

PORTATONE
PSR-OR7000
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Voice List / Voice-Liste / Liste des voix

Panel

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Piano	GrandPiano	0	113	1	Live!
	BrightPiano	0	112	2	Live!
	HarpSichord	0	112	7	Regular
	GrandHarpsi	0	113	7	Regular
	HonkyTonk	0	112	4	Regular
	WarmGrand	0	114	1	Live!
	MidiGrand	0	112	3	Regular
	Oct.Piano1	0	113	4	Regular
	Oct.Piano2	0	114	4	Regular
	CP80	0	113	3	Regular
E.Piano	GalaxyEP	0	114	5	Cool!
	SuitcaseEP	0	118	5	Cool!
	PolarisEP	0	115	5	Regular
	JazzChorus	0	118	6	Regular
	HyperTines	0	113	6	Regular
	ElectricPiano	0	119	5	Cool!
	PhaseEP	0	120	5	Regular
	NewTines	0	116	6	Regular
	FunkEP	0	112	5	Regular
	DX Modern	0	112	6	Regular
	VintageEP	0	116	5	Regular
	VenusEP	0	114	6	Regular
	ModernEP	0	115	6	Regular
	TremoloEP	0	113	5	Regular
	SuperDX	0	117	6	Regular
	StageEP	0	117	5	Regular
	Clavi	0	112	8	Regular
	WahClavi	0	113	8	Regular
Strings	Strings	0	117	50	Live!
	Allegro	0	122	50	Live!
	Orchestra	0	116	50	Live!
	Symphonic	0	114	49	Regular
	Strings	0	112	49	Regular
	Violin	0	113	41	Sweet!
	OrchStrings	0	113	49	Regular
	OrchHorns	0	118	50	Regular
	OrchFlute	0	119	50	Regular
	Tutti	0	120	50	Regular
	StringQuartet	0	114	50	Regular
	ConcertoStrings	0	115	49	Regular
	AnalogStrings	0	112	52	Regular
	ChamberStrings	0	112	50	Regular
	BowStrings	0	116	49	Regular
	SlowStrings	0	113	50	Regular
	TremoloStrings	0	112	45	Regular
	Marcato	0	115	50	Regular
	Pizzicato	0	112	46	Regular
	SynthStrings	0	112	51	Regular
	SoloViolin	0	112	41	Regular
	Viola	0	112	42	Regular
	Cello	0	112	43	Regular
	Contrabass	0	112	44	Regular
	Harp	0	112	47	Regular
	Hackbrett	0	113	47	Regular
	Fiddle	0	112	111	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
	Guitar & Bass	DynamicNylon	0	116	25
DynamicSteel		0	116	26	Live!
12StringGtr		0	113	26	Live!
SlideSteel		0	118	26	Live!
Mandolin		0	114	26	Sweet!
JazzGuitar		0	115	27	Cool!
ElectricGtr		0	114	29	Cool!
VintageLead		0	125	28	Cool!
SlideClean		0	117	29	Cool!
PowerLead		0	115	31	Cool!

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Guitar & Bass	ClassicalGtr	0	115	25	Regular
	SteelGuitar	0	117	26	Live!
	CleanGuitar	0	112	28	Cool!
	BluesGuitar	0	117	30	Cool!
	FunkGuitar	0	116	29	Cool!
	AlohaGuitar	0	118	27	Regular
	PedalSteel	0	115	28	Regular
	CrunchGuitar	0	113	31	Regular
	60sClean	0	117	28	Regular
	VintageAmp	0	115	30	Regular
	HeavyStack	0	114	31	Regular
	VintageOpen	0	123	28	Regular
	VintageStrum	0	126	28	Regular
	SolidGuitar	0	118	28	Regular
	CampfireGtr	0	115	26	Regular
	Electric12Str	0	119	28	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
	SubBass	0	114	40	Regular
	HardBass	0	114	39	Regular
	ResoBass	0	112	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
	DrySynthBass	0	116	40	Regular
	80sSynthBass	0	115	40	Regular
	HiQBass	0	113	39	Regular
FunkBass	0	112	38	Regular	
MellowFinger	0	112	34	Regular	
ClickBass	0	115	39	Regular	
SteelGuitar	8	0	2	MegaVoice	
12StringGtr	8	1	3	MegaVoice	
HiStringGtr	8	0	3	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	TenorSax	0	117	67	Sweet!
	AltoSax	0	114	66	Sweet!
	SopranoSax	0	113	65	Sweet!
	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
	WoodwindsEns	0	113	67	Regular
Flute & Woodwind	Flute	0	114	74	Sweet!
	Clarinet	0	114	72	Sweet!
	PanFlute	0	113	76	Sweet!
	EnglishHorn	0	112	70	Regular
	Bassoon	0	112	71	Regular
	ClassicalFlute	0	115	74	Sweet!
	Piccolo	0	112	73	Regular
	Whistle	0	112	79	Regular
	Clarinet	0	112	72	Regular
	Oboe	0	112	69	Regular
	Flute	0	112	74	Regular
	PanFlute	0	113	74	Regular
	Shakuhachi	0	112	78	Regular
	EthnicFlute	0	112	76	Regular
	Bagpipe	0	112	110	Regular
	Recorder	0	112	75	Regular
	Ocarina	0	112	80	Regular
	Organ	Organ	0	118	19
JazzOrgan		0	117	17	Cool!
RotorOrgan		0	117	19	Cool!
FullRocker		0	115	19	Cool!
StadiumOrgan		0	118	17	Regular
RotaryDrive		0	116	19	Regular
RockOrgan1		0	112	19	Regular
DanceOrgan		0	113	18	Regular
GospelOrgan		0	119	17	Regular
JazzOrgan1		0	112	17	Regular
PurpleOrgan		0	114	19	Regular
ElectricOrgan		0	118	18	Regular
DrawbarOrgan		0	115	17	Regular
JazzOrgan2		0	113	17	Regular
RockOrgan2		0	113	19	Regular
ClickOrgan		0	112	18	Regular
MellowDraw		0	115	18	Regular
BrightDraw		0	116	17	Regular
60sOrgan		0	116	18	Regular
JazzOrgan3		0	120	17	Regular
Tibia 16&4		0	114	17	Regular
Tibia Full		0	114	18	Regular
ChapelOrgan1		0	113	20	Regular
ChapelOrgan2		0	114	20	Regular
ChapelOrgan3		0	115	20	Regular
PipeOrgan		0	112	20	Regular
ReedOrgan		0	112	21	Regular
Trumpet		Trumpet	0	115	57
	Trombone	0	117	58	Sweet!
	MutedTrumpet	0	112	60	Regular
	FlugelHorn	0	113	57	Regular
	SoloTrumpet	0	112	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
	Brass	HyperBrass	0	118	63
PopBrass		0	117	63	Live!
OctaveBrass		0	116	63	Live!
FrenchHorns		0	112	61	Live!
BrassCombo		0	115	67	Regular
BrassSection		0	112	62	Regular
Sforzando		0	125	62	Regular

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Brass	BigBrass	0	121	62	Regular	
	BallroomBrass	0	113	60	Regular	
	BrightBrass	0	120	62	Regular	
	MellowBrass	0	116	62	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	
	AnalogBrass	0	112	64	Regular	
	TbnSection	0	113	58	Regular	
	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	
	Accordion & Harmonica	Musette	0	112	22	Regular
		TuttiAccordion	0	113	22	Regular
		SmallAccordion	0	115	22	Regular
		BallroomAcc	0	112	24	Regular
Steirisch		0	117	22	Regular	
ModernHarp		0	113	23	Regular	
Accordion		0	116	22	Regular	
SoftAccordion		0	114	22	Regular	
Bandoneon		0	113	24	Regular	
BluesHarp		0	114	23	Regular	
Choir&Synth	AirChoir	0	112	55	Regular	
	GothicVox	0	113	54	Regular	
	Choir	0	112	53	Regular	
	Voices	0	113	55	Regular	
	VoxHumana	0	112	54	Regular	
	SweetHeaven	0	118	89	Regular	
	DreamHeaven	0	121	89	Regular	
	Insomnia	0	113	95	Regular	
	NeoWarmPad	0	115	90	Regular	
	CyberPad	0	113	100	Regular	
	Wave2001	0	112	96	Regular	
	Atmosphere	0	112	100	Regular	
	XenonPad	0	112	92	Regular	
	Equinox	0	112	95	Regular	
	GlassPad	0	114	94	Regular	
	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	
	Oxygen	0	122	82	Regular	
	Matrix	0	123	82	Regular	
	WireLead	0	120	82	Regular	
	HipLead	0	113	81	Regular	
	HopLead	0	117	81	Regular	
	FireWire	0	116	82	Regular	
	Analogon	0	115	82	Regular	
Blaster	0	114	82	Regular		
SFX Kit1	126	0	1	SFX Kit		
SFX Kit2	126	0	2	SFX Kit		
SawLead	0	112	82	Regular		
SquareLead	0	112	81	Regular		

Voice List / Voice-Liste / Liste des voix

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Choir&Synth	Skyline	0	115	85	Regular
	TinyLead	0	118	81	Regular
	FunkyLead	0	121	82	Regular
	Paraglide	0	114	85	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	
Organ Flutes	JazzDraw!	0	126	17	Organ Flutes
	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
Oriental	Oud	0	113	106	Regular
	Nay 1	0	114	78	Regular
	Kawala	0	113	78	Regular
	Kanoun	0	113	108	Regular
	Saz	0	121	26	Regular
	Oud Tremolo	0	115	106	Regular
	Surnay	0	114	112	Regular
	Bouzouki	0	123	26	Regular
	Santoor	0	113	16	Regular
	Rababa	0	115	41	Regular
	Bouzouk	0	122	26	Regular
	Nay 2	0	115	78	Regular
	Nay Takasim	0	116	78	Regular
	Kanoun Oct.	0	114	108	Regular
	Baglamas	0	116	106	Regular
	Awtar 1	0	117	106	Regular
	Sorna 1	0	122	112	Regular
	Tar	0	114	106	Regular
	Santuri	0	114	16	Regular
	Kamanche	0	114	41	Regular
	Awtar 2	0	118	106	Regular
	Sorna 2	0	113	112	Regular
	Gerba	0	117	112	Regular
	Gerba Chorus	0	121	112	Regular
	Dosaleh	0	112	112	Regular
	Mijwez	0	115	112	Regular
	Mizmar	0	116	112	Regular
	Mizmar Oct.	0	119	112	Regular
	Al Badou	0	120	112	Regular
	Argoul	0	118	112	Regular
	Solo 1	0	111	81	Regular
	Solo 2	0	110	81	Regular
	Solo 3	0	109	81	Regular
	Solo 4	0	108	81	Regular
	Solo 5	0	107	81	Regular
	Accordion OR	0	124	22	Regular
	Watariyat 1	0	125	49	Regular
	Watariyat 2	0	126	49	Regular
	Watariyat 3	0	127	49	Regular
	Pizzicato Oct.	0	114	46	Regular
	Brass 1	0	124	63	Regular
	Brass 2	0	122	63	Regular
	Brass 3	0	123	63	Regular

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Perc & Drum	ArabicKit 1	126	0	37	SFX Kit
	KhaligiKit	126	0	38	SFX Kit
	IranianKit	126	0	39	SFX Kit
	ArabicMixKit	126	0	65	SFX Kit
	KhaligiMixKit	126	0	66	SFX Kit
	IranianMixKit	126	0	67	SFX Kit
	Vibraphone	0	112	12	Regular
	JazzVibes	0	113	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
	Timpani	0	112	48	Regular
	StandardKit1	127	0	1	Drums
	StandardKit2	127	0	2	Drums
	JazzKit	127	0	33	Drums
	BrushKit	127	0	41	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	Drums
	CubanKit	126	0	41	SFX Kit
	PopLatinKit	126	0	44	SFX Kit
	ArabicKit2	126	0	36	SFX Kit

GM & XG

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	
	Organ	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	
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	Regular
		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	

Voice List / Voice-Liste / Liste des voix

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Bass	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	
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
	Ensemble	Strings1	0	0	49
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

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Ensemble	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
	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	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth.Lead	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	
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

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth.Effect	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
	HollwRelease	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
	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

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Percussive	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	

GM2

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		
	EPPHase	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		
ChrchrOrgOctM	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		

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Guitar	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
	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
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

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
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	
	DoublSawLead	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	
	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	

Voice List / Voice-Liste / Liste des voix

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Percussive	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
	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

MSB (0-127)	8			8			8			
LSB (0-127)	0			0			1			
PRG (0-127)	1			2			2			
PRG (1-128)	2			3			3			
Voice Name	SteelGuitar			HiStringGtr			12StringGtr			
Key Range	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
	Harmonics									
120	121 120						Hard			
	Slide						116 115			
110				Hard				Hard		
	106 105									
100	Hammer									
	91						Medium			
90	90			90 89				90 89		
	Mute									
80	76 75									
	Dead						72 71			
70		Strum Noise	Fret Noise		Strum Noise	Fret Noise			Strum Noise	Fret Noise
	61 60									
60	Open Hard									
	41 40			Soft				Soft		
40										
	Open Medium						Soft			
30										
	21 20									
20	Open Soft									
10										
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

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

 : No Sound

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		
	121			121			121			121		
120	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

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

Panel Drum Kit/XG Drum Kit

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

Same as Standard Kit 1 No Sound

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

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

*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.

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

Bank Select MSB (0-127)			126	126	126	126	126	126
Bank Select LSB (0-127)			0	0	0	0	0	0
Program Change (0-127)			0	1	35	36	37	38
Program Change (1-128)			1	2	36	37	38	39
MIDI		Keyboard	SFX Kit 1*	SFX Kit 2*	Arabic Kit 2	Arabic Kit 1	Khaligi Kit	Iranian Kit
Note#	Note	Note						
13	C#-1	C#0				Zarb Back mf	Khaligi Bongo Low Dom	
14	D-1	D0				Zarb Tom f	Khaligi Bongo Low Tak	
15	D#-1	D#0				Zarb Eshareh	Khaligi Bongo High Sak	
16	E-1	E0				Zarb Whipping	Khaligi Bongo High Dom	
17	F-1	F0				Tombak Tom f	Tabel Lewa High Sak	
18	F#-1	F#0				Neghareh Tom f	Khaligi Bongo Snap	
19	G-1	G0				Tombak Back f	Tabel Lewa High Dom	
20	G#-1	G#0				Neghareh Back f	Lewa Cymbal 2	
21	A-1	A0				Tombak Snap f	Tabel Lewa Big Dom	
22	A#-1	A#0				Neghareh Pelang f	Lewa Cymbal 1	
23	B-1	B0				Tombak Trill	Tabel Lewa Big Tak	
24	C0	C1			Nakarazan Dom	Khaligi Clap 1	Tablah Big Dom 1	
25	C#0	C#1			Cabasa	Zalgouta Open	Tablah Big Tak 1	
26	D0	D1			Nakarazan Edge	Khaligi Clap 2	Tablah Big Sak 1	
27	D#0	D#1			Hager Dom	Zalgouta Close	Tablah Big Dom 2	
28	E0	E1			Hager Edge	Arabic Hand Clap	Tablah Big Tak 2	
29	F0	F1			Bongo H	Tabel Tak 1	Tablah Big Sak 2	
30	F#0	F#1			Bongo L	Sagat 1	Tablah Small Snap 2	
31	G0	G1			Conga H Mute	Tabel Dom	Tablah Small Dom	
32	G#0	G#1			Conga H Open	Sagat 2	Tablah Small Snap	
33	A0	A1			Conga L	Tabel Tak 2	Tablah Small Tik	
34	A#0	A#1			Zagrouda H	Sagat 3	Tablah Small Sak	
35	B0	B1			Zagrouda L	Riq Tik 3	Manjoor	
36	C1	C2	Cutting Noise	Phone Call	Kick Soft	Riq Tik 2	Twaisat 1	Daf Tom
37	C#1	C#2	Cutting Noise 2	Door Squeak		Riq Tik Hard 1	Twaisat 4 Open	Daf Chain Up
38	D1	D2		Door Slam	Snare Soft	Riq Tik 1	Twaisat 5 Open	Daf Back
39	D#1	D#2	String Slap	Scratch Cut	Arabic Hand Clap	Riq Tik Hard 2	Twaisat 2	Daf Chain Down
40	E1	E2		Scratch H 3	Snare	Riq Tik Hard 3	Tar Low Dom 1	Daf Chap
41	F1	F2		Wind Chime		Riq Tish	Tar Low Sak 1	Daf Full Roll
42	F#1	F#2		Telephone Ring 2		Riq Snouj 2	Tar Segal Dom	Daf Chain Roll
43	G1	G2				Riq Roll	Tar Low Dom 2	Daf Whipping Roll
44	G#1	G#2				Riq Snouj	Tar Segal Tak	Clap
45	A1	A2				Riq Sak	Tar Low Dom 2	Finger Snap 1
46	A#1	A#2				Riq Snouj 3	Tar Segal Sak	Neghareh Roll
47	B1	B2				Riq Snouj 4	Arabic Hand Clap	Neghareh Tom
48	C2	C3				Riq Tak 1	Tar High Dom 1	Neghareh Snap (Pelang)
49	C#2	C#3				Riq Brass 1	Tar High Sak 1	Neghareh Chap
50	D2	D3				Riq Tak 2	Tar High Dom 2	Neghareh Eshareh
51	D#2	D#3				Riq Brass 2	Tar High Sak 2	Neghareh Back
52	E2	E3	Flute Key Click	Car Engine Ignition	Crash Cymbal 2	Riq Dom	Khaligi Clap 1	Kurdish Dohol Low
53	F2	F3		Car Tires Squeal	Duhulla Dom	Katem Tak Doff	Khaligi Clap 2	Kurdish Dohol High
54	F#2	F#3		Car Passing		Katem Dom	Merwas Solo 1 Dom	Kurdish Dohol Low Buzz
55	G2	G3		Car Crash	Duhulla Tak	Katem Sak 1	Merwas Solo 2 Dom	Lurish Dohol Low
56	G#2	G#3		Siren		Katem Tak 1	Merwas Solo 1 Sak	Lurish Dohol Low Buzz
57	A2	A3		Train	Duhulla Sak	Katem Sak 2	Merwas Solo 2 Sak	Lurish Dohol High
58	A#2	A#3		Jet Plane	Claves	Katem Tak 2	Merwas Solo 1 Tak	Tombak Full Roll
59	B2	B3		Starship	Doff Dom	Daholla Sak 2	Merwas Solo 2 Tak	Tombak Timpani Roll
60	C3	C4		Burst	Katem Dom	Daholla Sak 1	Tar Barashim Group Dom	Tombak Tom
61	C#3	C#4		Roller Coaster	Katem Tak	Daholla Tak 1	Tar Barashim Group Sak	Tombak Eshareh Right
62	D3	D4		Submarine	Katem Sak	Daholla Dom	Tar Barashim Group Tak	Tombak Back
63	D#3	D#4			Katem Tak	Daholla Tak 2	Tar Barashim Solo Sak	Tombak Eshareh Left
64	E3	E4			Doff Tak	Tablah Prok	Tar Barashim Solo Dom	Tombak Snap
65	F3	F4			Tabla Dom	Tablah Dom 2	Tar Barashim Solo Tak	Zarb Tom
66	F#3	F#4			Tabla Tak1	Tablah Roll of Edge	Yahla Dom 1	Zarb Whipping
67	G3	G4			Tabla Tik	Tablah Tak Finger 4	Yahla Tak 1	Zarb Back
68	G#3	G#4	Shower	Laugh	Tabla Tak2	Tablah Tak Trill 1	Yahla Dom 2	Zarb Eshareh
69	A3	A4	Thunder	Scream	Tabla Sak	Tablah Tak Finger 3	Yahla Tak 2	Zarb Chap
70	A#3	A#4	Wind	Punch	Tabla Roll of Edge	Tablah Tak Trill 2	Nagara High	Zarb Full Roll
71	B3	B4	Stream	Heart Beat	Tabla Flam	Tablah Tak Finger 2	Nagara Low	Zarb Snap
72	C4	C5	Bubble	Foot Steps	Sagat 1	Tablah Tak Finger 1	Zeer Low Dom 1	Zarb Whipping Roll
73	C#4	C#5	Feed		Tabel Dom	Tablah Tik 2	Zeer Low Roll	Dayereh Roll
74	D4	D5			Sagat 3	Tablah Tik 4	Zeer Low Dom 2	Dayereh Tom
75	D#4	D#5			Tabel Tak	Tablah Tik 3	Zeer High Roll	Dayereh Eshareh
76	E4	E5			Sagat 2	Tablah Tik 1	Zeer Low Dom 2	Dayereh Back
77	F4	F5			Rik Dom	Tablah Tak 3	Zeer High Dom 1	Dayereh Snap
78	F#4	F#5			Rik Tak 2	Tablah Tak 1	Tabel Low Dom	Dayereh Edge Roll
79	G4	G5			Rik Finger 1	Tablah Tak 4	Zeer High Dom 2	
80	G#4	G#5			Rik Tak 1	Tablah Tak 2	Tabel Low Tak	
81	A4	A5			Rik Finger 2	Tablah Sak 2	Tabel High Dom	
82	A#4	A#5			Rik Brass Tremolo	Tablah Tremolo	Tabel High Sak	
83	B4	B5			Rik Sak	Tablah Sak 1	Tabel High Tak	
84	C5	C6	Dog	Machine Gun	Rik Tik	Tablah Dom 1	Tabel Low Sak	
85	C#5	C#6	Horse	Laser Gun			Riq Tish	
86	D5	D6	Bird Tweet 2	Explosion			Tabel Mid Dom	
87	D#5	D#6		Firework			Riq Snouj 1	
88	E5	E6					Tabel High Dom	
89	F5	F6					Tabel Low Dom	
90	F#5	F#6	Ghost					
91	G5	G6	Maou					

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

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

Bank Select MSB (0-127)			126	126	126	126	126
Bank Select LSB (0-127)			0	0	0	0	0
Program Change (0-127)			40	43	64	65	66
Program Change (1-128)			41	44	65	66	67
MIDI	Keyboard		Cuban Kit	PopLatin Kit	Arabic Mix Kit	Khaligi Mix Kit	Iranian Mix Kit
Note#	Note	Note					
13	C#-1	C#0			Conga Analog H	Zalgouta Open	Bongo H
14	D-1	D0			Conga Analog M	Bell Tree	Bongo L
15	D#-1	D#0			Conga Analog L	Zalgouta Close	Conga H Open
16	E-1	E0			Vibraslap	Timbale H	Conga L
17	F-1	F0			Kick Techno L	Timbale L	Floor Tom L
18	F#-1	F#0		Hand Clap	Side Stick Arabic Mix	Conga H Mute	Hi-Hat Closed
19	G-1	G0			Snare Techno	Bongo H	Floor Tom H
20	G#-1	G#0			Guiro Long	Conga H Open	Hi-Hat Pedal
21	A-1	A0			Kick Techno Q	Bongo L	Low Tom
22	A#-1	A#0	Conga H Tip	Conga H Tip	Open Rim Shot	Conga L	Hi-Hat Open
23	B-1	B0	Conga H Heel	Conga H Heel	Funk Snare 2	Shaker	Ride Cymbal 1
24	C0	C1	Conga H Open	Conga H Open	Kick Arabic Mix	Tablah Dom 1	Kick
25	C#0	C#1	Conga H Mute	Conga H Mute	Funk Snare 1	Tablah Tak Finger 3	Side Stick
26	D0	D1	Conga H Slap Open	Conga H Slap Open	Snare Arabic Mix	Tablah Tik 3	Snare
27	D#0	D#1	Conga H Slap	Conga H Slap	Hand Clap	Tablah Tak Finger 4	Crash Cymbal 1
28	E0	E1	Conga H Slap Mute	Conga H Slap Mute	Snare	Tablah Tik 4	Snare Tight
29	F0	F1	Conga L Tip	Conga L Tip	Tom Electro 1	Tablah Tik 1	Khaligi Tablah Big Dom 1
30	F#0	F#1	Conga L Heel	Conga L Heel	Hi-Hat Closed Arabic Mix	Tablah Tremolo	Khaligi Tablah Big Sak 1
31	G0	G1	Conga L Open	Conga L Open	Tom Electro 2	Cowbell	Khaligi Tablah Big Tak 1
32	G#0	G#1	Conga L Mute	Conga L Mute	Hi-Hat Half Arabic Mix	Hand Clap	Arabic Doholla Sak 1
33	A0	A1	Conga L Slap Open	Conga L Slap Open	Tom Electro 3	Tambourine	Arabic Doholla Tom
34	A#0	A#1	Conga L Slap	Conga L Slap	Hi-Hat Open Arabic Mix	Snare Tight	Arabic Doholla Tak 2
35	B0	B1	Conga L Slide	Conga L Slide	Tom Electro 4	Kick Analog Short	Arabic Doholla Tak 1
36	C1	C2	Bongo H Open 1 Finger	Bongo H Open 1 finger	Tom Electro 5	Kick	Daf Tom
37	C#1	C#2	Bongo H Open 3 Finger	Bongo H Open 3 finger	Crash Cymbal 1	Crash Cymbal 1	Daf Chain Up
38	D1	D2	Bongo H Rim	Bongo H Rim	Tom Electro 6	Snare	Daf Back
39	D#1	D#2	Bongo H Tip	Bongo H Tip	Hi-Hat Open 3	Crash Cymbal 2	Daf Chain Down
40	E1	E2	Bongo H Heel	Bongo H Heel	Reverse Cymbal	Side Stick	Daf Chap
41	F1	F2	Bongo H Slap	Bongo H Slap	Timbale L	Floor Tom L	Daf Full Roll
42	F#1	F#2	Bongo L Open 1 Finger	Bongo L Open 1 finger	Conga H Open	Hi-Hat Closed	Daf Chain Roll
43	G1	G2	Bongo L Open 3 Finger	Bongo L Open 3 finger	Timbale H	Floor Tom H	Daf Whipping Roll
44	G#1	G#2	Bongo L Rim	Bongo L Rim	Conga H Mute	Hi-Hat Pedal	Clap
45	A1	A2	Bongo L Tip	Bongo L Tip	Tambourine	Low Tom	Finger Snap 1
46	A#1	A#2	Bongo L Heel	Bongo L Heel	Conga L	Hi-Hat Open	Neghreh Roll
47	B1	B2	Bongo L Slap	Bongo L Slap	Cowbell	Mid Tom L	Neghreh Tom
48	C2	C3	Timbale L Open	Timbale L Open	Claves	Mid Tom H	Neghreh Snap (Pelang)
49	C#2	C#3			Bongo H	Finger Snap 1	Neghreh Chap
50	D2	D3			Wood Block H	Chinese Cymbal	Neghreh Esharah
51	D#2	D#3			Bongo L	Finger Snap 2	Neghreh Back
52	E2	E3			Wood Block L	Riq Brass 2	Kurdish Dohol Low
53	F2	F3	Paila L	Paila L	Kurdish Dohol Low f	Riq Brass 1	Kurdish Dohol High
54	F#2	F#3	Timbale H Open	Timbale H Open	Cabasa	Riq Tish	Kurdish Dohol Low Buzz
55	G2	G3			Kurdish Dohol High f	Riq Snouj 1	Lurish Dohol Low
56	G#2	G#3			Shaker	Riq Roll	Lurish Dohol Low Buzz
57	A2	A3			Snap 1	Riq Snouj 2	Lurish Dohol High
58	A#2	A#3			Maracas	Riq Sak 1	Tombak Full Roll
59	B2	B3	Paila H	Paila H	Snap 2	Riq Dom	Tombak Timpani Roll
60	C3	C4	Cowbell Top	Cowbell Top	Khaligi Twaisat 3	Riq Snouj 3	Tombak Tom
61	C#3	C#4		Cowbell 1	Khaligi Twaisat 1	Tombak Back	Tombak Esharah Right
62	D3	D4		Cowbell 2	Khaligi Twaisat 2	Tombak Tom	Tombak Back
63	D#3	D#4		Cowbell 3	Khaligi Twaisat 5 Open	Tombak Snap	Tombak Esharah Left
64	E3	E4	Guiro Short	Guiro Short	Khaligi Twaisat 4 Open	Tombak Esharah Right	Tombak Snap
65	F3	F4	Guiro Long	Guiro Long	Khaligi Tablah Small Dom	Claves	Zarb Tom
66	F#3	F#4		Metal Guiro Short	Khaligi Tar Barashim Group Dom	Daf Chap	Zarb Whipping
67	G3	G4		Metal Guiro Long	Khaligi Tablah Small Snap	Daf Tom	Zarb Back
68	G#3	G#4	Tambourine	Tambourine	Khaligi Tar Barashim Group Sak	Daf Full Roll	Zarb Esharah
69	A3	A4		Tambourim Open	Khaligi Tablah Small Sak	Triangle Mute	Zarb Chap
70	A#3	A#4		Tambourim Mute	Khaligi Tar Barashim Group Tak	Daf Back	Zarb Full Roll
71	B3	B4		Tambourim Tip	Khaligi Tablah Small Tik	Triangle Open	Zarb Snap
72	C4	C5	Maracas	Maracas	Khaligi Tablah Big Dom 1	Neghreh Tom	Zarb Whipping Roll
73	C#4	C#5	Shaker	Shaker	Khaligi Tar Segal Dom	Neghreh Back	Dayereh Roll
74	D4	D5	Cabasa	Cabasa	Khaligi Tablah Big Tak 1	Neghreh Roll	Dayereh Tom
75	D#4	D#5		Cuica Mute	Khaligi Tar Segal Tak	Neghreh Snap (Pelang)	Dayereh Esharah
76	E4	E5		Cuica Open	Khaligi Tablah Big Sak 1	Wood Block H	Dayereh Back
77	F4	F5		Cowbell High 1	Tablah Dom 1	Wood Block L	Dayereh Snap
78	F#4	F#5		Cowbell High 2	Tablah Tak 1	Zarb Back	Dayereh Edge Roll
79	G4	G5		Shekere	Tablah Tremolo	Zarb Tom	Twaisat 4 Open
80	G#4	G#5		Shekere Tone	Tablah Tak 2	Zarb Esharah	Twaisat 2
81	A4	A5		Triangle Mute	Tablah Tik 1	Zarb Whipping	Twaisat 5 Open
82	A#4	A#5		Triangle Open	Tablah Sak 1	Zarb Chap	Twaisat 1
83	B4	B5			Tablah Tik 3	Hi-Hat Closed Analog	Timbale H
84	C5	C6		Wind Chime	Tablah Tik 2	Hi-Hat Open Analog	Timbale L
85	C#5	C#6				Tar Barashim Solo Sak	
86	D5	D6				Tar High Sak 1	
87	D#5	D#6				Khishiba Dom 1	
88	E5	E6				Khishiba Dom 2	
89	F5	F6				Khishiba Sak 1	
90	F#5	F#6				Khishiba Dom 3	
91	G5	G6				Khishiba Sak 2	

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

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

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

Style List / Liste der Styles / Liste des styles

Category	Style Name	
Pop&Rock	FunkPopRock	
	AcousticRock	
	Cool8Beat	
	Straight8Pop	
	VintageGtrPop	
	ChartGuitarPop	
	Jammin'GtrPop	
	RockGtrBallad	
	BritPopSwing	
	70's8Beat	
	BubblegumPop	
	60'sGuitarPop	
	90'sGuitarPop	
	60'sRock1	
	60'sRock2	
	RockShuffle	
	HardRock	
	PowerRock	
	8BeatModern	
	KoolShuffle	
	JazzPop	
Unplugged		
Ballad	8BeatBallad	
	PopGtrBallad	
	EasyBallad	
	PowerBallad	
	16BeatBallad	
	NewR&BBallad	
	UnpluggedChart	
	EPBallad	
	OrganBallad	
	6-8SlowRock	
	6-8AcousticPop	
	6-8Modern	
	6-8Orchestral	
	12-8Ballad	
	Chillout	
	70'sPopBallad	
	PianoBallad	
LoveSong		
Dance	Ibiza	
	RetroPop	
	70'sDisco	
	DiscoPhilly	
	DiscoHouse	
	DreamDance	
	FrenchHouse	
	House	
	NewR&B	
	ClassicHipHop	
	NewHipHop	
	ChartPop	
	EuroHipHop	
	HipHopGroove	
	Garage	
	TechnoParty	
	DiscoChocolate	
	LatinDJ's	
	80'sDisco	
	Swing&Jazz	OrchBigBand1
		OrchBigBand2
		AcousticJazz
		ModernJazzBld
MORSwing		
Dixieland		
Ragtime		
BigBandFast		
OrchestraSwing1		
OrchestraSwing2		
JazzWaltzFast		

Category	Style Name	
Swing&Jazz	MidnightSwing	
	JazzClub	
	Five-Four	
	OrganGroove	
	JumpJive	
	BigBandShuffle	
	Charleston	
	Latin&Ballroom	BrazilianSamba
		Bomba
		Salsa
		Gujiira
		Bachata
		CubanSon
		Merengue
		LatinDisco
		RockChaCha
		OrchestralBossa
FastBossa		
PopBossa		
Beguine		
Calypso		
Danzon		
HappyReggae		
PopMambo		
PopSalsa		
RumbalIsland		
RumbaFlamenco		
VienneseWaltz		
EnglishWaltz		
Slowfox		
Foxtrot		
Quickstep		
Tango		
Pasodoble		
Samba		
ChaChaCha		
Rumba		
Jive		
Swingfox		
OrganSwing		
OrganSamba		
OrganQuickstep		
9-8Waltz		
Entertainment	Sci-filMarch	
	SecretService	
	70'sTVTheme	
	WildWest	
	BaroqueAir	
	OrchestralBolero	
	MovieBallad	
	MovieDisco	
	SaturdayNight	
	Moonlight6-8	
	ClassicPianoBld	
	OrchestralMarch	
	ChristmasSwing	
	ChristmasWaltz	
	Showtune	
	TapDanceSwing	
	70'sFrenchHit	
	DiscoFox	
	AlpBallad	
	ScandShuffle	
	ScandSlowRock	
	Schlager6-8	
	SchlagerPolka	
SchlagerSamba		
SchlagerShuffle		
SchlagerPop		
SchlagerBeat		

Category	Style Name	
Entertainment	PolkaPop	
	TraditionalWaltz	
	Tijuana	
	PubPiano	
	8BeatAdria	
	DiscoHands	
	Carnival	
	Arabic&Maghrebi	Saeidy1
		Saeidy2
		Baladi
Katakoufti		
Maksoum		
Karachi		
Laff1		
Ayoub		
WehdaSaghira		
MaksoumSarih		
ArabicEuro1		
ArabicEuro2		
Saeidy3		
Saeidy4		
Ibrahimi		
Zaffah		
Hajaa		
6-8Soudasi		
WehdaKabira		
Wehda		
SaeidyDance		
KarachiDance		
LaffDance1		
LaffDance2		
Laff2		
Laff3		
Rumba		
Khaligi		
Jerk		
MasmoudiKabir		
SaeidyMix		
BaladiMix		
NawaryMix		
MaksoumMix		
ZaffahMix		
IbrahimiMix		
Fox		
Valse		
10-8Samai		
FazzaniTunisi		
BounawaraTunisi		
BtaihiTunisi		
AchaabiMaghrebi		
HadariMaghrebi		
AllaouiMaghrebi		
Khaligi	Emarati1	
	KhaligiRhumba1	
	Seeroos1	
	Khebaiti1	
	KhaligiRhumba2	
	Emarati2	
	KhaligiEuro1	
	Wadea1	
	Khebaiti2	
	Shakshaka1	
	Bastah	
	Kuwaiti	
	Wadea2	
	Suwahli	
	Sout6-4	
Iraqi		
Seeroos2		
KhaligiEuro2		

Category	Style Name
Khaligi	Muruba
	Sout4-4
	Ashori
	SamriMix
	Methoalath
	Lehwa
	Gorgina
	Dazza
	Samri
	Khammari
	Tamburah
	AlBudoor
	KhaligiRhumba3
	Sharh
	Shakshaka2
Adani	
Iranian	Raghs1
	Raghs2
	Raghs3
	IranianElec
	6-8Latin
	Bandari
	IranianDance1
	IranianDance2
	IranianBeat1
	RaghsModern1
	6-8Dance
	IranianBeat2
	RaghsModern2
	6-8Modern
	IranianClub1
	6-8Old
	ModernBandari1
	ModernBandari2
	IranianClub2
	Asouri
	6-8Orch
	Tehrani6-8Slow
	TraditionalOrch
	Khorasani
	AzariClassic
	AzariDance
	Kurdish
	Kermanshahi
	Avaaz
	Gilaki
	Farangi
	ModernTehrani
	Lori
Reng	
Lezgi	
Tehrani	
Afghani	
Turkish&Greek	TurkishEuro1
	TurkishEuro2
	2-4OyunHavasi
	ArapOryantal
	Vahde1
	Ciftetelli
	5-8OyunHavasi
	Azeri-Kafkas
	7-8OyunHavasi
	Sebari
	9-8Standart
	Halay
	Vahde2
	Misket
	SekPop
	9-8Modern
	Vals

Category	Style Name
Turkish&Greek	TurkishPop
	Zeibekikos
	Tsifteteli
	Kalamatianos
	Syrtorumba
	Tsamikos
	Karsilamas
	Hasapiko
	5-8Greek
	Hasaposerviko
World	Kamilieriko
	7-8Greek
	Bagio
	SpanishPaso
	PopFlamenco
	FrenchMusette
	IrishDance
	Sirtaki
	OrientalPop
	ItalianWaltz
	FrenchWaltz
	ScandWaltz
	Reel
	Jig
	Tarantella
	OberPolka
	OberWaltzer
	Hawaiian
	USMarch
6-8March	
GermanMarch	
Enka	
PopEnka	
FolkRock	

Multi Pad Bank List /Multi-Pad-Bank-Liste /Liste des banques multi-pads

Bank Name	Bank Name
E.Gtr16BtCut1	ArabicPerc1
E.Gtr16BtCut2	ArabicPerc2
FunkyGtr16Bt1	Shaker&Tamb
FunkyGtr16Bt2	TimbalesPaila
E.Gtr16BtShfl1	EthnicPerc
E.Gtr16BtShfl2	BigBells
E.Gtr16BtPick	MagicBells
SteelTriplet1	DrumEndings
SteelTriplet2	TomFlam
E.Gtr8BtShfl	CrashKit
SteelGuitar6-8	DrumKit1
E.Guitar6-8	DrumKit2
SteelGtrPick1	DanceKit
SteelGtrPick2	LatinKit1
SteelGtrPick3	LatinKit2
SteelGtrPick4	Conga&Bongo2
NylonBossa1	BreakBeatz
NylonBossa2	DJ-BasicSet
Steel8BtStrum1	HipHop1
Steel8BtStrum2	HipHop2
SteelBsChdSlow	HeavyShuffle
SteelBsChdFast	NewR&B
E.Gtr8BtStrm1	ScratchBank
E.Gtr8BtStrm2	ArabicPerc3
E.GtrRock1	Tablah
E.GtrRock2	Riq
LatinKeys	SagatClap
StringsArpeggio	ArabicLoop1
MoodySaxes	ArabicLoop2
OrchestraHit	ArabicGuitar
Classical	KhaligiPerc1
PianoGlissando	KhaligiPerc2
PianoArp16Bt	KhaligiPerc3
PianoArp8Bt	KhaligiSagat
HeavenArpeggio	Sout
TwinkleArpeggio	Tar
Gong&Chime	Ray
TranceSeq	KhaligiLoop1
Harpeggio1	KhaligiLoop2
Harpeggio2	KhaligiLoop3
LatinPerc1	LiwaLoop
LatinPerc2	IranianPerc1
LatinPerc3	IranianPerc2
LatinPerc4	IranianLoop1
LatinPerc5	IranianLoop2
Conga&Bongo1	IranianLoop3
LatinPop	TurkishLoop1
Rumba&Soca	TurkishLoop2
SambaPerc	KanounChord
Oriental1	TurkishGuitar
Oriental2	GreekChord
Oriental3	
Oriental4	
Oriental5	
Oriental6	
Oriental7	
Oriental8	

Direct Access Chart / Tabelle Direktzugriff / Feuille d'accès direct

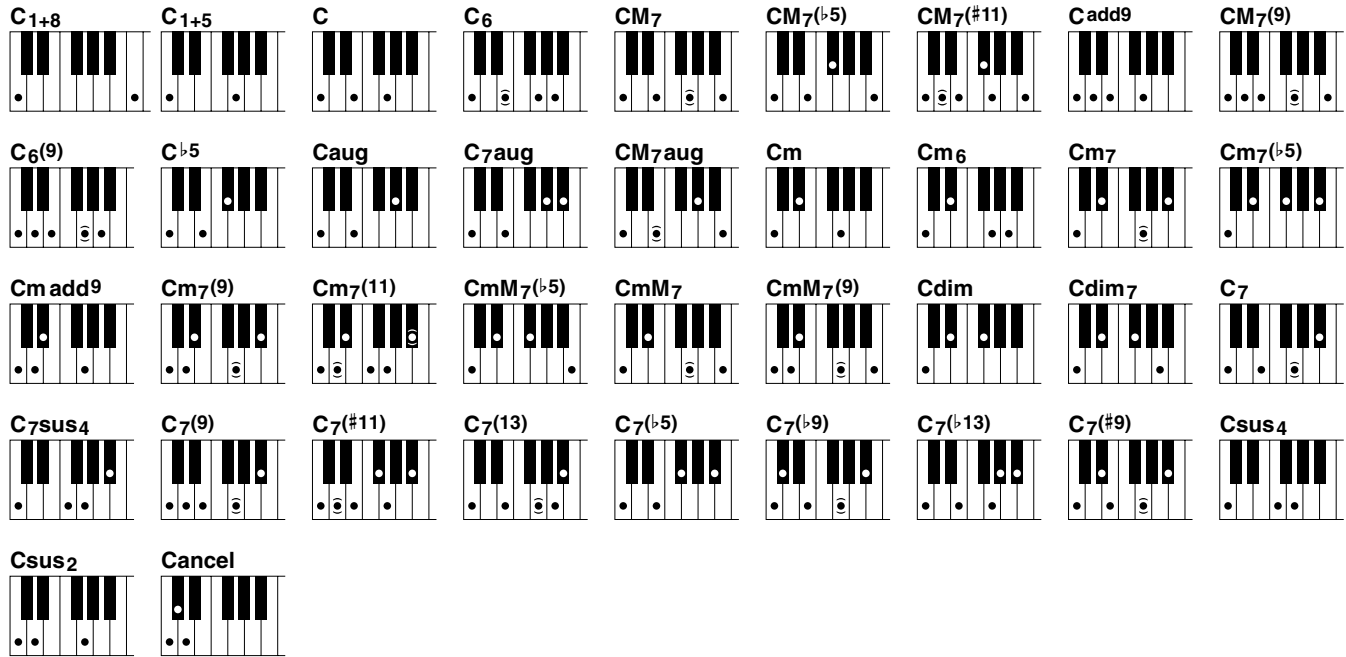
Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display			
STYLE CONTROL	[ACMP]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERING	CHORD FINGERING	—
	[AUTO FILL IN]			STYLE SETTING	
	[OTS LINK]				
	[BREAK]				
	INTRO [I]				
	INTRO [II]				
	INTRO [III]				
	MAIN VARIATION [A]				
	MAIN VARIATION [B]				
	MAIN VARIATION [C]				
	MAIN VARIATION [D]				
	ENDING/rit. [I]				
	ENDING/rit. [II]				
	ENDING/rit. [III]				
	[SYNC START]				
[SYNC STOP]	STYLE SETTING				
[START/STOP]					
STYLE	[POP & ROCK]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERING	STYLE SETTING	—
	[BALLAD]				
	[DANCE]				
	[SWING & JAZZ]				
	[LATIN & BALLROOM]				
	[ENTERTAINMENT]				
	[ARABIC & MAGHREBI]				
	[KHALIGI]				
	[IRANIAN]				
	[TURKISH & GREEK]				
	[WORLD]				
	[USER]				
	SONG				
[SCORE]					
[LYRICS]					
[TR1]					
[TR2]					
[EXTRA TR]					
[GUIDE]					
[REPEAT]					
[▶▶] (FF)					
[◀◀] (REW)					
[▶ /] (PLAY/PAUSE)					
[■] (STOP)					
[REC]					
[TAP TEMPO]		UTILITY	CONFIG 1	TAP	
TEMPO	[+] [-]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERING	STYLE SETTING	—
[METRONOME]			UTILITY	CONFIG 1	METRONOME
[FADE IN/OUT]					FADE IN/OUT
TRANSPOSE	[+] [-]	FUNCTION	CONTROLLER	KEYBOARD/PANEL	TRANSPOSE ASSIGN
UPPER OCTAVE	[+] [-]	MIXING CONSOLE	TUNE	—	—
MULTI PAD	[SELECT]	FUNCTION	DIGITAL REC MENU	MULTI PAD CREATOR	RECORD
	[STOP]				
	[1]	MULTIPAD CONTROL SELECT	MULTI PAD EDIT	—	—
	[2] [3] [4]				
[DEMO]		FUNCTION	UTILITY	OWNER	—
[FUNCTION]		FUNCTION	MIDI	PRESET	—
[MIXING CONSOLE]					
[BALANCE]		MIXING CONSOLE	VOL/VOICE	—	—
[CHANNEL ON/OFF]					
[USB]		FUNCTION	UTILITY	MEDIA	—
[SCALE TUNE]		SCALETUNE	SCALE TUNE BANK Selection Display	—	—
[DIRECT ACCESS]		—	—	—	—
TAB	[▶] [◀]	—	—	—	—
[ENTER]		—	—	—	—
[EXIT]		MAIN	—	—	—
DATA ENTRY DIAL		—	—	—	—
VOICE	PART SELECT [LEFT]	FUNCTION	REGIST SEQUENCE/FREEZE/ VOICE SET	VOICE SET	LEFT
	PART SELECT [RIGHT 1]				RIGHT 1
	PART SELECT [RIGHT 2]				RIGHT 2
	PART ON/OFF [LEFT]				LEFT
	PART ON/OFF [RIGHT 1]				RIGHT 1
	PART ON/OFF [RIGHT 2]				RIGHT 2
	[LEFT HOLD]		STYLE SETTING/SPLIT POINT/ CHORD FINGERING	SPLIT POINT	—
	[PIANO]	FUNCTION	REGIST SEQUENCE/FREEZE/ VOICE SET	VOICE SET	—
	[E.PIANO]				
	[STRINGS]				
	[GUITAR & BASS]				
	[SAXOPHONE]				
	[FLUTE & WOODWIND]				
	[ORGAN]				
	[TRUMPET]				
[BRASS]					
[ACCORDION & HARMONICA]					
[CHOIR & SYNTH.]					

Direct Access Chart / Tabelle Direktzugriff / Feuille d'accès direct

Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display			
VOICE	[ORGAN FLUTES]	FUNCTION	REGIST SEQUENCE/FREEZE/ VOICE SET	VOICE SET	—
	[ORIENTAL]				
	[PERC. & DRUM KIT]				
	[USER]				
VOICE CONTROL	[HARMONY/ECHO]	FUNCTION	HARMONY/ECHO	—	—
	[TOUCH]	MIXING CONSOLE	CONTROLLER	KEYBOARD/PANEL	INITIAL TOUCH
	[SUSTAIN]		EFFECT	—	—
	[MONO]		TUNE	—	—
	[DSP]		EFFECT	—	—
	[VARI.]		—	—	—
[MUSIC FINDER]	MUSIC FINDER	MUSIC FINDER SEARCH 1	—	—	
ONE TOUCH SETTING	[1]	FUNCTION	STYLE SETTING/SPLIT POINT/ CHORD FINGERRING	SPLIT POINT	—
	[2]				
	[3]				
	[4]				
REGISTRATION MEMORY	REGIST BANK [+]	FUNCTION	REGIST SEQUENCE/FREEZE/ VOICE SET	REGISTRATION SEQUENCE	—
	REGIST BANK [-]			FREEZE	—
	[FREEZE]			REGISTRATION SEQUENCE	—
	[MEMORY]			—	—
	[1]	REGISTRATION BANK Selection Display	REGISTRATION EDIT	—	—
	[2]				
	[3]				
	[4]				
	[5]				
	[6]				
[7]					
[8]					
SCALE SETTING	[SCALE SETTING] BUTTONS	SCALETUNE	SCALE TUNE BANK Selection Display	—	—
	SCALE MEMORY [MEMORY]	SCALETUNE	SCALE TUNE EDIT		
	SCALE MEMORY [1]				
	SCALE MEMORY [2]				
	SCALE MEMORY [3]				
	SCALE MEMORY [4]				
	SCALE MEMORY [5]				
	SCALE MEMORY [6]				
PEDAL	FOOT PEDAL 1	FUNCTION	CONTROLLER	FOOT PEDAL	—
	FOOT PEDAL 2				
MODULATION	FUNCTION	CONTROLLER	KEYBOARD/PANEL	MODULATION WHEEL	
PITCH BEND	MIXING CONSOLE	TUNE	—	—	

* 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



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 flatted 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 flatted 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 flatted 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 flatted 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

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	
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 – 4 Block

Panel Block Name	XG Block Name
DSP1	XG Variation Block
DSP2	XG Insertion1 Block
DSP3	XG Insertion2 Block
DSP4	XG Insertion3 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	
*1 WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0	
*1 TUNNEL	Simulates a cylindrical space expanding to left and right.	17	0	
*1 CANYON	A hypothetical acoustic space which extends without limit.	18	0	
*1 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		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	
*1 ER1	This effect isolates only the early reflection components of the reverb.	9	0	
*1 ER2		9	1	
*1 GATE REVERB	Simulation of gated reverb.	10	0	
*1 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	
*1 V_FLANGER		104	0	
*1 T_FLANGER		107	0	
*1 DYN FLANGER		Dynamically controlled flanger.	110	0
PHASER1		Cyclically modulates the phase to add modulation to the sound.	72	0
*1 PHASER2	72		8	

Effect Type List / Liste der Effektypen / Liste des types d'effet

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
*1 T_PHASER		108	0
*1 DYN PHASER		111	0
DIST HEAVY (Distortion Heavy)	Heavy distortion.	73	0
*1 ST DIST (Stereo Distortion)	Stereo distortion.	73	8
*1 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
*1 COMP+DIST2 (Compressor + Distortion2)		73	1
OVERDRIVE	Adds mild distortion to the sound.	74	0
*1 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)		75	17
DIST SOFT2 (Distortion Soft2)	Soft, warm distortion.	75	23
*1 ST DIST HARD (Stereo Distortion Hard)	Hard-edge stereo distortion.	75	18
*1 ST DIST SOFT (Stereo Distortion Soft)	Soft, warm soft distortion.	75	19
*1 V_DIST HARD (V Distortion Hard)	Distortion which simulates vintage tube and fuzz sounds.	98	0
*1 V_DIST SOFT (V Distortion Soft)		98	2
AMP SIM1 (Amp Simulator 1)	A simulation of a guitar amp.	75	0
*1 AMP SIM2 (Amp Simulator 2)		75	1
*1 ST AMP1 (Stereo Amp Simulator1)		75	20
*2 ST AMP2 (Stereo Amp Simulator 2)		75	21
*1 ST AMP3 (Stereo Amp Simulator 3)		75	8
*1 ST AMP4 (Stereo Amp Simulator 4)		75	24
ST AMP5 (Stereo Amp Simulator 5)		75	25
*2 ST AMP6 (Stereo Amp Simulator 6)	75	26	
*1 DST+DELAY1 (Distortion + Delay 1)	Distortion and Delay are connected in series.	95	16
*1 DST+DELAY2 (Distortion + Delay 2)		95	0
*1 OD+DELAY1 (Overdrive + Delay 1)	Overdrive and Delay are connected in series.	95	17
*1 OD+DELAY2 (Overdrive + Delay 2)		95	1
*1 CMP+DST+DLY1 (Compressor + Distortion + Delay 1)	Compressor, Distortion and Delay are connected in series.	96	16
*1 CMP+DST+DLY2 (Compressor + Distortion + Delay2)		96	0
*1 CMP+OD+DLY1 (Compressor + Overdrive + Delay 1)	Compressor, Overdrive and Delay are connected in series.	96	17
*1 CMP+OD+DLY2 (Compressor + Overdrive + Delay 2)		96	1
*1 V_DST H+DLY (V Distortion Hard + Delay)	V Distortion Hard and Delay are connected in series.	98	1
*1 V_DST S+DLY (V Distortion Soft + Delay)	V Distortion Soft and Delay are connected in series.	98	3
*1 DST+TDLY (Distortion + Tempo Delay)	Distortion and Tempo Delay are connected in series.	100	0
*1 OD+TDLY (Overdrive + Tempo Delay)	Overdrive and Tempo Delay are connected in series.	100	1
*1 CMP+DST+TDL (Compressor + Distortion + Tempo Delay)	Compressor, Distortion and Tempo Delay are connected in series.	101	0
*1 CMP+OD+TDLY 1 (Compressor + Overdrive + Tempo Delay 1)	Compressor, Overdrive and Tempo Delay are connected in series.	101	1
*1 CMP+OD+TDLY 2 (Compressor + Overdrive + Tempo Delay 2)		101	16
*1 CMP+OD+TDLY 3 (Compressor + Overdrive + Tempo Delay 3)		101	17
*1 CMP+OD+TDLY 4 (Compressor + Overdrive + Tempo Delay 4)		101	18
*1 CMP+OD+TDLY 5 (Compressor + Overdrive + Tempo Delay 5)		101	19
*1 CMP+OD+TDLY 6 (Compressor + Overdrive + Tempo Delay 6)		101	20
*1 V_DST H+TDLY (V Distortion Hard + Tempo Delay)	V Distortion Hard and Tempo Delay are connected in series.	103	0
*1 V_DST S+TDL1 (V Distortion Soft + Tempo Delay1)	V Distortion Soft and Tempo Delay are connected in series.	103	1
*1 V_DST S+TDL2 (V Distortion Soft + Tempo Delay2)		103	16
*1 PITCH CHG1 (Pitch Change 1)	Changes the pitch of the input signal.	80	16
*1 PITCH CHG2 (Pitch Change 2)		80	0
*1 PITCH CHG3 (Pitch Change 3)		80	1
AUTO WAH1	Cyclically modulates the center frequency of a wah filter.	78	16
AUTO WAH2		78	0
*1 AT WAH+DST1 (Auto Wah + Distortion 1)	The output of an Auto Wah can be distorted by Distortion.	78	17
*1 AT WAH+DST2 (Auto Wah + Distortion2)		78	1
*1 AT WAH+OD1 (Auto Wah + Overdrive 1)	The output of an Auto Wah can be distorted by Overdrive.	78	18
*1 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
*1 TC WAH+DST1 (Touch Wah + Distortion 1)	The output of an Touch Wah can be distorted by Distortion.	82	16
*1 TC WAH+DST2 (Touch Wah + Distortion 2)		82	1
*1 TC WAH+OD1 (Touch Wah + Overdrive 1)	The output of an Touch Wah can be distorted by Overdrive.	82	17
*1 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
*1 WH+DST+DLY1 (Wah + Distortion + Delay 1)	Wah, Distortion and Delay are connected in series.	97	16
*1 WH+DST+DLY2 (Wah + Distortion + Delay2)		97	0
*1 WH+DST+TDLY (Wah + Distortion + Tempo Delay)	Wah, Distortion and Tempo Delay are connected in series.	102	0
*1 WH+OD+DLY1 (Wah + Overdrive + Delay 1)	Wah, Overdrive and Delay are connected in series.	97	17
*1 WH+OD+DLY2 (Wah + Overdrive + Delay 2)		97	1
*1 WH+OD+TDLY1 (Wah + Overdrive + Tempo Delay 1)	Wah, Overdrive and Tempo Delay are connected in series.	102	1
*1 WH+OD+TDLY2 (Wah + Overdrive + Tempo Delay 2)		102	16

Type	Description	MSB	LSB
*1 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
*1 2WAY ROT SP (2-way Rotary Speaker)		86	0
*1 DST+ROT SP (Distortion + Rotary Speaker)	Distortion and rotary speaker connected in series.	69	1
*1 DST+2ROT SP (Distortion + 2-way Rotary Speaker)	Distortion and 2-way rotary speaker connected in series.	86	1
*1 OD+ROT SP (Overdrive + Rotary Speaker)	Overdrive and rotary speaker connected in series.	69	2
*1 OD+2ROT SP (Overdrive + 2-way Rotary Speaker)	Overdrive and 2-way rotary speaker connected in series.	86	2
*1 AMP+ROT SP (Amp Simulator + Rotary Speaker)	Amp simulator and rotary speaker connected in series.	69	3
*1 AMP+2ROT SP (Amp Simulator + 2-way Rotary Speaker)	Amp simulator and 2-way rotary speaker connected in series.	86	3
*1 DUAL ROT SP1 (Dual Rotor Speaker 1)	Rotary speaker simulation with speed switching.	99	0
*1 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	0
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
*1 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
*1 VCE CANCEL (Voice Cancel)	Attenuates the vocal part of a CD or other source.	85	0
*1 AMBIENCE	Blurs the stereo positioning of the sound to add spatial width.	88	0
*1 TALKING MOD (Talking Modulation)	Adds a vowel sound to the input signal.	93	0
*1 LO-FI	Degrades the audio quality of the input signal.	94	0
*1 DYN FILTER	Dynamically controlled filter.	109	0
*1 DYN RINGMOD	Dynamically controlled Ring Modulator.	112	0
*1 RING MOD	An effect that modifies the pitch by applying amplitude modulation to the frequency of the input.	113	0
*1 ISOLATOR	Controls the level of a specified frequency band of the input signal.	115	0
*3 NO EFFECT	No effect.	0	0
THRU	Bypass without applying an effect.	64	0

*1 These types are not available for DSP 2 - 4.

*2 These types become mono for DSP 2 - 4.

*3 DSP1 only

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets

- 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 – 127	table#5	
4	HPF Cutoff	0.1mS – 99.3mS (*2, 3) Thru – 8.0kHz	0 – 63	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, 3)	0 – 127	table#5	
12	Density	0 – 4 (*1, 2) 0 – 2 (*3)	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) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
2	Rch Delay	0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
3	Cch Delay	0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
4	Feedback Delay	0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
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) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
2	Rch Delay	0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
3	Feedback Delay 1	0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
4	Feedback Delay 2	0.1 – 1638.3ms (*2) 0.1 – 1486.0ms (*3)	1 – 16383 1 – 14860		
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) 0.1 – 743.0ms (*3)	1 – 14860 1 – 7430		
2	Lch Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Rch Delay1	0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3)	1 – 14860 1 – 7430		
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) 0.1 – 743.0ms (*3)	1 – 14860 1 – 7430		
7	Rch Delay2	0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3)	1 – 14860 1 – 7430		
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) 0.1 – 743.0ms (*3)	1 – 14860 1 – 7430		
2	R->L Delay	0.1 – 1486.0ms (*2) 0.1 – 743.0ms (*3)	1 – 14860 1 – 7430		
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 (DSP1)

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 REVERS GATE (DSP1)

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 DSP1)

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					

KARAOKE1, 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		
12					

No.	Parameter	Display	Value	See Table	Control
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		

CHORUS1, 2, 3, 4, 5, 6, 7, 8, GMCHORUS1, 2, 3, 4 FB CHORUS, CELESTE1, 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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono/stereo	0 – 1		
16					

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets

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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180 – +180deg (resolution=3deg.)	4 – 124		
15					
16					

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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14					
15					
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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14					
15					
16					

DST+ROT SP
OD+ROT SP
(DSP1)

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)	

AMP+ROT SP
(DSP1)

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)	

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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180 – +180deg (resolution=3deg.)	4 – 124		
15	Input Mode	mono/stereo	0 – 1		
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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	0.1 – 12.0	1 – 120		
14					
15					
16					

AUTO PAN3
(DSP1)

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 (*2)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*2)	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 – 12 (*3)	4 – 22 4 – 12		
12	Diffusion	mono/stereo	0 – 1		
13					
14					
15					
16					

**PHASER 2
(DSP1)**

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
(DSP1)**

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		
15	Ratio	1.0 – 20.0	0 – 7	table#10	
16					

**ST DIST
ST OD
(DSP1)**

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32 – 2.0kHz	4 – 40	table#3	
3	EQ Low Gain	-12 – +12dB	52 – 76		
4	LPF Cutoff	1kHz – Thru	34 – 60		
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7	EQ Mid Frequency	100 – 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
(DSP1)**

**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
(DSP1)**

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					

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets

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
(DSP1)

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
(DSP1)

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 (*2)	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
(DSP1)

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 (*2)	0 – 127	0 – 127		
12					
13					
14					
15					
16					

**TC WAH+DIST1, 2
(DSP1)**

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 TC WAH, EP TC 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 (*2)	0 – 127	0 – 127		
12	EQ Low Gain (*2) (distortion)	-12 – +12dB	52 – 76		
13	EQ Mid Gain (*2) (distortion)	-12 – +12dB	52 – 76		
14	LPF Cutoff (*2)	1.0kHz – thru	34 – 60	table#3	
15	Output Level (*2)	0 – 127	0 – 127	(table#18)	
16	Release	10 – 680mS	52 – 67	table#12	

**VCE CANCEL
(DSP1)**

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
(DSP1)**

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
(DSP1)**

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
(DSP1)**

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)	

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets

**AMP+2ROT SP
(DSP1)**

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)	

**ENS DETUN
(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					

**AMBIENCE
(DSP1)**

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					

**TALKING MOD
(DSP1)**

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					

**LO-FI
(DSP1)**

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					

**DST+DELAY1, 2, OD+DELAY1, 2
(DSP1)**

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					

**CMP+DST+DLY1, 2, CMP+OD+DLY1, 2
(DSP1)**

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					

**WH+DST+DLY1, 2, WH+OD+DLY1, 2
(DSP1)**

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					

**V_DIST HARD
V_DIST SOFT
(DSP1)**

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
(DSP1)**

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
(DSP1)**

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed Slow	0.0Hz – 2.65Hz	0 – 63	table#1	
2	Horn Speed Slow	0.0Hz – 2.65Hz	0 – 63	table#1	
3	Rotor Speed Fast	2.69Hz – 39.7Hz	64 – 127	table#1	
4	Horn Speed Fast	2.69Hz – 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
(DSP1)**

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
(DSP1)**

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
(DSP1)**

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_DIST H+TDLY, V_DIST S+TDLY1, 2
(DSP1)**

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					

Effect Parameter List / Liste der Effektparameter / Liste des paramètres d'effets

V_FLANGER (DSP1)

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 (DSP1)

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 (DSP1)

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 (DSP1)

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 (DSP1)

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 (DSP1)

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 (DSP1)

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 (DSP1)

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		

**RING MOD
(DSP1)**

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.

- (*1) Reverb Block
- (*2) DSP1 Block
- (*3) Chorus and DSP2 – 4 Blocks

**ISOLATOR
(DSP1)**

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					

**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

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	10.4
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	3.80	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	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

table#8
Compressor
Attack Time

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

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	-97.6183594	45	-29.91943359	88	37.79296875
3	-96.05712891	46	-28.34472656	89	39.36767578
4	-94.48242188	47	-26.77001953	90	40.94238281
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	-86.60886872	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	53.54003906
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	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	-59.83886719	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	-53.54003906	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	86.60886872
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	-40.94238281	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	37.07
2	-71.14	34	-34.42	66	2.29	98	39.61
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	2.34	3					

Harmony/Echo Type List / Liste der Harmony/Echo-Effekttypen / Liste des types d'harmonie/d'écho

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

Parameter Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice	Voice Set Group	Song		Style		Registration		Scale Tune	Param Lock Group	Note	
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
Main																
SongFile	X	X	X	X	X	-	X	-	X	X	X	O	Song	X	-	
StyleFile	X	X	X	O	X	-	X	-	X	X	X	O	Style	X	-	
MultiPad File	X	X	X	X	X	-	X	-	X	O	X	O	Multi Pad	X	-	
Right1 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Right2 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Left VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
PartSelect	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
PartOnOff (Right1)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
PartOnOff (Right2)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
PartOnOff (Left)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
RegistrationBankFile	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
ScaleTune BankFile	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
ScaleTune Content Name	X	X	X	X	X	-	X	-	X	X	X	X	-	O	-	
File System																
CharacterSelect	X	X	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	X	-	X	-	Setting is linked to Channel on/off.
ExtraTracks On/Off	X	X	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	X	-	X	-	
Synchro Start	X	X	X	X	X	-	X	-	X	X	X	O	SONG	X	-	
StartStop	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel On/Off	X	X	X	X	X	-	X	-	X	X	X	O	SONG	X	-	
Menu > Function > SongSetting																
Guide Mode	O	X	X	X	X	-	O	Guide Setting	X	X	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	X	-	X	-	
Phrase Mark Repeat	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Track1 Channel	O	X	X	X	X	-	O	-	X	X	X	X	-	X	-	Set by recording. Different from one of the Track2.
Track2 Channel	O	X	X	X	X	-	O	-	X	X	X	X	-	X	-	Set by recording. Different from one of the Track2.
Auto Ch Set	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Lyrics Language	O	X	X	X	X	-	O	Lyrics Language	X	X	X	X	-	-	-	
QuickStart	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
PAT On/Off	X	X	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	X	O	Tempo	X	-	
DigitalStudio > DigitalRecording > Song Creator																
REC Mode																
Rec Start	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
PunchInAt	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Rec End	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
PunchOutAt	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Pedal Punch In/Out	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Quantize																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Size	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Track Delete																
Track Delete	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Track Mix																
Source1	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Source2	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Destination	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Channel Transpose																
CHANNEL TRANSPOSE	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
REC Mode > Channel > Setup																
Setup Select	O	X	X	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	X	-	X	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Style Filter	O	X	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	Multi Pad	Regist	Freeze Group	Scale Time			
SCORE SW																
Left on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Right on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Lyric on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Pedal on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Chord on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
NoteName on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Fingering on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Size	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Left ch.	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Right ch.	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
KeySignature	X	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Quantize	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
NoteName	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	X	-	
Recording data																
Song XG data	X	X	X	X	X	X	O	-	X	X	X	X	-	X	-	
Style																
AccompanimentOnOff	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	X	-	
OTSLink	X	X	X	O (On)	X	-	X	-	X	X	X	X	-	X	-	
AutoFillIn	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Section	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
SynchroStart	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	X	-	
SynchroStop	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
StartStop	X	X	X	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	X	O	Style	X	-	
SynchroStopWindow	O	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
StyleTouch	O	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
SectionSet	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Tempo Hold	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Part On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
SplitPoint																
SplitPoint (Left)	O	X	X	X	X	-	X	-	X	X	X	O	Style	X	Split Point	
SplitPoint (Style)	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Style	X	Split Point	
Chord Fingering																
FingeringType	O	X	X	X	X	-	X	-	X	X	X	O	Style	X	Fingering	
Chord Root Note	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Chord Root Type	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
DigitalStudio > DigitalRecording > Style Creator																
BASIC																
Section	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Pattern Length	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Tempo	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Beat	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Assembly																
Source Pattern	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Section	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Play Type	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Groove > Groove																
Original Beat	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Beat Converter	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Swing	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Fine	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Groove > Dynamics																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Accent Type	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Expand/Comp.	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Boost/Cut	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Quantize																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Size	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Velocity Change																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Boost/Cut	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Bar Copy																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Source Top	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Source Last	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Destination	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	

Parameter	System				Voice	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
Channel > Bar Clear																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Source Top	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Source Last	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Channel > Remove Event																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Event	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Parameter																
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Source Root	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Source Chord	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
NTR	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
NTT	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
NTT BASS	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
High Key	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Note Limit Low	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Note Limit High	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
RTR	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
Edit > Filter																
Main Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
MusicFinder																
SortBy	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
SortOrder	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
TempoLock	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Search 1/2 display																
Music	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Keyword	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Style (FileNumber)	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Beat	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
SearchArea	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Tempo (From)	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Tempo (To)	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Genre	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Search Result	X	X	X	O	X	-	X	-	X	X	X	X	-	X	-	
Record (=Property settings)	X	X	X	O	X	-	X	-	X	X	X	X	-	X	-	
Recording data																
SFF data	X	X	X	X	X	-	X	-	O	X	X	X	-	X	-	
MultiPad																
Multi Pad ContentsName	X	X	X	X	X	-	X	-	X	X	O	X	-	X	-	
DigitalStudio > DigitalRecording > Multi Pad Creator																
Record																
Repeat	X	X	X	X	X	-	X	-	X	X	O	X	-	X	-	
Chord Match	X	X	X	X	X	-	X	-	X	X	O	X	-	X	-	
Edit > Filter																
Main Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Recording data																
Multi Pad Data	X	X	X	X	X	-	X	-	X	X	O	X	-	X	-	
Voice																
LeftHold	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
VoiceEffect																
Initial Touch On Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-	
Harmony/Echo	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Harmony	X	-	
Poly/Mono (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Poly/Mono (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Poly/Mono (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Panel Sustain	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-	
DSP (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
DSP (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
DSP (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-	
Variation (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Variation (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Variation (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-	
Voice Open/Save > Voice Set																
Voice (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Voice (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Voice (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
Volume for Balance (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Volume for Balance (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Volume for Balance (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Touch Sense Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Touch Sense Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Touch Sense Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Touch Sense Offset (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Touch Sense Offset (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Touch Sense Offset (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	

Parameter Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
Voice Open/Save > Voice Set																
Octave for Right1	X	X	X	X	O	Voice	X	-	X	O	X	O	Voice	X	-	
Octave for Right2	X	X	X	X	O	Voice	X	-	X	O	X	O	Voice	X	-	
Octave for Left	X	X	X	X	O	Voice	X	-	X	O	X	O	Style	X	-	
CONTROLLER																
MW Low Pass Filter Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW Low Pass Filter Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW Low Pass Filter Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
MW Amplitude Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW Amplitude Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW Amplitude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
MW LFO PMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW LFO PMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW LFO PMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
MW LFO FMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW LFO FMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW LFO FMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
MW LFO AMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW LFO AMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
MW LFO AMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
SOUND																
EG Attack (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EG Attack (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EG Attack (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
EG Decay (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EG Decay (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EG Decay (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
EG Release (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EG Release (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EG Release (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Vibrato Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Vibrato Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Vibrato Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Vibrato Speed (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Vibrato Speed (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Vibrato Speed (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Vibrato Delay (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Vibrato Delay (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Vibrato Delay (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
EFFECT/EQ																
Panel Sustain (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Panel Sustain (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Panel Sustain (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
DSP Type (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
DSP Type (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
DSP Type (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-	
DSP Variation Value (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
DSP Variation Value (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
DSP Variation Value (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-	
EQ Low Freq (Right1)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ Low Freq (Right2)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ Low Freq (Left)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	X	-	
EQ High Freq (Right1)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ High Freq (Right2)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ High Freq (Left)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	X	-	
OrganFlute > Footage																
Organ Flutes Footage (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Organ Flutes Footage (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Organ Flutes Footage (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
Organ Flutes Type (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Organ Flutes Type (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Organ FlutesType (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
Organ Vib On/Off (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Organ Vib On/Off (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	

Parameter	System				Voice	Voice Set Group		Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder				Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
OrganFlute > Footage																	
Organ Vib On/Off (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Vib Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Vib Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Vib Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Vib Speed (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Vib Speed (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Vib Speed (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Flutes Attack Footage (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Attack Footage (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Attack Footage (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Flutes Attack Mode (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Attack Mode (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Attack Mode (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Flutes Attack length (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Attack length (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Attack length (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Flutes Response (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Response (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Response (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Organ Flutes Volume (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Volume (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Organ Flutes Volume (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Main > Mixing Console > Voice																	
Volume																	
Offset Volume Song	X	X	X	X	X	-	X	-	X	X	X	O	Song	X	-		
Offset Volume Style	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-		
Volume M.Pad	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	MultiPad	X	-		
Volume Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Volume Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Volume Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Part Volume Song	X	X	X	X	X	-	O	Volume	X	X	X	X	-	X	-		
Part Volume Style	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
PanPot																	
Offset PanPot Song	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Offset PanPot Style	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-		
PanPot M.Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	X	-		
PanPot Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
PanPot Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
PanPot Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Part PanPot Song	X	X	X	X	X	-	O	Pan	X	X	X	X	-	X	-		
Part PanPot Style	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
Voice																	
Voice (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Voice (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Voice (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Voice (Style Part)	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
Voice (Song Part)	X	X	X	X	X	-	O	Voice	X	X	X	X	-	X	-		
Auto Revoice																	
Auto Revoice On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Auto Revoice Setup	O	X	X	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	X	-	X	-		
Brightness Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
Brightness Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Brightness Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Brightness Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-		
Harmonic Content																	
Harmonic Content Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	X	-		
Harmonic Content Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
Harmonic Content Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Harmonic Content Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Harmonic Content Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-		

Parameter	System				Voice	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
Main > Mixing Console > Tune																
Octave																
Octave Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Octave Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Octave Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Tune																
Tune Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Tune Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Tune Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
Portamento Time																
Portamento Time Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Portamento Time Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Portamento Time Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
Pitch Bend Range																
Pitch Bend Range Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Pitch Bend Range Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Pitch Bend Range Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-	
Transpose																
Master Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Tune Trans	X	-	
Song Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Tune Trans	X	-	
Keyboard Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Tune Trans	X	-	
Main > Mixing Console > EQ																
MasterEQ Type	O	X	X	X	X	-	X	-	X	X	X	X	-	X	Master EQ	
MasterEQ Parameter	X	X	O	X	X	-	X	-	X	X	X	X	-	X	Master EQ	
EQ Low Gain																
EQ Low Gain Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-	
EQ Low Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	X	-	
EQ Low Gain Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	X	-	
EQ Low Gain Right1	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ Low Gain Right2	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ Low Gain Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	X	-	
EQ Low Gain Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
EQ Low Gain Song (Offset)	X	X	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	X	O	Style	X	-	
EQ High Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	X	-	
EQ High Gain Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	X	-	
EQ High Gain Right1	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ High Gain Right2	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	X	-	
EQ High Gain Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	X	-	
EQ High Gain Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
EQ High Gain Song (Offset)	X	X	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	X	O	Style/Song	X	Reverb Type	
Reverb Return Level	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	X	Reverb Return Level	
Reverb Depth																
Reverb Depth Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-	
Reverb Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	X	-	
Reverb Depth Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	X	-	
Reverb Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Reverb Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Reverb Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-	
Reverb Depth Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
Reverb Depth Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Chorus Type																
Chorus Type	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	X	-	
Chorus Return Level	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	X	Chorus Return Level	
Chorus Depth																
Chorus Depth Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-	
Chorus Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	X	-	
Chorus Depth Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	X	-	
Chorus Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Chorus Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Chorus Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-	
Chorus Depth Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	X	-	
Chorus Depth Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
DSP Type																
DSP1 (Variation) Type	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	X	-	
DSP1 (Variation) Return Level	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	X	DSP1 Return Level	
DSP2Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	X	-	

Parameter	System				Voice	Voice Set Group		Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder				Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
DSP3Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	X	-		
DSP4Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	X	-		
DSP Depth																	
DSP Depth Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
DSP Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	X	-		
DSP Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-		
DSP Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-		
DSP Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-		
InsertionType																	
Ins.Type (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Ins.Type (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	X	-		
Ins.Type (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	X	-		
Ins.Type (Song)	X	X	X	X	X	-	O	Effect	X	X	X	X	-	X	-		
Effect Parameter (Reverb/Chorus/DSP1-4)	X	X	O	X	X	-	O	Effect	X	X	X	X	-	X	-		
Main > Channel > Channel OnOffPopUp																	
ChannelOnOff (Song)	X	X	X	X	X	-	X	-	X	X	X	O	Song	X	-		
ChannelOnOff (Style)	X	X	X	X	X	-	X	-	O	X	X	O	Style	X	-		
MIDI																	
MIDI Template																	
Template No.	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Preset Template Name	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Menu > Function > MIDI																	
System																	
Local Control	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Clock	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Transmit Clock	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Receive Transpose	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Receive Start/Stop	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
SysEx Transmit	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
SysEx Receive	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Chord SysEx Transmit	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Chord SysEx Receive	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Transmit																	
Part Select	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Ch (for each part)	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Filter (for each part)	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Receive																	
CH Select	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Part Select	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Filter (for each channel)	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Bass (On Bass Note)																	
Bass (On Bass Note)	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Chord Detect																	
Chord Detect	X	O	X	X	X	-	X	-	X	X	X	X	-	X	-		
Menu > Function > Mater Tune/Scale Tune																	
Master Tune																	
MasterTune	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Scale Tune																	
Scale	X	X	X	X	X	-	X	-	X	X	X	O	Scale	O	-		
Tune	X	X	X	X	X	-	X	-	X	X	X	O	Scale	O	-		
BaseNote	X	X	X	X	X	-	X	-	X	X	X	O	Scale	O	-		
Part Select (Right1/Right2, Left, Style, Multi Pad)	X	X	X	X	X	-	X	-	X	X	X	O	Scale	O	-		
Menu > Function > Controller																	
Foot Pedal																	
PedalFunction	X	X	X	X	X	X	X	X	X	X	X	O	Pedal	X	-		
PedalSettings	X	X	X	X	X	X	X	X	X	X	X	O	Pedal	X	-		
PedalPolarity	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Keyboard/Panel																	
Initial Touch	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Initial TouchOffLevel	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	-		
Initial Touch Part OnOff	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-		
ModulationWheelPartOnOff	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-		
TransposeAssign	O	X	X	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	X	O	-	X	-	Memorized as a single Registration Bank file.	
RegistSequenceEnable	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Regist (+) Pedal	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Regist (-) Pedal	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
SequenceEnd	X	X	X	X	X	-	X	-	X	X	X	O	-	X	-	Memorized as a single Registration Bank file.	
Freeze Group																	
FreezeGroupSetting	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		

Parameter Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice	Voice Set Group		Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder				Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group				
VoiceSet																	
VoiceSet Group Right1 OnOff	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
VoiceSet Group Right2 OnOff	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
VoiceSet Group Left OnOff	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Menu > Function > Harmony/Echo																	
Type	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	X	-		
Volume	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	X	-		
Speed	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	X	-		
Assign	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	X	-		
ChordNoteOnly	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	X	-		
TouchLimit	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	X	-		
Menu > Function > Utility																	
Configuration1																	
FadeInTime	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
FadeOutTime	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
FadeOutHoldTime	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
MetronomeVolume	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
MetronomeSound	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
TimeSignature	X	X	X	X	X	-	O	-	O	X	X	X	-	X	-		
ParameterLock	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
TapCountPercussion	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
TapCountVelocity	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	X	-		
Configuration2																	
LCD Brightness	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	Cannot be reset with Factory Reset.	
DisplayVoiceNumber	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
VoiceCategory Button Options	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Display Style Tempo	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Popup Display Time	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Media																	
SongAutoOpen	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
Owner																	
Language	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	Cannot be reset with Factory Reset.	
OwnerName	O	X	X	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	X	-	X	-	Language, and Owner Name Data are not reset.	
Registration																	
FreezeOnOff (Panel SW)	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
RegistMemory Contents	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
RegistNumber	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-		
RegistContentsName	X	X	X	X	X	-	X	-	X	X	X	O	-	X	-		
Transpose																	
Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Tune/Trans	X	-		
Upper Octave																	
UpperOctave	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-		

MIDI Data Format / MIDI-Datenformat / Format des données 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
0	00	0000 0000
1	01	0000 0001
2	02	0000 0010
3	03	0000 0011
4	04	0000 0100
5	05	0000 0101
6	06	0000 0110
7	07	0000 0111
8	08	0000 1000
9	09	0000 1001
10	0A	0000 1010
11	0B	0000 1011
12	0C	0000 1100
13	0D	0000 1101
14	0E	0000 1110
15	0F	0000 1111
16	10	0001 0000
17	11	0001 0001
18	12	0001 0010
19	13	0001 0011
20	14	0001 0100
21	15	0001 0101
22	16	0001 0110
23	17	0001 0111
24	18	0001 1000
25	19	0001 1001
26	1A	0001 1010
27	1B	0001 1011
28	1C	0001 1100
29	1D	0001 1101
30	1E	0001 1110
31	1F	0001 1111

Decimal	Hexadecimal	Binary
32	20	0010 0000
33	21	0010 0001
34	22	0010 0010
35	23	0010 0011
36	24	0010 0100
37	25	0010 0101
38	26	0010 0110
39	27	0010 0111
40	28	0010 1000
41	29	0010 1001
42	2A	0010 1010
43	2B	0010 1011
44	2C	0010 1100
45	2D	0010 1101
46	2E	0010 1110
47	2F	0010 1111
48	30	0011 0000
49	31	0011 0001
50	32	0011 0010
51	33	0011 0011
52	34	0011 0100
53	35	0011 0101
54	36	0011 0110
55	37	0011 0111
56	38	0011 1000
57	39	0011 1001
58	3A	0011 1010
59	3B	0011 1011
60	3C	0011 1100
61	3D	0011 1101
62	3E	0011 1110
63	3F	0011 1111

Decimal	Hexadecimal	Binary
64	40	0100 0000
65	41	0100 0001
66	42	0100 0010
67	43	0100 0011
68	44	0100 0100
69	45	0100 0101
70	46	0100 0110
71	47	0100 0111
72	48	0100 1000
73	49	0100 1001
74	4A	0100 1010
75	4B	0100 1011
76	4C	0100 1100
77	4D	0100 1101
78	4E	0100 1110
79	4F	0100 1111
80	50	0101 0000
81	51	0101 0001
82	52	0101 0010
83	53	0101 0011
84	54	0101 0100
85	55	0101 0101
86	56	0101 0110
87	57	0101 0111
88	58	0101 1000
89	59	0101 1001
90	5A	0101 1010
91	5B	0101 1011
92	5C	0101 1100
93	5D	0101 1101
94	5E	0101 1110
95	5F	0101 1111

Decimal	Hexadecimal	Binary
96	60	0110 0000
97	61	0110 0001
98	62	0110 0010
99	63	0110 0011
100	64	0110 0100
101	65	0110 0101
102	66	0110 0110
103	67	0110 0111
104	68	0110 1000
105	69	0110 1001
106	6A	0110 1010
107	6B	0110 1011
108	6C	0110 1100
109	6D	0110 1101
110	6E	0110 1110
111	6F	0110 1111
112	70	0111 0000
113	71	0111 0001
114	72	0111 0010
115	73	0111 0011
116	74	0111 0100
117	75	0111 0101
118	76	0111 0110
119	77	0111 0111
120	78	0111 1000
121	79	0111 1001
122	7A	0111 1010
123	7B	0111 1011
124	7C	0111 1100
125	7D	0111 1101
126	7E	0111 1110
127	7F	0111 1111

- Except the table above, for example 144-159 (decimal)/9nH/1001 0000-1001 1111 (binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/ 1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/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/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd 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	Song	Right/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	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)	O	O	O	O	O	X	X	O	O	X	O	X	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	O	O	O	O	O	●	O	O	O	●	O	X	O	O			
Control Change	BnH (n: Channel Number)	0 (00H)	Bank Select MSB [GM2]	0 (00H) 8 (08H) 64 (40H) 120 (78H) 121 (79H) 126 (7EH) 127 (7FH)	Normal Mega Voice SFX Voice GM2 Rhythm GM2 Normal SFX Kit Drum Kit	O	O	O	O (Right1)	O	O	●	O	●	●	X	O	O	O			
		1 (01H)	Modulation [GM1] [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O	O		
		5 (05H)	Portamento Time [GM2]	0-127 (00H...7FH)	Data	O (Except Organ Flutes)	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	O	O	O	O	
		6 (06H)	Data Entry MSB [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	X	O	O	O	
		7 (07H)	Main Volume [GM1] [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O	
		10 (0AH)	Panpot [GM1] [GM2]	0-127 (00H...7FH)	L64...C...R63	O	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O	
		11 (0BH)	Expression [GM1] [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	●	●	●	●	●	O	O	O	O	
		32 (20H)	Bank Select LSB [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (Right1)	O	O	●	O	●	●	X	O	O	O	O	O	
		38 (26H)	Data Entry LSB [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	X	O	X	O	
		64 (40H)	Sustain (Damper) [GM1] [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O	
		65 (41H)	Portamento [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O (Except Natural Piano, Organ Flutes)	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O	
		66 (42H)	Sostenuto [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O	
		67 (43H)	Soft Pedal [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O	
		71 (47H)	Harmonic Content [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O	
		72 (48H)	Release Time [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O	O	O	
		73 (49H)	Attack Time [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O	O	O	
		74 (4AH)	Brightness [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O	
		75 (4BH)	Decay Time [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	X	O	
		76 (4CH)	Vibrato Rate [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	O	X	
		77 (4DH)	Vibrato Depth [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	O	X	
		78 (4EH)	Vibrato Delay [GM2]	0-127 (00H...7FH)	-64...0...+63	O	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	O	X	
		84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	O	O	O	X	O	O	O	O	●	O	X	O	X	O	X	O	
		91 (5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O	O	O	
		93 (5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O	O	O	
94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	O	O	●	●	X	O	O	O	O	X			
96 (60H)	RPN Increment	-	-	The data byte is ignored.	O	O	O	X	O	O	X	O	X	O	X	O	X	O	X			
97 (61H)	RPN Decrement	-	-	The data byte is ignored.	O	O	O	X	O	O	X	O	X	O	X	O	X	O	X			
98 (62H)	NRPN LSB	0-127 (00H...7FH)	Data	O	O	O	X	O	O	●	O	O	O	X	O	O	O	O	O			
99 (63H)	NRPN MSB	0-127 (00H...7FH)	Data	O	O	O	X	O	O	●	O	O	O	X	O	O	O	O	O			
100 (64H)	RPN LSB [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O	O	O			
101 (65H)	RPN MSB [GM2]	0-127 (00H...7FH)	Data	O	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O	O	O			

MIDI Data Format / MIDI-Datenformat / Format des données 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	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)		
Mode Message	BnH (n: Channel Number)	120 (78H)	All Sound Off [GM2]	0 (00H)	Data	0	0	0	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	X	X		
		121 (79H)	Reset All Controllers [GM1] [GM2]	0 (00H)	Data	0	0	X	X	X	X	O	X	O	X	O	X	O	X	X	X	
		122 (7AH)	Local Control	0 127 (00H) (7FH)	OFF ON	-	-	-	-	O	O	O	X	X	X	X	X	X	X	X	X	
		123 (7BH)	All Note Off [GM1] [GM2]	0 (00H)	Data	0	0	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	O	X	
		124 (7CH)	Omni Off [GM2]	0 (00H)	Data	0	0	O (*1)	X	X	X	X	X	X	O	X	O	X	O	X	X	
		125 (7DH)	Omni On [GM2]	0 (00H)	Data	0	0	O (*2)	X	X	X	X	X	X	O	X	O	X	O	X	X	
		126 (7EH)	Mono [GM2]	0-16 (00H...10H)	Data	0	0	O	X	X	X	X	X	X	O	X	O	X	O	X	X	
	127 (7FH)	Poly [GM2]	0 (00H)	Data	0	0	X	X	X	X	X	X	O	X	O	X	O	X	X			
Program Change [GM1] [GM2]	CnH (n: Channel Number)	pp (00H...7FH)	Voice Number (0-127)	-	-	-	0	0	O (Right1)	O	O	●	O	●	●	X	O	O	O			
Channel After Touch [GM1] [GM2]	DnH (n: Channel Number)	vv (00H...7FH)	Data	-	-	-	0	0	O (All Keyboard parts)	X	O	X	O	X	O	X	O	X	O			
Polyphonic After Touch	AnH (n: Channel Number)	kk (00H...7FH)	Key no. (0-127)	vv (00H...7FH)	Data	0	0	X	X	X	X	X	X	X	O	X	O	X	X			
Pitch Bend Change [GM1] [GM2]	EnH (n: Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	0	0	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O			
Realtime Message	F8H MIDI Clock	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI, USB1, or USB2.)	O	O	O (Transmitted when the Clock is set to Internal and the Transmit Clock is set to on.)	O	O	O	O	-	-	-			
	FAH Start	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI, USB1, or USB2.)	O	O	O (Transmitted when the Transmit Clock is set to on.)	O	O	O	O	-	-	-			
	FBH Continue	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	-	-	-			
	FCH Stop	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI, USB1, or USB2.)	O	O	O (Transmitted when the Transmit Clock is set to on.)	O	O	O	O	-	-	-			
	FEH Active Sense [GM2]	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	-	-	-			
FFH System Reset	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	-	-	-			

●: Transmitted via panel operations and keyboard/controller performances.

*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	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW
01H	08H	mmH	--	Vibrato Rate	mm: 00H-40H-7FH (-64...0...+63)	O	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	09H	mmH	--	Vibrato Depth	mm: 00H-40H-7FH (-64...0...+63)	O	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	0AH	mmH	--	Vibrato Delay	mm: 00H-40H-7FH (-64...0...+63)	O	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-64...0...+63)	O	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm: 00H-40H-7FH (-64...0...+63)	O	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	30H	mmH	--	EQ Bass Gain	mm: 00H-40H-7FH (-64...0...+63)	O	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	31H	mmH	--	EQ Treble Gain	mm: 00H-40H-7FH (-64...0...+63)	O	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	34H	mmH	--	EQ Bass Frequency	mm: 04H-28H (32...2.0k[Hz])	O	O	X	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	O	X	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	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	64H	mmH	--	EG Decay Time	mm: 00H-40H-7FH (-64...0...+63)	O	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	66H	mmH	--	EG Release	mm: 00H-40H-7FH (-64...0...+63)	O	O	X	X	O	X	X	O	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)	O	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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)	O	X	X	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	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	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	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	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.

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	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1] [GM2]	mm: 00H-18H (0...+24[semitones])	O	O	O	O	O	●	O	O	O	X	O	O	O	
00H	01H	mmH	IIIH	Fine Tune [GM1] [GM2]	mm II: 00H 00H -100[cent] ... mm II: 40H 00H 0[cent] ... mm II: 7FH 7FH 100[cent]	O	O	O	O	O	●	O	O	O	X	O	O	O	
00H	02H	mmH	--	Coarse Tune [GM1] [GM2]	mm: 28H-40H-58H (-24...0...+24[semitones])	O	O	O	O	O	X	O	O	O	X	O	O	X	
00H	05H	mmH	IIIH	Modulation Sensitivity [GM2]	mm: Specified in semitone steps II: Specified in 100/128 cent steps	O	O	X	X	X	X	X	X	O	X	O	X	X	
7FH	7FH	--	--	Null [GM2]	-	O	O	O	O	O	X	O	O	O	X	O	X	X	

● Transmitted via panel operations and keyboard/controller performances.

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

					[MIDI]										[Song Creator]							
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice	MIDI Reception					MIDI Transmission					PLAY		REC From panel (Right1/Right2/Left)			
							Regular/Drum/Natural/Organ Voice	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	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	X	X
		04	1	00-7F	MASTER VOLUME	0...127	7F	0		0								0		0	0	X
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	X		X								X		X	X	X
		06	1	28-58	TRANSPOSE	-24...0...+24[semitones]	40	0		0								0		0	0	X
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	-	0 (Drum only)		0								0		0	X	X
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	0		0								0		0	X	0
		7F	1	00	ALL PARAMETER RESET	00=ON	-	0		0								0		0	X	X

TOTAL SIZE 07

●: Transmitted via panel operations

MIDI Parameter Change table (SYSTEM INFORMATION)

					[MIDI]										[Song Creator]							
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice	MIDI Reception					MIDI Transmission					PLAY		REC From panel (Right1/Right2/Left)			
							Regular/Drum/Natural/Organ Voice	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY		REW		
01	00	00 01 02 03 04 0E 0F	E 1	20-7F 20-7F	Model Name 1 Model Name 14 NOT USED NOT USED	32...127 (ASCII CHARACTER) 32...127 (ASCII CHARACTER)	-											0 (Available only when receiving requests via MIDI)				

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

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

TOTAL SIZE 0E

02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	0		0								●		0	0	0
		11	1	00-7F	REVERB PARAMETER 12		Depends on Reverb Type	0		0								●		0	0	0
		12	1	00-7F	REVERB PARAMETER 13		Depends on Reverb Type	0		0								●		0	0	0
		13	1	00-7F	REVERB PARAMETER 14		Depends on Reverb Type	0		0								●		0	0	0
		14	1	00-7F	REVERB PARAMETER 15		Depends on Reverb Type	0		0								●		0	0	0
		15	1	00-7F	REVERB PARAMETER 16		Depends on Reverb Type	0		0								●		0	0	0

TOTAL SIZE 06

●: Transmitted via panel operations

MIDI Data Format / MIDI-Datenformat / Format des données 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	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)			
02	01	20	2	00-7F 00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	Refer to Effect Parameter List	41 (=CHORUS1) 00	0										●			0	0	0
		22	1	00-7F	CHORUS PARAMETER 1		Depends on Chorus Type	0										●			0	0	0
		23	1	00-7F	CHORUS PARAMETER 2		Depends on Chorus Type	0										●			0	0	0
		24	1	00-7F	CHORUS PARAMETER 3		Depends on Chorus Type	0										●			0	0	0
		25	1	00-7F	CHORUS PARAMETER 4		Depends on Chorus Type	0										●			0	0	0
		26	1	00-7F	CHORUS PARAMETER 5		Depends on Chorus Type	0										●			0	0	0
		27	1	00-7F	CHORUS PARAMETER 6		Depends on Chorus Type	0										●			0	0	0
		28	1	00-7F	CHORUS PARAMETER 7		Depends on Chorus Type	0										●			0	0	0
		29	1	00-7F	CHORUS PARAMETER 8		Depends on Chorus Type	0										●			0	0	0
		2A	1	00-7F	CHORUS PARAMETER 9		Depends on Chorus Type	0										●			0	0	0
		2B	1	00-7F	CHORUS PARAMETER 10		Depends on Chorus Type	0										●			0	0	0
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB (0...64...127)	40	0										●			0	0	0
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	0										0			0	0	X
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00	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	
		31	1	00-7F	CHORUS PARAMETER 12		Depends on Chorus Type	0											●			0	0	0
		32	1	00-7F	CHORUS PARAMETER 13		Depends on Chorus Type	0											●			0	0	0
		33	1	00-7F	CHORUS PARAMETER 14		Depends on Chorus Type	0											●			0	0	0
		34	1	00-7F	CHORUS PARAMETER 15		Depends on Chorus Type	0											●			0	0	0
		35	1	00-7F	CHORUS PARAMETER 16		Depends on Chorus Type	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	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)				
02	01	40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	Refer to Effect Parameter List	05 (=DELAY L, C, R) 00	0											●			0	0	0
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB		Depends on Variation Type	0											●			0	0	0
		44	2	00-7F 00-7F	VARIATION PARAMETER 2 MSB VARIATION PARAMETER 2 LSB		Depends on Variation Type	0											●			0	0	0
		46	2	00-7F 00-7F	VARIATION PARAMETER 3 MSB VARIATION PARAMETER 3 LSB		Depends on Variation Type	0											●			0	0	0
		48	2	00-7F 00-7F	VARIATION PARAMETER 4 MSB VARIATION PARAMETER 4 LSB		Depends on Variation Type	0											●			0	0	0
		4A	2	00-7F 00-7F	VARIATION PARAMETER 5 MSB VARIATION PARAMETER 5 LSB		Depends on Variation Type	0											●			0	0	0
		4C	2	00-7F 00-7F	VARIATION PARAMETER 6 MSB VARIATION PARAMETER 6 LSB		Depends on Variation Type	0											●			0	0	0
		4E	2	00-7F 00-7F	VARIATION PARAMETER 7 MSB VARIATION PARAMETER 7 LSB		Depends on Variation Type	0											●			0	0	0
		50	2	00-7F 00-7F	VARIATION PARAMETER 8 MSB VARIATION PARAMETER 8 LSB		Depends on Variation Type	0											●			0	0	0
		52	2	00-7F 00-7F	VARIATION PARAMETER 9 MSB VARIATION PARAMETER 9 LSB		Depends on Variation Type	0											●			0	0	0
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List	Depends on Variation Type	0											●			0	0	0
		56	1	00-7F	VARIATION RETURN	-∞dB...0dB...+6dB (0...64...127)	40	0											●			0	0	0
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	0											0			0	0	X
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00	0											0			0	0	X
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB...0dB...+6dB (0...64...127)	00	0											0			0	0	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	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
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	0											0			0	0	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	0											0			0	0	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	0											0			0	0	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	0											0			0	0	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	0											0			0	0	X

TOTAL SIZE 21

02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type	0											●			0	0	0	
		71	1	00-7F	VARIATION PARAMETER 12		Depends on Variation Type	0												●			0	0	0
		72	1	00-7F	VARIATION PARAMETER 13		Depends on Variation Type	0												●			0	0	0
		73	1	00-7F	VARIATION PARAMETER 14		Depends on Variation Type	0												●			0	0	0
		74	1	00-7F	VARIATION PARAMETER 15		Depends on Variation Type	0												●			0	0	0
		75	1	00-7F	VARIATION PARAMETER 16		Depends on Variation Type	0												●			0	0	0

TOTAL SIZE 06

● Transmitted via panel operations.

MIDI Parameter Change table (MULTI 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	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY		REW	From panel (Right1/ Right2/ Left)
08	nn	00	1	00-20	ELEMENT RESERVE	0...32	part10, 26=0, other parts=2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		01	1	00-7F	BANK SELECT MSB	0...127	part10=7F, other parts=00	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		02	1	00-7F	BANK SELECT LSB	0...127	00	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		03	1	00-7F	PROGRAM NUMBER	1...128	00	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF	Part No.	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	0	0	X	X	X	X	X	X	0	X	0	X	X	X	X
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	0	0	X	X	0	X	X	X	X	0	X	0	X	X	X
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part10=02, other parts=00	0	0	X	X	X	X	●	X	●	●	X	0	X	0	0
		08	1	28-58	NOTE SHIFT	-24...0...+24[semitones]	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		09 0A	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7[Hz] 1st bit3-0 -> bit7-4 2nd bit3-0 -> bit3-0	08 00	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X
		0B	1	00-7F	VOLUME	0...127	64	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	0	0	0	X	X	0	●	0	X	0	X	0	0	0	0
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	0	0	0	X	X	0	●	0	X	0	X	0	0	0	0
		0E	1	00-7F	PAN	RND, L63...C...R63	40	0	0	0	X	0	0	0	X	X	X	0	X	0	0	X
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		11	1	00-7F	DRY LEVEL	0...127	7F	0	0	0	X	0	0	X	0	●	●	X	0	0	0	0
		12	1	00-7F	CHORUS SEND	0...127	00	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		13	1	00-7F	REVERB SEND	0...127	28	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		14	1	00-7F	VARIATION SEND	0...127	00	0	0	0	X	0	0	X	X	X	0	X	0	0	0	0
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	0	0	0	X	0	0	X	X	X	0	X	0	0	0	X
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24[semitones]	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	X
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	0	X	X	0	●	0	X	0	X	0	0	0	0
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	X
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	0	0	0	X	X	0	●	0	X	0	X	0	0	0	0
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	0	0	0	X	X	0	●	0	X	0	X	0	0	0	0
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	0	0	0	X	X	0	●	0	X	0	X	0	0	0	0
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24[semitones]	42	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	0	0	0	X	0	0	X	X	X	0	X	0	X	X	X

TOTAL SIZE 29

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	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY		REW	Panel (Right1/ Right2/ Left)
		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		36	1	00-01	Rcv RPN	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		37	1	00-01	Rcv NRRPN	OFF, ON	XGmode=01, GMmode=00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		38	1	00-01	Rcv MODULATION	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		39	1	00-01	Rcv VOLUME	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		3A	1	00-01	Rcv PAN	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		40	1	00-01	Rcv BANK SELECT	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	X	X	X
		41	1	00-7F	SCALE TUNING C	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		42	1	00-7F	SCALE TUNING C#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		43	1	00-7F	SCALE TUNING D	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		44	1	00-7F	SCALE TUNING D#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		45	1	00-7F	SCALE TUNING E	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		46	1	00-7F	SCALE TUNING F	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		47	1	00-7F	SCALE TUNING F#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		48	1	00-7F	SCALE TUNING G	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		49	1	00-7F	SCALE TUNING G#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		4A	1	00-7F	SCALE TUNING A	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		4B	1	00-7F	SCALE TUNING A#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		4C	1	00-7F	SCALE TUNING B	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	0	0	0	0
		4D	1	28-58	CAT PITCH CONTROL	-24...0...+24[semitones]	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	X
		4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	0	X	X	0	X	X	X	0	X	0	0	0	X
		4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	X
		50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	0	0	0	X	X	0	X	X	X	0	X	0	0	0	X
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	0	0	0	X	X	0	X	X	X	0	X	0	0	0	X
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	0	0	0	X	X	0	X	X	X	0	X	0	0	0	X
		53	1	28-58	PAT PITCH CONTROL	-24...0...+24[semitones]	40	0	0	0	X	X	X	X	X	X	0	X	0	X	X	X
		54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	0	X	X	X	X	X	X	0	X	0	X	X	X
		55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	0	X	X	X	X	X	X	0</					

MIDI Data Format / MIDI-Datenformat / Format des données 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	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	Panel (Right1/Right2/Left)		
		56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	O	O	X	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	O	X	X	X	X	X	X	X	O	X	O	X	X	
		5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	O	O	X	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	O	X	X	X	X	X	X	X	O	X	O	X	X	
		63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	O	O	X	X	X	X	X	X	X	O	X	O	X	X	
		67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	O	O	O	X	X	O	X	X	X	O	X	O	O	X	
		68	1	00-7F	PORTAMENTO TIME	0...127	00	O	O	O	X	X	O	X	X	X	O	X	O	O	X	
		69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	O	O	O	X	X	O	X	X	X	O	X	O	X	X	
		6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	O	O	O	X	X	O	X	X	X	O	X	O	X	X	
		6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	O	O	O	X	X	O	X	X	X	O	X	O	X	X	
		6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	O	O	O	X	X	O	X	X	X	O	X	O	X	X	
		6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	O	O	O	X	X	O	X	X	X	O	X	O	X	X	
		6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	O	O	O	X	X	O	X	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	O	O	X	O	O	●	●	●	●	X	O	O	O
		73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	O	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	O	O	X	X	O	●	O	X	O	X	O	O	O
		77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	O	O	O	X	X	O	●	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

													[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	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	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	O	
		41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	O	X	X	X	X	X	X	X	O	X	O	O	X	
		42	1	00-7F	CAT OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	O	O	X	X	O	X	O	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	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	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	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 Data Format / MIDI-Datenformat / Format des données MIDI

MIDI Event	Data Format	[MIDI]											[Song Creator]																													
		Voice	MIDI Reception						MIDI Transmission					PLAY	REC																											
		Regular/ Drum/ Natural/ Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations																											
Controller (Control Change) [GM2] F0 7F XN 09 03 0M CC PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = Controller Destination Setting 00000111 03 = Sub-ID #2 = Controller Type: 03 (Control Change) 0000mmmm 0M = MIDI Channel (00-0F) 0ccccccc CC = Controller Number (01H-1FH, 40H-5FH) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Range . 11110111 F7 = End of Exclusive Make sure to set both the controlled parameter and the range. Parameters not set will be restored to their default values. <table border="1"> <thead> <tr> <th>Control Parameter (pp)</th> <th>Data (RR)</th> <th>Description</th> <th>Default Value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H-58H</td> <td>-24...0...+24semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H-7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table>	Control Parameter (pp)	Data (RR)	Description	Default Value	pp=00 Pitch Control	28H-58H	-24...0...+24semitones	40H	pp=01 Filter Cutoff Control	00H-7FH	-9600...0...+9450cents	40H	pp=02 Amplitude Control	00H-7FH	-100...0...+100%	40H	pp=03 LFO Pitch Depth	00H-7FH	0...127	00H	pp=04 LFO Filter Depth	00H-7FH	0...127	00H	pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H	O	O	X	X	X	X	X	X	X	O	X	O	X	X
Control Parameter (pp)	Data (RR)	Description	Default Value																																							
pp=00 Pitch Control	28H-58H	-24...0...+24semitones	40H																																							
pp=01 Filter Cutoff Control	00H-7FH	-9600...0...+9450cents	40H																																							
pp=02 Amplitude Control	00H-7FH	-100...0...+100%	40H																																							
pp=03 LFO Pitch Depth	00H-7FH	0...127	00H																																							
pp=04 LFO Filter Depth	00H-7FH	0...127	00H																																							
pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H																																							
Key-Based Instrument Control [GM2] F0 7F XN 0A 01 0M KK CC VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X = ignored 00001010 0A = Sub-ID #1=Key-Based Instrument Control 00000001 01 = Sub-ID #2=Controller 0000mmmm 0M = MIDI Channel (00-0F) 0kkkkkkk KK = Key Number 0ccccccc CC = Controller Number 0vvvvvvv VV = Value 11110111 F7 = End of Exclusive Make sure to set both the controlled number and the value. <table border="1"> <thead> <tr> <th>Control Number (CC)</th> <th>Value (VV)</th> <th>Description</th> <th>Default value</th> </tr> </thead> <tbody> <tr> <td>CC=07H Volume</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>CC=0AH Pan</td> <td>00H-7FH</td> <td>L63...C...R63 (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5BH Reverb Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5DH Chorus Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> </tbody> </table>	Control Number (CC)	Value (VV)	Description	Default value	CC=07H Volume	00H-7FH	-100...0...+100%	40H	CC=0AH Pan	00H-7FH	L63...C...R63 (absolute)	(Preset value)	CC=5BH Reverb Send Level	00H-7FH	0...Max (absolute)	(Preset value)	CC=5DH Chorus Send Level	00H-7FH	0...Max (absolute)	(Preset value)	O (Drum only)	O	X	X	X	X	X	X	X	O	X	O	X	X								
Control Number (CC)	Value (VV)	Description	Default value																																							
CC=07H Volume	00H-7FH	-100...0...+100%	40H																																							
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CC=5DH Chorus Send Level	00H-7FH	0...Max (absolute)	(Preset value)																																							

System Exclusive Messages (Universal Non-Real Time Messages)

MIDI Event	Data Format	[MIDI]											[Song Creator]		
		Voice	MIDI Reception						MIDI Transmission					PLAY	REC
		Regular/ Drum/ Natural/ Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
GM1 System On [GM1] [GM2] F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000001 01 = Sub-ID #2 = General MIDI On 11110111 F7 = End of Exclusive	O			O					O			O	X	O	
GM2 System On [GM2] F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000011 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive	O			O					O			O	X	X	
General MIDI System Off [GM1] [GM2] F0 7E XN 09 02 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000010 02 = Sub-ID #2 = General MIDI Off 11110111 F7 = End of Exclusive	O			O					O			O	X	X	
Scale/Octave Tuning [GM2] F0 7E XN 08 08 JJ GG MM SS ... F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X = ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 1byte form 0jjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte2 - bits0 to 6 = channel 8 to 14 0mmmmmmm MM = Channel byte2 - bits0 to 6 = channel 1 to 7 0sssssss SS = 12byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent ... 11110111 F7 = End of Exclusive	O			O					O			O	X	X	

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]

MIDI Event	Data Format	MIDI Reception							MIDI Transmission				
		Voice Regular/Drum/ Natural/Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	
Section Control	F0 43 7E 00 ss dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No. 00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D 0dssssss dd = Switch On/Off 00H (Off) 7FH (On) 11110111 F7 = End of Exclusive	-			O								●
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111	-			O								●
Chord Control	F0 43 7E tt d1 d2 d3 d4 F7 Type1 (tt=02) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0dssssss d1 = chord root (cr) 0dssssss d2 = chord type (ct) 0dssssss d3 = bass note (bn) 0dssssss d4 = bass type (bt) 11110111 F7 = End of Exclusive cr: Chord Root Offnnnn fff: b or #, nnnn: note (root) 0000nnnn 0n bbb 0fff0000 x0 reserved 0001nnnn 1n bb 0fff0001 x1 C 0010nnnn 2n b 0fff0010 x2 D 0011mmn 3n natural 0fff0011 x3 E 0100nnnn 4n # 0fff0100 x4 F 0101nnnn 5n ## 0fff0101 x5 G 0110nnnn 6n ### 0fff0110 x6 A 0fff0111 x7 B ct: Chord Type 0 - 34, 127 00000000 00 0 Maj 00010010 12 18 dim7 00000001 01 1 Maj6 00010011 13 19 7th 00000010 02 2 Maj7 00010100 14 20 7sus4 00000011 03 3 Maj7 (#11) 00010101 15 21 7b5 00000100 04 4 Maj (9) 00010110 16 22 7 (9) 00000101 05 5 Maj7 (9) 00010111 17 23 7 (#11) 00000110 06 6 Maj6 (9) 00011000 18 24 7 (13) 00000111 07 7 aug 00011001 19 25 7 (b9) 00010000 08 8 min 00011010 1A 26 7 b13) 00010001 09 9 min6 00011011 1B 27 7 (#9) 0001010 0A 10 min7 00011100 1C 28 Maj7aug 0001011 0B 11 min7b5 00011101 1D 29 7aug 0001100 0C 12 min (9) 00011110 1E 30 1+8 0001101 0D 13 min7 (9) 00011111 1F 31 1+5 0001110 0E 14 min7 (11) 00100000 20 32 sus4 0001111 0F 15 minMaj7 00100001 21 33 1+2+5 00010000 10 16 minMaj7 (9) 00100010 22 34 cc 00010001 11 17 dim bn: On Bass Note Same as Chord root 127: No bass chord bt: Bass Chord Same as Chord type 127: No bass chord * 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.	-			O							●	
	Type2 (tt=03) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0dssssss dd = note1 0dssssss dd = note2 0dssssss dd = note3 0dssssss dd = note10 11110111 F7 = End of Exclusive	-			O								X

● Transmitted via panel operations

System Exclusive Messages (Others)

MIDI Event	Data Format	[MIDI]											
		Voice	MIDI Reception					MIDI Transmission					
		Regular/Drum/ Natural/Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	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				X	

Song System Exclusive Message List / Liste der System-Exclusive-Meldungen der Songs / Liste des messages exclusifs au système demorceaux

Data Format	Parameter	Description	Note
Guide			
FO 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=Karao-Key	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
Score			
FO 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.
FO 43 73 01 50 12 00 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON	
FO 43 73 01 50 12 00 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON	
FO 43 73 01 50 12 00 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON	
FO 43 73 01 50 12 00 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON	
FO 43 73 01 50 12 00 05 dd F7	Size designation	00H: SMALL, 02H: LARGE	
FO 43 73 01 50 12 00 06 dd F7	Left Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
FO 43 73 01 50 12 00 07 dd F7	Right Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
FO 43 73 01 50 12 00 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON	
FO 43 73 01 50 12 00 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second	
FO 43 73 01 50 12 00 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo	
FO 43 73 01 50 12 00 0B dd F7	Color Note	00H: OFF, 7FH: ON	
Style			
FO 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.
FO 43 73 01 51 05 00 03 04 00 00 dd dd F7	STYLE NUMBER	dd dd = Style No.	Entered when recording.
FO 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

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	Maximum 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.

MIDI Implementation Chart / MIDI-Implementierungstabelle / Tableau d'implémentation MIDI

YAMAHA [Portable Keyboard]
Model PSR-OR700 MIDI Implementation Chart

Date : 08-May-2006
Version : 1.00

Function...	Transmitted	Recognized	Remarks
Basic Channel	Default Changed	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 Portamento 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

