



YAMAHA

Clavinova®

CGP-1000

Data List / Daten-Liste / Liste des données / Lista de datos

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

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Piano	GrandPiano1	0	122	1	Natural!	
	GrandPiano2	0	122	2	Natural!	
	BrightPiano	0	123	1	Natural!	
	MellowPiano	0	124	1	Natural!	
	RockPiano	0	124	3	Natural!	
	HonkyTonk	0	122	4	Natural!	
	Oct.Piano1	0	123	4	Natural!	
	Oct.Piano2	0	124	4	Natural!	
	Harpsichord	8	32	113	S.Articulation!	
	Harpsichord8' 2	0	125	7	Natural!	
	GrandPiano	0	113	1	Live!	
	BrightPiano	0	112	2	Live!	
	WarmGrand	0	114	1	Live!	
	Oct.Piano1	0	113	4	Regular	
	Oct.Piano2	0	114	4	Regular	
	HonkyTonk	0	112	4	Regular	
	Harpsichord8'	0	122	7	Natural!	
	Hc8'+4'	0	123	7	Natural!	
	CP80	0	123	3	Natural!	
	MidiGrand	0	112	3	Regular	
	Piano&Str	0	125	1	Natural!	
	Piano&Pad	0	118	1	Natural!	
	Piano&Choir	0	126	1	Natural!	
	Piano&EP1	0	122	3	Natural!	
	Piano&EP2	0	125	3	Natural!	
	BalladStack	0	114	3	Regular	
	Harpsichord	0	112	7	Regular	
	GrandHarpsi	0	113	7	Regular	
	Harpsi&Str	0	124	7	Natural!	
	CP80	0	113	3	Regular	
	E.Piano	SparkleStack	0	121	6	Cool!
		DX Dynamics	0	123	6	Cool!
		GalaxyEP	0	114	5	Cool!
		BalladDX	0	124	6	Cool!
		DX EP	0	122	6	Natural!
		SuitcaseEP	0	118	5	Cool!
		ElectricPiano	0	119	5	Cool!
		TremoloEP	0	113	5	Cool!
		JazzChorus	0	118	6	Regular
		E.Piano	0	122	5	Natural!
HyperTines		0	113	6	Regular	
VenusEP		0	114	6	Regular	
SuperDX		0	117	6	Regular	
PolarisEP		0	115	5	Regular	
DX Modern		0	112	6	Regular	
StageEP		0	117	5	Regular	
PhaseEP		0	120	5	Regular	
SmoothTine		0	119	6	Regular	
ModernEP		0	115	6	Regular	
FunkEP		0	112	5	Regular	
ChorusBell		0	120	6	Regular	
NewTines		0	116	6	Regular	
TremoloEP		0	124	5	Natural!	
FunkyEP		0	123	5	Natural!	
VintageEP		0	116	5	Regular	
E.Clavichord		0	122	8	Natural!	
WahE.Clavi		0	123	8	Natural!	
StereoClavi		0	114	8	Regular	
Clavi		0	112	8	Regular	
WahClavi		0	113	8	Regular	
PhaseClavi		0	115	8	Regular	
Strings		ConcertStrings	8	32	50	S.Articulation!
		StudioStrings	8	32	49	S.Articulation!
		DynamicStrings	0	124	49	Live!
		Spiccato	0	120	49	Live!
		Strings	0	122	49	Natural!
		Violin	0	113	41	Sweet!
		Cello	0	122	43	Natural!
		DiscoStrings1	0	123	50	Live!
		DiscoStrings2	0	124	50	Live!
	Pizzicato	0	113	46	Live!	
	MovieStrings	0	123	49	Live!	
	TremoloStrings	0	113	45	Live!	
	Strings p	0	117	49	Live!	
	Strings mf	0	118	49	Live!	
	Strings f	0	119	49	Live!	
	Strings	0	117	50	Live!	
	Allegro	0	122	50	Live!	
	TremoloBowing	8	34	49	S.Articulation!	
	Spiccato	8	33	49	S.Articulation!	
	Orchestra	0	116	50	Live!	
	Tutti	0	120	50	Regular	
	OrchFlute	0	119	50	Regular	

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Strings	OrchOboe	0	121	50	Regular	
	OrchHorns	0	118	50	Regular	
	StringFalls	0	121	49	Live!	
	Marcato	0	115	50	Regular	
	SynthStrings1	0	112	51	Regular	
	SynthStrings2	0	113	51	Regular	
	OberStrings	0	113	52	Regular	
	AnalogStrings	0	112	52	Regular	
	ChamberStrings	0	112	50	Regular	
	SlowStrings	0	113	50	Regular	
	Strings	0	112	49	Regular	
	OrchStrings	0	113	49	Regular	
	Symphonic	0	114	49	Regular	
	ConcertoStrings	0	115	49	Regular	
	BowStrings	0	116	49	Regular	
	StringQuartet	0	114	50	Regular	
	TremoloStrings	0	112	45	Regular	
	Pizzicato	0	112	46	Regular	
	Harp	0	112	47	Regular	
	SoloViolin	0	112	41	Regular	
	Viola	0	112	42	Regular	
	Cello	0	112	43	Regular	
	Contrabass	0	112	44	Regular	
	Fiddle	0	112	111	Regular	
	Hackbrett	0	113	47	Regular	
	Banjo	0	112	106	Regular	
	Sitar	0	112	105	Regular	
	Koto	0	112	108	Regular	
	Shamisen	0	112	107	Regular	
	OrchestraHit	0	112	56	Regular	
	SmallStrings	8	0	49	MegaVoice	
	LargeStrings	8	0	50	MegaVoice	
	Guitar & Bass	ConcertGuitar	8	32	1	S.Articulation!
		SteelGuitar	8	32	2	S.Articulation!
		FlamencoGtr	8	33	1	S.Articulation!
		12StringGtr	0	113	26	Live!
		PedalSteel	8	36	4	S.Articulation!
		WarmSolid	8	33	4	S.Articulation!
		CleanSolid	8	34	4	S.Articulation!
		GuitarHero	8	32	6	S.Articulation!
HeavyRock		8	32	5	S.Articulation!	
70sSolidGtr		8	38	4	S.Articulation!	
NylonGuitar		8	34	1	S.Articulation!	
FolkGuitar		8	33	2	S.Articulation!	
WarmElectric		8	32	4	S.Articulation!	
CleanElectric		8	35	4	S.Articulation!	
HalfDrive		8	37	4	S.Articulation!	
Mandolin		0	114	26	Sweet!	
JazzGuitar		0	115	27	Cool!	
VintageLead		0	125	28	Cool!	
BluesGuitar		0	117	30	Cool!	
MutedGuitar		0	119	29	Cool!	
SlideNylon		0	117	25	Live!	
SlideSteel		0	118	26	Live!	
SlideSolid		0	110	28	Cool!	
SlideClean		0	117	29	Cool!	
DynamicMute		0	118	29	Cool!	
Feedbacker		8	33	5	S.Articulation!	
ElectricGtr		0	114	29	Cool!	
TremoloSolid		0	111	28	Cool!	
ChorusSolid		0	107	28	Cool!	
BalladSolid		0	109	28	Cool!	
DynamicNylon		0	116	25	Live!	
DynamicSteel		0	116	26	Live!	
HardFlamenco		0	118	25	Live!	
AlohaGuitar		0	118	27	Regular	
PedalSteel		0	115	28	Regular	
PowerLead		0	115	31	Cool!	
CleanGuitar		0	112	28	Cool!	
SlapSolid		0	108	28	Cool!	
FunkGuitar		0	116	29	Cool!	
JazzSoloGtr		0	116	27	Cool!	
ClassicalGtr	0	115	25	Live!		
SteelGuitar	0	117	26	Live!		
60sClean	0	117	28	Regular		
VintageOpen	0	123	28	Regular		
VintageStrum	0	126	28	Regular		
HeavyStack	0	114	31	Regular		
CrunchGuitar	0	113	31	Regular		
VintageAmp	0	115	30	Regular		
SolidChord	0	121	28	Regular		
SolidGuitar	0	118	28	Regular		
NylonMute	0	119	25	Live!		

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Guitar & Bass	SteelMute	0	120	26	Live!	
	CampfireGtr	0	115	26	Regular	
	Electric12Str	0	119	28	Regular	
	DXJazzGuitar	0	117	27	Regular	
	SmoothLead	0	119	27	Regular	
	PowerChord	0	117	31	Regular	
	RockGuitar	0	116	30	Regular	
	VoodooLead	0	116	31	Regular	
	VintageMute	0	115	29	Regular	
	TremoloGuitar	0	113	28	Regular	
	WahGuitar	0	122	28	Regular	
	LeadGuitar	0	114	30	Regular	
	18String	0	119	26	Regular	
	ChorusGuitar	0	124	28	Regular	
	OctaveGuitar	0	113	27	Regular	
	VintageTrem	0	120	28	Regular	
	DeepChorus	0	114	28	Regular	
	BrightClean	0	116	28	Regular	
	DistortionGtr	0	112	31	Regular	
	FunkGuitar	0	113	29	Regular	
	MutedGuitar	0	112	29	Regular	
	OverdriveGtr	0	112	30	Regular	
	FeedbackGtr	0	113	30	Regular	
	FolkGuitar	0	112	26	Regular	
	ElectricBass	0	114	34	Cool!	
	AcousticBass	0	112	33	Regular	
	DynoPickBass	0	113	35	Cool!	
	FretlessBass	0	112	36	Cool!	
	SlapBass	0	112	37	Regular	
	FunkBass	0	112	38	Regular	
	SubBass	0	114	40	Regular	
	HardBass	0	114	39	Regular	
	ResoBass	0	112	39	Regular	
	HouseBass	0	116	39	Regular	
	BigDrone	0	118	39	Regular	
	RockBass	0	114	35	Regular	
	SuperFretless	0	113	36	Regular	
	PickBass	0	112	35	Regular	
	FusionBass	0	113	37	Regular	
	Bass&Cymbal	0	114	33	Regular	
	AnalogBass	0	112	40	Regular	
	DX FunkBass	0	113	38	Regular	
	DrySynthBass	0	116	40	Regular	
	80sSynthBass	0	115	40	Regular	
	HiQBass	0	113	39	Regular	
	ClickBass	0	115	39	Regular	
	PunchyBass	0	117	39	Regular	
	TB Bass	0	117	40	Regular	
	MellowFinger	0	112	34	Regular	
	NylonGuitar	8	0	1	MegaVoice	
	SteelGuitar	8	0	2	MegaVoice	
	12StringGtr	8	1	3	MegaVoice	
	HiStringGtr	8	0	3	MegaVoice	
	SolidGuitar1	8	1	4	MegaVoice	
	SolidGuitar2	8	2	4	MegaVoice	
	CleanGuitar	8	0	4	MegaVoice	
	OverdriveGtr	8	0	5	MegaVoice	
	DistortionGtr	8	0	6	MegaVoice	
	AcousticBass	8	0	17	MegaVoice	
	ElectricBass	8	0	18	MegaVoice	
	PickBass	8	0	19	MegaVoice	
	FretlessBass	8	0	20	MegaVoice	
	Saxophone	Saxophone	8	32	83	S.Articulation!
		BigBandSax	8	35	83	S.Articulation!
		JazzTenor	0	125	67	Sweet!
		BalladTenor	0	126	67	Sweet!
		PopTenor	0	127	67	Sweet!
		SopranoSax	0	113	65	Sweet!
		AltoSax	0	114	66	Sweet!
		TenorSax	0	117	67	Sweet!
		GrowlSax	0	111	67	Sweet!
		SaxSection	0	116	67	Live!
RockSax		8	33	83	S.Articulation!	
BigBandSaxes		0	110	67	Live!	
BigBandUnison		0	109	67	Live!	
BigBandOctave		0	108	67	Live!	
SaxSectionSoft		0	121	67	Live!	
SaxSectionHard		0	122	67	Live!	
BalladSection		0	119	67	Regular	
SaxAppeal		0	123	67	Live!	
SaxyMood		0	120	67	Regular	
Moonlight		0	115	72	Regular	
GrowlSax		0	118	67	Regular	

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Saxophone	SopranoSax	0	112	65	Regular	
	AltoSax	0	112	66	Regular	
	TenorSax	0	112	67	Regular	
	BaritoneSax	0	112	68	Regular	
	SaxStack	0	124	67	Regular	
	WoodwindsEns	0	113	67	Regular	
	TenorSax	8	0	83	MegaVoice	
	Flute & Woodwind	Flute	0	114	74	Sweet!
		Clarinet	0	114	72	Sweet!
		Oboe	0	113	69	Sweet!
EnglishHorn		0	112	70	Regular	
Bassoon		0	112	71	Regular	
PanFlute		0	113	76	Sweet!	
ClassicalFlute		0	115	74	Sweet!	
Piccolo		0	112	73	Regular	
FluteEnsemble		0	116	74	Regular	
Whistle		0	112	79	Regular	
Flute		0	112	74	Regular	
Clarinet		0	112	72	Regular	
Oboe		0	112	69	Regular	
Shakuhachi		0	112	78	Regular	
Bagpipe		0	112	110	Regular	
PanFlute		0	113	74	Regular	
EthnicFlute		0	112	76	Regular	
Recorder	0	112	75	Regular		
Ocarina	0	112	80	Regular		
Organ	PipeOrganP	0	123	20	Natural!	
	PipeOrgF11	0	124	20	Natural!	
	PipeOrgF12	0	125	20	Natural!	
	OrgF1Tutti	0	126	20	Natural!	
	PipeOrgTu	0	122	20	Natural!	
	JazzRotary	8	32	114	S.Articulation!	
	CurvedBars	0	121	17	Cool!	
	EvenBars	0	111	17	Cool!	
	VintageFast	0	127	17	Cool!	
	RotorOrgan	0	117	19	Cool!	
	Organ	0	118	19	Cool!	
	JazzOrgan	0	117	17	Cool!	
	TwoChannels	0	109	18	Cool!	
	RockRotary	8	33	114	S.Articulation!	
	FullRocker	0	115	19	Cool!	
	Hold It Fast	0	111	18	Cool!	
	RotarySwitch	0	110	18	Cool!	
	R&B Tremolo	0	111	19	Cool!	
	JazzSlow	0	126	18	Cool!	
	JazzFast	0	127	18	Cool!	
	StadiumOrgan	0	118	17	Regular	
	GospelOrgan	0	119	17	Regular	
	RotaryDrive	0	116	19	Regular	
	DanceOrgan	0	113	18	Regular	
	PurpleOrgan	0	114	19	Regular	
	FullTheatre	0	127	19	Regular	
	SweetTheatre	0	126	19	Regular	
	Tibia 8&4	0	122	17	Regular	
	Tibia 16&4	0	114	17	Regular	
	BallroomOrgan	0	115	4	Regular	
	PipeOrgan	0	112	20	Regular	
	ChapelOrgan1	0	113	20	Regular	
	ChapelOrgan2	0	114	20	Regular	
	ChapelOrgan3	0	115	20	Regular	
	Tibia Full	0	114	18	Regular	
	RockOrgan1	0	112	19	Regular	
	RockOrgan2	0	119	19	Regular	
	RockOrgan3	0	113	19	Regular	
	60sOrgan	0	116	18	Regular	
	ClickOrgan	0	112	18	Regular	
	JazzOrgan1	0	112	17	Regular	
	JazzOrgan2	0	113	17	Regular	
	JazzOrgan3	0	120	17	Regular	
DrawbarOrgan1	0	120	18	Regular		
DrawbarOrgan2	0	115	17	Regular		
OrganAccomp1	0	108	18	Regular		
OrganAccomp2	0	107	18	Regular		
OrganAccomp3	0	106	18	Regular		
OrganAccomp4	0	105	18	Regular		
OrganAccomp5	0	104	18	Regular		
MellowDraw	0	115	18	Regular		
BrightDraw	0	116	17	Regular		
PercOrgan	0	119	18	Regular		
ElectricOrgan	0	118	18	Regular		
ReedOrgan	0	112	21	Regular		
Tibia 8	0	122	18	Regular		
TrumpetB	0	124	17	Regular		

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

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Organ	Vox 8	0	123	18	Regular	
	Vox&Tibia	0	125	17	Regular	
	Kinura 8	0	123	17	Regular	
	Tpt&Kinura	0	125	18	Regular	
	Trumpet16&8	0	124	18	Regular	
Trumpet	Trumpet	8	32	65	S.Articulation!	
	SilverTrumpet	8	33	65	S.Articulation!	
	GoldenTrumpet	8	34	65	S.Articulation!	
	BigBandTrumpet	8	37	65	S.Articulation!	
	TrumpetFall	8	38	65	S.Articulation!	
	Cornet	0	119	57	Sweet!	
	FlugelHorn	0	118	57	Sweet!	
	MutedTrumpet	0	114	60	Sweet!	
	Trumpet	0	115	57	Sweet!	
	Trombone	0	117	58	Sweet!	
	JazzTrumpet	0	120	57	Sweet!	
	SilverTrumpet	0	121	57	Sweet!	
	GoldenTrumpet	0	122	57	Sweet!	
	TrumpetShake	8	35	65	S.Articulation!	
	SoloTrumpet	0	112	57	Regular	
	MutedTrumpet	0	112	60	Regular	
	FlugelHorn	0	113	57	Regular	
	SoloTrombone	0	112	58	Regular	
	JazzTrumpet	0	116	57	Regular	
	Trombone	0	116	58	Regular	
	SoftTrombone	0	115	58	Regular	
	MellowTrombone	0	114	58	Regular	
	BaritoneHorn	0	113	59	Regular	
	BaritoneHit	0	114	59	Regular	
	AlpBass	0	113	34	Regular	
	Tuba	0	112	59	Regular	
	Trumpet	8	0	65	MegaVoice	
	Brass	BigBandBrass	8	37	57	S.Articulation!
		SmoothBrass	8	36	57	S.Articulation!
		DynamicBrass	0	127	62	Live!
		PowerBrass	0	121	63	Live!
		AccentBrass	0	109	62	Live!
BrassFalls f		8	34	57	S.Articulation!	
BrassFalls mf		8	35	57	S.Articulation!	
Brass p		0	111	62	Live!	
Brass mf		0	110	62	Live!	
Brass f		0	108	62	Live!	
FrenchHorns		0	112	61	Live!	
SymphonyBrass		0	119	61	Live!	
BrassBand		0	123	57	Live!	
SoftHorns		0	117	61	Live!	
SoftTrombones		0	118	61	Live!	
BrassShake		8	32	57	S.Articulation!	
AccentFalls		8	38	57	S.Articulation!	
Sforzando		0	105	62	Live!	
SforzandoFall		0	107	62	Live!	
BrassDynamics		0	106	62	Live!	
SmallBrass		0	120	61	Live!	
SymphonyHorns		0	115	61	Live!	
HyperBrass		0	118	63	Live!	
PopBrass		0	117	63	Live!	
OctaveBrass		0	116	63	Live!	
BrassCombo		0	115	67	Regular	
BrassSection		0	112	62	Regular	
BreathBrass		0	116	61	Regular	
HybridComp		0	119	63	Regular	
NaturalBrass		0	124	62	Regular	
Sforzando		0	125	62	Regular	
BigBrass		0	121	62	Regular	
BallroomBrass		0	113	60	Regular	
BrightBrass		0	120	62	Regular	
MellowBrass		0	116	62	Regular	
Hybrihorn		0	113	61	Regular	
Hybridpad		0	114	61	Regular	
SoftVeloBrass		0	120	63	Regular	
80sBrass		0	113	63	Regular	
SoftBrass		0	123	62	Regular	
FullHorns		0	114	62	Regular	
SmoothTrombone		0	118	58	Regular	
HighBrass		0	115	62	Regular	
OberBrass		0	113	64	Regular	
TrumpetEns		0	122	62	Regular	
MellowHorns		0	119	62	Regular	
BigBandBrass		0	113	62	Regular	
PopBrass		0	118	62	Regular	
BrassHit		0	126	62	Regular	
AnalogBrass		0	112	64	Regular	
TbnSection		0	113	58	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Brass	SmallBrass	0	117	62	Regular
	SoftAnalog	0	114	64	Regular
	FunkyAnalog	0	115	63	Regular
	TechnoBrass	0	114	63	Regular
	SynthBrass	0	112	63	Regular
	OberHorns	0	115	64	Regular
	FatSynthBrass	0	116	64	Regular
	Brass	8	0	57	MegaVoice
	Accordion	FrenchMusette	0	119	22
MasterAccord	0	118	22	Regular	
JazzAccordion	0	120	22	Regular	
TangoAccordion	0	114	24	Regular	
Steirisch	0	117	22	Regular	
Harmonica	0	112	23	Sweet!	
Accordion	0	116	22	Regular	
SmallAccordion	0	115	22	Regular	
TuttiAccordion	0	113	22	Regular	
Musette	0	112	22	Regular	
MasterBass	0	122	22	Regular	
MusetteBass	0	123	22	Regular	
AccordionBass	0	121	22	Regular	
TangoBass	0	115	24	Regular	
BallroomAcc	0	112	24	Regular	
SoftAccordion	0	114	22	Regular	
Bandoneon	0	113	24	Regular	
ModernHarp	0	113	23	Regular	
BluesHarp	0	114	23	Regular	
Choir & Pad	Choir	0	122	53	Natural!
GospelVoices	0	116	53	Live!	
Humming	0	118	53	Live!	
HahChoir	0	114	53	Regular	
Mmh	0	117	53	Live!	
MagicBell	8	32	121	S.Articulation!	
SweetHeaven	0	118	89	Regular	
DreamHeaven	0	121	89	Regular	
GothicVox	0	113	54	Regular	
Sunbeam	0	123	89	Regular	
BellHeaven	0	119	89	Regular	
PanHeaven	0	120	89	Regular	
ProHeaven	0	122	89	Regular	
Choir	0	112	53	Regular	
AirChoir	0	112	55	Regular	
VoxHumana	0	112	54	Regular	
Voices	0	113	55	Regular	
UuhChoir	0	115	53	Regular	
Choir&Organ	0	123	53	Natural!	
HahPad	0	116	95	Regular	
SuperDarkPad	0	119	90	Regular	
AnalogPad	0	120	90	Regular	
DarkAngelPad	0	121	90	Regular	
LitePad	0	122	90	Regular	
PopPad	0	112	91	Regular	
BrightSawPad	0	113	91	Regular	
GloriousPhase	0	114	91	Regular	
BigOctavePad	0	115	91	Regular	
DigitalPad	0	115	94	Regular	
AnalogSwell	0	119	96	Regular	
PsychoPad	0	118	102	Regular	
Insomnia	0	113	95	Regular	
Skydiver	0	112	102	Regular	
Bubblespace	0	113	102	Regular	
HipaStrings	0	114	96	Regular	
MellowPad	0	117	96	Regular	
Mediterrain	0	114	100	Regular	
NeoWarmPad	0	115	90	Regular	
CyberPad	0	113	100	Regular	
OberSweep	0	115	96	Regular	
Messenger	0	116	96	Regular	
Wave2001	0	112	96	Regular	
FarEast	0	112	98	Regular	
Disclosure	0	116	90	Regular	
BrightOber	0	113	96	Regular	
DarkPad	0	118	96	Regular	
Mystery	0	113	98	Regular	
Sirius	0	114	102	Regular	
S&H Groove	0	115	102	Regular	
VeloAshrami	0	116	102	Regular	
EveningStars	0	117	102	Regular	
AngelVibes	0	114	99	Regular	
Atmosphere	0	112	100	Regular	
XenonPad	0	112	92	Regular	
Equinox	0	112	95	Regular	
GlassPad	0	114	94	Regular	

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Choir & Pad	Fantasia	0	112	89	Regular	
	DX Pad	0	112	93	Regular	
	Symbiont	0	113	89	Regular	
	Stargate	0	114	89	Regular	
	Area51	0	112	90	Regular	
	DarkMoon	0	113	90	Regular	
	Ionosphere	0	115	95	Regular	
	GoldenAge	0	115	89	Regular	
	Solaris	0	114	95	Regular	
	TimeTravel	0	116	89	Regular	
	Millennium	0	117	89	Regular	
	Dunes	0	114	90	Regular	
	Synth & FX	Oxygen	0	122	82	Regular
		Matrix	0	123	82	Regular
		WireLead	0	120	82	Regular
		SoftR&B	0	119	81	Regular
EarlyLead		0	118	82	Regular	
DanceHook		0	112	87	Regular	
OctaveHook		0	113	87	Regular	
HipaLead		0	118	85	Regular	
SFX Kit1		126	0	1	SFX Kit	
SFX Kit2		126	0	2	SFX Kit	
PunchyHook		0	127	82	Regular	
CryingLead		0	114	88	Regular	
HipLead		0	113	81	Regular	
HopLead		0	117	81	Regular	
OrbitSine		0	126	81	Regular	
TechLead		0	117	85	Regular	
Tekkline		0	116	85	Regular	
SoftMini		0	124	81	Regular	
TranceLead		0	121	81	Regular	
FireWire		0	116	82	Regular	
Analogon		0	115	82	Regular	
Blaster		0	114	82	Regular	
Skyline		0	115	85	Regular	
SquareLead		0	112	81	Regular	
SawLead		0	112	82	Regular	
PopLead		0	120	81	Regular	
ProLead		0	113	84	Regular	
BrightMini		0	125	81	Regular	
TinyLead		0	118	81	Regular	
FunkyLead		0	121	82	Regular	
Paraglide		0	114	85	Regular	
Robolead		0	124	82	Regular	
Fargo		0	119	82	Regular	
Portatone		0	112	85	Regular	
BigLead		0	113	82	Regular	
Warp		0	117	82	Regular	
Adrenaline		0	113	85	Regular	
Stardust		0	112	99	Regular	
AeroLead		0	112	84	Regular	
MiniLead		0	114	81	Regular	
Impact		0	113	88	Regular	
SunBell		0	113	99	Regular	
UnderHeim		0	112	88	Regular	
HiBias		0	116	81	Regular	
VinylLead		0	115	81	Regular	
PanLead		0	122	81	Regular	
StringBells		0	124	89	Regular	
CrystalEyes		0	125	89	Regular	
Padbells		0	126	89	Regular	
MelodyMaker		0	117	90	Regular	
BigTune		0	118	90	Regular	
TrumpetSaw		0	125	82	Regular	
AttackSaw		0	126	82	Regular	
PercSquare		0	123	81	Regular	
Perc & Drum	Vibraphone	0	122	12	Natural!	
	TremoloVibes	0	124	12	Natural!	
	Marimba	0	122	13	Natural!	
	SteelDrums	0	122	115	Natural!	
	Celesta	0	122	9	Natural!	
	Vibraphone	0	112	12	Regular	
	JazzVibes	0	113	12	Regular	
	Suspense	0	114	12	Regular	
	Marimba	0	112	13	Regular	
	Xylophone	0	112	14	Regular	
	SteelDrums	0	112	115	Regular	
	Celesta	0	112	9	Regular	
	Glockenspiel	0	112	10	Regular	
	MusicBox	0	112	11	Regular	
	TubularBells	0	112	15	Regular	
	Kalimba	0	112	109	Regular	
	Dulcimer	0	112	16	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Perc & Drum	Timpani	0	112	48	Regular
	PowerKit1	127	0	88	Live!Drums
	PowerKit2	127	0	89	Live!Drums
	StandardKit1	127	0	1	Live!Drums
	StandardKit2	127	0	2	Live!Drums
	StudioKit	127	0	87	Live!Drums
	JazzKit	127	0	33	Drums
	BrushKit	127	0	41	Live!Drums
	HitKit	127	0	5	Drums
	RoomKit	127	0	9	Drums
	RockKit	127	0	17	Drums
	ElectroKit	127	0	25	Drums
	AnalogKit	127	0	26	Drums
	DanceKit	127	0	28	Drums
	SymphonyKit	127	0	49	Live!Drums
	CubanKit	126	0	41	Live!SFX
	PopLatinKit	126	0	44	Live!SFX
	ArabicKit	126	0	36	SFX Kit
	OrganFlutes	JazzDraw!	0	126	17
BluesOrgan!		0	126	17	Organ Flutes
SixteenOne!		0	126	17	Organ Flutes
EvenBars!		0	126	17	Organ Flutes
PopOrgan!		0	126	17	Organ Flutes
RockingOrg!		0	126	17	Organ Flutes
Percussive!		0	126	17	Organ Flutes
GospelOrg!		0	126	17	Organ Flutes
PadOrgan!		0	126	17	Organ Flutes
FullRanks!		0	126	17	Organ Flutes

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Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Piano	GrandPiano	0	0	1	Regular	
	GrndPianoKSP	0	1	1	Regular	
	MellowGrPno	0	18	1	Regular	
	PianoStrings	0	40	1	Regular	
	Dream	0	41	1	Regular	
	BrightPiano	0	0	2	Regular	
	BritePnoKSP	0	1	2	Regular	
	ElecGrandPno	0	0	3	Regular	
	ElecGrPnoKSP	0	1	3	Regular	
	DetunedCP80	0	32	3	Regular	
	LayeredCP1	0	40	3	Regular	
	LayeredCP2	0	41	3	Regular	
	Honkytonk	0	0	4	Regular	
	HonkytonkKSP	0	1	4	Regular	
	El.Piano1	0	0	5	Regular	
	El.Piano1KSP	0	1	5	Regular	
	MellowEP1	0	18	5	Regular	
	ChorusEP1	0	32	5	Regular	
	HardEl.Piano	0	40	5	Regular	
	VXfadeEl.P1	0	45	5	Regular	
	60sEl.Piano1	0	64	5	Regular	
	El.Piano2	0	0	6	Regular	
	El.Piano2KSP	0	1	6	Regular	
	ChorusEP2	0	32	6	Regular	
	DXEPHard	0	33	6	Regular	
	DXLegend	0	34	6	Regular	
	DXPhaseEP	0	40	6	Regular	
	DX+AnalogEP	0	41	6	Regular	
	DXKotoEP	0	42	6	Regular	
	VXfadeEl.P2	0	45	6	Regular	
	Harpsichord	0	0	7	Regular	
	Harpsi.KSP	0	1	7	Regular	
	Harpsichord2	0	25	7	Regular	
	Harpsichord3	0	35	7	Regular	
	Clavi.	0	0	8	Regular	
	Clavi.KSP	0	1	8	Regular	
	Clavi.Wah	0	27	8	Regular	
	PulseClavi.	0	64	8	Regular	
	PierceClavi.	0	65	8	Regular	
	ChromaticPerc	Celesta	0	0	9	Regular
		Glockenspiel	0	0	10	Regular
		MusicBox	0	0	11	Regular
		Orgel	0	64	11	Regular
		Vibraphone	0	0	12	Regular
		VibesKSP	0	1	12	Regular
		HardVibes	0	45	12	Regular
		Marimba	0	0	13	Regular
		MarimbaKSP	0	1	13	Regular
SineMarimba		0	64	13	Regular	
Balimba		0	97	13	Regular	
LogDrums		0	98	13	Regular	
Xylophone		0	0	14	Regular	
TubularBells		0	0	15	Regular	
ChurchBells		0	96	15	Regular	
Carillon		0	97	15	Regular	
Dulcimer		0	0	16	Regular	
Dulcimer2		0	35	16	Regular	
Cimbalom		0	96	16	Regular	
Santur		0	97	16	Regular	
Organ	DrawbarOrgan	0	0	17	Regular	
	DetDrawOrgan	0	32	17	Regular	
	60sDrawOrg1	0	33	17	Regular	
	60sDrawOrg2	0	34	17	Regular	
	70sDrawOrg1	0	35	17	Regular	
	DrawbarOrg2	0	36	17	Regular	
	60sDrawOrg3	0	37	17	Regular	
	EvenBarOrg	0	38	17	Regular	
	16+2'2_3Org	0	40	17	Regular	
	OrganBass	0	64	17	Regular	
	70sDrawOrg2	0	65	17	Regular	
	CheezyOrgan	0	66	17	Regular	
	DrawbarOrg3	0	67	17	Regular	
	Perc.Organ	0	0	18	Regular	
	70sPercOrg1	0	24	18	Regular	
	DetPercOrgan	0	32	18	Regular	
	LightOrgan	0	33	18	Regular	
	Perc.Organ2	0	37	18	Regular	
	RockOrgan	0	0	19	Regular	
	RotaryOrgan	0	64	19	Regular	
	SlowRotary	0	65	19	Regular	
	FastRotary	0	66	19	Regular	
	ChurchOrgan	0	0	20	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Organ	ChurchOrgan3	0	32	20	Regular
	ChurchOrgan2	0	35	20	Regular
	NotreDame	0	40	20	Regular
	OrganFlute	0	64	20	Regular
	Trem.OrganFl	0	65	20	Regular
	ReedOrgan	0	0	21	Regular
	PuffOrgan	0	40	21	Regular
	Accordion	0	0	22	Regular
	AccordIt	0	32	22	Regular
	Harmonica	0	0	23	Regular
	Harmonica2	0	32	23	Regular
	TangoAccord	0	0	24	Regular
	TangoAccord2	0	64	24	Regular
	Guitar	NylonGuitar	0	0	25
NylonGuitar2		0	16	25	Regular
NylonGuitar3		0	25	25	Regular
VelGtrHarmo		0	43	25	Regular
Ukulele		0	96	25	Regular
SteelGuitar		0	0	26	Regular
SteelGuitar2		0	16	26	Regular
12StrGuitar		0	35	26	Regular
Nylon&Steel		0	40	26	Regular
Steel&Body		0	41	26	Regular
Mandolin		0	96	26	Regular
JazzGuitar		0	0	27	Regular
MellowGuitar		0	18	27	Regular
JazzAmp		0	32	27	Regular
CleanGuitar		0	0	28	Regular
ChorusGuitar		0	32	28	Regular
MutedGuitar		0	0	29	Regular
FunkGuitar1		0	40	29	Regular
MuteSteelGtr		0	41	29	Regular
FunkGuitar2		0	43	29	Regular
JazzMan		0	45	29	Regular
Overdriven		0	0	30	Regular
GuitarPinch		0	43	30	Regular
Distortion		0	0	31	Regular
FeedbackGtr		0	40	31	Regular
FeedbackGtr2		0	41	31	Regular
GtrHarmonics		0	0	32	Regular
GtrFeedback		0	65	32	Regular
GtrHarmonic2	0	66	32	Regular	
Bass	AcousticBass	0	0	33	Regular
	JazzRhythm	0	40	33	Regular
	VXUprghtBass	0	45	33	Regular
	FingerBass	0	0	34	Regular
	FingerDark	0	18	34	Regular
	FlangeBass	0	27	34	Regular
	Bass&DistEG	0	40	34	Regular
	FingerSlap	0	43	34	Regular
	FingerBass2	0	45	34	Regular
	Mod.Bass	0	65	34	Regular
	PickBass	0	0	35	Regular
	MutePickBass	0	28	35	Regular
	FretlessBass	0	0	36	Regular
	Fretless2	0	32	36	Regular
	Fretless3	0	33	36	Regular
	Fretless4	0	34	36	Regular
	Syn.Fretless	0	96	36	Regular
	SmthFretless	0	97	36	Regular
	SlapBass1	0	0	37	Regular
	ResonantSlap	0	27	37	Regular
	PunchThumb	0	32	37	Regular
	SlapBass2	0	0	38	Regular
	Velo.Sw.Slap	0	43	38	Regular
	SynthBass1	0	0	39	Regular
	SynBass1Dark	0	18	39	Regular
	FastResoBass	0	20	39	Regular
	AcidBass	0	24	39	Regular
	ClaviBass	0	35	39	Regular
	TechnoBass	0	40	39	Regular
	Orbiter	0	64	39	Regular
	SquareBass	0	65	39	Regular
	RubberBass	0	66	39	Regular
	Hammer	0	96	39	Regular
	SynthBass2	0	0	40	Regular
	MellowSyBass	0	6	40	Regular
	SequenceBass	0	12	40	Regular
	ClickSynBass	0	18	40	Regular
	SynBass2Dark	0	19	40	Regular
	SmoothSyBass	0	32	40	Regular
	ModulrSyBass	0	40	40	Regular

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Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Brass	DXBass	0	41	40	Regular	
	XWireBass	0	64	40	Regular	
Strings	Violin	0	0	41	Regular	
	SlwAtkViolin	0	8	41	Regular	
	Viola	0	0	42	Regular	
	Cello	0	0	43	Regular	
	Contrabass	0	0	44	Regular	
	Trem.Strings	0	0	45	Regular	
	SlwAtTremStr	0	8	45	Regular	
	SuspenseStr	0	40	45	Regular	
	PizzicatoStr	0	0	46	Regular	
	Orch.Harp	0	0	47	Regular	
	YangChin	0	40	47	Regular	
	Timpani	0	0	48	Regular	
	Strings1	0	0	49	Regular	
	Ensemble	StereoStrngs	0	3	49	Regular
SlwAtkStrngs		0	8	49	Regular	
ArcoStrings		0	24	49	Regular	
60'sStrings		0	35	49	Regular	
Orchestra		0	40	49	Regular	
Orchestra2		0	41	49	Regular	
TremOrchestra		0	42	49	Regular	
Velo.Strings		0	45	49	Regular	
Strings2		0	0	50	Regular	
S.SlowStrngs		0	3	50	Regular	
LegatoStrngs		0	8	50	Regular	
WarmStrings		0	40	50	Regular	
Kingdom		0	41	50	Regular	
70'sStrings		0	64	50	Regular	
Strings3		0	65	50	Regular	
SynStrings1		0	0	51	Regular	
ResoStrings		0	27	51	Regular	
SynStrings4		0	64	51	Regular	
SynStrings5		0	65	51	Regular	
SynStrings2		0	0	52	Regular	
ChoirAahs		0	0	53	Regular	
StereoChoir		0	3	53	Regular	
ChoirAahs2		0	16	53	Regular	
MellowChoir		0	32	53	Regular	
ChoirStrings		0	40	53	Regular	
VoiceOohs		0	0	54	Regular	
SynthVoice		0	0	55	Regular	
SynthVoice2		0	40	55	Regular	
Choral		0	41	55	Regular	
AnalogVoice		0	64	55	Regular	
OrchestraHit		0	0	56	Regular	
OrchestrHit2		0	35	56	Regular	
Impact		0	64	56	Regular	
Brass		Trumpet	0	0	57	Regular
		Trumpet2	0	16	57	Regular
		BriteTrumpet	0	17	57	Regular
		WarmTrumpet	0	32	57	Regular
		Trombone	0	0	58	Regular
		Trombone2	0	18	58	Regular
		Tuba	0	0	59	Regular
	Tuba2	0	16	59	Regular	
	MutedTrumpet	0	0	60	Regular	
	FrenchHorn	0	0	61	Regular	
	Fr.HornSolo	0	6	61	Regular	
	FrenchHorn2	0	32	61	Regular	
	HornOrchestr	0	37	61	Regular	
	BrassSection	0	0	62	Regular	
	Tp&TbSection	0	35	62	Regular	
	BrassSect2	0	40	62	Regular	
	HighBrass	0	41	62	Regular	
	MellowBrass	0	42	62	Regular	
	SynthBrass1	0	0	63	Regular	
	QuackBrass	0	12	63	Regular	
	ResoSynBrass	0	20	63	Regular	
	PolyBrass	0	24	63	Regular	
	SynthBrass3	0	27	63	Regular	
	JumpBrass	0	32	63	Regular	
	AnaVelBrass1	0	45	63	Regular	
	AnalogBrass1	0	64	63	Regular	
	SynthBrass2	0	0	64	Regular	
	SoftBrass	0	18	64	Regular	
	SynthBrass4	0	40	64	Regular	
	ChoirBrass	0	41	64	Regular	
	AnaVelBrass2	0	45	64	Regular	
	AnalogBrass2	0	64	64	Regular	
	Reed	SopranoSax	0	0	65	Regular
		AltoSax	0	0	66	Regular
		SaxSection	0	40	66	Regular

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Reed	HyperAltoSax	0	43	66	Regular	
	TenorSax	0	0	67	Regular	
	BreathyTenor	0	40	67	Regular	
	SoftTenorSax	0	41	67	Regular	
	TenorSax2	0	64	67	Regular	
	BaritoneSax	0	0	68	Regular	
	Oboe	0	0	69	Regular	
	EnglishHorn	0	0	70	Regular	
	Bassoon	0	0	71	Regular	
	Clarinet	0	0	72	Regular	
	Pipe	Piccolo	0	0	73	Regular
		Flute	0	0	74	Regular
		Recorder	0	0	75	Regular
		PanFlute	0	0	76	Regular
BlownBottle		0	0	77	Regular	
Shakuhachi		0	0	78	Regular	
Whistle		0	0	79	Regular	
Ocarina		0	0	80	Regular	
Synth.Lead		SquareLead	0	0	81	Regular
		SquareLead2	0	6	81	Regular
	LMSquare	0	8	81	Regular	
	Hollow	0	18	81	Regular	
	Shroud	0	19	81	Regular	
	Mellow	0	64	81	Regular	
	SoloSine	0	65	81	Regular	
	SineLead	0	66	81	Regular	
	SawtoothLead	0	0	82	Regular	
	SawtoothLd2	0	6	82	Regular	
	ThickSaw	0	8	82	Regular	
	DynamicSaw	0	18	82	Regular	
	DigitalSaw	0	19	82	Regular	
	BigLead	0	20	82	Regular	
	HeavySynth	0	24	82	Regular	
	WaspySynth	0	25	82	Regular	
	PulseSaw	0	40	82	Regular	
	Dr.Lead	0	41	82	Regular	
	VelocityLead	0	45	82	Regular	
	Seq.Analog	0	96	82	Regular	
	CalliopeLead	0	0	83	Regular	
	PureLead	0	65	83	Regular	
	ChiffLead	0	0	84	Regular	
	Rubby	0	64	84	Regular	
	CharangLead	0	0	85	Regular	
	DistortedLd	0	64	85	Regular	
	WireLead	0	65	85	Regular	
	VoiceLead	0	0	86	Regular	
	SynthAahs	0	24	86	Regular	
	VoxLead	0	64	86	Regular	
	FifthsLead	0	0	87	Regular	
	BigFive	0	35	87	Regular	
	Bass&Lead	0	0	88	Regular	
	Big&Low	0	16	88	Regular	
	Fat&Perky	0	64	88	Regular	
	SoftWhirl	0	65	88	Regular	
	Synth.Pad	NewAgePad	0	0	89	Regular
		Fantasy	0	64	89	Regular
		WarmPad	0	0	90	Regular
		ThickPad	0	16	90	Regular
SoftPad		0	17	90	Regular	
SinePad		0	18	90	Regular	
HornPad		0	64	90	Regular	
RotaryStrngs		0	65	90	Regular	
PolySynthPad		0	0	91	Regular	
PolyPad80		0	64	91	Regular	
ClickPad		0	65	91	Regular	
AnalogPad		0	66	91	Regular	
SquarePad		0	67	91	Regular	
ChoirPad		0	0	92	Regular	
Heaven		0	64	92	Regular	
Itopia		0	66	92	Regular	
CCPad		0	67	92	Regular	
BowedPad		0	0	93	Regular	
Glacier		0	64	93	Regular	
GlassPad		0	65	93	Regular	
MetallicPad		0	0	94	Regular	
TinePad		0	64	94	Regular	
PanPad		0	65	94	Regular	
HaloPad		0	0	95	Regular	
SweepPad		0	0	96	Regular	
Shwimmer		0	20	96	Regular	
Converge		0	27	96	Regular	
PolarPad		0	64	96	Regular	
Celestial		0	66	96	Regular	

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Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Synth.Effect	Rain	0	0	97	Regular	
	ClaviPad	0	45	97	Regular	
	HarmoRain	0	64	97	Regular	
	AfricanWind	0	65	97	Regular	
	Carib	0	66	97	Regular	
	SoundTrack	0	0	98	Regular	
	Prologue	0	27	98	Regular	
	Ancestral	0	64	98	Regular	
	Crystal	0	0	99	Regular	
	SynthDr.Comp	0	12	99	Regular	
	Popcorn	0	14	99	Regular	
	TinyBells	0	18	99	Regular	
	RoundGlocken	0	35	99	Regular	
	GlockenChime	0	40	99	Regular	
	ClearBells	0	41	99	Regular	
	ChorusBells	0	42	99	Regular	
	SynthMallet	0	64	99	Regular	
	SoftCrystal	0	65	99	Regular	
	LoudGlocken	0	66	99	Regular	
	ChristmasBel	0	67	99	Regular	
	VibeBells	0	68	99	Regular	
	DigitalBells	0	69	99	Regular	
	AirBells	0	70	99	Regular	
	BellHarp	0	71	99	Regular	
	Gamelimba	0	72	99	Regular	
	Atmosphere	0	0	100	Regular	
	WarmAtmos.	0	18	100	Regular	
	HollowRelease	0	19	100	Regular	
	NylonElPiano	0	40	100	Regular	
	NylonHarp	0	64	100	Regular	
	HarpVox	0	65	100	Regular	
	Atmos.Pad	0	66	100	Regular	
	Planet	0	67	100	Regular	
	Brightness	0	0	101	Regular	
	FantasyBells	0	64	101	Regular	
	Smokey	0	96	101	Regular	
	Goblins	0	0	102	Regular	
	GoblinsSynth	0	64	102	Regular	
	Creeper	0	65	102	Regular	
	RingPad	0	66	102	Regular	
	Ritual	0	67	102	Regular	
	ToHeaven	0	68	102	Regular	
	Night	0	70	102	Regular	
	Glisten	0	71	102	Regular	
	BellChoir	0	96	102	Regular	
	Echoes	0	0	103	Regular	
	Echoes2	0	8	103	Regular	
	EchoPan	0	14	103	Regular	
	EchoBells	0	64	103	Regular	
	BigPan	0	65	103	Regular	
	SynthPiano	0	66	103	Regular	
	Creation	0	67	103	Regular	
	StarDust	0	68	103	Regular	
	Reso&Panning	0	69	103	Regular	
	Sci-Fi	0	0	104	Regular	
	Starz	0	64	104	Regular	
	Ethnic	Sitar	0	0	105	Regular
		DetunedSitar	0	32	105	Regular
		Sitar2	0	35	105	Regular
		Tambra	0	96	105	Regular
		Tamboura	0	97	105	Regular
		Banjo	0	0	106	Regular
		MutedBanjo	0	28	106	Regular
		Rabab	0	96	106	Regular
		Gopichant	0	97	106	Regular
		Oud	0	98	106	Regular
Shamisen		0	0	107	Regular	
Koto		0	0	108	Regular	
Taisho-kin		0	96	108	Regular	
Kanoon		0	97	108	Regular	
Kalimba		0	0	109	Regular	
Bagpipe		0	0	110	Regular	
Fiddle		0	0	111	Regular	
Shanai		0	0	112	Regular	
Shanai2		0	64	112	Regular	
Pungi		0	96	112	Regular	
Hichiriki		0	97	112	Regular	
Percussive		TinkleBell	0	0	113	Regular
		Bonang	0	96	113	Regular
		Altair	0	97	113	Regular
		GamelanGongs	0	98	113	Regular
		StereoGamlan	0	99	113	Regular
		RamaCymbal	0	100	113	Regular

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Percussive	AsianBells	0	101	113	Regular	
	Agogo	0	0	114	Regular	
	SteelDrums	0	0	115	Regular	
	GlassPerc.	0	97	115	Regular	
	ThaiBells	0	98	115	Regular	
	Woodblock	0	0	116	Regular	
	Castanets	0	96	116	Regular	
	TaikoDrum	0	0	117	Regular	
	GranCassa	0	96	117	Regular	
	MelodicTom	0	0	118	Regular	
	MelodicTom2	0	64	118	Regular	
	RealTom	0	65	118	Regular	
	RockTom	0	66	118	Regular	
	SynthDrum	0	0	119	Regular	
	AnalogTom	0	64	119	Regular	
	ElectroPerc.	0	65	119	Regular	
	Rev.Cymbal	0	0	120	Regular	
	Sound Effect	GtrFretNoise	0	0	121	Regular
		BreathNoise	0	0	122	Regular
		Seashore	0	0	123	Regular
		BirdTweet	0	0	124	Regular
		TelephonRing	0	0	125	Regular
		Helicopter	0	0	126	Regular
		Applause	0	0	127	Regular
		Gunshot	0	0	128	Regular
		CuttingNoise	64	0	1	Regular
		CuttingNoiz2	64	0	2	Regular
StringSlap		64	0	4	Regular	
Fl.KeyClick		64	0	17	Regular	
Shower		64	0	33	Regular	
Thunder		64	0	34	Regular	
Wind		64	0	35	Regular	
Stream		64	0	36	Regular	
Bubble		64	0	37	Regular	
Feed		64	0	38	Regular	
Dog		64	0	49	Regular	
Horse		64	0	50	Regular	
BirdTweet2		64	0	51	Regular	
Ghost		64	0	55	Regular	
Maou		64	0	56	Regular	
PhoneCall		64	0	65	Regular	
DoorSqueak		64	0	66	Regular	
DoorSlam		64	0	67	Regular	
ScratchCut		64	0	68	Regular	
ScratchSplit		64	0	69	Regular	
WindChime		64	0	70	Regular	
TelphonRing2		64	0	71	Regular	
CarEngineIgn		64	0	81	Regular	
CarTiresSqel		64	0	82	Regular	
CarPassing		64	0	83	Regular	
CarCrash		64	0	84	Regular	
Siren		64	0	85	Regular	
Train		64	0	86	Regular	
JetPlane		64	0	87	Regular	
Starship		64	0	88	Regular	
Burst		64	0	89	Regular	
RollrCoaster		64	0	90	Regular	
Submarine		64	0	91	Regular	
Laugh		64	0	97	Regular	
Scream		64	0	98	Regular	
Punch		64	0	99	Regular	
Heartbeat		64	0	100	Regular	
FootSteps		64	0	101	Regular	
MachineGun		64	0	113	Regular	
LaserGun	64	0	114	Regular		
Explosion	64	0	115	Regular		
Firework	64	0	116	Regular		

GM 2

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Piano	GrandPiano	121	0	1	Regular	
	GrandPianoW	121	1	1	Regular	
	GrandPianoD	121	2	1	Regular	
	BrightPiano	121	0	2	Regular	
	BrightPianoW	121	1	2	Regular	
	ElecGrandPno	121	0	3	Regular	
	ElecGrandPW	121	1	3	Regular	
	Honkytonk	121	0	4	Regular	
	HonkytonkW	121	1	4	Regular	
	El.Piano1	121	0	5	Regular	
	DetunedEP1	121	1	5	Regular	
	EP1VeloMix	121	2	5	Regular	
	60'sEl.Piano	121	3	5	Regular	
	El.Piano2	121	0	6	Regular	
	DetunedEP2	121	1	6	Regular	
	EP2VeloMix	121	2	6	Regular	
	EPLegend	121	3	6	Regular	
	EPPPhase	121	4	6	Regular	
	Harpsichord	121	0	7	Regular	
	Harpsi.OctMx	121	1	7	Regular	
	HarpsichordW	121	2	7	Regular	
	Harpsi.KOff	121	3	7	Regular	
	Clavi.	121	0	8	Regular	
	PulseClavi.	121	1	8	Regular	
	ChromaticPerc	Celesta	121	0	9	Regular
		Glockenspiel	121	0	10	Regular
		MusicBox	121	0	11	Regular
		Vibraphone	121	0	12	Regular
		VibraphoneW	121	1	12	Regular
		Marimba	121	0	13	Regular
		MarimbaW	121	1	13	Regular
		Xylophone	121	0	14	Regular
		TubularBells	121	0	15	Regular
ChurchBells		121	1	15	Regular	
Carillon		121	2	15	Regular	
Dulcimer		121	0	16	Regular	
Organ		DrawbarOrgan	121	0	17	Regular
	DetDrawOrgan	121	1	17	Regular	
	It60'sOrgan	121	2	17	Regular	
	DrawbarOrg2	121	3	17	Regular	
	Perc.Organ	121	0	18	Regular	
	DetPercOrgan	121	1	18	Regular	
	Perc.Organ2	121	2	18	Regular	
	RockOrgan	121	0	19	Regular	
	ChurchOrgan	121	0	20	Regular	
	ChrchOrgOctM	121	1	20	Regular	
	DetChurchOrg	121	2	20	Regular	
	ReedOrgan	121	0	21	Regular	
	PuffOrgan	121	1	21	Regular	
	Accordion	121	0	22	Regular	
	Accordion2	121	1	22	Regular	
	Harmonica	121	0	23	Regular	
	TangoAccord	121	0	24	Regular	
Guitar	NylonGuitar	121	0	25	Regular	
	Ukulele	121	1	25	Regular	
	NylonGtrKOff	121	2	25	Regular	
	NylonGuitar2	121	3	25	Regular	
	SteelGuitar	121	0	26	Regular	
	12StrGuitar	121	1	26	Regular	
	Mandolin	121	2	26	Regular	
	Steel&Body	121	3	26	Regular	
	JazzGuitar	121	0	27	Regular	
	PedlSteelGtr	121	1	27	Regular	
	CleanGuitar	121	0	28	Regular	
	DetCleanGtr	121	1	28	Regular	
	MidToneGtr	121	2	28	Regular	
	MutedGuitar	121	0	29	Regular	
	FunkGuitar	121	1	29	Regular	
	MutedV-SwGtr	121	2	29	Regular	
	JazzMan	121	3	29	Regular	
	Overdriven	121	0	30	Regular	
	GuitarPinch	121	1	30	Regular	
	Distortion	121	0	31	Regular	
	FeedbackGtr	121	1	31	Regular	
	DstRhythmGtr	121	2	31	Regular	
	GtrHarmonics	121	0	32	Regular	
GtrFeedback	121	1	32	Regular		
Bass	AcousticBass	121	0	33	Regular	
	FingerBass	121	0	34	Regular	
	FingerSlap	121	1	34	Regular	
	PickBass	121	0	35	Regular	
	FretlessBass	121	0	36	Regular	
	SlapBass1	121	0	37	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Bass	SlapBass2	121	0	38	Regular
	SynthBass1	121	0	39	Regular
	WarmSyBass	121	1	39	Regular
	ResoSynhBass	121	2	39	Regular
	ClaviBass	121	3	39	Regular
	Hammer	121	4	39	Regular
	SynthBass2	121	0	40	Regular
	AttackBass	121	1	40	Regular
	RubberBass	121	2	40	Regular
	AttackPulse	121	3	40	Regular
Strings	Violin	121	0	41	Regular
	SlwAtkViolin	121	1	41	Regular
	Viola	121	0	42	Regular
	Cello	121	0	43	Regular
	Contrabass	121	0	44	Regular
	Trem.Strings	121	0	45	Regular
	PizzicatoStr	121	0	46	Regular
	Orch.Harp	121	0	47	Regular
	YangChin	121	1	47	Regular
	Timpani	121	0	48	Regular
Ensemble	Strings1	121	0	49	Regular
	StringsBrass	121	1	49	Regular
	60'sStrings	121	2	49	Regular
	Strings2	121	0	50	Regular
	SynStrings1	121	0	51	Regular
	SynStrings3	121	1	51	Regular
	SynStrings2	121	0	52	Regular
	ChoirAahs	121	0	53	Regular
	ChoirAahs2	121	1	53	Regular
	VoiceOohs	121	0	54	Regular
	Humming	121	1	54	Regular
	SynthVoice	121	0	55	Regular
	AnalogVoice	121	1	55	Regular
	OrchestraHit	121	0	56	Regular
	BassHitPlus	121	1	56	Regular
6thHit	121	2	56	Regular	
EuroHit	121	3	56	Regular	
Brass	Trumpet	121	0	57	Regular
	DarkTpSoft	121	1	57	Regular
	Trombone	121	0	58	Regular
	Trombone2	121	1	58	Regular
	BriteTrombon	121	2	58	Regular
	Tuba	121	0	59	Regular
	MutedTrumpet	121	0	60	Regular
	MuteTrumpet2	121	1	60	Regular
	FrenchHorn	121	0	61	Regular
	FrenchHorn2	121	1	61	Regular
	BrassSection	121	0	62	Regular
	BrassSect2	121	1	62	Regular
	SynthBrass1	121	0	63	Regular
	SynthBrass3	121	1	63	Regular
	AnaSynBrass1	121	2	63	Regular
JumpBrass	121	3	63	Regular	
SynthBrass2	121	0	64	Regular	
SynthBrass4	121	1	64	Regular	
AnaSynBrass2	121	2	64	Regular	
Reed	SopranoSax	121	0	65	Regular
	AltoSax	121	0	66	Regular
	TenorSax	121	0	67	Regular
	BaritoneSax	121	0	68	Regular
	Oboe	121	0	69	Regular
	EnglishHorn	121	0	70	Regular
	Bassoon	121	0	71	Regular
	Clarinet	121	0	72	Regular
Pipe	Piccolo	121	0	73	Regular
	Flute	121	0	74	Regular
	Recorder	121	0	75	Regular
	PanFlute	121	0	76	Regular
	BlownBottle	121	0	77	Regular
	Shakuhachi	121	0	78	Regular
	Whistle	121	0	79	Regular
	Ocarina	121	0	80	Regular
Synth.Lead	SquareLead	121	0	81	Regular
	SquareLead2	121	1	81	Regular
	SineLead	121	2	81	Regular
	SawtoothLead	121	0	82	Regular
	SawtoothLd2	121	1	82	Regular
	SawPulseLead	121	2	82	Regular
	DoubSawLead	121	3	82	Regular
	Seq.Analog	121	4	82	Regular
	CalliopeLead	121	0	83	Regular
	ChiffLead	121	0	84	Regular
CharangLead	121	0	85	Regular	

GM 2

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Synth.Lead	WireLead	121	1	85	Regular	
	VoiceLead	121	0	86	Regular	
	FifthsLead	121	0	87	Regular	
	Bass&Lead	121	0	88	Regular	
	SoftWhirl	121	1	88	Regular	
Synth.Pad	NewAgePad	121	0	89	Regular	
	WarmPad	121	0	90	Regular	
	SinePad	121	1	90	Regular	
	PolySynthPad	121	0	91	Regular	
	ChoirPad	121	0	92	Regular	
	ItopiaPad	121	1	92	Regular	
	BowedPad	121	0	93	Regular	
	MetallicPad	121	0	94	Regular	
	HaloPad	121	0	95	Regular	
	SweepPad	121	0	96	Regular	
	Synth.Effect	Rain	121	0	97	Regular
SoundTrack		121	0	98	Regular	
Crystal		121	0	99	Regular	
SynthMallet		121	1	99	Regular	
Atmosphere		121	0	100	Regular	
Brightness		121	0	101	Regular	
Goblins		121	0	102	Regular	
Echoes		121	0	103	Regular	
EchoBell		121	1	103	Regular	
EchoPan		121	2	103	Regular	
Sci-Fi		121	0	104	Regular	
Ethnic		Sitar	121	0	105	Regular
		Sitar2	121	1	105	Regular
	Banjo	121	0	106	Regular	
	Shamisen	121	0	107	Regular	
	Koto	121	0	108	Regular	
	TaishoKoto	121	1	108	Regular	
	Kalimba	121	0	109	Regular	
	Bagpipe	121	0	110	Regular	
	Fiddle	121	0	111	Regular	
	Shanai	121	0	112	Regular	
Percussive	TinkleBell	121	0	113	Regular	
	Agogo	121	0	114	Regular	
	SteelDrums	121	0	115	Regular	
	Woodblock	121	0	116	Regular	
	Castanets	121	1	116	Regular	
	TaikoDrum	121	0	117	Regular	
	ConcertBD	121	1	117	Regular	
	MelodicTom	121	0	118	Regular	
	MelodicTom2	121	1	118	Regular	
	SynthDrum	121	0	119	Regular	
	RhythmBoxTom	121	1	119	Regular	
	ElectricDrum	121	2	119	Regular	
	Rev.Cymbal	121	0	120	Regular	
SoundEffect	GtrFretNoise	121	0	121	Regular	
	GtrCutNoise	121	1	121	Regular	
	StringSlap	121	2	121	Regular	
	BreathNoise	121	0	122	Regular	
	Fl.KeyClick	121	1	122	Regular	
	Seashore	121	0	123	Regular	
	Rain	121	1	123	Regular	
	Thunder	121	2	123	Regular	
	Wind	121	3	123	Regular	
	Stream	121	4	123	Regular	
	Bubble	121	5	123	Regular	
	BirdTweet	121	0	124	Regular	
	Dog	121	1	124	Regular	
	HorseGallop	121	2	124	Regular	
	BirdTweet2	121	3	124	Regular	
	TelephonRing	121	0	125	Regular	
	TelRing2	121	1	125	Regular	
	DoorCreaking	121	2	125	Regular	
	Door	121	3	125	Regular	
	Scratch	121	4	125	Regular	
	WindChime	121	5	125	Regular	
	Helicopter	121	0	126	Regular	
	CarEngine	121	1	126	Regular	
	CarStop	121	2	126	Regular	
	CarPass	121	3	126	Regular	
	CarCrash	121	4	126	Regular	
	Siren	121	5	126	Regular	
	Train	121	6	126	Regular	
	Jetplane	121	7	126	Regular	
	Starship	121	8	126	Regular	
	BurstNoise	121	9	126	Regular	
	Applause	121	0	127	Regular	
	Laughing	121	1	127	Regular	
	Screaming	121	2	127	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
SoundEffect	Punch	121	3	127	Regular
	HeartBeat	121	4	127	Regular
	Footsteps	121	5	127	Regular
	Gunshot	121	0	128	Regular
	MachineGun	121	1	128	Regular
	LaserGun	121	2	128	Regular
	Explosion	121	3	128	Regular
	StandardSet	120	0	1	Drums
	RoomSet	120	0	9	Drums
	PowerSet	120	0	17	Drums
	ElectroSet	120	0	25	Drums
	AnalogSet	120	0	26	Drums
	JazzSet	120	0	33	Drums
	BrushSet	120	0	41	Drums
	OrchestraSet	120	0	49	Drums
	SFXSet	120	0	57	Drums

Mega Voice Map / Sound-Zuordnungen der Mega Voices / Carte des voix Mega / Mapa de Mega Voice

MSB (0-127)	8			8			8			8			
LSB (0-127)	0			0			0			1			
PRG (0-127)	0			1			2			2			
PRG (1-128)	1			2			3			3			
Voice Name	NylonGuitar			SteelGuitar			HiStringGtr			12StringGtr			
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5		above C6	above C8
										Element1 (Steel)	Element2 (HiString)		
127	127	127	127	127	127	127	127	127	127	127	127	127	127
	Harmonics			Harmonics							Hard		
120	121 120			121 120							116 115		
	Slide			Slide					Hard		Hard		
110	106 105			106 105									
	Hammer			Hammer							Medium		
100	91 90			91 90			90 89					90 89	
	Mute			Mute					Strum Noise	Fret Noise			
80	76 75			76 75									
	Dead			Dead									
70	61 60	Strum Noise	Fret Noise	61 60	Strum Noise	Fret Noise							
	Open Hard			Open Hard									
60	41 40			41 40					Soft				
	Open Medium			Open Medium							Soft		
50	21 20			21 20									
	Open Soft			Open Soft									
10	1	1	1	1	1	1	1	1	1	1	1	1	1

 : No Sound

Mega Voice Map / Sound-Zuordnungen der Mega Voices / Carte des voix Mega / Mapa de Mega Voice

MSB (0-127)	8			8			8			8			8		
LSB (0-127)	0			1			2			0			0		
PRG (0-127)	3			3			3			4			5		
PRG (1-128)	4			4			4			5			6		
Voice Name	CleanGuitar			SolidGuitar1			SolidGuitar2			OverdriveGtr			DistortionGtr		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127 Pick Harmonics	127	127	127 Pick Harmonics	127	127	127 Pick Harmonics	127	127	127	127 Pick Harmonics	127		127 Pick Harmonics	127
120	121			121			121			121			121		
120	120			120			120			120			120		
110	Slide			Slide			Slide								
106				106			106								
105				105			105								
100	Hammer			Hammer			Hammer								
91				91			91								
90	90			90			90				Mute		Mute		
80	Mute			Mute			Mute						Mute		
76				76			76								
75				75			75								
70	Dead			Dead			Dead								
61		Strum Noise	Fret Noise	61	Strum Noise	Fret Noise	61	Strum Noise	Fret Noise		EFX			EFX	
60	60			60			60								
56										56			56		
55										55			55		
50	Slap			Slap			Open Hard								
41				41			41								
40				40			40								
30	Open Hard			Open Hard			Open Medium								
21				21			21				Open		Open		
20	20			20			20								
10	Open Soft			Open Soft			Open Soft								
1	1	1	1	1	1	1	1	1	1	1	1		1	1	

 : No Sound

Mega Voice Map / Sound-Zuordnungen der Mega Voices / Carte des voix Mega / Mapa de Mega Voice

MSB (0-127)	8			8			8			8		
LSB (0-127)	0			0			0			0		
PRG (0-127)	16			17			18			19		
PRG (1-128)	17			18			19			20		
Voice Name	AcousticBass			ElectricBass			PickBass			FretlessBass		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127	127		127	127		127	127		127	127	
	Harmonics			Slap			Harmonics			Harmonics		
120	121			121			121			121		
	120			120			120			120		
110												
100	Dead			Dead			Dead			Dead		
90												
80	81			81			81			81		
	80			80			80			80		
70	Open Hard			Open Hard								
60		EFX			EFX			EFX			EFX	
	61			61			Mute					
	60			60								
50												
40							41			Open		
							40					
30	Open Soft			Open Soft								
20							Open					
10												
1	1	1		1	1		1	1		1	1	

 : No Sound

Mega Voice Map / Sound-Zuordnungen der Mega Voices / Carte des voix Mega / Mapa de Mega Voice

MSB (0-127)	8			8			8			8			8		
LSB (0-127)	0			0			0			0			0		
PRG (0-127)	48			49			56			64			82		
PRG (1-128)	49			50			57			65			83		
Voice Name	SmallStrings			LargeStrings			Brass			Trumpet			TenorSax		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127			127			127			127	127	127	127	127	127
	Glissando Down			Glissando Down			Glissando Up			Glissando Up					
120	121			121			121			121					
	Tremolo			Tremolo			Falls Fast f			Falls			Falls		
110	111			111			111			111					
	110			110			110			110					
	Spicato ff			Spicato ff			Falls Fast mf			Shake					
100	96			96			101			101			101		
	95			95			100			100			100		
							Shake								
90							91			Straight					
	Spicato f			Spicato f			90								
							Scoops								
80	81			81			81			81			81		
	80			80			80			80			80		
	Legato			Legato			Attack			Legato			Legato		
70															
	61			61			61			61			61		
	60			60			60			60			60		
	f			f			f			ff			f		
50															
	41			41			41			41			41		
	40			40			40			40			40		
	mf			mf			mf			f			mf		
30															
	21			21			21			21			21		
	20			20			20			20			20		
	p			p			p			mf			mp		
10															
1	1			1			1			1	1	1	1	1	1

 : No Sound

Drum/key Assignment List / Liste der Tastenzuordnungen der Schlaginstrumente / Liste d'assignation instrument de batterie/touche du clavier / Lista de asignación de teclas/batería

Panel Drum Kit/XG Drum Kit

Same as Standard Kit 1

No Sound

Bank Select MSB (0-127)					127	127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0	0
Program Change (0-127)					0	1	4	8	16	24
Program Change (1-128)					1	2	5	9	17	25
MIDI		Keyboad Note	Key Off (*1)	Alternate Group (*2)	Standard Kit 1	Standard Kit 2	Hit Kit	Room Kit	Rock Kit	Electro Kit
Note#	Note									
13	C#-1	C#1		3	Surdo Mute					
14	D-1	D1		3	Surdo Open					
15	D#-1	D#1			Hi Q					
16	E-1	E1			Whip Slap					
17	F-1	F1		4	Scratch H					
18	F#-1	F#1		4	Scratch L					
19	G-1	G1			Finger Snap					
20	G#-1	G#1			Click Noise					
21	A-1	A1			Metronome Click					
22	A#-1	A#1			Metronome Bell					
23	B-1	B1			Seq Click L					
24	C0	C2			Seq Click H					
25	C#0	C#2			Brush Tap					
26	D0	D2	●		Brush Swirl					
27	D#0	D#2			Brush Slap					
28	E0	E2	●		Brush Tap Swirl					Reverse Cymbal
29	F0	F2	●		Snare Roll					
30	F#0	F#2			Castanet					Hi Q 2
31	G0	G2			Snare Soft	Snare Soft 2	Snare Electro		Snare Noisy	Snare Snappy Electro
32	G#0	G#2			Sticks					
33	A0	A2			Kick Soft		Kick Tight L			Kick 3
34	A#0	A#2			Open Rim Shot	Open Rim Shot H Short	Snare Pitched			
35	B0	B2			Kick Tight		Kick Wet		Kick 2	Kick Gate
36	C1	C3			Kick	Kick Short	Kick Tight H		Kick Gate	Kick Gate Heavy
37	C#1	C#3			Side Stick	Side Stick Light	Stick Ambient			
38	D1	D3			Snare	Snare Short	Snare Ambient	Snare Snappy	Snare Rock	Snare Noisy 2
39	D#1	D#3			Hand Clap					
40	E1	E3			Snare Tight	Snare Tight H	Snare Tight 2	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 3
41	F1	F3			Floor Tom L		Hybrid Tom 1	Tom Room 1	Tom Rock 1	Tom Electro 1
42	F#1	F#3		1	Hi-Hat Closed		Hi-Hat Closed 2			
43	G1	G3			Floor Tom H		Hybrid Tom 2	Tom Room 2	Tom Rock 2	Tom Electro 2
44	G#1	G#3		1	Hi-Hat Pedal		Hi-Hat Pedal 2			
45	A1	A3			Low Tom		Hybrid Tom 3	Tom Room 3	Tom Rock 3	Tom Electro 3
46	A#1	A#3		1	Hi-Hat Open		Hi-Hat Open 2			
47	B1	B3			Mid Tom L		Hybrid Tom 4	Tom Room 4	Tom Rock 4	Tom Electro 4
48	C2	C4			Mid Tom H		Hybrid Tom 5	Tom Room 5	Tom Rock 5	Tom Electro 5
49	C#2	C#4			Crash Cymbal 1					
50	D2	D4			High Tom		Hybrid Tom 6	Tom Room 6	Tom Rock 6	Tom Electro 6
51	D#2	D#4			Ride Cymbal 1					
52	E2	E4			Chinese Cymbal					
53	F2	F4			Ride Cymbal Cup					
54	F#2	F#4			Tambourine		Tambourine Light			
55	G2	G4			Splash Cymbal					
56	G#2	G#4			Cowbell					
57	A2	A4			Crash Cymbal 2					
58	A#2	A#4			Vibraslap					
59	B2	B4			Ride Cymbal 2					
60	C3	C5			Bongo H					
61	C#3	C#5			Bongo L					
62	D3	D5			Conga H Mute					
63	D#3	D#5			Conga H Open					
64	E3	E5			Conga L					
65	F3	F5			Timbale H					
66	F#3	F#5			Timbale L					
67	G3	G5			Agogo H					
68	G#3	G#5			Agogo L					
69	A3	A5			Cabasa					
70	A#3	A#5			Maracas					
71	B3	B5	●		Samba Whistle H					
72	C4	C6	●		Samba Whistle L					
73	C#4	C#6			Guiro Short					
74	D4	D6	●		Guiro Long					
75	D#4	D#6			Claves					
76	E4	E6			Wood Block H					
77	F4	F6			Wood Block L					
78	F#4	F#6			Cuica Mute					Scratch H 2
79	G4	G6			Cuica Open					Scratch L 2
80	G#4	G#6		2	Triangle Mute					
81	A4	A6		2	Triangle Open					
82	A#4	A#6			Shaker					
83	B4	B6			Jingle Bells					
84	C5	C7			Bell Tree					
85	C#5 (C#7)									
86	D5 (D7)									
87	D#5 (D#7)									
88	E5 (E7)									
89	F5 (F7)									
90	F#5 (F#7)									
91	G5 (G7)									

Drum/key Assignment List / Liste der Tastenzuordnungen der Schlaginstrumente / Liste d'assignation instrument de batterie/touche du clavier / Lista de asignación de teclas/batería

Bank Select MSB (0-127)					127	127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0	0
Program Change (0-127)					25	27	32	40	48	86
Program Change (1-128)					26	28	33	41	49	87
MIDI		Keyboard Note	Key Off (*1)	Alternate Group (*2)	Analog Kit	Dance Kit	Jazz Kit	Brush Kit	Symphony Kit	Studio Kit
Note#	Note	Note								
13	C#-1	C#1		3		Kick Dance 1				
14	D-1	D1		3		Kick Dance 2				
15	D#-1	D#1								
16	E-1	E1								
17	F-1	F1		4		Scratch Dance 1				
18	F#-1	F#1		4		Scratch Dance 2				
19	G-1	G1								
20	G#-1	G#1								
21	A-1	A1				Dance Perc 1				
22	A#-1	A#1				Reverse Dance 1				
23	B-1	B1				Dance Perc 2				
24	C0	C2				Hi Q Dance 1				
25	C#0	C#2				Snare Analog 3				Brush Tap
26	D0	D2	●			Vinyl Noise				Brush Swirl
27	D#0	D#2				Snare Analog 4				Brush Slap
28	E0	E2	●		Reverse Cymbal	Reverse Cymbal				Brush Tap Swirl
29	F0	F2	●			Reverse Dance 2				Snare Roll
30	F#0	F#2			Hi Q 2	Hi Q 2				
31	G0	G2			Snare Noisy 4	Snare Techno	Snare Jazz H	Brush Slap 2		Snare Studio L
32	G#0	G#2				Snare Dance 1				
33	A0	A2			Kick 3	Kick Techno Q			Kick Soft 2	Kick Amb H
34	A#0	A#2				Rim Gate		Open Rim Shot Light		Open Rim Shot
35	B0	B2			Kick Analog Short	Kick Techno L			Gran Cassa	Kick Amb L
36	C1	C3			Kick Analog	Kick Techno	Kick Jazz	Kick Jazz	Gran Cassa Mute	Kick Studio
37	C#1	C#3			Side Stick Analog	Side Stick Analog	Side Stick Light	Side Stick Light		Side Stick
38	D1	D3			Snare Analog	Snare Clap	Snare Jazz L	Brush Slap 3	Band Snare	Snare Studio M
39	D#1	D#3				Dance Clap				Hand Clap
40	E1	E3			Snare Analog 2	Snare Dry	Snare Jazz M	Brush Tap 2	Band Snare 2	Snare Studio L
41	F1	F3			Tom Analog 1	Tom Analog 1		Tom Brush 1		Floor Tom L
42	F#1	F#3		1	Hi-Hat Closed Analog	Hi-Hat Closed 3				Hi-Hat Closed
43	G1	G3			Tom Analog 2	Tom Analog 2		Tom Brush 2		Floor Tom H
44	G#1	G#3		1	Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3				Hi-Hat Pedal
45	A1	A3			Tom Analog 3	Tom Analog 3		Tom Brush 3		Low Tom
46	A#1	A#3		1	Hi-Hat Open Analog	Hi-Hat Open 3				Hi-Hat Open
47	B1	B3			Tom Analog 4	Tom Analog 4		Tom Brush 4		Mid Tom L
48	C2	C4			Tom Analog 5	Tom Analog 5		Tom Brush 5		Mid Tom H
49	C#2	C#4			Crash Analog	Crash Analog			Hand Cymbal	Crash Cymbal 1
50	D2	D4			Tom Analog 6	Tom Analog 6		Tom Brush 6		High Tom
51	D#2	D#4							Hand Cymbal Short	Ride Cymbal 1
52	E2	E4								Chinese Cymbal
53	F2	F4								Ride Cymbal Cup
54	F#2	F#4				Tambourine Analog				Tambourine
55	G2	G4								Splash Cymbal
56	G#2	G#4			Cowbell Analog	Cowbell Dance				Cowbell
57	A2	A4							Hand Cymbal 2	Crash Cymbal 2
58	A#2	A#4				Vbraslap Analog				
59	B2	B4				Ride Analog			Hand Cymbal 2 Short	Ride Cymbal 2
60	C3	C5				Bongo Analog H				Bongo H
61	C#3	C#5				Bongo Analog L				Bongo L
62	D3	D5			Conga Analog H	Conga Analog H				Conga H Mute
63	D#3	D#5			Conga Analog M	Conga Analog M				Conga H Open
64	E3	E5			Conga Analog L	Conga Analog L				Conga L
65	F3	F5								Timbale H
66	F#3	F#5								Timbale L
67	G3	G5								
68	G#3	G#5								
69	A3	A5								Cabasa
70	A#3	A#5			Maracas 2	Maracas 2				Maracas
71	B3	B5	●							
72	C4	C6	●							
73	C#4	C#6								Guiro Short
74	D4	D6	●							Guiro Long
75	D#4	D#6			Claves 2	Claves 2				
76	E4	E6				Dance Perc 3				
77	F4	F6				Dance Perc 4				
78	F#4	F#6			Scratch H 2	Dance Breath 1				Cuica Mute
79	G4	G6			Scratch L 2	Dance Breath 2				Cuica Open
80	G#4	G#6		2						Triangle Mute
81	A4	A6		2						Triangle Open
82	A#4	A#6								Shaker
83	B4	B6								
84	C5	C7								Wind Chime
85	C#5	(C#7)								
86	D5	(D7)								
87	D#5	(D#7)								
88	E5	(E7)								
89	F5	(F7)								
90	F#5	(F#7)								
91	G5	(G7)								

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Bank Select MSB (0-127)					127	127
Bank Select LSB (0-127)					0	0
Program Change (0-127)					87	88
Program Change (1-128)					88	89
MIDI		Keyboard	Key	Alternate	Power Kit 1	Power Kit 2
Note#	Note	Note	Off (*1)	Group (*2)		
13	C#-1	C#1		3		
14	D-1	D1		3		
15	D#-1	D#1				
16	E-1	E1				
17	F-1	F1		4		
18	F#-1	F#1		4		
19	G-1	G1				
20	G#-1	G#1				
21	A-1	A1				
22	A#-1	A#1				
23	B-1	B1				
24	C0	C2				
25	C#0	C#2				
26	D0	D2	●			
27	D#0	D#2				
28	E0	E2	●			
29	F0	F2	●			
30	F#0	F#2				
31	G0	G2			Snare Soft Power 1	Snare Soft Power 2
32	G#0	G#2				
33	A0	A2			Kick Amb+	Kick Amb+
34	A#0	A#2			Open Rim Power 1	Open Rim Power 2
35	B0	B2			Kick Power Open	Kick Power Open
36	C1	C3			Kick Power Closed	Kick Power Closed
37	C#1	C#3			Side Stick Power	Side Stick Power
38	D1	D3			Snare Power	Snare Power Snappy
39	D#1	D#3			Hand Clap Power	Hand Clap Power
40	E1	E3			Snare Rough	Snare Loose
41	F1	F3			Tom Power 1	Tom Power 1
42	F#1	F#3		1	Hi-Hat Closed Power	Hi-Hat Closed Power+Edge
43	G1	G3			Tom Power 2	Tom Power 2
44	G#1	G#3		1	Hi-Hat Pedal Power	Hi-Hat Pedal Power
45	A1	A3			Tom Power 3	Tom Power 3
46	A#1	A#3		1	Hi-Hat Open Power	Hi-Hat Open Power
47	B1	B3			Tom Power 4	Tom Power 4
48	C2	C4			Tom Power 5	Tom Power 5
49	C#2	C#4				
50	D2	D4			Tom Power 6	Tom Power 6
51	D#2	D#4				
52	E2	E4				
53	F2	F4				
54	F#2	F#4				
55	G2	G4				
56	G#2	G#4				
57	A2	A4				
58	A#2	A#4				
59	B2	B4				
60	C3	C5				
61	C#3	C#5				
62	D3	D5				
63	D#3	D#5				
64	E3	E5				
65	F3	F5				
66	F#3	F#5				
67	G3	G5				
68	G#3	G#5				
69	A3	A5				
70	A#3	A#5				
71	B3	B5	●			
72	C4	C6	●			
73	C#4	C#6				
74	D4	D6	●			
75	D#4	D#6				
76	E4	E6				
77	F4	F6				
78	F#4	F#6				
79	G4	G6				
80	G#4	G#6		2		
81	A4	A6		2		
82	A#4	A#6				
83	B4	B6				
84	C5	C7				
85	C#5	(C#7)				
86	D5	(D7)				
87	D#5	(D#7)				
88	E5	(E7)				
89	F5	(F7)				
90	F#5	(F#7)				
91	G5	(G7)				

Same as Standard Kit 1

No Sound

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

*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.

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Bank Select MSB (0-127)			126	126	126	126	126
Bank Select LSB (0-127)			0	0	0	0	0
Program Change (0-127)			35	0	1	40	43
Program Change (1-128)			36	1	2	41	44
MIDI			Arabic Kit	SFX Kit 1*	SFX Kit 2*	Cuban Kit	PopLatin Kit
Note#	Note	Keyboard Note					
13	C#-1	C#1					Cajon Low
14	D-1	D1					Cajon Slap
15	D#-1	D#1					Cajon Tip
16	E-1	E1					Claves High
17	F-1	F1					Claves Low
18	F#-1	F#1					Hand Clap
19	G-1	G1					
20	G#-1	G#1					Finger Snap
21	A-1	A1					Castanet
22	A#-1	A#1					
23	B-1	B1				Conga H Tip	Conga H Tip
24	C0	C2	Nakarazan Dom			Conga H Heel	Conga H Heel
25	C#0	C#2	Cabasa			Conga H Open	Conga H Open
26	D0	D2	Nakarazan Edge			Conga H Mute	Conga H Mute
27	D#0	D#2	Hager Dom			Conga H Slap Open	Conga H Slap Open
28	E0	E2	Hager Edge			Conga H Slap	Conga H Slap
29	F0	F2	Bongo H			Conga H Slap Mute	Conga H Slap Mute
30	F#0	F#2	Bongo L			Conga L Tip	Conga L Tip
31	G0	G2	Conga H Mute			Conga L Heel	Conga L Heel
32	G#0	G#2	Conga H Open			Conga L Open	Conga L Open
33	A0	A2	Conga L			Conga L Mute	Conga L Mute
34	A#0	A#2	Zagrouda H			Conga L Slap Open	Conga L Slap Open
35	B0	B2	Zagrouda L			Conga L Slap	Conga L Slap
36	C1	C3	Kick Soft	Cutting Noise	Phone Call	Conga L Slide	Conga L Slide
37	C#1	C#3	Side Stick	Cutting Noise 2	Door Squeak	Bongo H Open 1 Finger	Bongo H Open 1 finger
38	D1	D3	Snare Soft		Door Slam	Bongo H Open 3 Finger	Bongo H Open 3 finger
39	D#1	D#3	Arabic Hand Clap	String Slap	Scratch Cut	Bongo H Rim	Bongo H Rim
40	E1	E3	Snare		Scratch H 3	Bongo H Tip	Bongo H Tip
41	F1	F3	Floor Tom L		Wind Chime	Bongo H Heel	Bongo H Heel
42	F#1	F#3	Hi-Hat Closed		Telephone Ring 2	Bongo H Slap	Bongo H Slap
43	G1	G3	Floor Tom H			Bongo L Open 1 Finger	Bongo L Open 1 finger
44	G#1	G#3	Hi-Hat Pedal			Bongo L Open 3 Finger	Bongo L Open 3 finger
45	A1	A3	Low Tom			Bongo L Rim	Bongo L Rim
46	A#1	A#3	Hi-Hat Open			Bongo L Tip	Bongo L Tip
47	B1	B3	Mid Tom L			Bongo L Heel	Bongo L Heel
48	C2	C4	Mid Tom H			Bongo L Slap	Bongo L Slap
49	C#2	C#4	Crash Cymbal 1			Timbale L Open	Timbale L Open
50	D2	D4	High Tom				
51	D#2	D#4	Ride Cymbal 1				
52	E2	E4	Crash Cymbal 2	Flute Key Click	Car Engine Ignition		
53	F2	F4	Duhulla Dom		Car Tires Squeal	Paila L	Paila L
54	F#2	F#4	Tambourine		Car Passing	Timbale H Open	Timbale H Open
55	G2	G4	Duhulla Tak		Car Crash		
56	G#2	G#4	Cowbell		Siren		
57	A2	A4	Duhulla Sak		Train		
58	A#2	A#4	Claves		Jet Plane		
59	B2	B4	Doff Dom		Starship	Paila H	Paila H
60	C3	C5	Kattem Dom		Burst	Cowbell Top	Cowbell Top
61	C#3	C#5	Kattem Tak		Roller Coaster		Cowbell 1
62	D3	D5	Kattem Sak		Submarine		Cowbell 2
63	D#3	D#5	Kattem Tak				Cowbell 3
64	E3	E5	Doff Tak			Guiro Short	Guiro Short
65	F3	F5	Tabla Dom			Guiro Long	Guiro Long
66	F#3	F#5	Tabla Tak1				Metal Guiro Short
67	G3	G5	Tabla Tik				Metal Guiro Long
68	G#3	G#5	Tabla Tak2	Shower	Laugh	Tambourine	Tambourine
69	A3	A5	Tabla Sak	Thunder	Scream		Tambourim Open
70	A#3	A#5	Tabla Roll of Edge	Wind	Punch		Tambourim Mute
71	B3	B5	Tabla Flam	Stream	Heart Beat		Tambourim Tip
72	C4	C6	Sagat 1	Bubble	Foot Steps	Maracas	Maracas
73	C#4	C#6	Tabel Dom	Feed		Shaker	Shaker
74	D4	D6	Sagat 3			Cabasa	Cabasa
75	D#4	D#6	Tabel Tak				Cuica Mute
76	E4	E6	Sagat 2				Cuica Open
77	F4	F6	Rik Dom				Cowbell High 1
78	F#4	F#6	Rik Tak 2				Cowbell High 2
79	G4	G6	Rik Finger 1				Shekere
80	G#4	G#6	Rik Tak 1				Shekere Tone
81	A4	A6	Rik Finger 2				Triangle Mute
82	A#4	A#6	Rik Brass Tremolo				Triangle Open
83	B4	B6	Rik Sak				
84	C5	C7	Rik Tik	Dog	Machine Gun		Wind Chime
85	C#5	(C#7)		Horse	Laser Gun		
86	D5	(D7)		Bird Tweet 2	Explosion		
87	D#5	(D#7)			Firework		
88	E5	(E7)					
89	F5	(F7)					
90	F#5	(F#7)		Ghost			
91	G5	(G7)		Maou			

* Actual Keyboard Notes of the SFX Kit 1 and 2 are one octave lower than the ones described in the above list.

GM2 Drum Kit / SFX Kit

Bank Select MSB (0-127)			120	120	120	120	120
Bank Select LSB (0-127)			0	0	0	0	0
Program Change (0-127)			0	8	16	24	25
Program Change (1-128)			1	9	17	25	26
MIDI			Standard Set	Room Set	Power Set	Electronic Set	Analog Set
Note#	Note	Keyboard Note					
13	C#-1	C#1					
14	D-1	D1					
15	D#-1	D#1					
16	E-1	E1					
17	F-1	F1					
18	F#-1	F#1					
19	G-1	G1					
20	G#-1	G#1					
21	A-1	A1					
22	A#-1	A#1					
23	B-1	B1					
24	C0	C2					
25	C#0	C#2					
26	D0	D2					
27	D#0	D#2	High Q				
28	E0	E2	Slap				
29	F0	F2	Scratch Push				
30	F#0	F#2	Scratch Pull				
31	G0	G2	Sticks				
32	G#0	G#2	Square Click				
33	A0	A2	Metronome Click				
34	A#0	A#2	Metronome Bell				
35	B0	B2	Acoustic Bass Drum				
36	C1	C3	Bass Drum 1		Power Kick Drum	Electric Bass Drum	Analog Bass Drum
37	C#1	C#3	Side Stick				Analog Rim Shot
38	D1	D3	Acoustic Snare		Power Snare Drum	Electric Snare 1	Analog Snare 1
39	D#1	D#3	Hand Clap				
40	E1	E3	Electric Snare			Electric Snare 2	
41	F1	F3	Low Floor Tom	Room Low Tom 2	Power Low Tom 2	Electric Low Tom 2	Analog Low Tom 2
42	F#1	F#3	Closed Hi-hat				Analog CHH 1
43	G1	G3	High Floor Tom	Room Low Tom 1	Power Low Tom 1	Electric Low Tom 1	Analog Low Tom 1
44	G#1	G#3	Pedal Hi-hat				Analog CHH 2
45	A1	A3	Low Tom	Room Mid Tom 2	Power Mid Tom 2	Electric Mid Tom 2	Analog Mid Tom 2
46	A#1	A#3	Open Hi-hat				Analog OHH
47	B1	B3	Low-Mid Tom	Room Mid Tom 1	Power Mid Tom 1	Electric Mid Tom 1	Analog Mid Tom 1
48	C2	C4	High Mid Tom	Room Hi Tom 2	Power Hi Tom 2	Electric Hi Tom 2	Analog Hi Tom 2
49	C#2	C#4	Crash Cymbal 1				Analog Cymbal
50	D2	D4	High Tom	Room Hi Tom 1	Power Hi Tom 1	Electric Hi Tom 1	Analog Hi Tom 1
51	D#2	D#4	Ride Cymbal 1				
52	E2	E4	Chinese Cymbal			Reverse Cymbal	
53	F2	F4	Ride Bell				
54	F#2	F#4	Tambourine				
55	G2	G4	Splash Cymbal				
56	G#2	G#4	Cowbell				Analog Cowbell
57	A2	A4	Crash Cymbal 2				
58	A#2	A#4	Vibra-slap				
59	B2	B4	Ride Cymbal 2				
60	C3	C5	High Bongo				
61	C#3	C#5	Low Bongo				
62	D3	D5	Mute Hi Conga				Analog High Conga
63	D#3	D#5	Open Hi Conga				Analog Mid Conga
64	E3	E5	Low Conga				Analog Low Conga
65	F3	F5	High Timbale				
66	F#3	F#5	Low Timbale				
67	G3	G5	High Agogo				
68	G#3	G#5	Low Agogo				
69	A3	A5	Cabasa				
70	A#3	A#5	Maracas				Analog Maracas
71	B3	B5	Short Whistle				
72	C4	C6	Long Whistle				
73	C#4	C#6	Short Guiro				
74	D4	D6	Long Guiro				
75	D#4	D#6	Claves				Analog Claves
76	E4	E6	Hi Wood Block				
77	F4	F6	Low Wood Block				
78	F#4	F#6	Mute Cuica				
79	G4	G6	Open Cuica				
80	G#4	G#6	Mute Triangle				
81	A4	A6	Open Triangle				
82	A#4	A#6	Shaker				
83	B4	B6	Jingle Bell				
84	C5	C7	Bell Tree				
85	C#5	(C#7)	Castanets				
86	D5	(D7)	Mute Surdo				
87	D#5	(D#7)	Open Surdo				
88	E5	(E7)					
89	F5	(F7)					
90	F#5	(F#7)					
91	G5	(G7)					

Drum/key Assignment List / Liste der Tastenzuordnungen der Schlaginstrumente / Liste d'assignation instrument de batterie/touche du clavier / Lista de asignación de teclas/batería

Bank Select MSB (0-127)			120	120	120	120
Bank Select LSB (0-127)			0	0	0	0
Program Change (0-127)			32	40	48	56
Program Change (1-128)			33	41	49	57
MIDI Keyboard Note			Jazz Set	Brush Set	Orchestra Set	SFX Set
Note#	Note	Note				
13	C#-1	C#1				
14	D-1	D1				
15	D#-1	D#1				
16	E-1	E1				
17	F-1	F1				
18	F#-1	F#1				
19	G-1	G1				
20	G#-1	G#1				
21	A-1	A1				
22	A#-1	A#1				
23	B-1	B1				
24	C0	C2				
25	C#0	C#2				
26	D0	D2				
27	D#0	D#2			Closed Hi-hat 2	
28	E0	E2			Pedal Hi-hat	
29	F0	F2			Open Hi-hat 2	
30	F#0	F#2			Ride Cymbal 1	
31	G0	G2				
32	G#0	G#2				
33	A0	A2				
34	A#0	A#2				
35	B0	B2	Jazz Kick 2	Jazz Kick 2	Concert BD 2	
36	C1	C3	Jazz Kick 1	Jazz Kick 1	Concert BD 1	
37	C#1	C#3				
38	D1	D3		Brush Tap	Concert SD	
39	D#1	D#3		Brush Slap	Castanets	High Q
40	E1	E3		Brush Swirl	Concert SD	Slap
41	F1	F3			Timpani F	Scratch Push
42	F#1	F#3			Timpani F#	Scratch Pull
43	G1	G3			Timpani G	Sticks
44	G#1	G#3			Timpani G#	Square Click
45	A1	A3			Timpani A	Metronome Click
46	A#1	A#3			Timpani A#	Metronome Bell
47	B1	B3			Timpani B	Guitar Fret
48	C2	C4			Timpani c	Guitar Cutting Noise Up
49	C#2	C#4			Timpani c#	Guitar Cutting Noise Down
50	D2	D4			Timpani d	String Slap of Double Bass
51	D#2	D#4			Timpani d#	Fl.Key Click
52	E2	E4			Timpani e	Laughing
53	F2	F4			Timpani f	Scream
54	F#2	F#4				Punch
55	G2	G4				Heart Beat
56	G#2	G#4				Footsteps 1
57	A2	A4			Concert Cymbal 2	Footsteps 2
58	A#2	A#4				Applause
59	B2	B4			Concert Cymbal 1	Door Creaking
60	C3	C5				Door
61	C#3	C#5				Scratch
62	D3	D5				Wind Chimes
63	D#3	D#5				Car-Engine
64	E3	E5				Car-Stop
65	F3	F5				Car-Pass
66	F#3	F#5				Car-Crash
67	G3	G5				Siren
68	G#3	G#5				Train
69	A3	A5				Jetplane
70	A#3	A#5				Helicopter
71	B3	B5				Starship
72	C4	C6				Gun Shot
73	C#4	C#6				Machine Gun
74	D4	D6				Lasergun
75	D#4	D#6				Explosion
76	E4	E6				Dog
77	F4	F6				Horse-Gallop
78	F#4	F#6				Birds
79	G4	G6				Rain
80	G#4	G#6				Thunder
81	A4	A6				Wind
82	A#4	A#6				Seashore
83	B4	B6				Stream
84	C5	C7				Bubble
85	C#5	(C#7)				
86	D5	(D7)				
87	D#5	(D#7)				
88	E5	(E7)			Applause	
89	F5	(F7)				
90	F#5	(F#7)				
91	G5	(G7)				

Same as Standard Kit 1
No Sound

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

Category	Style Name	
Pop&Rock	HardRock	
	PowerRock	
	FunkPopRock	
	ContempRock	
	AcousticRock	
	Classic8Beat	
	Utempo8Beat	
	Live8Beat	
	Cool8Beat	
	Straight8Pop	
	VintageGtrPop	
	ChartGuitarPop	
	Jammin'GtrPop	
	WestCoastPop	
	WestCoastPiano	
	OrchRockBallad	
	RockGtrBallad	
	BritPop	
	BritPopSwing	
	60'sChartSwing	
	60's8Beat	
	70's8Beat	
	BubblegumPop	
	60'sGuitarPop	
	90'sGuitarPop	
	60'sRock1	
	60'sRock2	
	StandardRock	
	CaribbeanRock	
	RockShuffle	
	Classic16Beat	
	8BeatModern	
	FusionShuffle	
	PopShuffle	
	KoolShuffle	
	JazzPop	
	Unplugged1	
	Unplugged2	
	ContempRockBld	
	SoftRock	
	8BeatGtrPop	
	J-PopHit1	
J-PopHit2		
Ballad	8BeatBallad1	
	8BeatBallad2	
	PopGtrBallad	
	EasyBallad	
	PowerBallad	
	16BeatBallad1	
	16BeatBallad2	
	80'sEPBallad	
	NewR&BBallad	
	UnpluggedChart	
	EpicBallad	
	EPBallad	
	OrganBallad	
	80'sMovieBallad	
	80'sBoyBand	
	6-8SlowRock	
	6-8AcousticPop	
	6-8Modern	
	6-8Orchestral	
	12-8Ballad	
	16BeatPop	
	Chillout1	
	Chillout2	
	PopWaltz	
	BroadwayBallad	
	MovieBallad	
	ClassicPianoBld	
	70'sPopBallad	
	70'sPianoBallad	
	8BeatAdria	
	PopPianoBallad	
	PianoBallad	
	LoveSong	
	ChartBallad	
	PopNewAge	
	AnalogBallad	
	GuitarBallad	
	GuitarSerenade	
	Dance	Ibiza1
		Ibiza2
		EuroTrance

Category	Style Name	
Dance	RetroPop	
	TrancePop	
	70'sDisco1	
	70'sDisco2	
	70'sDiscoFunk	
	DiscoPhilly	
	SaturdayNight	
	DreamDance	
	FrenchHouse	
	ClubHouse	
	DiscoTeens	
	House	
	ChartR&B	
	PopR&B	
	NewR&B	
	ClassicHipHop	
	NewHipHop	
	ChartPop1	
	ChartPop2	
	EuroHipHop	
	HipHopGroove	
	Garage	
	MovieDisco	
	DiscoChocolate	
	DiscoHouse	
	80'sDisco	
	TechnoParty	
	LatinDJ's	
	USPop	
	TripHop	
	6-8Trance	
	DiscoHands	
	Swing&Jazz	ModernBigBand
		ModBigBandBld
		ClassicBigBand
		OrchBigBand1
		OrchBigBand2
		TradPianoJazz
		ModernJazz
		AcousticJazz
		MediumJazz
		FastJazz
TradPianoBallad		
ModernJazzBld		
CoolJazzBallad		
MovieSwing1		
MovieSwing2		
Dixieland1		
Dixieland2		
Ragtime1		
Ragtime2		
Bebop		
BigBandFast1		
BigBandFast2		
BigBandMed		
30'sBigBand		
40'sBigBand		
OrchestraSwing1		
OrchestraSwing2		
JazzWaltzSlow		
JazzWaltzMed		
JazzWaltzFast		
MidnightSwing		
TapDanceSwing		
Five-Four		
AfroCuban		
FrenchJazz		
OrganCombo		
OrganGroove		
JumpJive		
MORSwing		
Swingin'BigBand		
EasyListening		
JazzClub		
MoviePanther		
BigBandShuffle		
Charleston		
R&B	BluesRock	
	70'sChartSoul	
	SoulBrothers	
	FranklySoul	
	JazzFunk	
LiveSoulBand		
SoulSwing		

Category	Style Name	
R&B	6-8Soul	
	R&BSoulBallad	
	SlowBlues	
	Rock&Roll1	
	Rock&RollShfl	
	Skiffle	
	OldiesR&R	
	MotorCity	
	Soul	
	SoulBeat	
	SoulShuffle	
	DetroitPop1	
	DetroitPop2	
	GospelSwing	
	GospelSisters	
	SouthernGospel	
	Worship6-8	
	WorshpPowerBld	
	WorshipSlow	
	WorshipMed	
	WorshipFast	
	ShuffleBlues	
	BlueberryBlues	
	60'sRock&Roll	
	Rock&Roll2	
	Swingin'Boogie	
	PianoBoogie	
	Twist	
	R&BBallad	
	LovelyShuffle	
	ModernR&B	
	ComboBoogie	
	BluesBallad	
	Country	NewCountry
		EasyCountry
		70'sChartCntry
		CountryStrum
		CountryHits
		Bluegrass
		Hoedown
		FolkPop
		CountryBallad
CountryPop		
CountrySwing		
CountryShuffle		
CntrySing-a-Long		
CountryTwoStep		
CountryWaltz		
ScandCountry1		
ScandCountry2		
ModCntryBld1		
ModCntryBld2		
Country2-4		
CountryBrothers		
Country8Beat		
CountrySwingRk		
FingerPickin		
Latin		BrazilianSamba
		BossaNova
		Bomba
	Salsa	
	Guajira	
	Guaguanco	
	Bachata	
	CubanSon	
	BoleroLento	
	Merengue	
	PopLatinBld	
	PopLatin	
	RumbaFlamenco1	
	LatinDisco	
	RockChaCha	
OrchestralBossa		
SlowBossa		
FastBossa		
PopBossa		
Beguine		
Calypso		
Danzon		
Cumbia		
HappyReggae		
SheriffReggae		
PopMambo		
PopSalsa		

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

Category	Style Name
Latin	GuitarRumba
	Rumbaisland
	RumbaFlamenco2
Ballroom	VienneseWaltz
	EnglishWaltz
	Slowfox
	Foxtrot
	Quickstep
	Tango
	Pasodoble
	Samba
	ChaChaCha
	Rumba
	Jive
	Swingfox
	OrganSwing
	OrganSamba
	OrganQuickstep
	OrganChaCha
	OrganRumba
	TheatreFoxtrot
	TheatreQuickstep
	TheatreMarch
9-8Waltz	
Entertainment	AniFantasy
	Sci-fiMarch
	SecretService
	70'sTVTheme
	WildWest
	BaroqueAir
	BaroqueConcerto
	ClassicalMenuet
	ClassicalSerenad
	OrchestralBolero
	OrchestralMarch
	OrchestralPolka
	PopClassics
	EuroPopOrgan
	70'sFrenchHit
	French50's
	DiscoFox
	AlpBallad1
	AlpBallad2
	Schlager6-8
	SchlagerPolka
	SchlagerSamba
	SchlagerShuffle
	SchlagerItalia
	SchlagerRock
	SchlagerAlp
	SchlagerPop
	SchlagerBeat
	SchlagerRumba
	PartyPolka
	ChristmasSwing1
	ChristmasSwing2
	ChristmasShuffle
	ChristmasBallad
	ChristmasWaltz
	Moonlight6-8
	PolkaPop
	Tijuana
	PubPiano
	Showtune
	Carnival
	Learning2-4
	Learning3-4
	Learning4-4
	Learning6-8
	ChildrensMarch
	Fun3-4
Fun4-4	
Fun6-8	
World	Flamenco
	SpanishPaso
	PopFlamenco
	FrenchMusette
	ItalianMazurka
	IrishHymn1
	IrishHymn2
	IrishDance
	Sirtaki
	OrientalPop
	HighlandWaltz

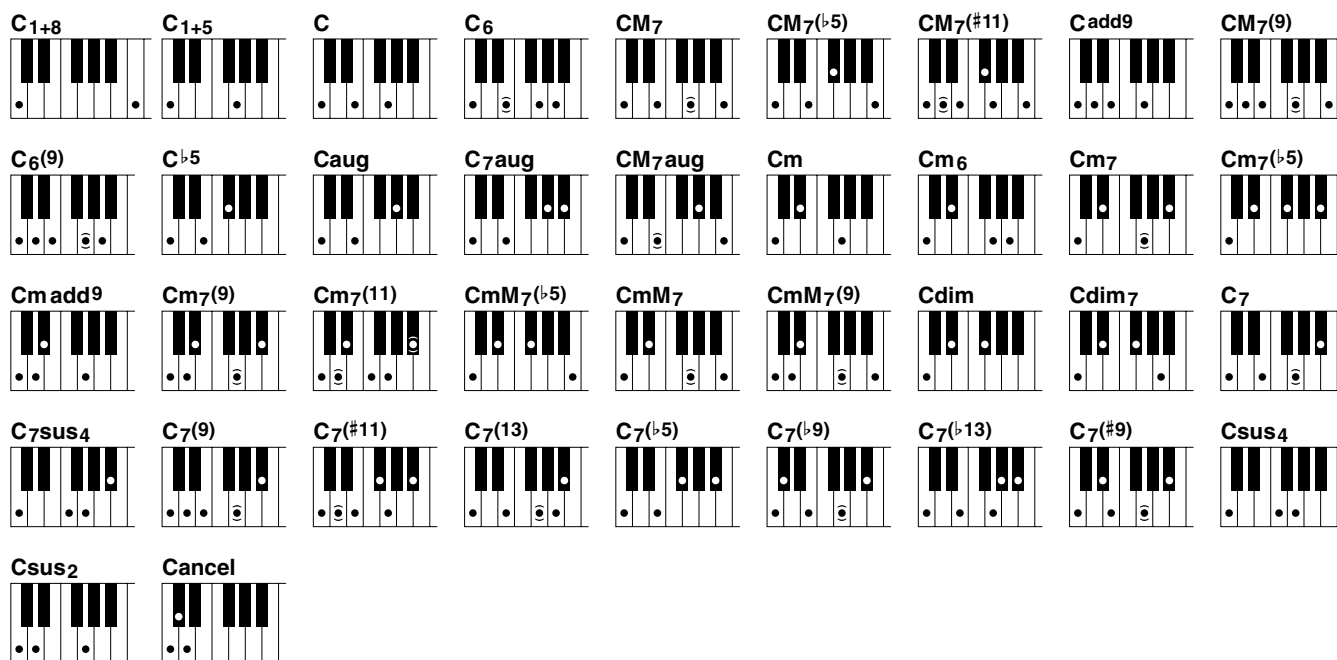
Category	Style Name
World	ItalianWaltz
	FrenchWaltz
	ScandWaltz
	MariachiWaltz
	Strathspey
	Reel
	Jig
	GayGordons
	Tarantella
	OberPolka
	OberWaltzer
	GermanWaltz
	Zouk
	Hawaiian
	BrassBand
	USMarch
	6-8March
	GermanMarch
	Casatchock
	ScandHambo
	ScandSchottis
	ScandShuffle
	ScandSlowRock
	ScandBugg
	Enka1
	Enka2
	PopEnka
	JapaneseFolk
	FolkRock
	MexicanDance
	BandaPolka
	Norteno
	ItalianPolka
	HullyGully
LimboRock	
NewAge	
Pianist	Stride1
	Stride2
	PianoSwing1
	PianoSwing2
	PianoRag1
	PianoRag2
	PianoBlues1
	PianoBlues2
	RocknRoll
	BoogieWoogie
	Arpeggio1
	Arpeggio2
	Arpeggio3
	PianoOrchBallad
	Musical
	Traditional1
	Traditional2
	Traditional3
	SlowRock
	2BeatSwing
	JazzBallad
	8Beat
	8BeatBallad
	4Stroke
	Nocturne
	PianoMarch1
	PianoMarch2
	6-8PianoMarch
	Waltz
	JazzWaltz
	PianoBossa
	PianoSamba
	PianoChaCha
	PianoBegguine
PianoRumba	
SlowWaltz	

Direct Access Chart / Tabelle Direktzugriff / Feuille d'accès direct / Gráfico de acceso directo

Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display						
STYLE CONTROL	[ACMP ON/OFF]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERING	CHORD FINGERING	—			
	[AUTO FILL IN]			STYLE SETTING				
	[BREAK]							
	[INTRO [I]]							
	[INTRO [II]]							
	[INTRO [III]]							
	[MAIN VARIATION [A]]							
	[MAIN VARIATION [B]]							
	[MAIN VARIATION [C]]							
	[MAIN VARIATION [D]]							
	[ENDING/rit. [I]]							
	[ENDING/rit. [II]]							
	[ENDING/rit. [III]]							
	[SYNC START]					SPLIT POINT		
[SYNC STOP]	STYLE SETTING							
[START/STOP]								
STYLE Category Selection	[POP & ROCK]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERING	STYLE SETTING	—			
	[BALLAD]							
	[DANCE]							
	[SWING & JAZZ]							
	[R & B]							
	[COUNTRY]							
	[LATIN]							
	[BALLROOM]							
	[ENTERTAINMENT]							
	[WORLD]							
	[PIANIST]							
	SONG CONTROL					[SONG SELECT]	FUNCTION	SONG SETTING
[TRACK 1 (R)]								
[TRACK 2 (L)]								
[EXTRA TRACKS]								
[FF]								
[REW]								
[PLAY/PAUSE]								
[STOP]								
[REC]								
[SCORE]								
[LYRICS/TEXT]								
[GUIDE]								
[REPEAT]								
TEMPO	[TAP TEMPO]	FUNCTION	UTILITY	CONFIG 1	TAP			
	[+]		STYLE SETTING/SPLIT POINT/ CHORD FINGERING	STYLE SETTING	—			
	[-]							
METRONOME	[ON/OFF]	FUNCTION	UTILITY	CONFIG 1	METRONOME			
TRANSPOSE	[+]	FUNCTION	CONTROLLER	KEYBOARD/PANEL	TRANSPOSE ASSIGN			
	[-]							
[DEMO]		FUNCTION	UTILITY	OWNER	—			
[FUNCTION]		FUNCTION	MIDI	PRESET	—			
[MIXING CONSOLE]		MIXING CONSOLE (PANEL PART)		VOL/VOICE	—			
[CHANNEL ON/OFF]					—			
[USB]		FUNCTION	UTILITY	MEDIA	—			
[USER]								
[INTERNET]		FUNCTION	UTILITY	CONFIG 2	—			
[DIRECT ACCESS]		—	—	—	—			
TAB	[F]	—	—	—	—			
	[E]	—	—	—	—			
[ENTER]		—	—	—	—			
[EXIT]		MAIN	—	—	—			
[DATA ENTRY]		—	—	—	—			
VOICE CONTROL	PART ON/OFF [DUAL (RIGHT2)]	FUNCTION	REGIST SEQUENCE/FREEZE/VOICE SET	VOICE SET	RIGHT2			
	PART ON/OFF [SPLIT (LEFT)]				LEFT			
	[VOICE EFFECT]				VOICE EFFECT	HARMONY/ECHO	—	
VOICE Category Selection	[PIANO]	FUNCTION	REGIST SEQUENCE/FREEZE/VOICE SET	VOICE SET	—			
	[E. PIANO]							
	[STRINGS]							
	[GUITAR & BASS]							
	[SAXOPHONE]							
	[FLUTE & WOODWIND]							
	[ORGAN]							
	[TRUMPET]							
	[BRASS]							
	[ACCORDION]							
	[CHOIR & PAD]							
	[SYNTH & FX]							
	[PERC. & DRUM KIT]							
[ORGAN FLUTES]								
[MUSIC FINDER]		MUSIC FINDER	MUSIC FINDER SEARCH 1	—	—			
ONE TOUCH SETTING	[1]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERING	SPLIT POINT	—			
	[2]							
	[3]							
	[4]							
[PIANO RESET]	[OTS LINK]	FUNCTION	CONTROLLER	KEYBOARD/PANEL	INITIAL TOUCH			
REGISTRATION MEMORY	REGIST BANK [+]	FUNCTION	REGIST SEQUENCE/FREEZE/VOICE SET	REGISTRATION SEQUENCE	—			
	REGIST BANK [-]							
	[MEMORY]							
	[1]					REGISTRATION BANK Selection Display	REGISTRATION EDIT	—
	[2]							
	[3]							
	[4]							
	[5]							
	[6]							
[7]								
[8]								
PEDAL	Damper Pedal (Right)	FUNCTION	CONTROLLER	PEDAL	RIGHT			
	Sostenuto Pedal (Center)				CENTER			
	Left Pedal				LEFT			
	AUX PEDAL				AUX			

* The cursor position differs depending on the current keyboard part.

Chord Types Recognized in the Fingered Mode / Im Fingered-Modus erkannte Akkordarten / Types d'accords reconnus en mode Fingered / Tipos de acordes reconocidos en el modo Fingered (digitado)



Chord Name [Abbreviation]	Normal Voicing	Display for root "C"
1+8	1+8	C1+8
1+5	1+5	C1+5
Major [M]	1+3+5	C
Sixth [6]	1+(3)+5+6	C6
Major seventh [M7]	1+3+(5)+7	CM7
Major seventh flattened fifth [M7b5]	1+3+b5+7	CM7(b5)
Major seventh add sharp eleventh [M7(#11)]	1+(2)+3+#4+5+7	CM7(#11)
Add ninth [(9)]	1+2+3+5	Cadd9
Major seventh ninth [M7_9]	1+2+3+(5)+7	CM7(9)
Sixth ninth [6_9]	1+2+3+(5)+6	C6(9)
Flatted fifth [(b5)]	1+3+b5	Cb5
Augmented [aug]	1+3+#5	Caug
Seventh augmented [7aug]	1+3+#5+b7	C7aug
Major seventh augmented [M7aug]	1+(3)+#5+7	CM7aug
Minor [m]	1+b3+5	Cm
Minor sixth [m6]	1+b3+5+6	Cm6
Minor seventh [m7]	1+b3+(5)+b7	Cm7
Minor seventh flattened fifth [m7b5]	1+b3+b5+b7	Cm7(b5)
Minor add ninth [m(9)]	1+2+b3+5	Cm add9
Minor seventh ninth [m7(9)]	1+2+b3+(5)+b7	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+b3+4+5+(b7)	Cm7(11)
Minor major seventh flattened fifth [mM7b5]	1+b3+b5+7	CmM7(b5)
Minor major seventh [mM7]	1+b3+(5)+7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+b3+(5)+7	CmM7(9)
Diminished [dim]	1+b3+b5	Cdim
Diminished seventh [dim7]	1+b3+b5+6	Cdim7
Seventh [7]	1+3+(5)+b7	C7
Seventh suspended fourth [7sus4]	1+4+5+b7	C7sus4
Seventh ninth [7(9)]	1+2+3+(5)+b7	C7(9)
Seventh add sharp eleventh [7(#11)]	1+(2)+3+#4+5+b7	C7(#11)
Seventh add thirteenth [7(13)]	1+3+(5)+6+b7	C7(13)
Seventh flattened fifth [7b5]	1+3+b5+b7	C7(b5)
Seventh flatted ninth [7(b9)]	1+b2+3+(5)+b7	C7(b9)
Seventh add flatted thirteenth [7(b13)]	1+3+5+b6+b7	C7(b13)
Seventh sharp ninth [7(#9)]	1+#2+3+(5)+b7	C7(#9)
Suspended fourth [sus4]	1+4+5	Csus4
One plus two plus five [sus2]	1+2+5	Csus2
cancel	1+b2+2	Cancel

* Notes in parentheses can be omitted.

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

Reverb Block

Type	Description	MSB	LSB
HALL1	Reverb simulating the acoustics of a hall.	1	0
HALL2		1	16
HALL3		1	17
HALL4		1	18
HALL5		1	1
HALL M		1	6
HALL L		1	7
ROOM1	Reverb simulating the acoustics of a room.	2	16
ROOM2		2	17
ROOM3		2	18
ROOM4		2	19
ROOM5		2	0
ROOM6		2	1
ROOM7		2	2
ROOM S		2	5
ROOM M		2	6
ROOM L		2	7
STAGE1	Reverb suitable for a solo instrument.	3	16
STAGE2		3	17
STAGE3		3	0
STAGE4		3	1
PLATE1	Reverb simulating a plate reverb unit.	4	16
PLATE2		4	17
PLATE3		4	0
GM PLATE		4	7
WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0
TUNNEL	Simulates a cylindrical space expanding to left and right.	17	0
CANYON	A hypothetical acoustic space which extends without limit.	18	0
BASEMENT	A bit of initial delay followed by reverb with a unique resonance.	19	0
LARGE HALL	Reverb simulating the acoustics of a hall.	1	2
MEDIUM HALL		1	3
WARM ROOM	Reverb simulating the acoustics of a warm room.	2	3
WOODY ROOM	Reverb simulating the acoustics of a woody room.	2	4
RICH PLATE	Reverb simulating a rich plate reverb unit.	4	1
NO EFFECT	No effect.	0	0

Chorus Block

Type	Description	MSB	LSB	
CHORUS1	Conventional chorus program with rich, warm chorusing.	66	17	
CHORUS2		66	8	
CHORUS3		66	16	
CHORUS4		66	1	
CHORUS5		65	2	
CHORUS6		65	0	
CHORUS7		65	1	
CHORUS8		65	8	
GM CHORUS1		65	3	
GM CHORUS2		65	4	
GM CHORUS3		65	5	
GM CHORUS4		65	6	
FB CHORUS		65	7	
CELESTE1		A 3-phase LFO adds modulation and spaciousness to the sound.	66	0
CELESTE2			66	2
FLANGER1	Creates a sound reminiscent of a jet airplane.	67	8	
FLANGER2		67	16	
FLANGER3		67	17	
FLANGER4		67	1	
FLANGER5		67	0	
GM FLANGER		67	7	
SYMPHONIC1	Adds more stages to the modulation of Celeste.	68	16	
SYMPHONIC2		68	0	
PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	0	
PHASER2		72	8	
EP PHASER1		72	17	
EP PHASER2		72	18	
EP PHASER3		72	16	
ENS DETUNE (Ensemble Detune)		Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0
ROTARY SP5	Simulates a rotary speaker.	66	18	
NO EFFECT	No effect.	0	0	

DSP1 – 6 Block

Panel Block Name	XG Block Name
DSP1	XG Variation Block
DSP2	XG Insertion1 Block
DSP3	XG Insertion2 Block
DSP4	XG Insertion3 Block
DSP5	XG Insertion4 Block
DSP6	XG Insertion5 Block

Type	Description	MSB	LSB	
HALL1	Reverb simulating the acoustics of a hall.	1	0	
HALL2		1	16	
HALL3		1	17	
HALL4		1	18	
HALL5		1	1	
HALL M		1	6	
HALL L		1	7	
ROOM1	Reverb simulating the acoustics of a room.	2	16	
ROOM2		2	17	
ROOM3		2	18	
ROOM4		2	19	
ROOM5		2	0	
ROOM6		2	1	
ROOM7		2	2	
ROOM S		2	5	
ROOM M		2	6	
ROOM L		2	7	
STAGE1	Reverb suitable for a solo instrument.	3	16	
STAGE2		3	17	
STAGE3		3	0	
STAGE4		3	1	
PLATE1	Reverb simulating a plate reverb unit.	4	16	
PLATE2		4	17	
PLATE3		4	0	
GM PLATE		4	7	
WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0	
TUNNEL	Simulates a cylindrical space expanding to left and right.	17	0	
CANYON	A hypothetical acoustic space which extends without limit.	18	0	
BASEMENT	A bit of initial delay followed by reverb with a unique resonance.	19	0	
DELAY LCR1	Produces three delayed sounds: L, R and C (center).	5	16	
DELAY LCR2		5	0	
DELAY LR	Produces two delayed sounds: L and R. Two feedback delays are provided.	6	0	
ECHO	Two delayed sounds (L and R), and independent feedback delays for L and R.	7	0	
CROSS DELAY	The feedback of the two delayed sounds is crossed.	8	0	
TEMPO DELAY	Tempo-synchronized delay.	21	0	
TEMPO ECHO	Tempo-synchronized echo.	21	8	
TEMPO CROSS	Tempo-synchronized cross delay.	22	0	
KARAOKE1	Echo for karaoke.	20	0	
KARAOKE2		20	1	
KARAOKE3		20	2	
ER1	This effect isolates only the early reflection components of the reverb.	9	0	
ER2		9	1	
GATE REVERB	Simulation of gated reverb.	10	0	
REVERS GATE	Simulation of gated reverb played back in reverse.	11	0	
CHORUS1	Conventional chorus program with rich, warm chorusing.	66	17	
CHORUS2		66	8	
CHORUS3		66	16	
CHORUS4		66	1	
CHORUS5		65	2	
CHORUS6		65	0	
CHORUS7		65	1	
CHORUS8		65	8	
GM CHORUS1		65	3	
GM CHORUS2		65	4	
GM CHORUS3		65	5	
GM CHORUS4		65	6	
FB CHORUS		65	7	
CELESTE1		A 3-phase LFO adds modulation and spaciousness to the sound.	66	0
CELESTE2	66		2	
SYMPHONIC1	Adds more stages to the modulation of Celeste.	68	16	
SYMPHONIC2		68	0	
ENS DETUNE (Ensemble Detune)	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0	
FLANGER1	Creates a sound reminiscent of a jet airplane.	67	8	
FLANGER2		67	16	
FLANGER3		67	17	
FLANGER4		67	1	
FLANGER5		67	0	
GM FLANGER		67	7	
V_FLANGER		104	0	
T_FLANGER		107	0	
DYN FLANGER		Dynamically controlled flanger.	110	0
PHASER1		Cyclically modulates the phase to add modulation to the sound.	72	0
PHASER2	72		8	

Type	Description	MSB	LSB
EP PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	17
EP PHASER2		72	18
EP PHASER3		72	16
T_PHASER		108	0
DYN PHASER		111	0
DIST HEAVY (Distortion Heavy)	Heavy distortion.	73	0
ST DIST (Stereo Distortion)	Stereo distortion.	73	8
COMP+DIST1 (Compressor + Distortion1)	Since a Compressor is included in the first stage, steady distortion can be produced regardless of changes in input level.	73	16
COMP+DIST2 (Compressor + Distortion2)		73	1
OVERDRIVE	Adds mild distortion to the sound.	74	0
ST OD (Stereo Overdrive)	Stereo Overdrive.	74	8
DIST HARD (Distortion Hard)	Hard-edge distortion.	75	16
DIST HARD2 (Distortion Hard 2)		75	22
DIST SOFT (Distortion Soft)	Soft, warm distortion.	75	17
DIST SOFT2 (Distortion Soft2)		75	23
ST DIST HARD (Stereo Distortion Hard)	Hard-edge stereo distortion.	75	18
ST DIST SOFT (Stereo Distortion Soft)	Soft, warm soft distortion.	75	19
V_DIST HARD (V Distortion Hard)	Distortion which simulates vintage tube and fuzz sounds.	98	0
V_DIST SOFT (V Distortion Soft)		98	2
AMP SIM1 (Amp Simulator 1)	A simulation of a guitar amp.	75	0
AMP SIM2 (Amp Simulator 2)		75	1
ST AMP1 (Stereo Amp Simulator1)		75	20
ST AMP2 (Stereo Amp Simulator 2)		75	21
ST AMP3 (Stereo Amp Simulator 3)		75	8
ST AMP4 (Stereo Amp Simulator 4)		75	24
ST AMP5 (Stereo Amp Simulator 5)		75	25
ST AMP6 (Stereo Amp Simulator 6)	75	26	
DST+DELAY1 (Distortion + Delay 1)	Distortion and Delay are connected in series.	95	16
DST+DELAY2 (Distortion + Delay 2)		95	0
OD+DELAY1 (Overdrive + Delay 1)	Overdrive and Delay are connected in series.	95	17
OD+DELAY2 (Overdrive + Delay 2)		95	1
CMP+DST+DLY1 (Compressor + Distortion + Delay 1)	Compressor, Distortion and Delay are connected in series.	96	16
CMP+DST+DLY2 (Compressor + Distortion + Delay2)		96	0
CMP+OD+DLY1 (Compressor + Overdrive + Delay 1)	Compressor, Overdrive and Delay are connected in series.	96	17
CMP+OD+DLY2 (Compressor + Overdrive + Delay 2)		96	1
V_DIST H+DLY (V Distortion Hard + Delay)	V Distortion and Delay are connected in series.	98	1
V_DIST S+DLY (V Distortion Soft + Delay)		98	3
DST+TDLY (Distortion + Tempo Delay)	Distortion and Tempo Delay are connected in series.	100	0
OD+TDLY (Overdrive + Tempo Delay)	Overdrive and Tempo Delay are connected in series.	100	1
CMP+DST+TDL (Compressor + Distortion + Tempo Delay)	Compressor, Distortion and Tempo Delay are connected in series.	101	0
CMP+OD+TDLY 1 (Compressor + Overdrive + Tempo Delay 1)	Compressor, Overdrive and Tempo Delay are connected in series.	101	1
CMP+OD+TDLY 2 (Compressor + Overdrive + Tempo Delay 2)		101	16
CMP+OD+TDLY 3 (Compressor + Overdrive + Tempo Delay 3)		101	17
CMP+OD+TDLY 4 (Compressor + Overdrive + Tempo Delay 4)		101	18
CMP+OD+TDLY 5 (Compressor + Overdrive + Tempo Delay 5)		101	19
CMP+OD+TDLY 6 (Compressor + Overdrive + Tempo Delay 6)		101	20
V_DIST H+TDLY (V Distortion Hard + Tempo Delay)	V Distortion Hard and Tempo Delay are connected in series.	103	0
V_DIST S+TDL 1 (V Distortion Soft + Tempo Delay1)	V Distortion Soft and Tempo Delay are connected in series.	103	1
V_DIST S+TDL2 (V Distortion Soft + Tempo Delay2)		103	16
PITCH CHG1 (Pitch Change 1)	Changes the pitch of the input signal.	80	16
PITCH CHG2 (Pitch Change 2)		80	0
PITCH CHG3 (Pitch Change 3)		80	1
AUTO WAH1	Cyclically modulates the center frequency of a wah filter.	78	16
AUTO WAH2		78	0
AT WAH+DST1 (Auto Wah + Distortion 1)	The output of an Auto Wah can be distorted by Distortion.	78	17
AT WAH+DST2 (Auto Wah + Distortion2)		78	1
AT WAH+OD1 (Auto Wah + Overdrive 1)	The output of an Auto Wah can be distorted by Overdrive.	78	18
AT WAH+OD2 (Auto Wah + Overdrive 2)		78	2
TOUCH WAH1	Changes the center frequency of a wah filter according to the input level.	82	0
TOUCH WAH2		82	8
TC WAH+DST1 (Touch Wah + Distortion 1)	The output of an Touch Wah can be distorted by Distortion.	82	16
TC WAH+DST2 (Touch Wah + Distortion 2)		82	1
TC WAH+OD1 (Touch Wah + Overdrive 1)	The output of an Touch Wah can be distorted by Overdrive.	82	17
TC WAH+OD2 (Touch Wah + Overdrive 2)		82	2
CLAVI TC WAH (Clavi Touch Wah)	Clavinet Touch Wah	82	18
EP TC WAH (EP Touch Wah)	EP Touch Wah	82	19
WH+DST+DLY1 (Wah + Distortion + Delay 1)	Wah, Distortion and Delay are connected in series.	97	16
WH+DST+DLY2 (Wah + Distortion + Delay2)		97	0
WH+DST+TDLY (Wah + Distortion + Tempo Delay)	Wah, Distortion and Tempo Delay are connected in series.	102	0
WH+OD+DLY1 (Wah + Overdrive + Delay 1)	Wah, Overdrive and Delay are connected in series.	97	17
WH+OD+DLY2 (Wah + Overdrive + Delay 2)		97	1
WH+OD+TDLY1 (Wah + Overdrive + Tempo Delay 1)	Wah, Overdrive and Tempo Delay are connected in series.	102	1
WH+OD+TDLY2 (Wah + Overdrive + Tempo Delay 2)		102	16

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

Type	Description	MSB	LSB
MBAND COMP	Multi-band compressor that allows you to adjust the compression effect for individual frequency bands.	105	0
COMPRESSOR	Holds down the output level when a specified input level is exceeded. A sense of attack can also be added to the sound.	83	0
NOISE GATE	Gates the input when the input signal falls below a specified level.	84	0
ROTARY SP1 (Rotary Speaker 1)	Simulates a rotary speaker.	69	16
ROTARY SP2 (Rotary Speaker 2)		71	17
ROTARY SP3 (Rotary Speaker 3)		71	18
ROTARY SP4 (Rotary Speaker 4)		70	17
ROTARY SP5 (Rotary Speaker 5)		66	18
ROTARY SP6 (Rotary Speaker 6)		69	0
ROTARY SP7 (Rotary Speaker 7)		71	22
2WAY ROT SP (2-way Rotary Speaker)		86	0
DST+ROT SP (Distortion + Rotary Speaker)		Distortion and rotary speaker connected in series.	69
DST+2ROT SP (Distortion + 2-way Rotary Speaker)	Distortion and 2-way rotary speaker connected in series.	86	1
OD+ROT SP (Overdrive + Rotary Speaker)	Overdrive and rotary speaker connected in series.	69	2
OD+2ROT SP (Overdrive + 2-way Rotary Speaker)	Overdrive and 2-way rotary speaker connected in series.	86	2
AMP+ROT SP (Amp Simulator + Rotary Speaker)	Amp simulator and rotary speaker connected in series.	69	3
AMP+2ROT SP (Amp Simulator + 2-way Rotary Speaker)	Amp simulator and 2-way rotary speaker connected in series.	86	3
DUAL ROT SP1 (Dual Rotor Speaker 1)	Rotary speaker simulation with speed switching.	99	0
DUAL ROT SP2 (Dual Rotor Speaker 2)		99	1
TREMOLO1	Rich Tremolo effect with both volume and pitch modulation.	70	16
TREMOLO2		71	19
TREMOLO3		70	0
EP TREMOLO		70	18
GT TREMOLO1 (Guitar Tremolo 1)		71	20
GT TREMOLO2 (Guitar Tremolo 2)		70	19
VIBE VIBRATE		Vibraphone effect	119
AUTO PAN1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16
AUTO PAN2		71	0
EP AUTOPAN		71	21
AUTO PAN3		71	1
EQ DISCO	Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.	76	16
EQ TEL	Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver.	76	17
2BAND EQ	A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.	77	0
3BAND EQ	A mono EQ with adjustable LOW, MID, and HIGH equalizing.	76	0
HM ENHANCE1 (Harmonic Enhancer 1)	Adds new harmonics to the input signal to make the sound stand out.	81	16
HM ENHANCE2 (Harmonic Enhancer 2)		81	0
ST 3BAND EQ	An EQ which allows equalization of low, mid and high bands.	76	18
VCE CANCEL (Voice Cancel)	Attenuates the vocal part of a CD or other source.	85	0
AMBIENCE	Blurs the stereo positioning of the sound to add spatial width.	88	0
TALKING MOD (Talking Modulation)	Adds a vowel sound to the input signal.	93	0
LO-FI	Degrades the audio quality of the input signal.	94	0
DYN FILTER	Dynamically controlled filter.	109	0
DYN RINGMOD	Dynamically controlled Ring Modulator.	112	0
RING MOD	An effect that modifies the pitch by applying amplitude modulation to the frequency of the input.	113	0
ISOLATOR	Controls the level of a specified frequency band of the input signal.	115	0
* NO EFFECT	No effect.	0	0
THRU	Bypass without applying an effect.	64	0

* DSP1 only

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

- Parameters marked with a ● in the "Control" column can be controlled from an AC1 (assignable controller 1) etc. However, these only affect insertion type effects.
- For details on each effect type, refer to the Effect Type List.

Panel Effect Type

HALL1, 2, 3, 4, 5, HALLM, HALLL
ROOM1, 2, 3, 4, 5, 6, 7, ROOMS, ROOMM, ROOML
STAGE1, 2, 3, 4
PLATE1, 2, 3, GM PLATE
(Reverb, all the DSP blocks)

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

LARGE HALL, MEDIUM HALL
WARM ROOM, WOODY ROOM
RICH PLATE
(Reverb block)

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3 – 30.0s	0 – 69	table#4	
2	Diffusion	0 – 10	0 – 10		
3	Initial Delay	0.1mS – 200.0mS	0 – 127	table#5	
4	HPF Cutoff	Thru – 8.0kHz	0 – 52	table#3	
5	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13					
14	High Damp	0.1 – 1.0	1 – 10		
15					
16					

DELAY LCR1, DELAY LCR2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
2	Rch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
3	Cch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
4	Feedback Delay	0.1 – 1638.3ms (*2)	1 – 16383		
5	Feedback Level	-63 – +63	1 – 127	(table#16)	
6	Cch Level	0 – 127	0 – 127	(table#18)	
7	High Damp	0.1 – 1.0	1 – 10		
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

DELAY LR
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
2	Rch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
3	Feedback Delay 1	0.1 – 1638.3ms (*2)	1 – 16383		
4	Feedback Delay 2	0.1 – 1638.3ms (*2)	1 – 16383		
5	Feedback Level	-63 – +63	1 – 127	(table#16)	
6	High Damp	0.1 – 1.0	1 – 10		
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

ECHO
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1 – 1486.0ms (*2)	1 – 14860		
2	Lch Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Rch Delay1	0.1 – 1486.0ms (*2)	1 – 14860		
4	Rch Feedback Level	-63 – +63	1 – 127	(table#16)	
5	High Damp	0.1 – 1.0	1 – 10		
6	Lch Delay2	0.1 – 1486.0ms (*2)	1 – 14860		
7	Rch Delay2	0.1 – 1486.0ms (*2)	1 – 14860		
8	Delay2 Level	0 – 127	0 – 127	(table#18)	
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

CROSS DELAY
(All the DSP blocks)

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

ER1, ER2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0 – 5		
2	Room Size	0.1 – 20.0	0 – 127	table#6	
3	Diffusion	0 – 10	0 – 10		
4	Initial Delay	0.1mS – 200.0mS	0 – 127	table#5	
5	Feedback Level	-63 – +63	1 – 127	(table#16)	
6	HPF Cutoff	Thru – 8.0kHz	0 – 52	table#3	
7	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Liveness	0 – 10	0 – 10		
12	Density	0 – 3	0 – 3		
13	High Damp	0.1 – 1.0	1 – 10		
14					
15					
16					

GATE REVERB
REVERB GATE
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Type	TypeA, TypeB	0 – 1		
2	Room Size	0.1 – 20.0	0 – 127	table#6	
3	Diffusion	0 – 10	0 – 10		
4	Initial Delay	0.1mS – 200.0mS	0 – 127	table#5	
5	Feedback Level	-63 – +63	1 – 127	(table#16)	
6	HPF Cutoff	Thru – 8.0kHz	0 – 52	table#3	
7	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Liveness	0 – 10	0 – 10		
12	Density	0 – 3	0 – 3		
13	High Damp	0.1 – 1.0	1 – 10		
14					
15					
16					

WHITE ROOM
TUNNEL
CANYON
BASEMENT
(Reverb and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3 – 30.0s	0 – 69	table#4	
2	Diffusion	0 – 10	0 – 10		
3	Initial Delay	0.1mS – 200.0mS (*1) 0.1mS – 99.3mS (*2)	0 – 127 0 – 63	table#5	
4	HPF Cutoff	Thru – 8.0kHz	0 – 52	table#3	
5	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
6	Width	0.5 – 30.2m (*1) 0.5 – 10.2m (*2)	0 – 104 0 – 37	table#11	
7	Height	0.5 – 30.2m (*1) 0.5 – 20.2m (*2)	0 – 104 0 – 73	table#11	
8	Depth	0.5 – 30.2m	0 – 104	table#11	
9	Wall Vary	0 – 30	0 – 30		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Rev Delay	0.1mS – 200.0mS (*1) 0.1mS – 99.3mS (*2)	0 – 127 0 – 63	table#5	
12	Density	0 – 4	0 – 4		
13	Er/Rev Balance	E63>R – E=R – E<R63	1 – 127		
14	High Damp	0.1 – 1.0	1 – 10		
15	Feedback Level	-63 – +63	1 – 127	(table#16)	
16					

KARAOKE 1, 2, 3
(All the DSP blocks)

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

No.	Parameter	Display	Value	See Table	Control
12					
13					
14					
15					
16					

TEMPO DELAY
TEMPO ECHO
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Feedback High Dump	0.1 – 1.0	1 – 10		
4	L/R Diffusion	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
5	Lag	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40		
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58		
16	EQ High Gain	-12 – +12dB	52 – 76		

TEMPO CROSS
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time L>R	64th/3 – 4thx6	0 – 19	table#14	
2	Delay Time R>L	64th/3 – 4thx6	0 – 19	table#14	
3	Feedback Level	-63 – +63	1 – 127	(table#16)	
4	Input Select	L, R, L&R	0 – 2		
5	Feedback High Dump	0.1 – 1.0	1 – 10		
6	Lag	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40		
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58		
16	EQ High Gain	-12 – +12dB	52 – 76		

CHORUS 1, 2, 3, 4, 5, 6, 7, 8, GMCHORUS 1, 2, 3, 4
FB CHORUS, CELESTE 1, 2, ROTARY SP5
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Feedback Level	-63 – +63	1 – 127	(table#17)	
4	Delay Offset	0.0mS – 50mS	0 – 127	table#2	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono/stereo	0 – 1		
16					

FLANGER1, 2, 3, 4, 5, GM FLANGER
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Feedback Level	-63 – +63	1 – 127	(table#17)	
4	Delay Offset	0.0mS – 50mS	0 – 127	table#2	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180 – +180deg (resolution=3deg.)	4 – 124		
15					
16					

AMP+ROT SP
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0 – 39.7Hz	0 – 127	table#1	●
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	AMP Type	Off, Stack, Combo, Tube	0 – 3		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60	table#3	
16	Output Level	0 – 127	0 – 127	(table#18)	

SYMPHONIC1, 2
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Delay Offset	0.0mS – 50mS	0 – 127	table#2	
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

TREMOLO1, 3, EP TREMOLO, GT TREMOLO2, ROTARY SP4
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	●
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180 – +180deg (resolution=3deg.)	4 – 124		
15	Input Mode	mono/stereo	0 – 1		
16					

ROTARY SP1, 6
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	●
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3					
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

AUTO PAN1, 2, EP AUTOPAN, TREMOLO2, GT TREMOLO1, ROTARY SP2, 3, 7
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15					
16					

DST+ROT SP
OD+ROT SP
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0 – 39.7Hz	0 – 127	table#1	●
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3					
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60	table#3	
16	Output Level	0 – 127	0 – 127	(table#18)	

AUTO PAN3
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5	LFO Wave	0 – 28	0 – 28		
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10					
11	EQ Mid Frequency (*3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*3)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono/stereo	0 – 1		
16					

PHASER 1, EP PHASER1, 2, 3
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127	(table#16)	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Stage	4 – 22 (*2)	4 – 22		
12	Diffusion	mono/stereo	0 – 1		
13					
14					
15					
16					

PHASER 2
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127	(table#16)	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Stage	3 – 11	3 – 11		
12					
13	LFO Phase Difference	-180deg – +180deg (resolution=3deg.)	4 – 124		
14					
15					
16					

DIST HEAVY OVERDRIVE
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
3	EQ Low Gain	-12 – +12dB	52 – 76		
4	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
8	EQ Mid Gain	-12 – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12					
13					
14					
15					
16					

COMP+DIST1,2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
3	EQ Low Gain	-12 – +12dB	52 – 76		
4	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
8	EQ Mid Gain	-12 – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12	Attack	1ms – 40ms	0 – 19	table#8	
13	Release	10ms – 680ms	0 – 15	table#9	
14	Threshold	-48dB – -6dB	79 – 121		

No.	Parameter	Display	Value	See Table	Control
15	Ratio	1.0 – 20.0	0 – 7	table#10	
16					

ST DIST ST OD
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
3	EQ Low Gain	-12 – +12dB	52 – 76		
4	LPF Cutoff	1kHz – Thru	34 – 60		
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
8	EQ Mid Gain	-12 – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Edge (Clip Curve)	0 – 127	0 – 127		
12					
13					
14					
15					
16					

AMP SIM1, DIST HARD, DIST HARD2, DIST SOFT, DIST SOFT2
(All the DSP blocks)
ST AMP1, 3, 4, ST DIST HARD, ST DIST SOFT (*3)
ST AMP2, 5, 6
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	AMP Type	Off, Stack, Combo, Tube	0 – 3		
3	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
4	Output Level	0 – 127	0 – 127	(table#18)	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12					
13					
14					
15					
16					

AMP SIM2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	AMP Type	Off, Stack, Combo, Tube, Crunch, Hi gain, British	0 – 6		
3	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
4	Output Level	0 – 127	0 – 127	(table#18)	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13					
14					
15					
16					

3BAND EQ, EQ DISCO, EQ TEL, ST 3BAND EQ
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12 – +12dB	52 – 76		
2	EQ Mid Frequency	100Hz – 16.0kHz	14 – 58	table#3	
3	EQ Mid Gain	-12 – +12dB	52 – 76		
4	EQ Mid Width	0.1 – 12.0	1 – 120		
5	EQ High Gain	-12 – +12dB	52 – 76		
6	EQ Low Frequency	50Hz – 2.0kHz	8 – 40	table#3	
7	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono/stereo	0 – 1		
16					

PITCH CHG1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24 – +24	40 – 88		
2	Initial Delay	0.1mS – 400.0mS	0 – 127	table#7	
3	Fine 1	-50 – +50	14 – 114		
4	Fine 2	-50 – +50	14 – 114		
5	Feedback Level	-63 – +63	1 – 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Pan 1	L63 – R63	1 – 127		
12	Output Level 1	0 – 127	0 – 127	(table#18)	
13	Pan 2	L63 – R63	1 – 127		
14	Output Level 2	0 – 127	0 – 127	(table#18)	
15					
16					

2BAND EQ
(All the DSP blocks)

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

PITCH CHG3
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Pitch	-24 – +24	40 – 88		
2	Initial Delay	0.1mS – 400.0mS	0 – 127	table#7	
3	Fine 1	-50 – +50cent	14 – 114		
4	Fine 2	-50 – +50cent	14 – 114		
5	Feedback Level	-63 – +63	1 – 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Pan 1	L63 – R63	1 – 127		
12	Output Level 1	0 – 127	0 – 127	(table#18)	
13	Pan 2	L63 – R63	1 – 127		
14	Output Level 2	0 – 127	0 – 127	(table#18)	
15					
16					

AUTO WAH1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Cutoff Frequency Offset	0 – 127	0 – 127		●
4	Resonance	1.0 – 12.0	10 – 120		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Drive (*3)	0 – 127	0 – 127		
12					
13					
14					
15					
16					

HM ENHANCER1, 2
(All the DSP blocks)

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

AT WAH+DST1, 2, AT WAH+OD1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Cutoff Frequency Offset	0 – 127	0 – 127		●
4	Resonance	1.0 – 12.0	10 – 120		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12 – +12dB	52 – 76		
13	EQ Mid Gain (distortion)	-12 – +12dB	52 – 76		
14	LPF Cutoff	1.0kHz – thru	34 – 60	table#3	
15	Output Level	0 – 127	0 – 127	(table#18)	
16					

TOUCH WAH1
(All the DSP blocks)

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

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

TC WAH+DIST1, 2
(All the DSP blocks)

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

NOISE GATE
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Attack	1 – 40ms	0 – 19	table#8	
2	Release	10 – 680ms	0 – 15	table#9	
3	Threshold	-72 – -30dB	55 – 97		
4	Output Level	0 – 127	0 – 127	(table#18)	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

TOUCH WAH2, CLAVI WAH, EPTC WAH
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		
2	Cutoff Frequency Offset	0 – 127	0 – 127		●
3	Resonance	1.0 – 12.0	10 – 120		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Drive (*3)	0 – 127	0 – 127		
12	EQ Low Gain (*3) (distortion)	-12 – +12dB	52 – 76		
13	EQ Mid Gain (*3) (distortion)	-12 – +12dB	52 – 76		
14	LPF Cutoff (*3)	1.0kHz – thru	34 – 60	table#3	
15	Output Level (*3)	0 – 127	0 – 127	(table#18)	
16	Release	10 – 680mS	52 – 67	table#12	

VCE CANCEL
(All the DSP blocks)

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

TC WAH+OD1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		
2	Cutoff Frequency Offset	0 – 127	0 – 127		●
3	Resonance	1.0 – 12.0	10 – 120		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12 – +12dB	52 – 76		
13	EQ Mid Gain (distortion)	-12 – +12dB	52 – 76		
14	LPF Cutoff	1.0kHz – thru	34 – 60	table#3	
15	Output Level	0 – 127	0 – 127	(table#18)	
16	Release	10 – 680mS	52 – 67	table#12	

2WAY ROT SP
(All the DSP blocks)

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

COMPRESSOR
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Attack	1 – 40ms	0 – 19	table#8	
2	Release	10 – 680ms	0 – 15	table#9	
3	Threshold	-48 – -6dB	79-121		
4	Ratio	1.0 – 20.0	0 – 7	table#10	
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

DST+2ROT SP
OD+2ROT SP
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0 – 39.7Hz	0 – 127	table#1	●
2	Drive Low	0 – 127	0 – 127		
3	Drive High	0 – 127	0 – 127		
4	Low/High Balance	L63>H – L=H – L<H=63	1 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	Mic L-R Angle	0 – 180deg	0 – 60		
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60		
16	Output Level	0 – 127	0 – 127	(table#18)	

AMP+2ROT SP
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.0 – 39.7Hz	0 – 127	table#1	●
2	Drive Low	0 – 127	0 – 127		
3	Drive High	0 – 127	0 – 127		
4	Low/High Balance	L63>H – L=H – L<H=63	1 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	Mic L-R Angle	0 – 180deg	0 – 60		
13	AMP Type	Off, Stack, Combo, Tube	0 – 3		
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60		
16	Output Level	0 – 127	0 – 127	(table#18)	

LO-FI
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sampling Freq Control	44.1kHz – 345Hz	0 – 127	table#13	
2	Word Length	1 – 127	1 – 127		
3	Output Gain	-6 – +36dB	0 – 42		
4	LPF Cutoff	63Hz – Thru	10 – 60	table#3	
5	Filter Type	Thru, PowerBass, Radio, Tel, Clean, Low	0 – 5		
6	LPF Resonance	1.0 – 12.0	10 – 120		
7	Bit Assign	0 – 6	0 – 6		
8	Emphasis	Off/On	0 – 1		
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13					
14					
15	Input Mode	mono/stereo			
16					

ENS DETUNE
(Chorus and all the DSP blocks)

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

DST+DELAY1, 2, OD+DELAY1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay Time	0.1 – 1638.3ms	1 – 16383		
2	Rch Delay Time	0.1 – 1638.3ms	1 – 16383		
3	Delay Feedback Time	0.1 – 1638.3ms	1 – 16383		
4	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
5	Delay Mix	0 – 127	0 – 127		
6	Dist Drive	0 – 127	0 – 127		
7	Dist Output Level	0 – 127	0 – 127	(table#18)	
8	Dist EQ Low Gain	-12 – +12dB	52 – 76		
9	Dist EQ Mid Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13					
14					
15					
16					

AMBIENCE
(All the DSP blocks)

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

CMP+DST+DLY1, 2, CMP+OD+DLY1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1 – 1638.3ms	1 – 16383		
2	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Delay Mix	0 – 127	0 – 127		
4	Dist Drive	0 – 127	0 – 127		
5	Dist Output Level	0 – 127	0 – 127	(table#18)	
6	Dist EQ Low Gain	-12 – +12dB	52 – 76		
7	Dist EQ Mid Gain	-12 – +12dB	52 – 76		
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Comp. Attack	1ms – 40ms	0 – 19	table#8	
12	Comp. Release	10ms – 680ms	0 – 15	table#9	
13	Comp. Threshold	-48dB – -6dB	79 – 121		
14	Comp. Ratio	1.0 – 20.0	0 – 7	table#10	
15					
16					

TALKING MOD
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Vowel	a, i, u, e, o	0 – 4		●
2	Move speed	1 – 62	1 – 62		
3	Drive	0 – 127	0 – 127		
4	Output Level	0 – 127	0 – 127	(table#18)	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

WH+DST+DLY1, 2, WH+OD+DLY1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1 – 1638.3ms	1 – 16383		
2	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Delay Mix	0 – 127	0 – 127		
4	Dist Drive	0 – 127	0 – 127		
5	Dist Output Level	0 – 127	0 – 127	(table#18)	
6	Dist EQ Low Gain	-12 – +12dB	52 – 76		
7	Dist EQ Mid Gain	-12 – +12dB	52 – 76		
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Wah Sensitivity	0 – 127	0 – 127		
12	Wah Cutoff Freq Offset	0 – 127	0 – 127		
13	Wah Resonance	1.0 – 12.0	10 – 120		
14	Wah Release	10 – 680ms	52 – 67	table#12	
15					
16					

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

V_DIST HARD
V_DIST SOFT
(All the DSP blocks)

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

V_DST H+DLY
V_DST S+DLY
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0 – 100%	0 – 100		
2	Device	Transistor/Vintage Tube/ Dist1/Dist2/Fuzz	0 – 4		
3	Speaker	Flat/Stack/Combo/Twin/ Radio/Megaphone	0 – 5		
4	Presence	0 – 20	0 – 20		
5	Output Level	0 – 100%	0 – 100		
6	Delay Time L	0.1 – 1638.3ms	1 – 16383		
7	Delay Time R	0.1 – 1638.3ms	1 – 16383		
8	Delay Feedback Time	0.1 – 1638.3ms	1 – 16383		
9	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

DUAL ROT SP1, 2
(All the DSP blocks)

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

DST+TDLY, OD+TDLY
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Delay Mix	0 – 127	0 – 127		
4	Dist Drive	0 – 127	0 – 127		
5	Dist Output Level	0 – 127	0 – 127	(table#18)	
6	Dist EQ Low Gain	-12 – +12dB	52 – 76		
7	Dist EQ Mid Gain	-12 – +12dB	52 – 76		
8	L/R Diffusion	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
9	Lag	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	●
11					
12					
13					

No.	Parameter	Display	Value	See Table	Control
14					
15					
16					

CMP+DST+TDL
CMP+OD+TDLY1, 2, 3, 4, 5, 6
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Delay Mix	0 – 127	0 – 127		
4	Dist Drive	0 – 127	0 – 127		
5	Dist Output Level	0 – 127	0 – 127	(table#18)	
6	Dist EQ Low Gain	-12 – +12dB	52 – 76		
7	Dist EQ Mid Gain	-12 – +12dB	52 – 76		
8	L/R Diffusion	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
9	Lag	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	●
11	Comp. Attack	1ms – 40ms	0 – 19	table#8	
12	Comp. Release	10ms – 680ms	0 – 15	table#9	
13	Comp. Threshold	-48dB – -6dB	79 – 121		
14	Comp. Ratio	1.0 – 20.0	0 – 7	table#10	
15					
16					

WH+DST+TDL, WH+OD+TDLY1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Delay Mix	0 – 127	0 – 127		
4	Dist Drive	0 – 127	0 – 127		
5	Dist Output Level	0 – 127	0 – 127	(table#18)	
6	Dist EQ Low Gain	-12 – +12dB	52 – 76		
7	Dist EQ Mid Gain	-12 – +12dB	52 – 76		
8	L/R Diffusion	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
9	Lag	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	●
11	Wah Sensitivity	0 – 127	0 – 127		
12	Wah Cutoff Freq Offset	0 – 127	0 – 127		
13	Wah Resonance	1.0 – 12.0	10 – 120		
14	Wah Release	10 – 680mS	52 – 67	table#12	
15					
16					

V_DST H+TDLY, V_DST S+TDLY1, 2
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0 – 100%	0 – 100		
2	Device	Transistor/Vintage Tube/ Dist1/Dist2/Fuzz	0 – 4		
3	Speaker	Flat/Stack/Combo/Twin/ Radio/Megaphone	0 – 5		
4	Presence	0 – 20	0 – 20		
5	Output Level	0 – 100%	0 – 100		
6	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
7	Delay Feedback Level	-63 – +63	1 – 127	(table#16)	
8	L/R Diffusion	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
9	Lag	1(-63ms) – 64(0ms) – 127(63ms)	1 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

V. FLANGER
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	0.0 – 39.70[Hz]	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	LFO Wave	Triangle, Sine, Random	0 – 2		
4	Delay Offset	0.09 – 36.21[ms]	0 – 139	table#23	
5	Feedback Level	-100 – +100[%]	0 – 200		
6	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
7	EQ Low Gain	-12 – +12[dB]	52 – 76		
8	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
9	EQ High Gain	-12 – +12[dB]	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	EQ Mid Frequency	100[Hz] – 10.0[kHz]	14 – 54	table#3	
12	EQ Mid Gain	-12 – +12[dB]	52 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	Modulation Phase	-180 – +180[deg]	0 – 16	table#24	
15	Feedback High Damp	0.1 – 1.0	1 – 10		
16	Analog Feel	0 – 10	0 – 10		

MBAND COMP
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Type	Normal, Low, Mid, High, Low/High, Low/Mid, Mid/High, Full Bit, Wild, Attacky, Low End, Hard, Basic	0 – 12		
2	Threshold Offset	-32 – +32	32 – 96		●
3	Low Gain Offset	-63 – +63	1 – 127		
4	Mid Gain Offset	-63 – +63	1 – 127		
5	High Gain Offset	-63 – +63	1 – 127		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

T. FLANGER
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Feedback Level	-63 – +63	1 – 127	(table#17)	
4	Delay Offset	0.0 – 50.0[ms]	0 – 127	table#2	
5	LFO Phase Reset	Off (free run)	0		
6	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
7	EQ Low Gain	-12 – +12[dB]	52 – 76		
8	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
9	EQ High Gain	-12 – +12[dB]	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	EQ mid frequency	100[Hz] – 10.0[kHz]	14 – 54	table#3	
12	EQ mid gain	-12 – +12[dB]	52 – 76		
13	EQ mid width	0.1 – 12.0	1 – 120		
14	LFO phase difference	-180 – +180[deg]	4 – 124		
15					
16					

T. PHASER
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	
2	LFO Depth	0 – 127	0 – 127	(table#19)	
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127	(table#16)	
5	LFO Phase Reset	Off (free run)	0		
6	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
7	EQ Low Gain	-12 – +12[dB]	52 – 76		
8	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
9	EQ High Gain	-12 – +12[dB]	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Stage	3 – 11	3 – 11		
12					
13	LFO phase difference	-180 – +180[deg]	4 – 124		
14					
15					
16					

DYN FILTER
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Filter Type	LPF (12dB), LPF (18dB), LPF (24dB), HPF, BPF, BEF	0 – 5		
2	Sensitivity	0 – 127	0 – 127		●
3	Dyna Level Offset	0 – 127	0 – 127		
4	Resonance	-16 – +111	0 – 127		
5	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
6	Release Time	2.6 – 2171.4[ms]	0 – 127	table#21	
7	Release Curve	0 – 127	0 – 127		
8	Direction	Up, Down	0 – 1		
9	Dyna Threshold Level	0 – 127	0 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12[dB]	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

DYN FLANGER
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	Delay Time Offset	0 – 127	0 – 127		
3	Feedback Level	-63 – +63	1 – 127	(table#17)	
4	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
5	Release Time	2.6 – 2171[ms]	0 – 127	table#21	
6	Release Curve	0 – 127	0 – 127		
7	Direction	Up, Down	0 – 1		
8	Dyna Threshold Level	0 – 127	0 – 127		
9	Dyna Level Offset	0 – 127	0 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

DYN PHASER
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	Dyna Level Offset	0 – 127	0 – 127		
3	Feedback Level	-63 – +63	1 – 127	(table#16)	
4	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
5	Release Time	2.6 – 2171[ms]	0 – 127	table#21	
6	Release Curve	0 – 127	0 – 127		
7	Direction	Up, Down	0 – 1		
8	Dyna Threshold Level	0 – 127	0 – 127		
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Stage	4, 5, 6	4 – 6		
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

DYN RINGMOD
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	HPF Cutoff Frequency	Thru (20[Hz]) – 8.0[kHz]	0 – 52	table#3	
3	LPF Cutoff Frequency	1.0[kHz] – Thru (20.0[kHz])	34 – 60	table#3	
4	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
5	Release Time	2.6 – 2171.4[ms]	0 – 127	table#21	
6	Release Curve	0 – 127	0 – 127		
7	Direction	Up, Down	0 – 1		
8	Dyna Threshold Level	0 – 127	0 – 127		
9	Dyna Level Offset	0 – 127	0 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

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

RING MOD
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Osc Freq Course	0.7[Hz] – 5[kHz]	0 – 127	table#22	●
2	Osc Freq Fine	0 – 127	0 – 127		
3	LFO Wave	Triangle, Sine	0 – 1		
4	LFO Depth	0 – 127	0 – 127	(table#19)	
5	LFO Freq	0.0 – 39.70[Hz]	0 – 127	table#1	
6	HPF Cutoff Frequency	Thru (20[Hz]) – 8.0[kHz]	0 – 52	table#3	
7	LPF Cutoff Frequency	1.0[kHz] – Thru (20.0[kHz])	34 – 60	table#3	
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

THRU
(All the DSP blocks)

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

Parameter 10 Dry/Wet only affects insertion type effects.

ISOLATOR
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	On/off SW	Off, On	0 – 1		●
2	Low Level	0 – 127	0 – 127		
3	Mid Level	0 – 127	0 – 127		
4	High Level	0 – 127	0 – 127		
5	Low Mute	Off, On	0 – 1		
6	Mid Mute	Off, On	0 – 1		
7	High Mute	Off, On	0 – 1		
8					
9					
10					
11					
12					
13					
14					
15					
16					

- (*1) Reverb Block
- (*2) Chorus Block, DSP1 Block, DSP2-6 Block
- (*3) DSP1, DSP2-6

VIBE VIBRATE
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Vibrate Speed	0.00Hz – 39.7Hz	0 – 127	table#1	
2	Vibrate Depth (AM)	0 – 127	0 – 127		
3	Vibrate Depth (PM)	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	EQ Mid Frequency (*)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180 – +180deg (resolution=3deg.)	4 – 124		
15	Input Mode	mono/stereo	0 – 1		
16	Vibrate SW	Off, On	0 – 1		●

NO EFFECT
(Reverb, Chorus and DSP1)

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

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

table#1
LFO Frequency

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

table#4
Reverb time

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

table#7
Delay Time (0.1 – 400.0 [ms])

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

table#12
Wah Release Time

Data	Value
52	10
53	15
54	25
55	35
56	45
57	55
58	65
59	75
60	85
61	100
62	115
63	140
64	170
65	230
66	340
67	680

table#2
Modulation Delay Offset

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

table#5
Delay Time (0.1 – 200.0 [ms])

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.3	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

table#8
Compressor
Attack Time

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

table#9
Compressor
Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	200
14	340
15	680

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

table#15
Dry/Wet

Data	Dry (dB)	Wet (dB)	Data	Dry (dB)	Wet (dB)	Data	Dry (dB)	Wet (dB)
1	0.00	∞	44	0.00	-6.63	87	-7.89	0.00
2	0.00	-71.97	45	0.00	-6.24	88	-8.33	0.00
3	0.00	-59.93	46	0.00	-5.85	89	-8.78	0.00
4	0.00	-52.89	47	0.00	-5.46	90	-9.25	0.00
5	0.00	-47.89	48	0.00	-5.09	91	-9.72	0.00
6	0.00	-44.01	49	0.00	-4.72	92	-10.21	0.00
7	0.00	-40.85	50	0.00	-4.37	93	-10.71	0.00
8	0.00	-38.17	51	0.00	-4.01	94	-11.23	0.00
9	0.00	-35.85	52	0.00	-3.67	95	-11.77	0.00
10	0.00	-33.80	53	0.00	-3.33	96	-12.32	0.00
11	0.00	-31.97	54	0.00	-3.00	97	-12.89	0.00
12	0.00	-30.32	55	0.00	-2.68	98	-13.48	0.00
13	0.00	-28.81	56	0.00	-2.36	99	-14.09	0.00
14	0.00	-27.42	57	0.00	-2.05	100	-14.72	0.00
15	0.00	-26.13	58	0.00	-1.74	101	-15.37	0.00
16	0.00	-24.93	59	0.00	-1.44	102	-16.06	0.00
17	0.00	-23.81	60	0.00	-1.14	103	-16.77	0.00
18	0.00	-22.76	61	0.00	-0.85	104	-17.50	0.00
19	0.00	-21.76	62	0.00	-0.56	105	-18.28	0.00
20	0.00	-20.82	63	0.00	-0.28	106	-19.08	0.00
21	0.00	-19.93	64	0.00	0.00	107	-19.93	0.00
22	0.00	-19.08	65	-0.28	0.00	108	-20.82	0.00
23	0.00	-18.28	66	-0.56	0.00	109	-21.76	0.00
24	0.00	-17.50	67	-0.85	0.00	110	-22.76	0.00
25	0.00	-16.77	68	-1.14	0.00	111	-23.81	0.00
26	0.00	-16.06	69	-1.44	0.00	112	-24.93	0.00
27	0.00	-15.37	70	-1.74	0.00	113	-26.13	0.00
28	0.00	-14.72	71	-2.05	0.00	114	-27.42	0.00
29	0.00	-14.09	72	-2.36	0.00	115	-28.81	0.00
30	0.00	-13.48	73	-2.68	0.00	116	-30.32	0.00
31	0.00	-12.89	74	-3.00	0.00	117	-31.97	0.00
32	0.00	-12.32	75	-3.33	0.00	118	-33.80	0.00
33	0.00	-11.77	76	-3.67	0.00	119	-35.85	0.00
34	0.00	-11.23	77	-4.01	0.00	120	-38.17	0.00
35	0.00	-10.71	78	-4.37	0.00	121	-40.85	0.00
36	0.00	-10.21	79	-4.72	0.00	122	-44.01	0.00
37	0.00	-9.72	80	-5.09	0.00	123	-47.89	0.00
38	0.00	-9.25	81	-5.46	0.00	124	-52.89	0.00
39	0.00	-8.78	82	-5.85	0.00	125	-59.93	0.00
40	0.00	-8.33	83	-6.24	0.00	126	-71.97	0.00
41	0.00	-7.89	84	-6.63	0.00	127	∞	0.00
42	0.00	-7.46	85	-7.04	0.00			
43	0.00	-7.04	86	-7.46	0.00			

table#16
Feedback Level (Reverb, Delay types, Flanger types)

Data	Value (%)	Data	Value (%)	Data	Value (%)
1	-99.20654297	44	-31.49414063	87	36.21826172
2	-97.63183594	45	-29.91943359	88	37.79296875
3	-96.05712891	46	-28.34472656	89	39.36767578
4	-94.48242188	47	-26.77001953	90	40.942398281
5	-92.90771484	48	-25.1953125	91	42.51708984
6	-91.33300781	49	-23.62060547	92	44.09179688
7	-89.75830078	50	-22.04589844	93	45.66650391
8	-88.18359375	51	-20.47119141	94	47.24121094
9	-86.60886672	52	-18.89648438	95	48.81591797
10	-85.03417969	53	-17.32177734	96	50.390625
11	-83.45947266	54	-15.74707031	97	51.96533203
12	-81.88476563	55	-14.17236328	98	53.54003960
13	-80.31005859	56	-12.59765625	99	55.11474609
14	-78.73535156	57	-11.02294922	100	56.68945313
15	-77.16064453	58	-9.448242188	101	58.26416016
16	-75.5859375	59	-7.873535156	102	59.83886719
17	-74.01123047	60	-6.298828125	103	61.41357422
18	-72.43652344	61	-4.724121094	104	62.98828125
19	-70.86181641	62	-3.149414063	105	64.56298828
20	-69.28710938	63	-1.574707031	106	66.13769531
21	-67.71240234	64	0.00	107	67.71240234
22	-66.13769531	65	1.574707031	108	69.28710938
23	-64.56298828	66	3.149414063	109	70.86181641
24	-62.98828125	67	4.724121094	110	72.43652344
25	-61.41357422	68	6.298828125	111	74.01123047
26	-59.8386719	69	7.873535156	112	75.5859375
27	-58.26416016	70	9.448242188	113	77.16064453
28	-56.68945313	71	11.02294922	114	78.73535156
29	-55.11474609	72	12.59765625	115	80.31005859
30	-53.54003960	73	14.17236328	116	81.88476563
31	-51.96533203	74	15.74707031	117	83.45947266
32	-50.390625	75	17.32177734	118	85.03417969
33	-48.81591797	76	18.89648438	119	86.60886672
34	-47.24121094	77	20.47119141	120	88.18359375
35	-45.66650391	78	22.04589844	121	89.75830078
36	-44.09179688	79	23.62060547	122	91.33300781
37	-42.51708984	80	25.1953125	123	92.90771484
38	-40.942398281	81	26.77001953	124	94.48242188
39	-39.36767578	82	28.34472656	125	96.05712891
40	-37.79296875	83	29.91943359	126	97.63183594
41	-36.21826172	84	31.49414063	127	99.20654297
42	-34.64355469	85	33.06884766		
43	-33.06884766	86	34.64355469		

table#17
Feedback Level (Chorus types)

Data	Value (%)	Data	Value (%)	Data	Value (%)	Data	Value (%)
1	-72.29	33	-35.57	65	1.15	97	37.87
2	-71.14	34	-34.42	66	2.29	98	39.01
3	-70.00	35	-33.28	67	3.44	99	40.16
4	-68.85	36	-32.13	68	4.59	100	41.31
5	-67.70	37	-30.98	69	5.74	101	42.46
6	-66.55	38	-29.83	70	6.88	102	43.60
7	-65.41	39	-28.69	71	8.03	103	44.75
8	-64.26	40	-27.54	72	9.18	104	45.90
9	-63.11	41	-26.39	73	10.33	105	47.05
10	-61.96	42	-25.24	74	11.47	106	48.19
11	-60.82	43	-24.10	75	12.62	107	49.34
12	-59.67	44	-22.95	76	13.77	108	50.49
13	-58.52	45	-21.80	77	14.92	109	51.64
14	-57.37	46	-20.65	78	16.06	110	52.78
15	-56.23	47	-19.51	79	17.21	111	53.93
16	-55.08	48	-18.36	80	18.36	112	55.08
17	-53.93	49	-17.21	81	19.51	113	56.23
18	-52.78	50	-16.06	82	20.65	114	57.37
19	-51.64	51	-14.92	83	21.80	115	58.52
20	-50.49	52	-13.77	84	22.95	116	59.67
21	-49.34	53	-12.62	85	24.10	117	60.82
22	-48.19	54	-11.47	86	25.24	118	61.96
23	-47.05	55	-10.33	87	26.39	119	63.11
24	-45.90	56	-9.18	88	27.54	120	64.26
25	-44.75	57	-8.03	89	28.69	121	65.41
26	-43.60	58	-6.88	90	29.83	122	66.55
27	-42.46	59	-5.74	91	30.98	123	67.70
28	-41.31	60	-4.59	92	32.13	124	68.85
29	-40.16	61	-3.44	93	33.28	125	70.00
30	-39.01	62	-2.29	94	34.42	126	71.14
31	-37.87	63	-1.15	95	35.57	127	72.29
32	-36.72	64	0.00	96	36.72		

table#18
Level

Data	dB	Data	dB	Data	dB	Data	dB
0	∞	32	-23.95	64	-11.90	96	-4.86
1	-84.15	33	-23.41	65	-11.64	97	-4.68
2	-72.11	34	-22.89	66	-11.37	98	-4.50
3	-65.07	35	-22.39	67	-11.11	99	-4.33
4	-60.07	36	-21.90	68	-10.85	100	-4.15
5	-56.19	37	-21.42	69	-10.60	101	-3.98
6	-53.03	38	-20.96	70	-10.35	102	-3.81
7	-50.35	39	-20.51	71	-10.10	103	-3.64
8	-48.03	40	-20.07	72	-9.86	104	-3.47
9	-45.98	41	-19.64	73	-9.62	105	-3.30
10	-44.15	42	-19.22	74	-9.38	106	-3.14
11	-42.50	43	-18.81	75	-9.15	107	-2.98
12	-40.98	44	-18.41	76	-8.92	108	-2.82
13	-39.59	45	-18.02	77	-8.69	109	-2.66
14	-38.31	46	-17.64	78	-8.47	110	-2.50
15	-37.11	47	-17.27	79	-8.25	111	-2.34
16	-35.99	48	-16.90	80	-8.03	112	-2.18
17	-34.93	49	-16.54	81	-7.81	113	-2.03
18	-33.94	50	-16.19	82	-7.60	114	-1.88
19	-33.00	51	-15.85	83	-7.39	115	-1.72
20	-32.11	52	-15.51	84	-7.18	116	-1.57
21	-31.26	53	-15.18	85	-6.98	117	-1.42
22	-30.46	54	-14.86	86	-6.77	118	-1.28
23	-29.68	55	-14.54	87	-6.57	119	-1.13
24	-28.94	56	-14.22	88	-6.37	120	-0.98
25	-28.23	57	-13.92	89	-6.18	121	-0.84
26	-27.55	58	-13.62	90	-5.98	122	-0.70
27	-26.90	59	-13.32	91	-5.79	123	-0.56
28	-26.27	60	-13.03	92	-5.60	124	-0.42
29	-25.66	61	-12.74	93	-5.41	125	-0.28
30	-25.07	62	-12.46	94	-5.23	126	-0.14
31	-24.50	63	-12.18	95	-5.04	127	0.00

table#19
LFO Depth

Data	Value (%)	Data	Value (%)	Data	Value (%)	Data	Value (%)
0	0.00	32	25.20	64	50.39	96	75.59
1	0.78	33	25.98	65	51.17	97	76.37
2	1.56	34	26.76	66	51.95	98	77.15
3</							

Harmony/Echo Type List / Liste der Harmony/Echo-Effekttypen / Liste des types d'harmonie/d'écho / Lista de tipos de ecos/armonías

STANDARD DUET
STANDARD TRIO
FULL CHORD
ROCK DUET
COUNTRY DUET
COUNTRY TRIO

BLOCK
4-WAY CLOSE 1
4-WAY CLOSE 2
4-WAY OPEN
1+5
OCTAVE

STRUM
MULTI ASSIGN
ECHO
TREMOLO
TRILL

Vocal Harmony Type List / Liste der Vocal-Harmony-Effekttypen / Liste des types d'harmonie vocale / Lista de tipos de armonía

Order	Type	LCD Name	Mode	Vocoder Type		Chordal Type		Detune Type		Chromatic Type		Thru Type	
				MSB	LSB	MSB	LSB	MSB	LSB	MSB	LSB	MSB	LSB
1	CountryQuartet	CountryQuar	Chordal/Vocorder	89	111	90	47						
2	ClosedMenQuartet	ClsdMenQuar	Chordal/Vocorder	89	117	90	53						
3	MixAcapQuartet	MixAcapQuar	Chordal/Vocorder	89	119	90	55						
4	Women Choir	WomenChoir	Chordal/Vocorder	89	88	90	24						
5	Jazz Sisters	JazzSisters	Chordal/Vocorder	89	120	90	56						
6	Standard Duet	Std Duet	Chordal/Vocorder	89	80	90	16						
7	Men Choir	MenChoir	Chordal/Vocorder	89	87	90	23						
8	Closed Choir	ClosedChoir	Chordal/Vocorder	89	90	90	26						
9	Girl in Duet	Girl Duet	Chordal/Vocorder	89	81	90	17						
10	Speedy Mouse	SpdyMouse	Chromatic							92	17		
11	HighMaleQuartet	HighMaleQua	Chordal/Vocorder	89	115	90	51						
12	Jazz Quartet	JazzQuartet	Chordal/Vocorder	89	114	90	50						
13	Mixed Choir	MixedChoir	Chordal/Vocorder	89	91	90	27						
14	Country Girls	CntryGirls	Chordal/Vocorder	89	89	90	25						
15	Sisters Trio	SistersTrio	Chordal/Vocorder	89	113	90	49						
16	Country Men	CountryMen	Chordal/Vocorder	89	83	90	19						
17	A Capella Boy	ACapellBoy	Chordal/Vocorder	89	85	90	21						
18	A Capella Mix	ACapellaMix	Chordal/Vocorder	89	86	90	22						
19	Gospel Diva	GospelDiva	Chordal/Vocorder	89	112	90	48						
20	Lisa and Tina	Lisa&Tina	Chordal/Vocorder	89	82	90	18						
21	AcapMenQuartet	AcapMenQuar	Chordal/Vocorder	89	118	90	54						
22	JazzMenChoir	JazzMenCho	Chordal/Vocorder	89	101	90	37						
23	JazzClosedCho	J_CloseCho	Chordal/Vocorder	89	103	90	39						
24	JazzWomenCho	J_WomenCho	Chordal/Vocorder	89	102	90	38						
25	LadiesQuartet	LadiesQuart	Chordal/Vocorder	89	116	90	52						
26	Sing B+G	Sing B+G	Chordal/Vocorder	89	93	90	29						
27	Barbershop	Barbershop	Chordal/Vocorder	89	96	90	32						
28	JazzMixedCho	J_MixedCho	Chordal/Vocorder	89	104	90	40						
29	Dream Girls	Dream Girls	Chordal/Vocorder	89	94	90	30						
30	Sing the Bass	SingBass	Chromatic							92	16		
31	Falsetto Duet	FalsetDuet	Chordal/Vocorder	89	84	90	20						
32	Falsetto Trio	FalsetTrio	Chordal/Vocorder	89	92	90	28						
33	Falsetto Dia	FalsettoDia	Chordal/Vocorder	89	100	90	36						
34	Fal A Capella	FalACapella	Chordal/Vocorder	89	95	90	31						
35	Falsetto Jazz	FalsetJazz	Chordal/Vocorder	89	105	90	41						
36	2 Unison Low	2UnisonLow	Chordal/Vocorder	89	106	90	42						
37	3 Unison Low	3UnisonLow	Chordal/Vocorder	89	108	90	44						
38	Diatonic Jazz	DiatncJazz	Chordal/Vocorder	89	97	90	33						
39	Diatonic Girl	DiatncGirl	Chordal/Vocorder	89	98	90	34						
40	A Capella Dia	ACapellaDia	Chordal/Vocorder	89	99	90	35						
41	ChordalXG	ChordalXG	Chordal/Vocorder	89	64	90	0						
42	Karaoke Auto	KaraokAuto	Chordal/Vocorder	89	24	90	88						
43	Karaoke Mode	KaraokMode	Chordal/Vocorder	89	25	90	89						
44	Karaoke Girl	KaraokGirl	Chordal/Vocorder	89	26	90	90						
45	Pitch Correct	PitchCorrect	Chordal/Vocorder	89	27	90	91						
46	2 Unison High	2UnisonHigh	Chordal/Vocorder	89	107	90	43						
47	3 Unison High	3UnisonHigh	Chordal/Vocorder	89	109	90	45						
48	Vocoder Auto Upper	VocodAutoU	Chordal/Vocorder	89	16	90	80						
49	Vocoder Auto Lower	VocodAutoL	Chordal/Vocorder	89	17	90	81						
50	DetuneXG	DetuneXG	Detune					91	0				
51	VocoderXG	VocoderXG	Chordal/Vocorder	89	0	90	64						
52	Vocoder Mode Upper	VocodModeU	Chordal/Vocorder	89	18	90	82						
53	Vocoder Mode Lower	VocodModeL	Chordal/Vocorder	89	19	90	83						
54	Vocoder Girl Upper	VocodGirlU	Chordal/Vocorder	89	20	90	84						
55	Vocoder Girl Lower	VocodGirlL	Chordal/Vocorder	89	21	90	85						
56	Vocoder Pitch Upper	VocodPichU	Chordal/Vocorder	89	22	90	86						
57	Vocoder Pitch Lower	VocodPichL	Chordal/Vocorder	89	23	90	87						
58	ChromaticXG	ChromatXG	Chromatic							92	0		
59	Voice&Inst	Voice&Inst	Chordal/Vocorder	89	110	90	46						
60	Pop Vocal	Pop Vocal	Chordal/Vocorder	89	121	90	57						
61	Thru	Thru	-									64	0

Parameter Chart / Parametertabelle / Tableau des paramètres / Gráfico de parâmetros

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
Main														
SongFile	X	X	X	X	X	-	X	-	X	X	O	Song	-	
StyleFile	X	X	X	O	X	-	X	-	X	X	O	Style	-	
Right1 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	-	-	
Right2 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	-	-	
Left VoiceFile	X	X	X	X	X	-	X	-	X	X	X	-	-	
PartOn/Off (Dual)	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
PartOn/Off (Left)	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
RegistrationBankFile	X	X	X	X	X	-	X	-	X	X	X	-	-	
File System														
CharacterSelect	X	X	X	X	X	-	X	-	X	X	X	-	-	One setting for all the Name related pop-up window.
Song														
Track1, 2 On/Off	X	X	X	X	X	-	O	Guide Setting	X	X	X	-	-	Setting is linked to Channel on/off.
ExtraTracks On/Off	X	X	X	X	X	-	X	-	X	X	X	-	-	Setting is linked to Channel on/off.
A-B Repeat	X	X	X	X	X	-	X	-	X	X	X	-	-	
Synchro Start	X	X	X	X	X	-	X	-	X	X	O	SONG	-	
Start/Stop	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel On/Off	X	X	X	X	X	-	X	-	X	X	O	SONG	-	
Menu > Function > SongSetting														
Guide Mode	O	X	X	X	X	-	O	Guide Setting	X	X	X	-	-	Reset to its default setting when song data doesn't include this data.
GuideLampOn/Off	O	X	X	X	X	-	X	-	X	X	X	-	-	
GuideLampTiming	O	X	X	X	X	-	O	Guide Setting	X	X	X	-	-	Reset to its default setting when song data doesn't include this data.
Repeat Mode	O	X	X	X	X	-	X	-	X	X	X	-	-	
Phrase Mark Repeat	X	X	X	X	X	-	X	-	X	X	X	-	-	
Track1 Channel	O	X	X	X	X	-	O	-	X	X	X	-	-	Set by recording. Different from one of the Track2.
Track2 Channel	O	X	X	X	X	-	O	-	X	X	X	-	-	Set by recording. Different from one of the Track2.
Auto Ch Set	O	X	X	X	X	-	X	-	X	X	X	-	-	
Lyrics Language	O	X	X	X	X	-	O	Lyrics Language	X	X	X	-	-	
QuickStart	O	X	X	X	X	-	X	-	X	X	X	-	-	
PAT On/Off	X	X	X	X	X	-	X	-	X	X	X	-	-	Set to OFF when a song is selected. Set to ON if the selected song has Sys Ex messages at the beginning of the data.
Tempo														
Song Tempo	X	X	X	X	X	-	O	TEMPO	O	X	O	Tempo	-	
DigitalStudio > DigitalRecording > Song Creator														
REC Mode														
Rec Start	X	X	X	X	X	-	X	-	X	X	X	-	-	
PunchInAt	X	X	X	X	X	-	X	-	X	X	X	-	-	
Rec End	X	X	X	X	X	-	X	-	X	X	X	-	-	
PunchOutAt	X	X	X	X	X	-	X	-	X	X	X	-	-	
Pedal Punch In/Out	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Quantize														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Size	X	X	X	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Track Delete														
Track Delete	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Track Mix														
Source1	X	X	X	X	X	-	X	-	X	X	X	-	-	
Source2	X	X	X	X	X	-	X	-	X	X	X	-	-	
Destination	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Channel Transpose														
CHANNEL TRANSPOSE	X	X	X	X	X	-	X	-	X	X	X	-	-	
REC Mode > Channel > Setup														
Setup Select	O	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Chd/1-16/SysEx./Lyric > Filter														
Main Filter	O	X	X	X	X	-	X	-	X	X	X	-	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	-	-	
Style Filter	O	X	X	X	X	-	X	-	X	X	X	-	-	
Lyric/Text														
BackGround (Panel Setting)	O	X	X	X	X	-	O	Lyrics Setting	X	X	X	-	-	Cannot be reset with Factory Reset.
BackGround (Panel Setting)	O	X	X	X	X	-	X	-	X	X	X	-	-	
BackGround (Song Setting)	X	X	X	X	X	-	O	Lyrics Setting	X	X	X	-	-	Reset to the background selected last via the panel operation with Factory Reset.
Text File (Panel Setting)	X	X	X	X	X	-	X	-	X	X	O	TEXT	-	
Viewer Mode	O	X	X	X	X	-	X	-	X	X	X	-	-	
Text Sw														
Text Size	X	X	X	X	X	-	X	-	X	X	X	-	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
SCORE SW														
Left on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Right on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Lyric on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Pedal on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Chord on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
NoteName on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Fingering on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Size	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Left ch.	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Right ch.	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
KeySignature	X	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Quantize	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
NoteName	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
ColorNote On/Off	O	X	X	X	X	-	O	Score Setting	X	X	X	-	-	
Recording data														
Song XG data	X	X	X	X	X	X	O	-	X	X	X	-	-	
Style														
AccompanimentOnOff	X	X	X	X	X	-	X	-	X	O (On)	O	Style	-	
OTSLink	X	X	X	O (On)	X	-	X	-	X	X	X	-	-	
AutoFillIn	O	X	X	X	X	-	X	-	X	X	X	-	-	
Section	X	X	X	X	X	-	X	-	X	X	O	Style	-	
SynchroStart	X	X	X	X	X	-	X	-	X	O (On)	O	Style	-	
SynchroStop	X	X	X	X	X	-	X	-	X	X	O	Style	-	
StartStop	O	X	X	X	X	-	X	-	X	X	X	-	-	
Menu > Function > StyleSetting/SplitPoint/Chord Fingering														
Style Setting														
StopAcmp	O	X	X	X	X	-	X	-	X	X	O	Style	-	
OTSLinkTiming	O	X	X	X	X	-	X	-	X	X	X	-	-	
SynchroStopWindow	O	X	X	X	X	-	X	-	X	X	O	Style	-	
StyleTouch	O	X	X	X	X	-	X	-	X	X	O	Style	-	
SectionSet	O	X	X	X	X	-	X	-	X	X	X	-	-	
Tempo Hold	O	X	X	X	X	-	X	-	X	X	X	-	-	
Part On/Off	O	X	X	X	X	-	X	-	X	X	X	-	-	
SplitPoint														
SplitPoint (Left)	O	X	X	X	X	-	X	-	X	X	O	Style	Split Point	
SplitPoint (Style)	O	X	X	X	X	-	O	Guide Setting	X	X	O	Style	Split Point	
Chord Fingering														
FingeringType	O	X	X	X	X	-	X	-	X	X	O	Style	Fingering	
Chord Root Note	X	X	X	X	X	-	X	-	X	X	X	-	-	
Chord Root Type	X	X	X	X	X	-	X	-	X	X	X	-	-	
DigitalStudio > DigitalRecording > Style Creator														
BASIC														
Section	X	X	X	X	X	-	X	-	X	X	X	-	-	
Pattern Length	X	X	X	X	X	-	X	-	O	X	X	-	-	
Tempo	X	X	X	X	X	-	X	-	O	X	X	-	-	
Beat	X	X	X	X	X	-	X	-	O	X	X	-	-	
Assembly														
Source Pattern	X	X	X	X	X	-	X	-	X	X	X	-	-	
Section	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Play Type	X	X	X	X	X	-	X	-	X	X	X	-	-	
Groove > Groove														
Original Beat	X	X	X	X	X	-	X	-	X	X	X	-	-	
Beat Converter	X	X	X	X	X	-	X	-	X	X	X	-	-	
Swing	X	X	X	X	X	-	X	-	X	X	X	-	-	
Fine	X	X	X	X	X	-	X	-	X	X	X	-	-	
Groove > Dynamics														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Accent Type	X	X	X	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	-	-	
Expand/Comp.	X	X	X	X	X	-	X	-	X	X	X	-	-	
Boost/Cut	X	X	X	X	X	-	X	-	X	X	X	-	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
Channel > Quantize														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Size	X	X	X	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Velocity Change														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Boost/Cut	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Bar Copy														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Source Top	X	X	X	X	X	-	X	-	X	X	X	-	-	
Source Last	X	X	X	X	X	-	X	-	X	X	X	-	-	
Destination	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Bar Clear														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Source Top	X	X	X	X	X	-	X	-	X	X	X	-	-	
Source Last	X	X	X	X	X	-	X	-	X	X	X	-	-	
Channel > Remove Event														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Event	X	X	X	X	X	-	X	-	X	X	X	-	-	
Parameter														
Channel	X	X	X	X	X	-	X	-	X	X	X	-	-	
Source Root	X	X	X	X	X	-	X	-	O	X	X	-	-	
Source Chord	X	X	X	X	X	-	X	-	O	X	X	-	-	
NTR	X	X	X	X	X	-	X	-	O	X	X	-	-	
NTT	X	X	X	X	X	-	X	-	O	X	X	-	-	
NTT BASS	X	X	X	X	X	-	X	-	O	X	X	-	-	
High Key	X	X	X	X	X	-	X	-	O	X	X	-	-	
Note Limit Low	X	X	X	X	X	-	X	-	O	X	X	-	-	
Note Limit High	X	X	X	X	X	-	X	-	O	X	X	-	-	
RTR	X	X	X	X	X	-	X	-	O	X	X	-	-	
Edit > Filter														
Main Filter	O	X	X	X	X	-	X	-	X	X	X	-	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	-	-	
MusicFinder														
SortBy	O	X	X	X	X	-	X	-	X	X	X	-	-	
SortOrder	O	X	X	X	X	-	X	-	X	X	X	-	-	
TempoLock	O	X	X	X	X	-	X	-	X	X	X	-	-	
Search 1/2 display														
Music	O	X	X	X	X	-	X	-	X	X	X	-	-	
Keyword	O	X	X	X	X	-	X	-	X	X	X	-	-	
Style (FileNumber)	O	X	X	X	X	-	X	-	X	X	X	-	-	
Beat	O	X	X	X	X	-	X	-	X	X	X	-	-	
SearchArea	O	X	X	X	X	-	X	-	X	X	X	-	-	
Tempo (From)	O	X	X	X	X	-	X	-	X	X	X	-	-	
Tempo (To)	O	X	X	X	X	-	X	-	X	X	X	-	-	
Genre	O	X	X	X	X	-	X	-	X	X	X	-	-	
Search Result	X	X	X	O	X	-	X	-	X	X	X	-	-	
Record (=Property settings)	X	X	X	O	X	-	X	-	X	X	X	-	-	
Recording data														
SFF data	X	X	X	X	X	-	X	-	O	X	X	-	-	
Voice														
VoiceEffect														
LeftHold	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Harmony/Echo	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Harmony	-	
Poly/Mono (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Poly/Mono (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Poly/Mono (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Dsp (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Dsp (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Dsp (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Variation (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Variation (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Variation (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
VoiceEffect > Harmony/Echo														
Type	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	O	Harmony	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
VoiceEffect > Harmony/Echo														
Volume	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	O	Harmony	-	
Speed	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	O	Harmony	-	
Assign	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	O	Harmony	-	
ChordNoteOnly	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	O	Harmony	-	
TouchLimit	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	O	Harmony	-	
Voice Open/Save > Voice Set														
Voice (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Voice (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Voice (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Piano														
Natural Voice Piano SR Depth	O	X	X	X	X	-	X	-	X	X	X	-	-	
Natural Voice Piano SS Depth	O	X	X	X	X	-	X	-	X	X	X	-	-	
Piano Tuning Curve	O	X	X	X	X	-	X	-	X	X	X	-	-	
KeyOff Sample	O	X	X	X	X	-	X	-	X	X	X	-	-	
COMMON														
Volume for Balance (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Volume for Balance (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Volume for Balance (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Touch Sense Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Touch Sense Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Touch Sense Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Touch Sense Offset (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Touch Sense Offset (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Touch Sense Offset (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Octave for Right1	X	X	X	X	O	Voice	X	-	X	O	O	Voice	-	
Octave for Right2	X	X	X	X	O	Voice	X	-	X	O	O	Voice	-	
Octave for Left	X	X	X	X	O	Voice	X	-	X	O	O	Style	-	
CONTROLLER														
MW Low Pass Filter Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW Low Pass Filter Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW Low Pass Filter Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
MW Amplitude Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW Amplitude Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW Amplitude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
MW LFO PMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW LFO PMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW LFO PMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
MW LFO FMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW LFO FMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW LFO FMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
MW LFO AMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW LFO AMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
MW LFO AMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
SOUND														
EG Attack (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Attack (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Attack (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EG Decay (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
SOUND														
EG Decay (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Decay (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EG Release (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Release (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Release (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Speed (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Speed (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Speed (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Delay (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Delay (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Delay (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EFFECT/EQ														
DSP Type (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Type (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Type (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
DSP Variation Value (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Variation Value (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Variation Value (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
EQ Low Freq (Right1)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ Low Freq (Right2)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ Low Freq (Left)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
EQ High Freq (Right1)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ High Freq (Right2)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ High Freq (Left)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
VibeRotor Sw (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
VibeRotor Sw (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
VibeRotor Sw (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
OrganFlute > Footage														
Organ Flutes Footage (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Footage (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Footage (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Type (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Type (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Type (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Vib On/Off (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib On/Off (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib On/Off (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Vib Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
OrganFlute > Footage														
Organ Vib Speed (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib Speed (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Organ Vib Speed (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Attack Footage (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack Footage (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack Footage (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Attack Mode (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack Mode (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack Mode (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Attack length (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack length (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Attack length (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Response (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Response (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Response (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Organ Flutes Volume (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Volume (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Organ Flutes Volume (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Mic														
VocalHarmonyOnOff	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
TalkOnOff	X	X	X	X	X	-	X	-	X	X	X	-	-	
Mic EffectOnOff	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
VHType	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
VHParameters	X	X	O	X	X	-	O	Mic.Setting	X	X	X	-	Mic.Setting	
Main > Mic Setting														
Mic Setting > OverAll Setting														
EQ Low Freq.	O	X	X	X	X	-	X	-	X	X	X	-	-	
EQ Low Gain	O	X	X	X	X	-	X	-	X	X	X	-	-	
EQ Mid Freq.	O	X	X	X	X	-	X	-	X	X	X	-	-	
EQ Mid Gain	O	X	X	X	X	-	X	-	X	X	X	-	-	
EQ High Freq.	O	X	X	X	X	-	X	-	X	X	X	-	-	
EQ High Gain	O	X	X	X	X	-	X	-	X	X	X	-	-	
Noise Gate SW	O	X	X	X	X	-	X	-	X	X	X	-	-	
Noise Gate TH	O	X	X	X	X	-	X	-	X	X	X	-	-	
Compressor SW	O	X	X	X	X	-	X	-	X	X	X	-	-	
Compressor TH	O	X	X	X	X	-	X	-	X	X	X	-	-	
Compressor RAT	O	X	X	X	X	-	X	-	X	X	X	-	-	
Compressor OUT	O	X	X	X	X	-	X	-	X	X	X	-	-	
VH Song Channel Mute	X	X	X	X	X	-	X	-	X	X	O	Mic	Mic.Setting	
VH Song Channel	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
VH Keyboard	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
VH Balance	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
VH Mode	X	X	X	X	X	-	X	-	X	X	O	Mic	Mic.Setting	
VH Chord Detect	X	X	X	X	X	-	X	-	X	X	O	Mic	Mic.Setting	
MicMute	X	X	X	X	X	-	X	-	X	X	X	-	-	
MicVolume	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
VocalRange	O	X	X	X	X	-	X	-	X	X	X	-	-	
Mic Setting > Talk Setting														
Talk Setting Volume	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting Pan	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting ReverbDepth	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting ChorusDepth	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting TotalVolumeAttenuator	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting DSPOnOff	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting DSPDepth	O	X	X	X	X	-	X	-	X	X	X	-	-	
Talk Setting DSPType	O	X	X	X	X	-	X	-	X	X	X	-	-	
Main > Mixing Console > Voice														
Volume														
Offset Volume Song	X	X	X	X	X	-	X	-	X	X	O	Song	-	
Offset Volume Style	X	X	X	X	X	-	X	-	X	X	O	Style	-	
Volume Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
Volume														
Volume Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Volume Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Volume Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Part Volume Song	X	X	X	X	X	-	O	Volume	X	X	X	-	-	
Part Volume Style	X	X	X	X	X	-	X	-	O	X	O	Style	-	
PanPot														
Offset PanPot Song	X	X	X	X	X	-	X	-	X	X	X	-	-	
Offset PanPot Style	X	X	X	X	X	-	X	-	X	X	O	Style	-	
PanPot Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
PanPot Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
PanPot Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
PanPot Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Part PanPot Song	X	X	X	X	X	-	O	Pan	X	X	X	-	-	
Part PanPot Style	X	X	X	X	X	-	X	-	O	X	O	Style	-	
Voice														
Voice (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Voice (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Voice	-	
Voice (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	O	Style	-	
Voice (Style Part)	X	X	X	X	X	-	X	-	O	X	O	Style	-	
Voice (Song Part)	X	X	X	X	X	-	O	Voice	X	X	X	-	-	
Auto Revoice														
Auto Revoice On/Off	O	X	X	X	X	-	X	-	X	X	X	-	-	
Auto Revoice Setup	O	X	X	X	X	-	X	-	X	X	X	-	-	
Main > Mixing Console > Filter														
Brightness														
Brightness Song Part	X	X	X	X	X	-	O	Filter	X	X	X	-	-	
Brightness Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
Brightness Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Brightness Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Brightness Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Harmonic Content														
Harmonic Content Song Part	X	X	X	X	X	-	O	Filter	X	X	X	-	-	
Harmonic Content Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
Harmonic Content Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Harmonic Content Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Harmonic Content Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Main > Mixing Console > Tune														
Octave														
Octave Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Octave Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Octave Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Tune														
Tune Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Tune Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Tune Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Portamento Time														
Portamento Time Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Portamento Time Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Portamento Time Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Pitch Bend Range														
Pitch Bend Range Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Pitch Bend Range Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Pitch Bend Range Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Transpose														
Master Transpose	X	X	X	X	X	-	X	-	X	X	O	Transpose	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
Transpose														
Song Transpose	X	X	X	X	X	-	X	-	X	X	O	Transpose	-	
Keyboard Transpose	X	X	X	X	X	-	X	-	X	X	O	Transpose	-	
Main > Mixing Console > CMP														
MasterCmpressor Type	O	X	X	X	X	-	X	-	X	X	X	-	-	
MasterCmpressor Basic Type	X	X	O	X	X	-	X	-	X	X	X	-	-	
MasterCmpressor Threshold Offset	X	X	O	X	X	-	X	-	X	X	X	-	-	
MasterCmpressor Low Gain Offset	X	X	O	X	X	-	X	-	X	X	X	-	-	
MasterCmpressor Mid Gain Offset	X	X	O	X	X	-	X	-	X	X	X	-	-	
MasterCmpressor High Gain Offset	X	X	O	X	X	-	X	-	X	X	X	-	-	
MasterCmpressor On/Off	O	X	X	X	X	-	X	-	X	X	X	-	-	
Main > Mixing Console > EQ														
MasterEQ Type	O	X	X	X	X	-	X	-	X	X	X	-	Master EQ	
MasterEQ Parameter	X	X	O	X	X	-	X	-	X	X	X	-	Master EQ	
EQ Low Gain														
EQ Low Gain Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
EQ Low Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	-	-	
EQ Low Gain Right1	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ Low Gain Right2	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ Low Gain Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
EQ Low Gain Style (Offset)	X	X	X	X	X	-	X	-	X	X	O	Style	-	
EQ Low Gain Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	-	-	
EQ High Gain														
EQ High Gain Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
EQ High Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	-	-	
EQ High Gain Right1	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ High Gain Right2	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
EQ High Gain Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
EQ High Gain Style (Offset)	X	X	X	X	X	-	X	-	X	X	O	Style	-	
EQ High Gain Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	-	-	
Main > Mixing Console > Effect														
Reverb Type														
Reverb Type	X	X	X	X	X	-	O	Effect	O	X	O	Style/Song	Reverb Type	
Reverb Return Level	X	X	X	X	X	-	O	Effect	O	X	O	Style/Song	Reverb Return Level	
Reverb Depth														
Reverb Depth Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
Reverb Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	-	-	
Reverb Depth Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
Reverb Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Reverb Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Reverb Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Reverb Depth Style (Offset)	X	X	X	X	X	-	X	-	X	X	O	Style	-	
Reverb Depth Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	-	-	
Chorus Type														
Chorus Type	X	X	X	X	X	-	O	Effect	O	X	O	Style/Song	-	
Chorus Return Level	X	X	X	X	X	-	O	Effect	O	X	O	Style/Song	Chorus Return Level	
Chorus Depth														
Chorus Depth Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
Chorus Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	-	-	
Chorus Depth Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic.Setting	
Chorus Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Chorus Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Chorus Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Chorus Depth														
Chorus Depth Style (Offset)	X	X	X	X	X	-	X	-	X	X	O	Style	-	
Chorus Depth Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	-	-	
DSP Type														
DSP1 (Variation) Type	X	X	X	X	X	-	O	Effect	O	X	O	Style/Song	-	
DSP1 (Variation) Return Level	X	X	X	X	X	-	O	Effect	O	X	O	Style/Song	DSP1 Return Level	
DSP2Type	X	X	X	X	X	-	O	Effect	X	X	O	Voice/Style/Song	-	
DSP3Type	X	X	X	X	X	-	O	Effect	X	X	O	Voice/Style/Song	-	
DSP4Type	X	X	X	X	X	-	O	Effect	X	X	O	Voice/Style/Song	-	
DSP5Type	X	X	X	X	X	-	O	Effect	X	X	O	Voice/Style/Song	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
DSP Type														
DSP6Type	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Song/Mic	Mic.Setting	
DSP Depth														
DSP Depth Style Part	X	X	X	X	X	-	X	-	O	X	O	Style	-	
DSP Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	-	-	
DSP Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
DSP Depth Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	-	
InsertionType														
Ins.Type (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Ins.Type (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Ins.Type (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Ins.Type (Song)	X	X	X	X	X	-	O	Effect	X	X	X	-	-	
Ins.Type (Mic)	X	X	X	X	X	-	O	Mic.Setting	X	X	O	Mic	Mic Setting	
Effect Parameter (Reverb/Chorus/DSP1~5)	X	X	O	X	X	-	O	Effect	X	X	X	-	-	
Effect Parameter (DSP6)	X	X	O	X	X	-	O	Mic.Setting	X	X	X	-	-	
Main > Channel > Channel OnOffPopup														
ChannelOnOff (Song)	X	X	X	X	X	-	X	-	X	X	O	Song	-	
ChannelOnOff (Style)	X	X	X	X	X	-	X	-	O	X	O	Style	-	
MIDI														
MIDI Template														
Template No.	O	X	X	X	X	-	X	-	X	X	X	-	-	
Preset Template Name	X	O	X	X	X	-	X	-	X	X	X	-	-	
Menu > Function > MIDI														
System														
Local Control	X	O	X	X	X	-	X	-	X	X	X	-	-	
Clock	X	O	X	X	X	-	X	-	X	X	X	-	-	
Transmit Clock	X	O	X	X	X	-	X	-	X	X	X	-	-	
Receive Transpose	X	O	X	X	X	-	X	-	X	X	X	-	-	
Receive Start/Stop	X	O	X	X	X	-	X	-	X	X	X	-	-	
SysEx Transmit	X	O	X	X	X	-	X	-	X	X	X	-	-	
SysEx Receive	X	O	X	X	X	-	X	-	X	X	X	-	-	
Chord SysEx Transmit	X	O	X	X	X	-	X	-	X	X	X	-	-	
Chord SysEx Receive	X	O	X	X	X	-	X	-	X	X	X	-	-	
Transmit														
Part Select	X	O	X	X	X	-	X	-	X	X	X	-	-	
Ch (for each part)	X	O	X	X	X	-	X	-	X	X	X	-	-	
Filter (for each part)	X	O	X	X	X	-	X	-	X	X	X	-	-	
Receive														
CH Select	X	O	X	X	X	-	X	-	X	X	X	-	-	
Part Select	X	O	X	X	X	-	X	-	X	X	X	-	-	
Filter (for each channel)	X	O	X	X	X	-	X	-	X	X	X	-	-	
Bass (On Bass Note)														
Bass (On Bass Note)	X	O	X	X	X	-	X	-	X	X	X	-	-	
Chord Detect														
Chord Detect	X	O	X	X	X	-	X	-	X	X	X	-	-	
Menu > Function > Master Tune/Scale Tune														
Master Tune														
MasterTune	O	X	X	X	X	-	X	-	X	X	X	-	-	
Scale Tune														
Scale	X	X	X	X	X	-	X	-	X	X	O	Scale	-	
Tune	X	X	X	X	X	-	X	-	X	X	O	Scale	-	
BaseNote	X	X	X	X	X	-	X	-	X	X	O	Scale	-	
Part Select (Right1/Right2, Left, Style)	X	X	X	X	X	-	X	-	X	X	O	Scale	-	
Menu > Function > Controller														
Foot Pedal														
PedalFunction	X	X	X	X	O	Left Pedal	O	Keyboard Voice	X	O	O	Pedal	-	
PedalSettings	X	X	X	X	O	Left Pedal	O	Keyboard Voice	X	O	O	Pedal	-	
PedalPolarity	O	X	X	X	X	-	X	-	X	X	X	-	-	
Keyboard/Panel														
Initial Touch	O	X	X	X	X	-	X	-	X	X	X	-	-	
Initial TouchOffLevel	X	X	X	X	X	-	X	-	X	X	O	Voice	-	
Initial Touch Part OnOff	X	X	X	X	X	-	X	-	X	X	O	Voice	-	
TransposeAssign	O	X	X	X	X	-	X	-	X	X	X	-	-	
Menu > Function > Regist.Sequence/Freeze/VoiceSet														
Regist Sequence														
RegistSequenceData	X	X	X	X	X	-	X	-	X	X	O	-	-	Memorized as a single Registration Bank file.

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Regist	Freeze Group			
Regist Sequence														
RegistSequenceEnable	O	X	X	X	X	-	X	-	X	X	X	-	-	
Regist (+) Pedal	O	X	X	X	X	-	X	-	X	X	X	-	-	
Regist (-) Pedal	O	X	X	X	X	-	X	-	X	X	X	-	-	
SequenceEnd	X	X	X	X	X	-	X	-	X	X	O	-	-	Memorized as a single Registration Bank file.
Freeze Group														
FreezeGroupSetting	O	X	X	X	X	-	X	-	X	X	X	-	-	
FreezeOnOff	X	X	X	X	X	-	X	-	X	X	X	-	-	
VoiceSet														
VoiceSet Group Right1 OnOff	O	X	X	X	X	-	X	-	X	X	X	-	-	
VoiceSet Group Right2 OnOff	O	X	X	X	X	-	X	-	X	X	X	-	-	
VoiceSet Group Left OnOff	O	X	X	X	X	-	X	-	X	X	X	-	-	
Menu > Function > Utility														
Configuration1														
FadeInTime	O	X	X	X	X	-	X	-	X	X	X	-	-	
FadeOutTime	O	X	X	X	X	-	X	-	X	X	X	-	-	
FadeOutHoldTime	O	X	X	X	X	-	X	-	X	X	X	-	-	
MetronomeVolume	O	X	X	X	X	-	X	-	X	X	X	-	-	
MetronomeSound	O	X	X	X	X	-	X	-	X	X	X	-	-	
TimeSignature	X	X	X	X	X	-	O	-	O	X	X	-	-	
ParameterLock	O	X	X	X	X	-	X	-	X	X	X	-	-	
TapCountPercussion	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
TapCountVelocity	X	X	X	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Configuration2														
LCD Brightness	O	X	X	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
DisplayVoiceNumber	O	X	X	X	X	-	X	-	X	X	X	-	-	
Speaker	O	X	X	X	X	-	X	-	X	X	X	-	-	
VoiceCategory Button Options	O	X	X	X	X	-	X	-	X	X	X	-	-	
Display Style Tempo	O	X	X	X	X	-	X	-	X	X	X	-	-	
Popup Display Time	O	X	X	X	X	-	X	-	X	X	X	-	-	
ScreenOut														
Monitor Type	O	X	X	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
ScreenContent	O	X	X	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
Media														
SongAutoOpen	O	X	X	X	X	-	X	-	X	X	X	-	-	
Owner														
Language	O	X	X	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
OwnerName	O	X	X	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
MainPicture	O	X	X	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
SystemReset														
FactoryResetSetting	X	X	X	X	X	-	X	-	X	X	X	-	-	Language, Owner Name, Main Picture BackGround, Lyric Picture BackGround, and Video Out related parameters are not reset.
Registration														
RegistMemory Contents	O	X	X	X	X	-	X	-	X	X	X	-	-	
RegistNumber	X	X	X	X	X	-	X	-	X	X	X	-	-	
RegistContentsName	X	X	X	X	X	-	X	-	X	X	O	-	-	
OTS														
OTSNumber	X	X	X	X	X	-	X	-	X	X	X	-	-	
Menu > Demo														
None	X	X	X	X	X	-	X	-	X	X	X	-	-	
Metronome														
StartStop	X	X	X	X	X	-	X	-	X	X	X	-	-	
Transpose														
Transpose	X	X	X	X	X	-	X	-	X	X	O	Tune/Trans	-	
PianoReset														
PianoReset	O	X	X	X	X	-	X	-	X	X	X	-	-	
iAFC														
iAFC On/Off	O	X	X	X	X	-	X	-	X	X	X	-	-	
DYNAMIC DAMPER EFFECT DEPTH	O	X	X	X	X	-	X	-	X	X	X	-	-	
SPATIAL ENSEMBLE EFFECT DEPTH	O	X	X	X	X	-	X	-	X	X	X	-	-	
REC To USB														
Audio Player File	X	X	X	X	X	-	X	-	X	X	X	-	-	

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

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

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

- Except the table above, for example 144-159 (decimal)/9nH/1001 0000-1001 1111 (binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/ 1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexadecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/Obbbbbbbb denotes the byte count.
- ccH/Occccccc denotes the check sum.
- ddH/Oddddddd denotes the data/value.

MIDI CHANNEL MESSAGE (1)

MIDI Events	[MIDI]																			[Song Creator]		
	Status byte	1st Data byte		2nd Data byte		Voice		MIDI Reception					MIDI Transmission				PLAY		REC			
	Status	Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)			
Key Off [GM1] [GM2]	8nH (n: Channel Number)	kk	Key no. (0-127)	vv	Velocity (0-127)	0	0 (Harmony Channel/ Melody Channel)	0	0	0	0	0	X	0	0	X	0	X	X			
Key On [GM1] [GM2]	9nH (n: Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	0	0 (Harmony Channel/ Melody Channel)	0	0	0	0	0	●	0	0	●	0	X	0			
Control Change	BnH	0 (00H)	Bank Select MSB [GM2]	0 00H 8 08H 8 08H 64 40H 120 78H 121 79H 126 7EH 127 7FH	Normal Mega Voice SA Voice SFX Voice GM2 Rhythm GM2 Normal SFX Kit Drum Kit	0	X	0	0	0	0	0	●	●	●	X	0	0	0			
		1 (01H)	Modulation [GM1] [GM2]	0-127 (00H...7FH)	Data	0	X	0	0	0	0	0	●	0	0	●	0	0	0			
		5 (05H)	Portamento Time [GM2]	0-127 (00H...7FH)	Data	0 (Except Organ Flutes)	X	0	0	0	0	0	●	X	0	X	0	0	0			
		6 (06H)	Data Entry MSB [GM2]	0-127 (00H...7FH)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	0	0	0	●	0	0	X	0	X	0			
		7 (07H)	Main Volume [GM1] [GM2]	0-127 (00H...7FH)	Data	0	0 (A/D Part Receive Channel)	0	0	0	0	0	●	●	●	X	0	0	0			
		10 (0AH)	Panpot [GM1] [GM2]	0-127 (00H...7FH)	L64...C...R63	0	0 (A/D Part Receive Channel)	0	0	0	0	0	●	●	●	X	0	0	0			
		11 (0BH)	Expression [GM1] [GM2]	0-127 (00H...7FH)	Data	0	X	0	0	0	0	0	●	●	●	●	0	0	0			
		32 (20H)	Bank Select LSB [GM2]	0-127 (00H...7FH)	Data	0	X	0	0	0	0	0	●	●	●	X	0	0	0			
		38 (26H)	Data Entry LSB [GM2]	0-127 (00H...7FH)	Data	0	X	0	0	0	X	0	●	X	0	X	0	X	0			
		64 (40H)	Sustain (Damper) [GM1] [GM2]	0-127 (00H...7FH)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	0	X	0	●	X	0	●	0	0	0			
		65 (41H)	Portamento [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0 (Except Natural Piano, Organ Flutes)	X	0	0	0	X	0	●	X	0	●	0	0	0			
		66 (42H)	Sostenuto [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0	X	0	0	0	X	0	●	X	0	●	0	0	0			
		67 (43H)	Soft Pedal [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0	X	0	0	0	X	0	●	X	0	●	0	0	0			
		71 (47H)	Harmonic Content [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	●	●	●	X	0	0	0			
		72 (48H)	Release Time [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	●	0	0	X	0	0	0			
		73 (49H)	Attack Time [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	●	0	0	X	0	0	0			
		74 (4AH)	Brightness [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	●	●	●	X	0	0	0			
		75 (4BH)	Decay Time [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	X	X	0	X	0	0	0	X			
		76 (4CH)	Vibrato Rate [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	X	X	0	X	0	0	X			
		77 (4DH)	Vibrato Depth [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	X	X	0	X	0	0	X			
		78 (4EH)	Vibrato Delay [GM2]	0-127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	X	X	0	X	0	0	X			
		84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	0	X	0	0	0	0	0	0	●	0	X	0	X	0			
		91 (5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127 (00H...7FH)	Data	0	0 (A/D Part Receive Channel)	0	0	0	0	0	●	●	●	X	0	0	0			
		93 (5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127 (00H...7FH)	Data	0	0 (A/D Part Receive Channel)	0	0	0	0	0	●	●	●	X	0	0	0			
		94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	●	●	X	0	0	X			
		96 (60H)	RPN Increment	- -	The data byte is ignored.	0	0 (Harmony Channel/ Melody Channel)	0	0	X	0	0	X	X	0	X	0	X	X			
		97 (61H)	RPN Decrement	- -	The data byte is ignored.	0	0 (Harmony Channel/ Melody Channel)	0	0	X	0	0	X	X	0	X	0	X	X			
		98 (62H)	NRPN LSB	0-127 (00H...7FH)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	X	0	0	●	0	0	X	0	0	0			

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

MIDI Events	[MIDI]																	[Song Creator]		
	Status byte		1st Data byte		2nd Data byte		Voice		MIDI Reception				MIDI Transmission				PLAY		REC	
	Status	Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)	
		99 (63H)	NRPN MSB	0-127 (00H...7FH)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	X	0	0	●	0	0	X	0	0	0	
		100 (64H)	RPN LSB [GM2]	0-127 (00H...7FH)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	0 (All Keyboard parts)	0	0	●	0	0	X	0	0	0	
		101 (65H)	RPN MSB [GM2]	0-127 (00H...7FH)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	0 (All Keyboard parts)	0	0	●	0	0	X	0	0	0	
Mode Message	BnH (n. Channel Number)	120 (78H)	All Sound Off [GM2]	0 (00H)	Data	0	X	0	0	0 (All Keyboard parts)	0	0	X	X	0	X	0	X	X	
		121 (79H)	Reset All Controllers [GM1] [GM2]	0 (00H)	Data	0	X	0	X	X	X	X	X	X	0	X	0	X	X	
		122 (7AH)	Local Control	0 127 (00H/ 7FH)	OFF ON	-	-	0			X	X	X	X	X	X	X	X	X	
		123 (7BH)	All Note Off [GM1] [GM2]	0 (00H)	Data	0	0 (Harmony Channel/ Melody Channel)	0	0	0 (All Keyboard parts)	0	0	X	X	0	X	0	X	X	
		124 (7CH)	Omni Off [GM2]	0 (00H)	Data	0	X	0 *1	X	X	X	X	X	X	X	0	X	0	X	X
		125 (7DH)	Omni On [GM2]	0 (00H)	Data	0	X	0 *2	X	X	X	X	X	X	X	0	X	0	X	X
		126 (7EH)	Mono [GM2]	0-16 (00H...10H)	Data	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
		127 (7FH)	Poly [GM2]	0 (00H)	Data	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
Program Change [GM1] [GM2]	CnH (n. Channel Number)	pp (00H... 7FH)	Voice Number (0-127)	-	-	0	X	0	0	0 (Right1)	0	0	●	●	●	X	0	0	0	
Channel Alter Touch [GM1] [GM2]	DnH (n. Channel Number)	vv (00H... 7FH)	Data	-	-	0	X	0	0	0 (All Keyboard parts)	X	0	X	X	0	X	0	X	0	
Polyphonic After Touch	AnH (n. Channel Number)	kk (00H... 7FH)	Key no. (0-127)	vv (00H...7FH)	Data	0	X	0	X	X	X	X	X	X	0	X	0	X	X	
Pitch Bend Change [GM1] [GM2]	EnH (n. Channel Number)	cc (00H... 7FH)	LSB	dd (00H...7FH)	MSB	0	0 (Harmony Channel/ Melody Channel)	0	0	0 (All Keyboard parts)	0	0	●	0	0	●	0	0	0	
Realtime Message	F8H MIDI Clock	-	-	-	-	-	-	0 (Received when the Clock is set to MIDI, USB1, or USB2.)				0 (Transmitted when the Clock is set to Internal and the Transmit Clock is set to on.)				-	-	-		
	FAH Start	-	-	-	-	-	-	0 (Received when the Clock is set to MIDI, USB1, or USB2.)				0 (Transmitted when the Transmit Clock is set to on.)				-	-	-		
	FBH Continue	-	-	-	-	-	-	X				X				-	-	-		
	FCH Stop	-	-	-	-	-	-	0 (Received when the Clock is set to MIDI, USB1, or USB2.)				0 (Transmitted when the Transmit Clock is set to on.)				-	-	-		
	FEH Active Sense [GM2]	-	-	-	-	-	-	0				0				-	-	-		
	FFH System Reset	-	-	-	-	-	-	X				X				-	-	-		

● Transmitted via panel operations and keyboard/controller performances.

About Mic/Vocal Harmony column:
 (HarmonyChannel/Melody Channel): The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Channel Parameter.
 (A/D Part Receive Channel): The relevant parameters are received by the song part designated by the XG's AD Part Receive Ch.

*1: Same operation as when receiving All Note Off.
 *2: Same operation as when receiving All Note Off. OMNI ON is not enabled.

[GM1] ... GM Required Parameter
 [GM2] ... GM Level 2 Required Parameter

MIDI CHANNEL MESSAGE (2)

NRPN				[MIDI]										[Song Creator]					
NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception				MIDI Transmission				PLAY		REC	
MSB	LSB	MSB	LSB			Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)
01H	08H	mmH	--	Vibrato Rate	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/Melody Channel)	O	O	X	O	O	●	O	O	X	O	O	O
01H	09H	mmH	--	Vibrato Depth	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/Melody Channel)	O	O	X	O	O	●	O	O	X	O	O	O
01H	0AH	mmH	--	Vibrato Delay	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/Melody Channel)	O	O	X	O	O	●	O	O	X	O	O	O
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	O	X	O	O	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	O	X	O	O	X
01H	30H	mmH	--	EQ Bass Gain	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	O	X	O	O	X
01H	31H	mmH	--	EQ Treble Gain	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	O	X	O	O	X
01H	34H	mmH	--	EQ Bass Frequency	mm: 04H-28H (32...2.0k[Hz])	O	X	O	X	X	X	X	X	X	O	X	O	O	X
01H	35H	mmH	--	EQ Treble Frequency	mm: 1CH-3AH (500...16.0k[Hz])	O	X	O	X	X	X	X	X	X	O	X	O	O	X
01H	63H	mmH	--	EG Attack Time	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	O	X	O	O	X
01H	64H	mmH	--	EG Decay Time	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	O	X	O	O	●	O	O	X	O	O	X
01H	66H	mmH	--	EG Release	mm: 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	O	X	O	O	X
14H	rrH	mmH	--	Drum Low Pass Filter Cutoff Frequency	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	X	O	O	X	O	X	X
15H	rrH	mmH	--	Drum Low Pass Filter Resonance	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
16H	rrH	mmH	--	Drum EG Attack Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
17H	rrH	mmH	--	Drum EG Decay Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
18H	rrH	mmH	--	Drum Pitch Coarse	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
19H	rrH	mmH	--	Drum Pitch Fine	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
1AH	rrH	mmH	--	Drum Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
1CH	rrH	mmH	--	Drum Pan	rr: drum instrument note number mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
1DH	rrH	mmH	--	Drum Reverb Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
1EH	rrH	mmH	--	Drum Chorus Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
1FH	rrH	mmH	--	Drum Variation Send Level	rr: drum instrument note number mm: 00H-7FH (0...127) (Variation Connection=SYSTEM) mm: 00H, 01H-7FH (OFF_ON) (Variation Connection=INSERTION)	O (Drum only)	X	O	X	X	X	X	O	O	X	O	X	X	
30H	rrH	mmH	--	Drum EQ Bass Gain	rr: drum instrument note number mm: 00H-7FH (0...127)	X	X	X	X	X	X	X	X	X	X	X	X	X	
31H	rrH	mmH	--	Drum EQ Treble Gain	rr: drum instrument note number mm: 00H-7FH (0...127)	X	X	X	X	X	X	X	X	X	X	X	X	X	
34H	rrH	mmH	--	Drum EQ Bass Frequency	rr: drum instrument note number mm: 04H-28H (32...2.0k[Hz])	X	X	X	X	X	X	X	X	X	X	X	X	X	
35H	rrH	mmH	--	Drum EQ Treble Frequency	rr: drum instrument note number mm: 1CH-3AH (500...16.0k[Hz])	X	X	X	X	X	X	X	X	X	X	X	X	X	

● Transmitted via panel operations and keyboard/controller performances.

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

NRPN (Vocal Harmony)				[MIDI]										[Song Creator]				
NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
MSB	LSB	MSB	LSB			Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
00H	00H	mmH	--	Harmony Mute	mm: 00H-3FH, 40H-7FH (Off, On)	X	O (Harmony Channel)	X	X	X	X	X	X	O	X	O	X	X
01H	1AH	mmH	--	Detune Modulation	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	O	X	O	X	X	X
02H	10H	mmH	--	Harmony1 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	11H	mmH	--	Harmony2 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	12H	mmH	--	Harmony3 Volume	mm: 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	20H	mmH	--	Harmony1 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	21H	mmH	--	Harmony2 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	22H	mmH	--	Harmony3 Pan	mm: 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	30H	mmH	--	Harmony1 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	31H	mmH	--	Harmony2 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X
02H	32H	mmH	--	Harmony3 Detune	mm: 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	●	X	O	X	X	X

● Transmitted via panel operations and keyboard/controller performances.
Message is sent to the Song Channel part set in MicSetting → Vocoder Control → Song Channel.

Data Entry LSB: Ignored.

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

RPN				[MIDI]										[Song Creator]				
RPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
MSB	LSB	MSB	LSB			Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1] [GM2]	mm: 00H-18H (0...+24[semitones])	0	0	0	0	0	0	0	0	0	0	0	0	0
00H	01H	mmH	IIH	Fine Tune [GM1] [GM2]	mm II: 00H 00H -100[cent] ... mm II: 40H 00H 0[cent] ... mm II: 7FH 7FH 100[cent]	0	0	0	0	0	0	0	0	0	0	0	0	0
00H	02H	mmH	--	Coarse Tune [GM1] [GM2]	mm: 28H-40H-58H (-24...0...+24[semitones])	0	0	0	0	0	0	0	0	0	0	0	0	0
00H	05H	mmH	IIH	Modulation Sensitivity [GM2]	mm: Specified in semitone steps II: Specified in 100/128 cent steps	0	0	0	X	X	X	X	X	0	X	X	X	X
7FH	7FH	--	--	Null [GM2]	-	0	0	0	0	0	0	0	0	0	0	0	0	0

● Transmitted via panel operations and keyboard/controller performances.

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

[GM1] ... GM Required Parameter
[GM2] ... GM Level2 Required Parameter

XG PARAMETER CHANGE TABLE

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

MIDI Parameter Change table (XG SYSTEM)

Address (H)				[MIDI]										[Song Creator]					
Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
00	01	02	03				Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
00	00	00 01 02 03	4	00-0F 00-0F 00-0F 00-0F	MASTER TUNE	-102.4...0...+102.3[cent] 1st bit3-0 -> bit15-12 2nd bit3-0 -> bit11-8 3rd bit3-0 -> bit7-4 4th bit3-0 -> bit3-0	*Panel setting value	0	0	0	0	0	0	0	0	0	0	0	0
		04	1	00-7F	MASTER VOLUME	0...127	7F	0	X	0	0	0	0	0	0	0	0	0	0
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	X	X	X	0	0	0	0	0	0	0	0	0
		06	1	28-58	TRANSPOSE	-24...0...+24[semitones]	40	0	0	0	0	0	0	0	0	0	0	0	0
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	-	0	X	0	0	0	0	0	0	0	0	0	0
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	0	X	0	0	0	0	0	0	0	0	0	0
		7F	1	00	ALL PARAMETER RESET	00=ON	-	0	X	0	0	0	0	0	0	0	0	0	0

TOTAL SIZE 07

● Transmitted via panel operations

MIDI Parameter Change table (SYSTEM INFORMATION)

Address (H)				[MIDI]										[Song Creator]					
Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
00	01	02	03				Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
01	00	00 0D 0E 0F	E 1 1	20-7F 20-7F	Model Name 1 Model Name 14 NOT USED NOT USED	32...127 (ASCII CHARACTER) 32...127 (ASCII CHARACTER)	-	-	-	-	-	-	-	-	-	-	-	-	-

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

Address (H)				[MIDI]										[Song Creator]					
Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
00	01	02	03				Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
02	01	00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Parameter List	01 (=HALL1) 00	0	0	0	0	0	0	0	0	0	0	0	0
		02	1	00-7F	REVERB PARAMETER 1	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		03	1	00-7F	REVERB PARAMETER 2	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		04	1	00-7F	REVERB PARAMETER 3	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		05	1	00-7F	REVERB PARAMETER 4	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		06	1	00-7F	REVERB PARAMETER 5	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		07	1	00-7F	REVERB PARAMETER 6	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		08	1	00-7F	REVERB PARAMETER 7	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		09	1	00-7F	REVERB PARAMETER 8	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		0A	1	00-7F	REVERB PARAMETER 9	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		0B	1	00-7F	REVERB PARAMETER 10	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0	0
		0C	1	00-7F	REVERB RETURN	->dB...0dB...+6dB (0...64...127)	40	0	0	0	0	0	0	0	0	0	0	0	0
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	0	0	0	0	0	0	0	0	0	0	0	X

TOTAL SIZE 0E

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

[MIDI]										[Song Creator]								
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
						Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboar d	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0
		11	1	00-7F	REVERB PARAMETER 12	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0
		12	1	00-7F	REVERB PARAMETER 13	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0
		13	1	00-7F	REVERB PARAMETER 14	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0
		14	1	00-7F	REVERB PARAMETER 15	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0
		15	1	00-7F	REVERB PARAMETER 16	-	Depends on Reverb Type	0	0	0	0	0	0	0	0	0	0	0

TOTAL SIZE 06

● Transmitted via panel operations

[MIDI]										[Song Creator]								
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
						Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboar d	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
02	01	20	2	00-7F	CHORUS TYPE MSB	Refer to Effect Parameter List	41 (=CHORUS1)	0	0	0	0	0	0	0	0	0	0	0
				00-7F	CHORUS TYPE LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		22	1	00-7F	CHORUS PARAMETER 1	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		23	1	00-7F	CHORUS PARAMETER 2	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		24	1	00-7F	CHORUS PARAMETER 3	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		25	1	00-7F	CHORUS PARAMETER 4	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		26	1	00-7F	CHORUS PARAMETER 5	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		27	1	00-7F	CHORUS PARAMETER 6	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		28	1	00-7F	CHORUS PARAMETER 7	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		29	1	00-7F	CHORUS PARAMETER 8	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		2A	1	00-7F	CHORUS PARAMETER 9	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		2B	1	00-7F	CHORUS PARAMETER 10	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		2C	1	00-7F	CHORUS RETURN	→dB...0dB...+6dB (0...64...127)	40	0	0	0	0	0	0	0	0	0	0	0
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	0	0	0	0	0	0	0	0	0	0	X
		2E	1	00-7F	SEND CHORUS TO REVERB	→dB...0dB...+6dB (0...64...127)	00	0	0	0	0	0	0	0	0	0	0	X

TOTAL SIZE 0F

02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		31	1	00-7F	CHORUS PARAMETER 12	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		32	1	00-7F	CHORUS PARAMETER 13	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		33	1	00-7F	CHORUS PARAMETER 14	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		34	1	00-7F	CHORUS PARAMETER 15	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0
		35	1	00-7F	CHORUS PARAMETER 16	-	Depends on Chorus Type	0	0	0	0	0	0	0	0	0	0	0

TOTAL SIZE 06

[MIDI]										[Song Creator]								
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
						Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboar d	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW
02	01	40	2	00-7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05 (=DELAY L, C, R)	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION TYPE LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		42	2	00-7F	VARIATION PARAMETER 1 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 1 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		44	2	00-7F	VARIATION PARAMETER 2 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 2 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		46	2	00-7F	VARIATION PARAMETER 3 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 3 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		48	2	00-7F	VARIATION PARAMETER 4 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 4 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 5 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 6 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 7 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		50	2	00-7F	VARIATION PARAMETER 8 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 8 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		52	2	00-7F	VARIATION PARAMETER 9 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 9 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		54	2	00-7F	VARIATION PARAMETER 10 MSB	-	Depends on Variation Type	0	0	0	0	0	0	0	0	0	0	0
				00-7F	VARIATION PARAMETER 10 LSB	-	00	0	0	0	0	0	0	0	0	0	0	0
		56	1	00-7F	VARIATION RETURN	→dB...0dB...+6dB (0...64...127)	40	0	0	0	0	0	0	0	0	0	0	0
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	0	0	0	0	0	0	0	0	0	0	X
		58	1	00-7F	SEND VARIATION TO REVERB	→dB...0dB...+6dB (0...64...127)	00	0	0	0	0	0	0	0	0	0	0	X
		59	1	00-7F	SEND VARIATION TO CHORUS	→dB...0dB...+6dB (0...64...127)	00	0	0	0	0	0	0	0	0	0	0	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	0	0	0	0	0	0	0	0	0	0	0
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F	0	0	0	0	0	0	0	0	0	0	0
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	0	0	0	0	0	0	0	0	0	0	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	0	0	0	0	0	0	0	0	0	0	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	0	0	0	0	0	0	0	0	0	0	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	0	0	0	0	0	0	0	0	0	0	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	0	0	0	0	0	0	0	0	0	0	X

TOTAL SIZE 21

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

				[MIDI]								[Song Creator]						
Address (H)	Size (H)	Data (H)	Parameter	Description	Voice		MIDI Reception				MIDI Transmission				PLAY		REC	
					Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/Left)
	30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter 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	-	○	○		○					●		○	○	○
	40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	-	○	○		○					●		○	○	○
	42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	-	○	○		○					●		○	○	○

TOTAL SIZE 14

● Transmitted via panel operations

The second byte of the address is considered as an Insertion effect number
n: insertion effect number (n=0-4)

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 addresses 02-0B will always be transmitted.
For effects that require MSB however, when a bulk dump is received, the parameters for addresses 02-0B will not be received.

MIDI Parameter Change table (SPECIAL EFFECT)

				[MIDI]								[Sound Creator]							
Address (H)	Size (H)	Data (H)	Parameter	Description	Voice		MIDI Reception				MIDI Transmission				PLAY		REC		
					Regular/Drum/ Natural/Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/Left)	
04	00	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Vocoder (89), Chordal (90), Detune (91), Chromatic (92), Thru (0...88, 93...127)	*The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON	X	○			○			●		○	○	X
	02	1	00-7F	INSERTION EFFECT PARAMETER 1 Harmony Mode			X	○		○				●		○	○	○	X
	03	1	00-7F	INSERTION EFFECT PARAMETER 2 Harmony Gender Type	Off (0), Auto (1)		X	○		○				●		○	○	○	X
	04	1	00-7F	INSERTION EFFECT PARAMETER 3 Lead Gender Type	Off (0), Unison (1), Male (2), Female (3)		X	○		○				●		○	○	○	X
	05	1	00-7F	INSERTION EFFECT PARAMETER 4 Lead Gender Depth	-64...0...+63 (0...127)		X	○		○				●		○	○	○	X
	06	1	00-7F	INSERTION EFFECT PARAMETER 5 Lead Pitch Correction	Free (0), Correct (1)		X	○		○				●		○	○	○	X
	07	1	00-7F	INSERTION EFFECT PARAMETER 6 Auto Upper Gender Threshold	0...12 (0...12)		X	○		○				●		○	○	○	X
	08	1	00-7F	INSERTION EFFECT PARAMETER 7 Auto Lower Gender Threshold	0...12 (0...12)		X	○		○				●		○	○	○	X
	09	1	00-7F	INSERTION EFFECT PARAMETER 8 Upper Gender Depth	-64...0...+63 (0...127)		X	○		○				●		○	○	○	X
	0A	1	00-7F	INSERTION EFFECT PARAMETER 9 Lower Gender Depth	-64...0...+63 (0...127)		X	○		○				●		○	○	○	X
	0B	1	00-7F	INSERTION EFFECT PARAMETER 10	L63>H...L=H...L<H63 (1...64...127)		X	○		○				●		○	○	○	X
	0C	1	00-7F	INSERTION EFFECT PART NUMBER	AD (64), OFF (0...63, 65...127)		X	○		○				●		○	○	○	○
	0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		X	X		X				X		X	X	X	X
	0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		X	X		X				X		X	X	X	X
	0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		X	X		X				X		X	X	X	X
	10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		X	X		X				X		X	X	X	X
	11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		X	X		X				X		X	X	X	X

TOTAL SIZE 12

	14	1	00-7F	UNIQUE INSERTION EFFECT EXTERNAL CONTROL CH1 (HARMONY CHANNEL)	1...16 (0...15), OFF (127)		X	○		○				●		○	○	○	X
	15	1	00-7F	UNIQUE INSERTION EFFECT EXTERNAL CONTROL CH1 (MELODY CHANNEL)	1...16 (0...15), OFF (127)		X	○		○				○		○	○	○	X

TOTAL SIZE 2

	20	1	00-7F	INSERTION EFFECT PARAMETER 11 Vibrato Depth	0...100cent (0...127)		X	○		○				●		○	○	○	X
	21	1	00-7F	INSERTION EFFECT PARAMETER 12 Vibrato Rate	0Hz (0), 0.1...12.7Hz (1...127)		X	○		○				●		○	○	○	X
	22	1	00-7F	INSERTION EFFECT PARAMETER 13 Vibrato Delay	0...2.54sec (0...127)		X	○		○				●		○	○	○	X
	23	1	00-7F	INSERTION EFFECT PARAMETER 14			X	X		X				X		X	X	X	X
	24	1	00-7F	INSERTION EFFECT PARAMETER 15			X	X		X				X		X	X	X	X
	25	1	00-7F	INSERTION EFFECT PARAMETER 16			X	X		X				X		X	X	X	X

TOTAL SIZE 6

● Transmitted via panel operations

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

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI]										[Song Creator]				
						Voice		MIDI Reception				MIDI Transmission				PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)	
57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	O	X	O	X	X	
67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	O	(Except Natural Piano, Organ Flutes)	X	O	O	X	X	O	X	X	O	X	O	O	X
68	1	00-7F	PORTAMENTO TIME	0...127	00	O	X	O	O	X	X	O	X	X	O	X	O	O	X	
69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	O	X	O	O	X	X	O	X	X	O	X	O	X	X	
6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	O	X	O	O	X	X	O	X	X	O	X	O	X	X	
6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	O	X	O	O	X	X	O	X	X	O	X	O	X	X	
6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	O	X	O	O	X	X	O	X	X	O	X	O	X	X	
6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	O	X	O	O	X	X	O	X	X	O	X	O	X	X	
6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	O	X	O	O	X	X	O	X	X	O	X	O	X	X	

TOTAL SIZE 3F

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

TOTAL SIZE 04

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

● Transmitted via panel operations

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI]										[Sound Creator]				
						Voice		MIDI Reception				MIDI Transmission				PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)	
0A	nn	40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	O	X	X	O	O	X	O	X	O	O
41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	X	X	X	X	X	X	O	X	O	O	X	
42	1	00-7F	CAT OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	X	O	X	X	O	X	X	O	X	O	O	X	
43	1	00-7F	PAT OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	X	X	X	X	X	X	O	X	O	O	X	
44	1	00-7F	AC1 OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	X	X	X	X	X	X	O	X	O	O	X	
45	1	00-7F	AC2 OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	X	X	X	X	X	X	O	X	O	O	X	

TOTAL SIZE 06

● Transmitted via panel operations

nn = PART NUMBER

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

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

MIDI Parameter Change table (A/D PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI]										[Song Creator]		
						Voice		MIDI Reception					MIDI Transmission			PLAY		REC
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	Style	Song	Upper Lower	PLAY	REW
10	0n	00	1	00-01	INPUT GAIN	MIC, LINE	*The A/D PART parameter cannot be reset to its factory setting with XG System On.	X	X		X					X	X	X
		01	1	00-7F	BANK SELECT MSB	0...127		X	X		X			X		X	X	X
		02	1	00-7F	BANK SELECT LSB	0...127		X	X		X			X		X	X	X
		03	1	00-7F	PROGRAM NUMBER	1...128		X	X		X			X		X	X	X
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF		X	O		O			O		O	X	X
		05	1		NOT USED			-	-		-			-		-	-	-
		06	1		NOT USED			-	-		-			-		-	-	-
		07	1		NOT USED			-	-		-			-		-	-	-
		08	1		NOT USED			-	-		-			-		-	-	-
		09	1		NOT USED			-	-		-			-		-	-	-
		0A	1		NOT USED			-	-		-			-		-	-	-
		0B	1	00-7F	VOLUME	0...127		X	O		O			●		O	X	X
		0C	1		NOT USED			-	-		-			-		-	-	-
		0D	1		NOT USED			-	-		-			-		-	-	-
		0E	1	01-7F	PAN	L63...C...R63		X	O		O			●		O	X	X
		0F	1		NOT USED			-	-		-			-		-	-	-
		10	1		NOT USED			-	-		-			-		-	-	-
		11	1	00-7F	DRY LEVEL	0...127		X	O		O			●		O	X	X
		12	1	00-7F	CHORUS SEND	0...127		X	O		O			●		O	X	X
		13	1	00-7F	REVERB SEND	0...127		X	O		O			●		O	X	X
		14	1	00-7F	VARIATION SEND	0...127		X	O		O			●		O	X	X

TOTAL SIZE 15
n: A/D Part Number (0)

MIDI Parameter Change table (DRUM SETUP)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI]										[Song Creator]		
						Voice		MIDI Reception					MIDI Transmission			PLAY		REC
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	Style	Song	Upper Lower	PLAY	REW
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	O	X		O			O		O	X	X
		01	1	00-7F	PITCH FINE	-64...0...+63[cent]	40	O	X		O			O		O	X	X
		02	1	00-7F	LEVEL	0...127	Depends on the note	O	X		O			O		O	X	X
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	Depends on the note	O	X		O			O		O	X	X
		04	1	00-7F	PAN	RND, L63...C...R63	Depends on the note	O	X		O			O		O	X	X
		05	1	00-7F	REVERB SEND	0...127	Depends on the note	O	X		O			O		O	X	X
		06	1	00-7F	CHORUS SEND	0...127	Depends on the note	O	X		O			O		O	X	X
		07	1	00-7F	VARIATION SEND	0...127	7F	O	X		O			O		O	X	X
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	O	X		O			O		O	X	X
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	O	X		O			O		O	X	X
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	O	X		O			O		O	X	X
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	O	X		O			O		O	X	X
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	O	X		O			O		O	X	X
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	O	X		O			O		O	X	X
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	O	X		O			O		O	X	X
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	O	X		O			O		O	X	X

TOTAL SIZE 10

		20	1	00-7F	EQ BASS GAIN	-12...+12[dB]	40	X	X		X			X		X	X	X
		21	1	00-7F	EQ TREBLE GAIN	-12...+12[dB]	40	X	X		X			X		X	X	X
		22	1		NOT USED		-	-	-		-			-		-	-	-
		23	1		NOT USED		-	-	-		-			-		-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	X	X		X			X		X	X	X
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	X	X		X			X		X	X	X
		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 instrument will initialize all Drum Setups.

- XG SYSTEM ON received
- GM SYSTEM ON received
- GM LEVEL2 SYSTEM ON received
- GS RESET received
- DRUM SETUP RESET received (only when in XG mode)

[Note]

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

System Exclusive Messages (2)

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

System Exclusive Messages (Style)

MIDI Event	Data Format	[MIDI]										
		Voice		MIDI Reception				MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower
Section Control	<p>F0 43 7E 00 ss dd F7</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No.</p> <p>00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D</p> <p>0ddddd dd = Switch On/Off 00H (Off) 7FH (On) 11110111 F7 = End of Exclusive</p>	-	-			O						●
Tempo Control	<p>F0 43 7E 01 t4 t3 t2 t1 F7</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111</p>	-	-			O						●
Chord Control	<p>F0 43 7E tt d1 d2 d3 d4 F7</p> <p>Type1 (tt=02)</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddd d1 = chord root (cr) 0ddddd d2 = chord type (ct) 0ddddd d3 = bass note (bn) 0ddddd d4 = bass type (bt) 11110111 F7 = End of Exclusive</p> <p>cr: Chord Root Offnnnn ff: b or #, nnnn: note (root)</p> <p>000nnnn 0n bbb 0fff0000 x0 reserved 000nnnn 1n bb 0fff0001 x1 C 0010nnnn 2n b 0fff0010 x2 D 001nnnn 3n natural 0fff0011 x3 E 010nnnn 4n # 0fff0100 x4 F 010nnnn 5n ## 0fff0101 x5 G 0110nnnn 6n ### 0fff0110 x6 A 0fff0111 x7 B</p> <p>ct: Chord Type 0 - 34, 127</p> <p>0000000 0 0 Maj 00010010 12 18 dim7 0000001 01 1 Maj6 00010011 13 19 7th 00000010 02 2 Maj7 00010100 14 20 7sus4 00000011 03 3 Maj7 (#11) 00010101 15 21 7b5 00000100 04 4 Maj(9) 00010110 16 22 7(9) 00000101 05 5 Maj7(9) 00010111 17 23 7(#11) 00000110 06 6 Maj6(9) 00011000 18 24 7(13) 00000111 07 7 aug 00011001 19 25 7(b9) 00001000 08 8 min 00011010 1A 26 7 b13) 00001001 09 9 min6 00011011 1B 27 7(#9) 00001010 0A 10 min7 00011100 1C 28 Maj7aug 00001011 0B 11 min7b5 00011101 1D 29 7aug 00001100 0C 12 min(9) 00011110 1E 30 1+8 00001101 0D 13 min7(9) 00011111 1F 31 1+5 00001110 0E 14 min7(11) 00100000 20 32 sus4 00001111 0F 15 minMaj7 00100001 21 33 1+2+5 00010000 10 16 minMaj7(9) 00100010 22 34 cc 00010001 11 17 dim</p> <p>bn: On Bass Note Same as Chord root 127: No bass chord</p> <p>bt: Bass Chord Same as Chord type 127: No bass chord</p> <p>* Not received when Chord System Exclusive Message Parameters is set to off. * Not received when Transmit Chord System Exclusive Message Parameters is set to off.</p>	-	-			O						●
	<p>Type2 (tt=03)</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddd dd = note1 0ddddd dd = note2 0ddddd dd = note3 : 0ddddd dd = note10 11110111 F7 = End of Exclusive</p>	-	-			O						X

● Transmitted via panel operations

System Exclusive Messages (XG)

MIDI Event	Data Format	[MIDI]										
		Voice		MIDI Reception					MIDI Transmission			
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower
XG Parameter Changes	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nmmn 1n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data : 11110111 F7 = End of Exclusive	-	-	-	0	0	0	0	0	0	0	0
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd...dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nmmn 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 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data : 0ddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	-	-	-	0	0	0	0	0	0	0	0
XG Parameter Request	F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nmmn 3n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	0	0	0	0	0	0	0	0
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nmmn 2n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	0	0	0	0	0	0	0	0

System Exclusive Messages (Clavinova compliance)

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

MIDI Event	Data Format	[MIDI]										
		Voice		MIDI Reception					MIDI Transmission			
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower
Internal Clock	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-	-	-	0	0	0	0	0	0	0	X
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-	-	0	0	0	0	0	0	0	X
Organ Flutes data Bulk Dump	F0 43 73 01 06 0B 00 00 01 06 0n [Bulk Data] sum 01H Model ID (Clavinova common ID) 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H, 00H, 01H, 06H Data Length :16bytes 1st Channel No. 0nH 2nd Footage [1] 00 - 08H 3rd [1 1/3] 00 - 08H 4th [1 3/5] 00 - 08H 5th [2] 00 - 08H 6th [2 2/3] 00 - 08H 7th [4] 00 - 08H 8th [5 1/3] 00 - 08H 9th [8] 00 - 08H 10th [16] 00 - 08H 11th [Attack 2] 00 - 08H 12th [Attack 2 2/3] 00 - 08H 13th [Attack 4] 00 - 08H 14th Settings [Attack Length] 00 - 08H 15th [Response] 00 - 08H 16th [Attack Mode] 00 - 01H 00H: Each, 01H: First 17th [Wave Variation] 00 - 01H 00H: Sine, 01H: Vintage 18th [Volume] 01 - 09H 19th [aux] 00H 20th [aux] 00H 21th [aux] 00H 22th [aux] 00H sum Check Sum = 0-sum (BULK DATA)	0 (Organ Flute)	X	0	0	X	X	0	●	X	0	X

● Transmitted via panel operations

System Exclusive Messages (Natural Voice)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception				MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower
String Resonance Depth	FO 43 73 01 50 11 0n 02 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = SubID 00010001 11 = SubID 0000nmmn 0n = Channel (00...0F) 00000010 02 = SubID (String Resonance Depth) 0d4d4d4d dd = Depth (00...48) 11110111 F7 = End of Exclusive	O Available for song Natural Voices.	X	O	O	X	X	O	●	X	O	X
Sustain Sample Depth	FO 43 73 01 50 11 0n 03 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = SubID 00010001 11 = SubID 0000nmmn 0n = Channel (00...0F) 00000011 03 = SubID (Sustain Sample Depth) 0d4d4d4d dd = Depth (00...48) 11110111 F7 = End of Exclusive	O Available for song Natural Voices.	X	O	O	X	X	O	●	X	O	X
Key Off Sampling Depth	FO 43 73 01 50 11 0n 04 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = SubID 00010001 11 = SubID 0000nmmn 0n = Channel (00...0F) 00000100 04 = SubID (Key Off Sampling Depth) 0d4d4d4d dd = Depth (00...50) 11110111 F7 = End of Exclusive	O Available for song Natural Voices.	X	O	O	X	X	O	●	X	O	X
Soft Pedal Depth	FO 43 73 01 50 11 0n 05 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = SubID 00010001 11 = SubID 0000nmmn 0n = Channel (00...0F) 00000101 05 = SubID (Soft Pedal Depth) 0d4d4d4d dd = Depth (00...7F) 11110111 F7 = End of Exclusive	O Available for song Natural Voices.	X	O	O	X	X	O	●	X	O	X

●: Transmitted via panel operations

System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception				MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower
Vocal Harmony Pitch to Note ON/OFF	FO 43 73 01 11 0n 50 00 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nmmn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000000 00 = Pitch to Note Parameter No. 0d4d4d4d dd = data (00H : Off, 01H : On) 11110111 F7 = End of Exclusive	X	O		O					●		
Vocal Harmony Pitch to Note Part	FO 43 73 01 11 0n 50 01 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nmmn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000001 01 = Pitch to Note Part Parameter No. 0d4d4d4d dd = data 00H : Right1 01H : Right2 02H : Left 03H : (not used) 04H : Upper 11110111 F7=End of Exclusive	X	O		O					●		
Vocal Harmony Vocoder Part (Harmony Part(Pannel))	FO 43 73 01 11 0n 50 10 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nmmn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00010000 10 = Vocoder Part Parameter No. 0d4d4d4d dd = data 00H : Off 01H : Upper 02H : Lower 11110111 F7 = End of Exclusive	X	O		O					●		

●: Transmitted via panel operations

System Exclusive Messages (Others)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception				MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	Style	Song	Upper Lower
MIDI Master Tuning	<p>F0 43 1n 27 30 00 00 0m 0l cc F7</p> <p>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</p>	O	O			O					X	
MIDI Key LED Mode	<p>F0 43 73 01 11 0n 47 dd F7</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. 01000111 47 = MIDI Key LED Mode On Off Substatus 0aaaaaaa dd = data 00H : Light Off & Sound 01H : Light On & No Sound 02H : Light On & Sound 03H : Light Off & No Sound 11110111 F7 = End of Exclusive</p> <p>When set to Key LED + No Sound (01H) and Key LED (02H), the LED is turned on/ off by a note on message of the channel specified via the Channel No. 9n, note, Vel=0: off 9n, note, Vel=1: flush 9n, note, Vel=2-: on Up to two channels can be specified simultaneously. A channel become available with Normal (00H).</p>	-	-	O	X	X	X	X	X	X	X	

Song System Exclusive Message List / Liste der System-Exclusive-Meldungen der Songs / Liste des messages exclusifs au système demorceaux / Lista de mensajes exclusivos del sistema de canciones

Data Format	Parameter	Description	Note
Guide			
F0 43 73 01 1F 00 cc dd F7	Guide Mode	ccH = Part Select No 00H (TRACK1=ON, TRACK2=ON) 01H (TRACK1=OFF, TRACK2=ON) 02H (TRACK1=ON, TRACK2=OFF) 03H (TRACK1=OFF, TRACK2=OFF) ddH = Mode 00H=Guide OFF 01H=Follow Lights 02H=Any Key 03H=Karoo-Key 04H=Vocal CueTIME	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
Score			
F0 43 73 01 50 12 00 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display
F0 43 73 01 50 12 00 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 05 dd F7	Size designation	00H: SMALL, 01H: MIDDLE, 02H: LARGE, 03H: X-LARGE	
F0 43 73 01 50 12 00 06 dd F7	Left Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 07 dd F7	Right Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON	
F0 43 73 01 50 12 00 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second	
F0 43 73 01 50 12 00 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo	
F0 43 73 01 50 12 00 0B dd F7	Color Note	00H: OFF, 7FH: ON	
Style			
F0 43 73 01 51 00 00 03 10 00 dd F7	STYLE SPLIT POINT	dd=STYLE SPLIT POINT (Note Number)	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display
F0 43 73 01 51 05 00 03 04 00 00 dd dd F7	STYLE	dd dd = Style No.	Entered when recording.
F0 43 7E 00 ss dd F7	Section Control	Refer to the MIDI Data Format.	Entered when recording.

Song Meta Event List / Liste der Meta-Events der Songs / Liste des métaévénements des morceaux / Lista de meta-eventos de canciones

Data Format	Parameter	Description	Note
FF 05 len [Data]	Lyrics	len=Data length, [Data]=Lyrics Data	
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 = Tempo value B7 1B 00~01 D4 C0 (Tempo 5~500)	Entered when recording.
FF 58 04 nn dd cc bb	Beat	nn = Numerator dd = Denominator (2n) cc = MIDI clock per metronome click bb = Number of thirty-second notes in MIDI quarter note	Entered when recording.
FF 59 02 sf mi	Key Signature	sf = -7 - 7 mi = 0: Major key, 1: Minor key	Entered from the [Score] > SETUP display
YAMAHA META EVENT			
FF 7F 06 43 73 0A 00 07 dd	Score Start Bar	ddH: Start form this measure dd = -100 - 1, 1 - 100	Same as ScBar entered from the [SONG CREATOR] > SYS/EX. display
FF 7F len 43 73 0D 01 [Data]	Keyboard Voice	Voice settings for RIGHT1, 2, and LEFT	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
YAMAHA XF META EVENT			
FF 7F 07 43 7B 01 cr ct bn bt	Chord Name	Refer to "Chord Control" in the MIDI Data Format (System Exclusive Messages)	Entered when recording.
FF 7F 05 43 7B 03 20 08	Phrase Mark	Used as a marker for each phrase when executing Phrase Mark repeat playback.	Used when performing the Phrase Mark repeat playback.
FF 7F 04 43 7B 04 dd	Phrase Max	Max Phrase Number	
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	Sets the TRACK 1 and TRACK 2 parameters on the [FUNCTION] > [SONG SETTING] display. rr = TRACK1 (0: OFF, 1: 1CH~16: 16CH) ll = TRACK2 (0: OFF, 1: 1CH~16: 16CH)	Entered when recording.
FF 7F len 43 7B 21 00 pp [Data]	Lyrics Bitmap	Specifies the background picture of the Lyrics display. pp = Display type (00H: Center, 01H: Tile) [Data] = File Path	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.

MIDI Implementation Chart / MIDI-Implementierungstabelle / Tableau d'implémentation MIDI / Gráfico de implementación MIDI

YAMAHA [Clavinova]
Model CGP-1000 MIDI Implementation Chart

Date :08-May-2006
Version : 1.0

Function...	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	
Mode Default Messages Altered	3 X *****	3 X X	
Note Number : True voice	0 - 127 *****	0 - 127 0 - 127	
Velocity Note ON Note OFF	O 9nH,v=1-127 X 9nH,v=0	O 9nH,v=1-127 X	
After Touch Key's Ch's	X X	O O	
Pitch Bend	O	O 0 - 24 semi	
Control Change 0,32 1,5,7,10,11 6,38 64,65,66,67 71,72,73,74 84 91,93,94 96,97 98,99 100,101	O O O O O O O X O O	O O O O O O O O O O	Bank Select Data Entry Sound Controller Portament Cntrl Effect Depth RPN Inc,Dec NRPN LSB,MSB RPN LSB,MSB
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	O O	
Aux : All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset	X X X X O X	O (120,126,127) O (121) O (122) O (123-125) O X	
Notes:			

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

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

O : Yes
X : No

MEMO



Clavinova Web site

<http://music.yamaha.com/homekeyboard>

Yamaha Manual Library

<http://www.yamaha.co.jp/manual/>