHORUS PARAMETER 6	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		28	1	00-7F	CHORUS PARAMETER 7	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		29	1	00-7F	CHORUS PARAMETER 8	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		2A	1	00-7F	CHORUS PARAMETER 9	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		2B	1	00-7F	CHORUS PARAMETER 10	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB (0...64...127)	40		○		×	○
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40		○		×	○
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00		○		×	○
TOTAL SIZE		0F										

02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Type List	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		31	1	00-7F	CHORUS PARAMETER 12	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		32	1	00-7F	CHORUS PARAMETER 13	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		33	1	00-7F	CHORUS PARAMETER 14	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		34	1	00-7F	CHORUS PARAMETER 15	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
		35	1	00-7F	CHORUS PARAMETER 16	*	Depends on Chorus Type		○ (Depends on Chorus Type)		×	○
TOTAL SIZE		06										

Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission		
							Song	R1 R2 L	Keyboard	Panel	Song	
02	01	40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	Refer to Effect Type List	05 (=DELAY L, C, R) 00		○		×	○
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		44	2	00-7F 00-7F	VARIATION PARAMETER 2 MSB VARIATION PARAMETER 2 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		46	2	00-7F 00-7F	VARIATION PARAMETER 3 MSB VARIATION PARAMETER 3 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		48	2	00-7F 00-7F	VARIATION PARAMETER 4 MSB VARIATION PARAMETER 4 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		4A	2	00-7F 00-7F	VARIATION PARAMETER 5 MSB VARIATION PARAMETER 5 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		4C	2	00-7F 00-7F	VARIATION PARAMETER 6 MSB VARIATION PARAMETER 6 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		4E	2	00-7F 00-7F	VARIATION PARAMETER 7 MSB VARIATION PARAMETER 7 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		50	2	00-7F 00-7F	VARIATION PARAMETER 8 MSB VARIATION PARAMETER 8 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		52	2	00-7F 00-7F	VARIATION PARAMETER 9 MSB VARIATION PARAMETER 9 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		56	1	00-7F	VARIATION RETURN	-∞dB...0dB...+6dB (0...64...127)	40		○		×	○
		57	1	01-7F	VARIATION PAN	L63...C...R63	40		○		×	○
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00		○		×	○
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB...0dB...+6dB (0...64...127)	00		○		×	○
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00		○		×	○
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F		○		×	○
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40		○		×	○
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40		○		×	○
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40		○		×	○
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40		○		×	○
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40		○		×	○
TOTAL SIZE		21										

02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Type List	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		71	1	00-7F	VARIATION PARAMETER 12	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		72	1	00-7F	VARIATION PARAMETER 13	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		73	1	00-7F	VARIATION PARAMETER 14	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		74	1	00-7F	VARIATION PARAMETER 15	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
		75	1	00-7F	VARIATION PARAMETER 16	*	Depends on Variation Type		○ (Depends on Variation Type)		×	○
TOTAL SIZE		06										



## MIDI Parameter Change Table (MULTI EQ)

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

\* MULTI EQはXG SYSTEM ONでリセットされません。

Address (H)		Size (H)	Data (H)	Parameter	Description	MIDI Reception			MIDI Transmission		
						Song	R1 R2 L	Keyboard	Panel	Song	
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic				×	×
		01	1	34-4C	EQ GAIN1	-12...0...+12 [dB]				×	×
		02	1	04-2B	EQ FREQUENCY1	32...2.0k [Hz]				×	×
		03	1	01-78	EQ Q1	0.1...12.0				×	×
		04	1	00-01	EQ SHAPE1	shelving, peaking				×	×
		05	1	34-4C	EQ GAIN2	-12...0...+12 [dB]				×	×
		06	1	0E-36	EQ FREQUENCY2	100...10.0k [Hz]				×	×
		07	1	01-78	EQ Q2	0.1...12.0				×	×
		08	1		NOT USED					-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12 [dB]				×	×
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k [Hz]				×	×
		0B	1	01-78	EQ Q3	0.1...12.0				×	×
		0C	1		NOT USED					-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12 [dB]				×	×
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k [Hz]				×	×
		0F	1	01-78	EQ Q4	0.1...12.0				×	×
		10	1		NOT USED					-	-
		11	1	34-4C	EQ GAIN5	-12...0...+12 [dB]				×	×
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k [Hz]				×	×
		13	1	01-78	EQ Q5	0.1...12.0				×	×
		14	1	00-01	EQ SHAPE5	shelving, peaking				×	×

TOTAL SIZE 15

## MIDI Parameter Change Table (EFFECT2)

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

\* EFFECT2はXG SYSTEM ONでリセットされません。

Address (H)		Size (H)	Data (H)	Parameter	Description	MIDI Reception			MIDI Transmission		
						Song	R1 R2 L	Keyboard	Panel	Song	
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Type List				○	○
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	*				○	○
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	*				○	○
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	*				○	○
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	*				○	○
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	*				○	○
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	*				○	○
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	*				○	○
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	*				○	○
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	*				○	○
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	*				○	○
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)				○	○
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63				○	○
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63				○	○
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63				○	○
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63				○	○
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63				○	○

TOTAL SIZE 12

		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Type List				○	○
		21	1	00-7F	INSERTION EFFECT PARAMETER 12	*				○	○
		22	1	00-7F	INSERTION EFFECT PARAMETER 13	*				○	○
		23	1	00-7F	INSERTION EFFECT PARAMETER 14	*				○	○
		24	1	00-7F	INSERTION EFFECT PARAMETER 15	*				○	○
		25	1	00-7F	INSERTION EFFECT PARAMETER 16	*				○	○

TOTAL SIZE 6

		30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Type List				○	○
		32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB	*				○	○
		34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB	*				○	○
		36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB	*				○	○
		38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB	*				○	○
		3A	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB	*				○	○
		3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB	*				○	○

		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB	Refer to Effect Type List *		○ (Depends on Insertion Type)	×	○
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	*		○ (Depends on Insertion Type)	×	○
		42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	*		○ (Depends on Insertion Type)	○	○

TOTAL SIZE 14

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

アドレスの2バイト目をインサージョンエフェクト番号とします。  
n: インサージョンエフェクト番号

The Insertion Effect No. range is from 0 to 11. Values outside the range are handled as unknown and ignored.  
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.

本機種種のインサージョンエフェクト番号の範囲は0~11です。範囲外の値については未知のイベントとして扱われ、無視されます。  
MSBが必要なEFFECT TYPE使用時は、アドレス02~0BのPARAMETERを受信し、アドレス30~42のPARAMETERは受信しません。  
MSBが必要なEFFECT TYPE使用時は、アドレス30~42のPARAMETERを受信し、アドレス02~0BのPARAMETERは受信しません。  
EFFECT TYPEの情報を含むバルクの送信は、アドレス02~0BのPARAMETERが必ず送信されますが、MSBが必要なEFFECT TYPEの場合は、バルク受信においてもアドレス02~0BのPARAMETERの受信をしません。

### MIDI Parameter Change Table (MULTI PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission		
						Song	R1 R2 L	Keyboard	Panel	Song	
08	nn	00	1	00-20	NOT USED		×	×	×	×	×
		01	1	00-7F	BANK SELECT MSB	0...127 part 10=7F, other parts=00	○	○	×	×	○
		02	1	00-7F	BANK SELECT LSB	0...127	○	○	×	×	○
		03	1	00-7F	PROGRAM NUMBER	1...128	○	○	×	×	○
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF Part No.	○	×	×	×	○
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	○	×	×	○
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	○	×	×	○
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1..2 part 10=02, other parts=00	00	○	×	×	○
		08	1	28-58	NOTE SHIFT	-24...0...+24 [semitones]	40	○	○	×	○
		09	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7 [Hz] 1st bit3-0 → bit7-4 2nd bit3-0 → bit3-0	08 00	○	○	×	○
		0B	1	00-7F	VOLUME	0...127	64	○	○	×	○
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	○	○	×	○
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	○	○	×	○
		0E	1	00-7F	PAN	RND, L63...C...R63	40	○	○	×	○
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	○	○	×	○
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	○	○	×	○
		11	1	00-7F	DRY LEVEL	0...127	7F	○	○	×	○
		12	1	00-7F	CHORUS SEND	0...127	00	○	○	×	○
		13	1	00-7F	REVERB SEND	0...127	28	○	○	×	○
		14	1	00-7F	VARIATION SEND	0...127	00	○	○	×	○
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	○	○	×	○
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	○	○	×	○
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	○	○	×	○
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	○	○	×	○
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	○	○	×	○
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	○	○	×	○
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	○	○	×	○
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	○	○	×	○
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24 [semitones]	40	○	○	×	○
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	○	×	○
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	○	×	○
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	○	○	×	○
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	○	○	×	○
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	○	○	×	○
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24 [semitones]	42	○	○	×	○
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	○	×	○
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	○	×	○
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	○	○	×	○
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	○	○	×	○
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	○	○	×	○

TOTAL SIZE 29

		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	○	×	×	×	○
		31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	○	×	×	×	○
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	○	×	×	×	○
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	○	×	×	×	○
		34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	○	×	×	×	○
		35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	○	×	×	×	○
		36	1	00-01	Rcv RPN	OFF, ON	01	○	×	×	×	○
		37	1	00-01	Rcv NRPN	OFF, ON	XG mode=01, GM mode=00	○	×	×	×	○
		38	1	00-01	Rcv MODULATION	OFF, ON	01	○	×	×	×	○
		39	1	00-01	Rcv VOLUME	OFF, ON	01	○	×	×	×	○
		3A	1	00-01	Rcv PAN	OFF, ON	01	○	×	×	×	○
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	○	×	×	×	○
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	○	×	×	×	○
		3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	○	×	×	×	○
		3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	○	×	×	×	○
		3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	○	×	×	×	○
		40	1	00-01	Rcv BANK SELECT	OFF, ON	01	○	×	×	×	○
		41	1	00-7F	SCALE TUNING C	-63...0...+63 [cent]	40	○	○	×	○	○
		42	1	00-7F	SCALE TUNING C#	-63...0...+63 [cent]	40	○	○	×	○	○
		43	1	00-7F	SCALE TUNING D	-63...0...+63 [cent]	40	○	○	×	○	○
		44	1	00-7F	SCALE TUNING D#	-63...0...+63 [cent]	40	○	○	×	○	○

		45	1	00-7F	SCALE TUNING E	-63...0...+63 [cent]	40		○	○	×		○	○
		46	1	00-7F	SCALE TUNING F	-63...0...+63 [cent]	40		○	○	×		○	○
		47	1	00-7F	SCALE TUNING F#	-63...0...+63 [cent]	40		○	○	×		○	○
		48	1	00-7F	SCALE TUNING G	-63...0...+63 [cent]	40		○	○	×		○	○
		49	1	00-7F	SCALE TUNING G#	-63...0...+63 [cent]	40		○	○	×		○	○
		4A	1	00-7F	SCALE TUNING A	-63...0...+63 [cent]	40		○	○	×		○	○
		4B	1	00-7F	SCALE TUNING A#	-63...0...+63 [cent]	40		○	○	×		○	○
		4C	1	00-7F	SCALE TUNING B	-63...0...+63 [cent]	40		○	○	×		○	○
		4D	1	28-58	CAT PITCH CONTROL	-24...0...+24 [semitones]	40		○	×	×		×	○
		4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40		○	×	×		×	○
		4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100 [%]	40		○	×	×		×	○
		50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00		○	×	×		×	○
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00		○	×	×		×	○
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00		○	×	×		×	○
		53	1	28-58	PAT PITCH CONTROL	-24...0...+24 [semitones]	40		○	×	×		×	○
		54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40		○	×	×		×	○
		55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100 [%]	40		○	×	×		×	○
		56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00		○	×	×		×	○
		57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00		○	×	×		×	○
		58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00		○	×	×		×	○
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10		○	○	×		○	○
		5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24 [semitones]	40		○	×	×		×	○
		5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40		○	×	×		×	○
		5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100 [%]	40		○	×	×		×	○
		5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00		○	×	×		×	○
		5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00		○	×	×		×	○
		5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00		○	×	×		×	○
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11		○	×	×		×	○
		61	2	28-58	AC2 PITCH CONTROL	-24...0...+24 [semitones]	40		○	×	×		×	○
		62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40		○	×	×		×	○
		63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100 [%]	40		○	×	×		×	○
		64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00		○	×	×		×	○
		65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00		○	×	×		×	○
		66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00		○	×	×		×	○
		67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00		○	○	×		×	○
		68	1	00-7F	PORTAMENTO TIME	0...127	00		○	○	×		×	○
		69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40		○	×	×		×	○
		6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40		○	×	×		×	○
		6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40		○	×	×		×	○
		6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40		○	×	×		×	○
		6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01		○	×	×		×	○
		6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F		○	×	×		×	○

TOTAL SIZE 3F

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

TOTAL SIZE 04

		74	1		NOT USED		-		-	-	-		-	-
		75	1		NOT USED		-		-	-	-		-	-
		76	1	04-28	EQ BASS FREQUENCY	32...2.0k [Hz]	0C		○	×	×		×	○
		77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k [Hz]	36		○	×	×		×	○
		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

0A	nn	40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 - 100 [%]	40		○	×	×		×	○
		41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100 [%]	40		○	×	×		×	○
		42	1	00-7F	CAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40		○	×	×		×	○
		43	1	00-7F	PAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40		○	×	×		×	○
		44	1	00-7F	AC1 OFFSET LEVEL CONTROL	-100 - 100 [%]	40		○	×	×		×	○
		45	1	00-7F	AC2 OFFSET LEVEL CONTROL	-100 - 100 [%]	40		○	×	×		×	○

TOTAL SIZE 06

nn = PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.  
ドラムボイスを含むパートの場合、以下のパラメーターは効果がかりません。

- BANK SELECT LSB
- PORTAMENTO
- MONO/POLY
- SCALE TUNING
- POLY AFTER TOUCH
- PITCH EG

## MIDI Parameter Change Table (DRUM SETUP)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception			MIDI Transmission			
						Song	R1 R2 L	Keyboard	Panel	Song		
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	○	×	×	×	○
		01	1	00-7F	PITCH FINE	-64...0...+63 [cent]	40	○	×	×	×	○
		02	1	00-7F	LEVEL	0...127	Depends on the note	○	×	×	×	○
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	Depends on the note	○	×	×	×	○
		04	1	00-7F	PAN	RND, L63...C...R63	Depends on the note	○	×	×	×	○
		05	1	00-7F	REVERB SEND	0...127	Depends on the note	○	×	×	×	○
		06	1	00-7F	CHORUS SEND	0...127	Depends on the note	○	×	×	×	○
		07	1	00-7F	VARIATION SEND	0...127	7F	○	×	×	×	○
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	○	×	×	×	○
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	○	×	×	×	○
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	○	×	×	×	○
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	○	×	×	×	○
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	○	×	×	×	○
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	○	×	×	×	○
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	○	×	×	×	○
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	○	×	×	×	○

TOTAL SIZE 10

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

TOTAL SIZE 0E

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

In the following cases, the Clavinova will initialize all Drum Setups.  
 XG SYSTEM ON received  
 GM SYSTEM ON received  
 GM LEVEL 2 SYSTEM ON received  
 GS RESET received  
 DRUM SETUP RESET received (only when in XG mode)

## NOTICE

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.

すべてのDrum Setupを以下の場合に初期化します。  
 XG SYSTEM ON受信  
 GM SYSTEM ON受信  
 GM LEVEL2 SYSTEM ON受信  
 GS RESET受信  
 DRUM SETUP RESET受信 (XG mode時)

## ご注意

Drum Setupがアサインされているパートのプログラムチェンジを受信すると、アサインされているDrum Setupは初期化されます。  
 複数のパートに同じDrum Setupがアサインされている場合、Drum Setupパラメーターの変更(プログラムチェンジを含む)は、アサインされているすべてのパートに反映します。



MIDI Event	Data Format	MIDI Formats	MIDI Reception			MIDI Transmission																													
			Song	R1 R2 L	Keyboard	Panel	Song																												
Channel Pressure (Aftertouch)	<p>F0 7F XN 09 01 0M PP RR ... F7</p> <p>11110000 F0 = Exclusive status                      01111111 7F = Universal Real Time                      0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored                      00001001 09 = Sub-ID #1 = Controller Destination Setting                      00000001 01 = Sub-ID #2 = Controller Type: 01 (Channel Pressure)                      0000mmmm 0M = MIDI Channel (00-0F)                      0pppppppp PP = Controlled Parameter                      0rrrrrrrr RR = Data                      ...                      11110111 F7 = End of Exclusive</p> <p>Make sure to set both the controlled parameter and the range.                      Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Control Parameter (pp)</th> <th>Data (RR)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H-58H</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450 cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table>	Control Parameter (pp)	Data (RR)	Description	Default value	pp=00 Pitch Control	28H-58H	-24...0...+24 semitones	40H	pp=01 Filter Cutoff Control	00H-7FH	-9600...0...+9450 cents	40H	pp=02 Amplitude Control	00H-7FH	-100...0...+100%	40H	pp=03 LFO Pitch Depth	00H-7FH	0...127	00H	pp=04 LFO Filter Depth	00H-7FH	0...127	00H	pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H	[GM2]	○	×	×	×	△ (Changed to XG, and output)
Control Parameter (pp)	Data (RR)	Description	Default value																																
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pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H																																
Controller (Control Change)	<p>F0 7F XN 09 03 0M CC PP RR ... F7</p> <p>11110000 F0 = Exclusive status                      01111111 7F = Universal Real Time                      0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored                      00001001 09 = Sub-ID #1 = Controller Destination Setting                      00000011 03 = Sub-ID #2 = Controller Type: 03 (Control Change)                      0000mmmm 0M = MIDI Channel (00-0F)                      0ccccccc CC = Controller Number (01H-1FH, 40H-5FH)                      0pppppppp PP = Controlled Parameter                      0rrrrrrrr RR = Range                      ...                      11110111 F7 = End of Exclusive</p> <p>Make sure to set both the controlled parameter and the range.                      Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Control Parameter (pp)</th> <th>Data (RR)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H-58H</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450 cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table>	Control Parameter (pp)	Data (RR)	Description	Default value	pp=00 Pitch Control	28H-58H	-24...0...+24 semitones	40H	pp=01 Filter Cutoff Control	00H-7FH	-9600...0...+9450 cents	40H	pp=02 Amplitude Control	00H-7FH	-100...0...+100%	40H	pp=03 LFO Pitch Depth	00H-7FH	0...127	00H	pp=04 LFO Filter Depth	00H-7FH	0...127	00H	pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H	[GM2]	○	×	×	×	△ (Changed to XG, and output)
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pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H																																
Key-Based Instrument Control	<p>F0 7F XN 0A 01 0M KK CC VV ... F7</p> <p>11110000 F0 = Exclusive status                      01111111 7F = Universal Real Time                      0xxxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored                      00001010 0A = Sub-ID #1 = Key-Based Instrument Control                      00000011 01 = Sub-ID #2 = Controller                      0000mmmm 0M = MIDI Channel (00-0F)                      0kkkkkkk KK = Key Number                      0ccccccc CC = Controller Number                      0vvvvvvv VV = Value                      ...                      11110111 F7 = End of Exclusive</p> <p>Make sure to set both the controlled number and the value.</p> <table border="1"> <thead> <tr> <th>Control Number (CC)</th> <th>Value (VV)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>CC=07H Volume</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>CC=0AH Pan</td> <td>00H-7FH</td> <td>L63...C...R63 (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5BH Reverb Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5DH Chorus Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> </tbody> </table>	Control Number (CC)	Value (VV)	Description	Default value	CC=07H Volume	00H-7FH	-100...0...+100%	40H	CC=0AH Pan	00H-7FH	L63...C...R63 (absolute)	(Preset value)	CC=5BH Reverb Send Level	00H-7FH	0...Max (absolute)	(Preset value)	CC=5DH Chorus Send Level	00H-7FH	0...Max (absolute)	(Preset value)	[GM2]	○	×	×	×	△ (Changed to XG, and output)								
Control Number (CC)	Value (VV)	Description	Default value																																
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CC=5DH Chorus Send Level	00H-7FH	0...Max (absolute)	(Preset value)																																

**System Exclusive Messages (Universal Non Realtime Messages)**  
 システムエクスクルーシブメッセージ (ユニバーサルノンリアルタイムメッセージ)

MIDI Event	Data Format	MIDI Formats	MIDI Reception			MIDI Transmission	
			Song	R1 R2 L	Keyboard	Panel	Song
GM1 System On	<p>F0 7E XN 09 01 F7</p> <p>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</p>	[GM1] [GM2]	○	×	×	×	△ (Changed to XG, and output)
GM2 System On	<p>F0 7E XN 09 03 F7</p> <p>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                      00000011 03 = Sub-ID #2 = General MIDI2 On                      11110111 F7 = End of Exclusive</p>	[GM2]	○	×	×	×	△ (Changed to XG, and output)
General MIDI System Off	<p>F0 7E XN 09 02 F7</p> <p>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                      00000010 02 = Sub-ID #2 = General MIDI Off                      11110111 F7 = End of Exclusive</p>	[GM1] [GM2]	○	×	×	×	△ (Changed to XG, and output)

MIDI Event	Data Format	MIDI Formats	MIDI Reception			MIDI Transmission	
			Song	R1 R2 L	Keyboard	Panel	Song
Scale/Octave Tuning	F0 7E XN 08 08 JJ GG MM SS ... 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 00001000 08 = Sub-ID #1 = MIDI Tuning Standard 00001000 08 = Sub-ID #2 = scale/octave tuning 1byte form 0jjjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0gggggggg GG = Channel byte 2 - bits 0 to 6 = channel 8 to 14 0mmmmmmmm MM = Channel byte 2 - bits 0 to 6 = channel 1 to 7 0ssssssss SS = 12 byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent ... 11110111 ... F7 = End of Exclusive	[GM2]	○	×	×	×	△ (Changed to XG, and output)

## System Exclusive Messages (2)

Application Range	MIDI, Internal Sequencer
Model	CLP-885, CLP-875, CLP-845, CLP-835, CLP-895GP, CLP-865GP

- \* Not received when Receive Parameter System Exclusive is set to off.
- \* Not transmitted when Transmit Parameter System Exclusive is set to off.
- \* Receive System Exclusive Messageの設定がOFFのときには受信しません。
- \* Transmit System Exclusive Messageの設定がOFFのときには送信しません。

## System Exclusive Messages (XG)

### システムエクスクルーシブメッセージ (XG)

MIDI Event	Data Format	MIDI Reception			MIDI Transmission	
		Song	R1 R2 L	Keyboard	Panel	Song
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 0hhhhhhhh hh = Address High 0mmmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd ddd = Data ... 11110111 F7 = End of Exclusive	○			○	
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 0aaaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhhh hh = Address High 0mmmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd ddd = Data :                   : 0ddddd ddd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	○			○	
XG Parameter Request	F0 43 3n 4C hh mm 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 0hhhhhhhh hh = Address High 0mmmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	○	×	×		×
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 0hhhhhhhh hh = Address High 0mmmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	○	×	×		×

## System Exclusive Messages (Others)

## システムエクスクルーシブメッセージ (その他)

MIDI Event	Data Format	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)	
		Song	R1 R2 L	Keyboard	Panel	Song
MIDI Master Tuning	F0 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n n= 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		○		×	×

## System Exclusive Messages (Preset Voice)

## システムエクスクルーシブメッセージ (パネルボイス関連)

MIDI Event	Data Format	MIDI Reception (effective or not for each part)			MIDI Transmission (generated data)	
		Song	R1 R2 L	Keyboard	Panel	Song
Key Off Sampling Depth	F0 43 73 01 50 11 0n 04 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000nnnn 0n = Channel (00-0F) 00000100 04 = Sub-ID (Key Off Sampling Depth) 0ddddd dd = Depth (00-50) 11110111 F7 = End of Exclusive	○	○	×	×	○
Soft Pedal Depth	F0 43 73 01 50 11 0n 05 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub-ID 00010001 11 = Sub-ID 0000nnnn 0n = Channel (00-0F) 00000101 05 = Sub-ID (Soft Pedal Depth) 0ddddd dd = Depth (00-7F) 11110111 F7 = End of Exclusive	○	○	×	○	○

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

\* 各Depth値のリセット値は40H=ボイスパラメーターとします。



Function...	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 - 16 O	1 - 16 O	
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 O 8nH,v=64	O 9nH,v=1-127 O 9nH,v=0 or 8nH	
After Touch Key's Ch's	O x	O O	
Pitch Bend	O	O 0 - 24 semi	*1
Control Change	0,32 O 1,5,11 x *2 7,10 O 19 O 6,38 O 64,66,67 O 65 x *2 71,74 O 72,73 x *2 84,94 x *2 88 O 91,93 O 96-97 x *2 98-99 x *2 100-101 O	O O O O O O O O O O O O O O O	Bank Select  Key Acceleration Data Entry Pedal Portamento Sound Controller Sound Controller  High-Res Velocity Prefix Effect Depth RPN Inc,Dec NRPN LSB,MSB RPN LSB,MSB
Prog Change : True #	O 0 - 127 *****	O 0 - 127	
System Exclusive	O	O	
Common : Song Pos. : Song Sel. : Tune	x x x	x x x	
System : Clock Real Time: Commands	O O	x 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	O (120,126,127) O (121) O (122) O (123-125) O x	
Notes: *1 For some Voices, the pitch may not be changed according to the pitch bend setting range. *2 These Control Change messages cannot be transmitted by panel operations, but can be transmitted by Song playback data.			

Mode 1 : OMNI ON , POLY                      Mode 2 : OMNI ON , MONO                      O : Yes  
 Mode 3 : OMNI OFF, POLY                      Mode 4 : OMNI OFF, MONO                      x : No