

**DIGITAL WORKSTATION
CLAVIER ARRANGEUR PROFESSIONNEL**
PSR-A2000
Oriental / اورينتال
Data List / Daten-Liste / Liste des données

Voice List 2 Voice-Liste Liste des voix	Effect Parameter List 38 Liste der Effektparameter Liste des paramètres d'effets
MegaVoice Map 12 Sound-Zuordnungen der MegaVoices Carte des voix Mega	Effect Data Assign Table 50 Effekt-daten-Zuordnungstabelle Tableau d'assignation des données d'effets
Drum/key Assignment List 16 Liste der Tastenzuordnungen der Schlaginstrumente Liste d'assignation instrument de batterie/touche du clavier	Parameter Chart 52 Parametertabelle Tableau des paramètres
Style List 27 Liste der Styles Liste des styles	MIDI Data Format 61 MIDI-Datenformat Format des données MIDI
Multi Pad Bank List 29 Multi-Pad-Bank-Liste Liste des banques multi-pads	Song System Exclusive Message List 76 Liste der System-Exclusive-Meldungen der Songs Liste des messages exclusifs au système demorceaux
Direct Access Chart 30 Tabelle Direktzugriff Feuille d'accès direct	Song Meta Event List 76 Liste der Meta-Events der Songs Liste des métaévénements des morceaux
Chord Types Recognized in the Fingered Mode 32 Im Fingered-Modus erkannte Akkordarten Types d'accords reconnus en mode Fingered	MIDI Implementation Chart 77 MIDI-Implementierungstabelle Tableau d'implémentation MIDI
Effect Type List 33 Liste der Effektypen Liste des types d'effet	

Voice List / Voice-Liste / Liste des voix

Panel Voice

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	
	OctavePiano1	0	113	4	Regular	
	OctavePiano2	0	114	4	Regular	
	CP80	0	113	3	Regular	
E. Piano	SparkleStack	0	121	6	Cool!	
	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	Cool!	
	SuperDX	0	117	6	Regular	
	StageEP	0	117	5	Regular	
	StereoClavi	0	114	8	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!	
	Orch&Horns	0	118	50	Regular	
	Orch&Flute	0	119	50	Regular	
	Orch&Oboe	0	121	50	Regular	
	Tutti	0	120	50	Regular	
	OrchStrings	0	113	49	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	
	SynthStrings1	0	112	51	Regular	
	SynthStrings2	0	113	51	Regular	
	Viola	0	112	42	Regular	
	Cello	0	112	43	Regular	
	Contrabass	0	112	44	Regular	
	SoloViolin	0	112	41	Regular	
	Fiddle	0	112	111	Regular	
	Harp	0	112	47	Regular	
	Hackbrett	0	113	47	Regular	
	OrchestraHit	0	112	56	Regular	
	Sitar1	0	113	105	Regular	
	Sitar2	0	112	105	Regular	
	Banjo	0	112	106	Regular	
	Koto	0	112	108	Regular	
	Shamisen	0	112	107	Regular	
	Er Hu	0	113	111	Regular	
	Pi Pa	0	119	106	Regular	
	Guitar&Bass	ClassicalGtr	0	115	25	Regular
		SteelGuitar	0	117	26	Live!
		HardFlamenco	0	118	25	Regular

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Guitar&Bass	WarmSolid	104	2	28	Cool!
	CleanSolid	104	3	28	Cool!
	GuitarHero	104	0	31	Cool!
	70'sSolidGtr	104	1	28	Cool!
	HalfDrive	104	0	30	Cool!
	HeavyRock	104	1	31	Cool!
	JazzGuitar	0	115	27	Cool!
	SlideNylon	0	117	25	Regular
	SlideSteel	0	118	26	Live!
	SlideSolid	0	110	28	Cool!
	SlideClean	0	117	29	Cool!
	Mandolin	0	114	26	Sweet!
	PowerLead	0	115	31	Cool!
	VintageLead	0	125	28	Cool!
	VintageAmp	0	115	30	Regular
	BluesGuitar	0	117	30	Cool!
	SlapSolid	0	108	28	Cool!
	DynamicNylon	0	116	25	Regular
	DynamicSteel	0	116	26	Live!
	12StringGtr	0	113	26	Live!
	PedalSteel	0	115	28	Regular
	AlohaGuitar	0	118	27	Regular
	ChorusSolid	0	107	28	Cool!
	BalladSolid	0	109	28	Cool!
	TremoloSolid	0	111	28	Cool!
	ElectricGtr	0	114	29	Cool!
	SolidChord	0	121	28	Regular
	NylonMute	0	119	25	Regular
	SteelMute	0	120	26	Live!
	DynamicMute	0	118	29	Cool!
	VintageMutedGt	0	115	29	Regular
	MutedGuitar	0	119	29	Cool!
	HeavyStack	0	114	31	Regular
	CrunchGuitar	0	113	31	Regular
	PowerChord	0	117	31	Regular
	RockGuitar	0	116	30	Regular
	VoodooLead	0	116	31	Regular
	SmoothLead	0	119	27	Regular
	CleanGuitar	0	112	28	Cool!
	FunkGuitar	0	116	29	Cool!
	SolidGuitar	0	118	28	Regular
	VintageOpen	0	123	28	Regular
	VintageStrum	0	126	28	Regular
	60'sClean	0	117	28	Regular
	TremoloGuitar	0	113	28	Regular
	WahGuitar	0	122	28	Regular
	LeadGuitar	0	114	30	Regular
	Electric12Str	0	119	28	Regular
	18String	0	119	26	Regular
	ChorusGuitar	0	124	28	Regular
	DeepChorus	0	114	28	Regular
	DistortionGtr	0	112	31	Regular
	FunkGuitar	0	113	29	Regular
	OverdriveGtr	0	112	30	Regular
	FeedbackGtr	0	113	30	Regular
	VintageTrem	0	120	28	Regular
	CampfireGtr	0	115	26	Regular
	FolkGuitar	0	112	26	Regular
	OctaveGuitar	0	113	27	Regular
	BrightClean	0	116	28	Regular
MutedGuitar	0	112	29	Regular	
SteelGuitar	8	0	2	MegaVoice	
12StringGtr	8	1	3	MegaVoice	
HiStringGtr	8	0	3	MegaVoice	
CleanGuitar	8	0	4	MegaVoice	
NylonGuitar	8	0	1	MegaVoice	
SolidGuitar1	8	1	4	MegaVoice	
SolidGuitar2	8	2	4	MegaVoice	
OverdriveGtr	8	0	5	MegaVoice	
DistortionGtr	8	0	6	MegaVoice	

Panel Voice

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Guitar&Bass	DynoPickBass	0	113	35	Cool!	
	ElectricBass	0	114	34	Cool!	
	AcousticBass	0	112	33	Regular	
	FretlessBass	0	112	36	Cool!	
	SlapBass	0	112	37	Regular	
	RockBass	0	114	35	Regular	
	PunchyBass	0	117	39	Regular	
	MellowFinger	0	112	34	Regular	
	FunkBass	0	112	38	Regular	
	SuperFretless	0	113	36	Regular	
	PickBass	0	112	35	Regular	
	FusionBass	0	113	37	Regular	
	LoBass	104	0	40	Regular	
	DarkBass	104	1	40	Regular	
	MoonBass	104	0	39	Regular	
	KickBass	104	1	39	Regular	
	ClubBass	104	2	39	Regular	
	FatPulse	104	2	40	Regular	
	WazzoSaw	104	3	81	Regular	
	DeepPoint	104	3	39	Regular	
	TightBass	104	3	40	Regular	
	Competitor	104	4	39	Regular	
	1o1Sub	104	5	39	Regular	
	LittleBassSynth	104	6	39	Regular	
	TeknoBass	104	7	39	Regular	
	PercPunch	104	8	39	Regular	
	SquareBass	104	4	40	Regular	
	TranceBass	104	9	39	Regular	
	SubCutBass	104	5	40	Regular	
	DynoAcidBass	104	10	39	Regular	
	MiniSub	104	6	40	Regular	
	FatSineRes	104	11	39	Regular	
	BalladBass	104	7	40	Regular	
	VeloMaster	104	17	82	Regular	
	SubBass	0	114	40	Regular	
	HardBass	0	114	39	Regular	
	ResoBass	0	112	39	Regular	
	HouseBass	0	116	39	Regular	
	BigDrone	0	118	39	Regular	
	TB Bass	0	117	40	Regular	
	AnalogBass	0	112	40	Regular	
	DrySynthBass	0	116	40	Regular	
	80'sSynthBass	0	115	40	Regular	
	HiQBass	0	113	39	Regular	
	ClickBass	0	115	39	Regular	
	Bass&Cymbal	0	114	33	Regular	
	AcousticBass	8	0	17	MegaVoice	
	ElectricBass	8	0	18	MegaVoice	
	PickBass	8	0	19	MegaVoice	
	FretlessBass	8	0	20	MegaVoice	
	Saxophone	Saxophone	104	0	67	Sweet!
		PopTenor	0	127	67	Sweet!
		BalladTenor	0	126	67	Sweet!
		JazzTenor	0	125	67	Sweet!
		SaxSection	0	116	67	Live!
		SopranoSax	0	113	65	Sweet!
		AltoSax	0	114	66	Sweet!
		TenorSax	0	117	67	Sweet!
		GrowlSax	0	111	67	Sweet!
		SaxAppeal	0	123	67	Live!
		SaxSectionSoft	0	121	67	Live!
		SaxSectionHard	0	122	67	Live!
		BalladSection	0	119	67	Regular
		SaxyMood	0	120	67	Regular
		Moonlight	0	115	72	Regular
		GrowlSax	0	118	67	Regular
		SopranoSax	0	112	65	Regular
AltoSax		0	112	66	Regular	
TenorSax		0	112	67	Regular	
BaritoneSax		0	112	68	Regular	
Saxophone		WoodwindsEns	0	113	67	Regular
		TenorSax	8	0	83	MegaVoice
Flute&Woodwind		Flute	0	114	74	Sweet!
		Clarinet	0	114	72	Sweet!
		Oboe	0	113	69	Sweet!
		EnglishHorn	0	112	70	Regular
		Bassoon	0	112	71	Regular
		PanFlute	0	113	76	Sweet!
		ClassicalFlute	0	115	74	Sweet!
		FluteEnsemble	0	116	74	Regular
		Piccolo	0	112	73	Regular
		Bagpipe	0	112	110	Regular
		Flute	0	112	74	Regular
	Clarinet	0	112	72	Regular	
	Oboe	0	112	69	Regular	
	Recorder	0	112	75	Regular	
	Ocarina	0	112	80	Regular	
	PanFlute	0	113	74	Regular	
	Whistle	0	112	79	Regular	
	Shakuhachi	0	112	78	Regular	
	Di Zi	0	118	74	Regular	
Sheng	0	116	110	Regular		
EthnicFlute	0	112	76	Regular		
Organ&Accordion	Organ	0	118	19	Cool!	
	JazzOrgan	0	117	17	Cool!	
	RotorOrgan	0	117	19	Cool!	
	FullRocker	0	115	19	Cool!	
	EuroOrgan	0	118	17	Regular	
	RotaryDrive	0	116	19	Regular	
	RockOrgan1	0	112	19	Regular	
	DanceOrgan	0	113	18	Regular	
	GospelOrgan	0	119	17	Regular	
	PurpleOrgan	0	114	19	Regular	
	JazzOrgan1	0	112	17	Regular	
	JazzOrgan2	0	113	17	Regular	
	JazzOrgan3	0	120	17	Regular	
	MellowDraw	0	115	18	Regular	
	BrightDraw	0	116	17	Regular	
	60'sOrgan	0	116	18	Regular	
	ElectricOrgan	0	118	18	Regular	
	DrawbarOrgan	0	115	17	Regular	
	ClickOrgan	0	112	18	Regular	
	RockOrgan2	0	113	19	Regular	
	ChapelOrgan1	0	113	20	Regular	
	ChapelOrgan2	0	114	20	Regular	
	ChapelOrgan3	0	115	20	Regular	
	Harmonium Double	0	114	21	Regular	
	Harmonium Triple	0	115	21	Regular	
	PipeOrgan	0	112	20	Regular	
	ReedOrgan	0	112	21	Regular	
	Tibia 16&4 Acmp	0	114	17	Regular	
	Tibia Full Acmp	0	114	18	Regular	
	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	
	Harmonica	0	112	23	Sweet!	
	Accordion	0	116	22	Regular	
	SoftAccordion	0	114	22	Regular	
	Bandoneon	0	113	24	Regular	
	ModernHarp	0	113	23	Regular	
	BluesHarp	0	114	23	Regular	
	Trumpet	GoldenTrumpet	0	122	57	Sweet!
		SilverTrumpet	0	121	57	Sweet!
		MellowTrumpet	0	120	57	Sweet!
Trumpet		0	115	57	Sweet!	
Trombone		0	117	58	Sweet!	
FlugelHorn		0	118	57	Sweet!	
MutedTrumpet		0	114	60	Sweet!	

Panel Voice

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Trumpet	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	
	MutedTrumpet	0	112	60	Regular	
	FlugelHorn	0	113	57	Regular	
	BaritoneHorn	0	113	59	Regular	
	BaritoneHit	0	114	59	Regular	
	AlpBass	0	113	34	Regular	
	Tuba	0	112	59	Regular	
	Trumpet	8	0	65	MegaVoice	
	Brass	HyperBrass	0	118	63	Live!
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	
NaturalBrass		0	124	62	Regular	
Sforzando		0	125	62	Regular	
BigBrass		0	121	62	Regular	
BallroomBrass		0	113	60	Regular	
BrightBrass		0	120	62	Regular	
MellowBrass		0	116	62	Regular	
80'sBrass		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	
Choir&Pad		GospelVoices	0	116	53	Regular
		Voices	0	113	55	Regular
		HahChoir	0	114	53	Regular
	SweetHeaven	0	118	89	Regular	
	DreamHeaven	0	121	89	Regular	
	VoxHumana	0	112	54	Regular	
	GothicVox	0	113	54	Regular	
	BellHeaven	0	119	89	Regular	
	PanHeaven	0	120	89	Regular	
	ProHeaven	0	122	89	Regular	
	CrossPhase	104	1	102	Regular	
	GalaxyPad	104	3	89	Regular	
	NightMotion	104	4	89	Regular	
	MorningDew	104	0	95	Regular	
	Aerosphere	104	1	95	Regular	
	NewAtmosphere	104	4	90	Regular	
	VPSoft	104	0	90	Regular	
	HotSwell	104	2	96	Regular	
	DarkFatSaw	104	2	90	Regular	
	VaporPad	104	1	90	Regular	
	SpaceRider	104	1	96	Regular	
	PearlsPad	104	2	89	Regular	
	BreathPad	104	0	92	Regular	
	NobleMan	104	1	89	Regular	
	DouxFlange	104	3	96	Regular	
	LightPad	104	2	52	Regular	
	ButterStrings	104	2	51	Regular	
	MediumTunePad	104	0	51	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Choir&Pad	NylonPad	104	0	100	Regular
	DarkLight	104	3	90	Regular
	AnaDayz	104	3	52	Regular
	BrightPadTrance	104	4	91	Regular
	OctStrings	104	4	51	Regular
	ChillinChords	104	6	52	Regular
	BrightPopPad	104	3	51	Regular
	PremiumPad	104	0	52	Regular
	SoftEnsemble	104	1	51	Regular
	80'sPad	104	1	52	Regular
	BrightPadClassic	104	3	91	Regular
	AmbientPad	104	0	89	Regular
	BrightFatSaw	104	5	91	Regular
	TranceMW	104	0	96	Regular
	EarlyDigital	104	0	94	Regular
	Bellsphere	104	5	89	Regular
	SixthSense	104	2	102	Regular
	PercPad	104	0	102	Regular
	SuperDarkPad	0	119	90	Regular
	AnalogPad	0	120	90	Regular
	DarkAngelPad	0	121	90	Regular
	LitePad	0	122	90	Regular
	PopPad	0	112	91	Regular
	GloriousPhase	0	114	91	Regular
	AnalogSwell	0	119	96	Regular
	Skydiver	0	112	102	Regular
	HipaStrings	0	114	96	Regular
	BrightSawPad	0	113	91	Regular
	BigOctavePad	0	115	91	Regular
	GoldenAge	0	115	89	Regular
	Solaris	0	114	95	Regular
	Insomnia	0	113	95	Regular
	Mediterrain	0	114	100	Regular
	OberSweep	0	115	96	Regular
	TimeTravel	0	116	89	Regular
	Bubblespace	0	113	102	Regular
	MellowPad	0	117	96	Regular
	NeoWarmPad	0	115	90	Regular
	CyberPad	0	113	100	Regular
	BrightOber	0	113	96	Regular
	Millennium	0	117	89	Regular
	DarkPad	0	118	96	Regular
	Choir	0	112	53	Regular
	AirChoir	0	112	55	Regular
	Sirius	0	114	102	Regular
	Messenger	0	116	96	Regular
	Wave2001	0	112	96	Regular
	FarEast	0	112	98	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	
Dunes	0	114	90	Regular	
Synth&FX	ClubLead	104	3	63	Regular
	HPFDance	104	0	91	Regular
	DetunedSawOct	104	8	82	Regular
	DancyHook	104	9	82	Regular
	VinalogSaw	104	3	82	Regular
	TalkModLead	104	0	88	Regular
	SubLead	104	0	81	Regular
	SoftSaw	104	16	82	Regular
	FusionLead	104	15	82	Regular
	BleepLead	104	0	85	Regular

Panel Voice

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth&FX	Oxygen	0	122	82	Regular
	Matrix	0	123	82	Regular
	WireLead	0	120	82	Regular
	SoftR&B	0	119	81	Regular
	EarlyLead	0	118	82	Regular
	LektroCodes	104	2	85	Regular
	SimpleComp	104	12	82	Regular
	BalladComp	104	6	89	Regular
	HeavenBell	104	0	101	Regular
	BrightPadBell	104	7	89	Regular
	SoftSquare	104	5	81	Regular
	WildPWM	104	4	81	Regular
	DetunedVintage	104	1	85	Regular
	PWMLead	104	1	82	Regular
	BrassyLead	104	5	63	Regular
	PunchLead	104	7	82	Regular
	FlangeFilter	104	2	82	Regular
	MouthLead	104	0	82	Regular
	ResonantClavi	104	2	91	Regular
	ResonanceComp	104	4	63	Regular
	TrancePerc	104	5	82	Regular
	Chordmaster	104	13	82	Regular
	DigitalSeq	104	2	88	Regular
	AnalogSeq	104	3	88	Regular
	TranceSeq1	104	4	88	Regular
	TranceSeq2	104	5	88	Regular
	TranceSeq3	104	1	91	Regular
	PercSeqFS	104	6	88	Regular
	PercSeqFM1	104	7	88	Regular
	PercSeqFM2	104	8	88	Regular
	SynthSticks	104	0	107	Regular
	SazFeeze	104	0	98	Regular
	EasternAir	104	1	98	Regular
	Xtune	104	1	88	Regular
	PitchFall	104	0	104	Regular
	PercSeqSaw	104	11	82	Regular
	PercSeqHipa	104	9	88	Regular
	Attack	104	4	82	Regular
	PWMPercussion	104	6	82	Regular
	Nomad	104	1	105	Regular
	ChorusSawLead	104	10	82	Regular
	FaaatComp	104	4	52	Regular
	FatSawHook	104	7	52	Regular
	TechGlide	104	14	82	Regular
	DanceChords	104	5	52	Regular
	DanceHook	0	112	87	Regular
	OctaveHook	0	113	87	Regular
	HipaLead	0	118	85	Regular
	PunchyHook	0	127	82	Regular
	CryingLead	0	114	88	Regular
	HipLead	0	113	81	Regular
	HopLead	0	117	81	Regular
	TechLead	0	117	85	Regular
	Tekkline	0	116	85	Regular
SoftMini	0	124	81	Regular	
TranceLead	0	121	81	Regular	
FireWire	0	116	82	Regular	
Analogon	0	115	82	Regular	
Skyline	0	115	85	Regular	
OrbitSine	0	126	81	Regular	
Blaster	0	114	82	Regular	
SawLead	0	112	82	Regular	
SquareLead	0	112	81	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	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth&FX	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
	JazzDraw!	0	126	17	OrganFlutes
	BluesOrgan!	0	126	17	OrganFlutes
SixteenOne!	0	126	17	OrganFlutes	
EvenBars!	0	126	17	OrganFlutes	
PopOrgan!	0	126	17	OrganFlutes	
RockingOrg!	0	126	17	OrganFlutes	
Percussive!	0	126	17	OrganFlutes	
GospelOrg!	0	126	17	OrganFlutes	
PadOrgan!	0	126	17	OrganFlutes	
FullRanks!	0	126	17	OrganFlutes	
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	
Perc&Drum	ArabicKit1	126	0	37	SFX Kit
	KhaligiKit	126	0	38	SFX Kit
	IranianKit	126	0	39	SFX Kit
	ArabicKit2	126	0	36	SFX Kit
	TurkishKit	126	0	68	SFX Kit
	ArabicMixKit	126	0	65	SFX Kit
	KhaligiMixKit	126	0	66	SFX Kit
IranianMixKit	126	0	67	SFX Kit	

Panel Voice

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Perc&Drum	IndianKit	126	0	115	SFX Kit
	CubanKit	126	0	41	SFX Kit
	AnalogT8Kit	127	0	59	Drums
	BreakKit	127	0	58	Drums
	DanceKit	127	0	28	Drums
	AnalogKit	127	0	26	Drums
	ChineseKit	126	0	125	SFX Kit
	AnalogT9Kit	127	0	60	Drums
	HipHopKit	127	0	57	Drums
	ElectroKit	127	0	25	Drums
	PopLatinKit	126	0	44	SFX Kit
	ChineseMixtureKit	127	0	128	SFX Kit
	Vibraphone	0	112	12	Regular
	JazzVibes	0	113	12	Regular
	Suspense	0	114	12	Regular
	Marimba	0	112	13	Regular
	Xylophone	0	112	14	Regular
	SteelDrums	0	112	115	Regular
	Celesta	0	112	9	Regular
	Glockenspiel	0	112	10	Regular
	MusicBox	0	112	11	Regular
	TubularBells	0	112	15	Regular
	Kalimba	0	112	109	Regular
	Dulcimer	0	112	16	Regular
	Timpani	0	112	48	Regular
	PowerKit1	127	0	88	Drums
	PowerKit2	127	0	89	Drums
	StandardKit1	127	0	1	Drums
	StandardKit2	127	0	2	Drums
	BrushKit	127	0	41	Drums
	SymphonyKit	127	0	49	Drums
	StudioKit	127	0	87	Drums
	HitKit	127	0	5	Drums
	JazzKit	127	0	33	Drums
RoomKit	127	0	9	Drums	
RockKit	127	0	17	Drums	
SFX Kit1	126	0	1	SFX Kit	
SFX Kit2	126	0	2	SFX Kit	
OrganFlutes	JazzDraw!	0	121	18	OrganFlutes
	BluesOrgan!	0	110	17	OrganFlutes
	Sixteen&One!	0	109	17	OrganFlutes
	EvenBars!	0	108	17	OrganFlutes
	PopOrgan!	0	107	17	OrganFlutes
	RockingOrgan!	0	106	17	OrganFlutes
	Percussive!	0	117	18	OrganFlutes
	GospelOrgan!	0	110	19	OrganFlutes
	PadOrgan!	0	105	17	OrganFlutes
	FullRanks!	0	104	17	OrganFlutes

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	

GM & XG

Category	Voice Name	Voice Number			Voice Type		
		MSB	LSB	PRG			
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		
	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	Regular
			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		
TremOrchstra	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		

GM & XG

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	

GM & XG

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	
	SoundEffect	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
DetDrawOrgan		121	1	17	Regular
It60'sOrgan		121	2	17	Regular
DrawbarOrg2		121	3	17	Regular
Perc.Organ		121	0	18	Regular
DetPercOrgan		121	1	18	Regular
Perc.Organ2		121	2	18	Regular
RockOrgan		121	0	19	Regular
ChurchOrgan		121	0	20	Regular
ChrchOrgOctM		121	1	20	Regular
DetChurchOrg		121	2	20	Regular
ReedOrgan		121	0	21	Regular
PuffOrgan		121	1	21	Regular
Accordion		121	0	22	Regular
Accordion2		121	1	22	Regular
Harmonica		121	0	23	Regular
TangoAccord		121	0	24	Regular
Guitar	NylonGuitar	121	0	25	Regular
	Ukulele	121	1	25	Regular
	NylonGtrKOff	121	2	25	Regular
	NylonGuitar2	121	3	25	Regular
	SteelGuitar	121	0	26	Regular
	12StrGuitar	121	1	26	Regular
	Mandolin	121	2	26	Regular
	Steel&Body	121	3	26	Regular
	JazzGuitar	121	0	27	Regular
	PedlSteelGtr	121	1	27	Regular
	CleanGuitar	121	0	28	Regular
	DetCleanGtr	121	1	28	Regular
	MidToneGtr	121	2	28	Regular
	MutedGuitar	121	0	29	Regular
	FunkGuitar	121	1	29	Regular
	MutedV-SwGtr	121	2	29	Regular
	JazzMan	121	3	29	Regular

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
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
	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
StringsBrass		121	1	49	Regular
60'sStrings		121	2	49	Regular
Strings2		121	0	50	Regular
SynStrings1		121	0	51	Regular
SynStrings3		121	1	51	Regular
SynStrings2		121	0	52	Regular
ChoirAahs		121	0	53	Regular
ChoirAahs2		121	1	53	Regular
VoiceOohs		121	0	54	Regular
Humming		121	1	54	Regular
SynthVoice		121	0	55	Regular
AnalogVoice		121	1	55	Regular
OrchestraHit		121	0	56	Regular
BassHitPlus	121	1	56	Regular	
6thHit	121	2	56	Regular	
EuroHit	121	3	56	Regular	
Brass	Trumpet	121	0	57	Regular
	DarkTpSoft	121	1	57	Regular
	Trombone	121	0	58	Regular
	Trombone2	121	1	58	Regular
	BriteTrombon	121	2	58	Regular
	Tuba	121	0	59	Regular
	MutedTrumpet	121	0	60	Regular
	MuteTrumpet2	121	1	60	Regular
	FrenchHorn	121	0	61	Regular
	FrenchHorn2	121	1	61	Regular
	BrassSection	121	0	62	Regular
	BrassSect2	121	1	62	Regular
	SynthBrass1	121	0	63	Regular
	SynthBrass3	121	1	63	Regular
	AnaSynBrass1	121	2	63	Regular
	JumpBrass	121	3	63	Regular
SynthBrass2	121	0	64	Regular	
SynthBrass4	121	1	64	Regular	
AnaSynBrass2	121	2	64	Regular	

GM2

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

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
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	
Drum	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	SFX Kit	

MegaVoice Map / Sound-Zuordnungen der MegaVoices / Carte des voix Mega

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

 : No Sound

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

 : No Sound

MSB (0-127)	8		
LSB (0-127)	0		
PRG (0-127)	82		
PRG (1-128)	83		
Voice Name	Mega TenorSax		
Key Range	below B5	above C6	above C8
127	127	127	127
120	Falls		
110			
100	101 100		
90	Growl		
80	81 80		
70	Legato		
60	61 60	Valve Noise (C6-B6 Key On Noise, C7-B7 Key Off Noise)	Breath Noise
50	f		
40	41 40		
30	mf		
20	21 20		
10	mp		
1	1	1	1

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		
Bank Select LSB (0-127)			0			0			0			0		
Program Change (0-127)			0			1			4			8		
Program Change (1-128)			1			2			5			9		
MIDI														
Note#	Note	Keyboard Note	StandardKit1	Key Off (*1)	Alternate Group (*2)	StandardKit2	Key Off (*1)	Alternate Group (*2)	HitKit	Key Off (*1)	Alternate Group (*2)	RoomKit	Key Off (*1)	Alternate Group (*2)
13	C#-1	C#0	Surdo Mute		3									
14	D-1	D0	Surdo Open		3									
15	D#-1	D#0	Hi Q											
16	E-1	E0	Whip Slap											
17	F-1	F0	Scratch H		4									
18	F#-1	F#0	Scratch L		4									
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	●										
29	F0	F1	Snare Roll	●										
30	F#0	F#1	Castanet											
31	G0	G1	Snare Soft			Snare Soft 2			Snare Electro					
32	G#0	G#1	Sticks											
33	A0	A1	Kick Soft						Kick Tight L					
34	A#0	A#1	Open Rim Shot			Open Rim Shot H Short			Snare Pitched					
35	B0	B1	Kick Tight						Kick Wet					
36	C1	C2	Kick			Kick Short			Kick Tight H					
37	C#1	C#2	Side Stick			Side Stick Light			Stick Ambient					
38	D1	D2	Snare			Snare Short			Snare Ambient			Snare Snappy		
39	D#1	D#2	Hand Clap											
40	E1	E2	Snare Tight			Snare Tight H			Snare Tight 2			Snare Tight Snappy		
41	F1	F2	Floor Tom L						Hybrid Tom 1			Tom Room 1		
42	F#1	F#2	Hi-Hat Closed		1				Hi-Hat Closed 2		1			
43	G1	G2	Floor Tom H						Hybrid Tom 2			Tom Room 2		
44	G#1	G#2	Hi-Hat Pedal		1				Hi-Hat Pedal 2		1			
45	A1	A2	Low Tom						Hybrid Tom 3			Tom Room 3		
46	A#1	A#2	Hi-Hat Open		1				Hi-Hat Open 2		1			
47	B1	B2	Mid Tom L						Hybrid Tom 4			Tom Room 4		
48	C2	C3	Mid Tom H						Hybrid Tom 5			Tom Room 5		
49	C#2	C#3	Crash Cymbal 1											
50	D2	D3	High Tom						Hybrid Tom 6			Tom Room 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											
79	G4	G5	Cuica Open											
80	G#4	G#5	Triangle Mute		2									
81	A4	A5	Triangle Open		2									
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)												

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

Panel Drum Kit/XG Drum Kit

Bank Select MSB (0-127)			127			127			127			127		
Bank Select LSB (0-127)			0			0			0			0		
Program Change (0-127)			16			24			25			27		
Program Change (1-128)			17			25			26			28		
MIDI		Keyboard Note	RockKit	Key Off (*1)	Alternate Group (*2)	ElectroKit	Key Off (*1)	Alternate Group (*2)	AnalogKit	Key Off (*1)	Alternate Group (*2)	DanceKit	Key Off (*1)	Alternate Group (*2)
Note#	Note													
13	C#-1	C#0										Kick Dance 1		
14	D-1	D0										Kick Dance 2		
15	D#-1	D#0												
16	E-1	E0										Whip Slap	●	
17	F-1	F0										Scratch Dance 1	●	
18	F#-1	F#0										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	●		Reverse Cymbal	●		Reverse Cymbal	●	
29	F0	F1										Reverse Dance 2	●	
30	F#0	F#1				Hi Q 2			Hi Q 2			Hi Q 2		
31	G0	G1	Snare Noisy			Snare Snappy Electro			Snare Noisy 4			Snare Techno		
32	G#0	G#1										Snare Dance 1		
33	A0	A1				Kick 3			Kick 3			Kick Techno Q		
34	A#0	A#1										Rim Gate		
35	B0	B1	Kick 2			Kick Gate			Kick Analog Short			Kick Techno L		
36	C1	C2	Kick Gate			Kick Gate Heavy			Kick Analog			Kick Techno		
37	C#1	C#2							Side Stick Analog			Side Stick Analog		
38	D1	D2	Snare Rock			Snare Noisy 2			Snare Analog			Snare Clap		
39	D#1	D#2										Dance Clap		
40	E1	E2	Snare Rock Tight			Snare Noisy 3			Snare Analog 2			Snare Dry		
41	F1	F2	Tom Rock 1			Tom Electro 1			Tom Analog 1			Tom Analog 1		
42	F#1	F#2							Hi-Hat Closed Analog	1		Hi-Hat Closed 3		1
43	G1	G2	Tom Rock 2			Tom Electro 2			Tom Analog 2			Tom Analog 2		
44	G#1	G#2							Hi-Hat Closed Analog 2	1		Hi-Hat Closed Analog 3		1
45	A1	A2	Tom Rock 3			Tom Electro 3			Tom Analog 3			Tom Analog 3		
46	A#1	A#2							Hi-Hat Open Analog	1		Hi-Hat Open 3		1
47	B1	B2	Tom Rock 4			Tom Electro 4			Tom Analog 4			Tom Analog 4		
48	C2	C3	Tom Rock 5			Tom Electro 5			Tom Analog 5			Tom Analog 5		
49	C#2	C#3							Crash Analog			Crash Analog		
50	D2	D3	Tom Rock 6			Tom Electro 6			Tom Analog 6			Tom Analog 6		
51	D#2	D#3												
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												
58	A#2	A#3										Vibraslap Analog		
59	B2	B3										Ride Analog		
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			Scratch H 2			Dance Breath 1		
79	G4	G5				Scratch L 2			Scratch L 2			Dance Breath 2	●	
80	G#4	G#5												
81	A4	A5												
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 "●" 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.

Same as Standard Kit1 No Sound

Panel Drum Kit/XG Drum Kit

Bank Select MSB (0-127)			127			127			127			127		
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	JazzKit	Key Off (*1)	Alternate Group (*2)	BrushKit	Key Off (*1)	Alternate Group (*2)	SymphonyKit	Key Off (*1)	Alternate Group (*2)	HipHopKit	Key Off (*1)	Alternate Group (*2)
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										Hi-Hat Closed T8 2		4
20	G#-1	G#0										Tom T8 3		
21	A-1	A0										Hi-Hat Open T8 2		4
22	A#-1	A#0										Tom T8 6		
23	B-1	B0										Crash T8		
24	C0	C1										Triangle Mute		1
25	C#0	C#1										Triangle Open		1
26	D0	D1										Bell Tree		
27	D#0	D#1										Tambourine RX5		
28	E0	E1										Tambourine RX5 2		
29	F0	F1										Kick HipHop 9		
30	F#0	F#1										Hi-Hat Closed Tek		3
31	G0	G1	Snare Jazz H			Brush Slap 2						Kick Gate		
32	G#0	G#1										Hi-Hat Open Lo-Fi		3
33	A0	A1							Kick Soft 2			Kick Gran Casa Open		
34	A#0	A#1				Open Rim Shot Light						Hi-Hat Reverse Drum&Bass		
35	B0	B1							Gran Cassa			Kick HipHop 1		
36	C1	C2	Kick Jazz			Kick Jazz			Gran Cassa Mute			Kick Analog CR		
37	C#1	C#2	Side Stick Light			Side Stick Light						Snare Analog Sm Rim		
38	D1	D2	Snare Jazz L			Brush Slap 3			Band Snare			Snare HipHop 1		
39	D#1	D#2										Snare Clappy		
40	E1	E2	Snare Jazz M			Brush Tap 2			Band Snare 2			Snare HipHop 2		
41	F1	F2				Tom Brush 1								
42	F#1	F#2										Hi-Hat Closed Hip		2
43	G1	G2				Tom Brush 2						Low Tom		
44	G#1	G#2										Hi-Hat Pedal Hip		2
45	A1	A2				Tom Brush 3						Mid Tom L		
46	A#1	A#2										Hi-Hat Open Hip		2
47	B1	B2				Tom Brush 4						High Tom		
48	C2	C3				Tom Brush 5						Ride Cymbal 3		
49	C#2	C#3							Hand Cymbal			Crash Cymbal 3		
50	D2	D3				Tom Brush 6						Shaker 2		
51	D#2	D#3										Scratch Bass Drum Forward		
52	E2	E3										Scratch Bass Drum Reverse		
53	F2	F3										Kick HipHop 2		
54	F#2	F#3										Snare HipHop Rim 2		
55	G2	G3										HipHop Clap 2		
56	G#2	G#3										HipHop Snap 1		
57	A2	A3							Hand Cymbal 2			Snare HipHop 3		
58	A#2	A#3										Electric Clap 2		
59	B2	B3							Hand Cymbal Short 2			Kick Hip Deep		
60	C3	C4										Kick HipHop 3		
61	C#3	C#4										Snare HipHop Rim 3		
62	D3	D4										Snare HipHop 5		
63	D#3	D#4										Electric Clap 1		
64	E3	E4										Handbell H		
65	F3	F4										Kick HipHop 4		
66	F#3	F#4										HipHop Clap 3		
67	G3	G4										HipHop Snap 2		
68	G#3	G#4										Snare HipHop Rim 5		
69	A3	A4										HipHop flex 1		
70	A#3	A#4										HipHop flex 2		
71	B3	B4										Shaker 2		
72	C4	C5										Kick HipHop 5		
73	C#4	C#5										Snare HipHop Rim 4		
74	D4	D5										Snare HipHop 6		
75	D#4	D#5										Snare HipHop 11		
76	E4	E5										Kick HipHop 10		
77	F4	F5										Snare HipHop 7		
78	F#4	F#5										HipHop Clap 5		
79	G4	G5										Conga H Tip		
80	G#4	G#5										Conga H Heel		
81	A4	A5										Conga H Open		
82	A#4	A#5										Conga L Open 1		
83	B4	B5										Conga L Open 2		
84	C5	C6										Kick HipHop 8		
85	C#5 (C#6)											HipHop Clap 6		
86	D5 (D6)											Snare T8 1		
87	D#5 (D#6)											Snare T8 1 H		
88	E5 (E6)											HipHop Clap 7		
89	F5 (F6)											Tom T8 1		
90	F#5 (F#6)											Hi-Hat Closed T8 2		
91	G5 (G6)											Tom T8 2		

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

Panel Drum Kit/XG Drum Kit

Bank Select MSB (0-127)			127			127			127			127		
Bank Select LSB (0-127)			0			0			0			0		
Program Change (0-127)			57			58			59			86		
Program Change (1-128)			58			59			60			87		
MIDI			BreakKit	Key Off (*1)	Alternate Group (*2)	AnalogT8Kit	Key Off (*1)	Alternate Group (*2)	AnalogT9Kit	Key Off (*1)	Alternate Group (*2)	StudioKit	Key Off (*1)	Alternate Group (*2)
Note#	Note	Keyboard 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				Snare Hammer			Snare Drum&Bass 1					
20	G#-1	G#0	Snare Break 8			Kick ZapHard			Kick Break 2					
21	A-1	A0	Snare Break 9			Snare Garg L			Snare Distortion					
22	A#-1	A#0	Hi-Hat Closed Break 1	●		Kick TekPower			Kick TekPower					
23	B-1	B0	Hi-Hat Closed Break 2	●		Kick Slimy			Kick Distortion RM					
24	C0	C1	Kick Break Deep			Kick T8 1			Kick T9 2					
25	C#0	C#1	Snare Hip			Snare Analog CR			Snare Analog CR					
26	D0	D1	Snare Lo-Fi			Snare T8 4			Snare T9 5					
27	D#0	D#1	Snare Clappy			Snare Clap Analog			Clap Analog Sm					
28	E0	E1	Snare LdwH Mono			Snare T8 3			Snare T9 Gate					
29	F0	F1	Snare Rock Roll	●		Tom T8 5			Snare Rock Roll	●				
30	F#0	F#1	Snare Gate 1			Snare T8 5			Snare T9 3					
31	G0	G1	Snare Mid			Kick T8 3			Snare T9 4			Snare Studio L		
32	G#0	G#1	Snare Break Rim			Snare T8 4			Snare T9 Gate					
33	A0	A1	Kick Break Heavy			Kick T8 2			Kick T9 4			Kick Amb H		
34	A#0	A#1	Snare Hip Rim 4			Snare T8 3			Snare T9 5					
35	B0	B1	Kick Break 2			T8 Kick Bass			Kick T9 1			Kick Amb L		
36	C1	C2	Kick Break 1			Kick T8 1			Kick T9 3			Kick Studio		
37	C#1	C#2	Snare Hip Rim 1			Snare T8 Rim			Snare T9 Rim					
38	D1	D2	Snare Break 3			Snare T8 2			Snare T9 1			Snare Studio M		
39	D#1	D#2	Snare Break 1			Clap T9			Clap T9					
40	E1	E2	Snare Break 2			Snare T8 1			Snare T9 2			Snare Studio L		
41	F1	F2	Tom Break 1			Tom T8 1			Tom T9 1					
42	F#1	F#2	Hi-Hat Closed Rock Soft		1	Hi-Hat Closed T8		1	Hi-Hat Closed T9		1			
43	G1	G2	Tom Break 2			Tom T8 2			Tom T9 2					
44	G#1	G#2	Hi-Hat Pedal Rock		1	Hi-Hat Pedal T8		1	Hi-Hat Pedal T9		1			
45	A1	A2	Tom Break 3			Tom T8 3			Tom T9 3					
46	A#1	A#2	Hi-Hat Half Open Rock		1	Hi-Hat Open T8		1	Hi-Hat Open T9		1			
47	B1	B2	Tom Break 4			Tom T8 4			Tom T9 4					
48	C2	C3	Tom Break 5			Tom T8 6			Tom T9 5					
49	C#2	C#3	Crash Cymbal 2			Crash T8			Crash T9					
50	D2	D3	Tom Break 6			Tom T8 7			Tom T9 6					
51	D#2	D#3	Ride Cymbal 3			Ride T9			Ride T9					
52	E2	E3	Chinese Cymbal 2			Chinese Cymbal 2			Chinese Cymbal 2					
53	F2	F3	Ride Cymbal Cup 2			Ride Cymbal Cup 2			Ride Cymbal Cup 2					
54	F#2	F#3	Tambourine 1 Hit			Tambourine RX5			Tambourine RX5					
55	G2	G3	Crash Cymbal 3						Crash Cymbal 3					
56	G#2	G#3	Cowbell 1			Cowbell T8			Cowbell 1					
57	A2	A3				Crash Cymbal 4			Crash Cymbal 4					
58	A#2	A#3	Cowbell RX11						Cowbell T8					
59	B2	B3				Ride Cymbal 3			Ride Cymbal 3					
60	C3	C4				Conga T8 5			Conga T8 5					
61	C#3	C#4				Conga T8 4			Conga T8 4					
62	D3	D4	Conga H Tip			Conga T8 3			Conga T8 3					
63	D#3	D#4	Conga H Open Slap			Conga T8 2			Conga Open Slap					
64	E3	E4	Conga H Open			Conga T8 1			Conga Open					
65	F3	F4	Bongo 2 H											
66	F#3	F#4	Bongo 2 L											
67	G3	G4	Conga Open			Glass H			Analog Click					
68	G#3	G#4				Glass L			Conga T8 1					
69	A3	A4												
70	A#3	A#4	Maracas Slur			Maracas T8			Maracas Slur					
71	B3	B4	Timbale H			FxGun 2	●		FxGun 2	●				
72	C4	C5	Timbale L			FxGun 1	●		FxGun 1	●				
73	C#4	C#5	Scratch H 2	●		Analog Shaker H	●		Scratch H 2	●				
74	D4	D5	Scratch Down	●		Analog Shaker L	●		Scratch Down	●				
75	D#4	D#5	Clave			Clave T8			Hi Q 3					
76	E4	E5				Hi Q 1			Hi Q 1					
77	F4	F5				Hi Q 2			Hi Q 2					
78	F#4	F#5	Scratch L			Scratch L			Scratch L					
79	G4	G5	Scratch L 2			Scratch L 2			Scratch L 2					
80	G#4	G#5												
81	A4	A5												
82	A#4	A#5	Kick Break 3			Analog Shaker			Analog Shaker					
83	B4	B5	Kick Break 4			Sleigh Bell			Sleigh Bell					
84	C5	C6	Kick Break 5	●										
85	C#5	(C#6)	Kick Break 6			Snare Hip 1			Snare Piccolo					
86	D5	(D6)	Kick Break 7			Snare Hip 2			Snare T8 5					
87	D#5	(D#6)	Hi-Hat Closed Break 3			Snare Hip Gate			Snare Rock Roll Distortion					
88	E5	(E6)	Snare Break 4			Snare Break 1			Snare Brush Mute					
89	F5	(F6)	Snare Break 5			Kick Blip			Kick Blip Hard					
90	F#5	(F#6)	Snare Break 6			Snare FX 1			Snare Jungle 1					
91	G5	(G6)	Snare Break 7			Kick FxHammer			Kick Sustain					

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

Panel Drum Kit/XG Drum Kit

Bank Select MSB (0-127)			126			126			126			126		
Bank Select LSB (0-127)			0			0			0			0		
Program Change (0-127)			1			35			36			37		
Program Change (1-128)			2			36			37			38		
MIDI														
Note#	Note	Keyboard Note	SFXKit2	Key Off (*1)	Alternate Group (*2)	ArabicKit2	Key Off (*1)	Alternate Group (*2)	ArabicKit1	Key Off (*1)	Alternate Group (*2)	KhaligiKit	Key Off (*1)	Alternate Group (*2)
13	C#-1	C#0							Zarb Back mf			Khlg Bongo L Dom		
14	D-1	D0							Zarb Tom f			Khlg Bongo L Tak		
15	D#-1	D#0							Zarb Eshareh			Khlg Bongo H Sak		
16	E-1	E0							Zarb Whipping			Khlg Bongo H Dom		
17	F-1	F0							Tombak Tom f			Tabel Lewa H Sak		
18	F#-1	F#0							Neghareh Tom f			Khlg Bongo Snap		
19	G-1	G0							Tombak Back f			Tabel Lewa H Dom		
20	G#-1	G#0							Neghareh Back f			Lewa Cymbal 2		
21	A-1	A0							Tombak Snap f			Tabel Lewa Bg Dom		6
22	A#-1	A#0							Neghareh Pelang f			Lewa Cymbal 1		
23	B-1	B0							Tombak Trill	●		Tabel Lewa Bg Tak		6
24	C0	C1				Nakarazan Dom			Khaligi Clap 1			Tablah Big Dom 1		1
25	C#0	C#1				Cabasa			Arabic Zalgouta Open	●		Tablah Big Tak 1		
26	D0	D1				Nakarazan Edge			Khaligi Clap 2			Tablah Big Sak 1		1
27	D#0	D#1				Hager Dom			Arabic Zalgouta Close			Tablah Big Dom 2		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		2
30	F#0	F#1				Bongo L			Sagat 1			Tablah Smll Snp 2		
31	G0	G1				Conga H Mute			Tabel Dom			Tablah Small Dom		3
32	G#0	G#1				Conga H Open			Sagat 2			Tablah Small Snap		
33	A0	A1				Conga L			Tabel Tak 2			Tablah Small Tik		3
34	A#0	A#1				Zagrouda H			Sagat 3			Tablah Small Sak		3
35	B0	B1				Zagrouda L	●		Riq Tik 3			Manjoor		
36	C1	C2	Phone Call	●		Kick Soft			Riq Tik 2			Twaisat 1		4
37	C#1	C#2	Door Squeak	●		Side Stick			Riq Tik Hard 1			Twaisat 4 Open		4
38	D1	D2	Door Slam	●		Snare Soft			Riq Tik 1			Twaisat 5 Open		4
39	D#1	D#2	Scratch Cut	●		Arabic Hand Clap			Riq Tik Hard 2			Twaisat 2		4
40	E1	E2	Scratch H 3	●		Snare			Riq Tik Hard 3			Tar Low Dom 1		
41	F1	F2	Wind Chime	●		Floor Tom L			Riq Tish			Tar Low Sak 1		
42	F#1	F#2	Telephone Ring 2	●		Hi-Hat Closed		1	Riq Snouj 2			Tar Segal Dom		
43	G1	G2				Floor Tom H			Riq Roll	●		Tar Low Dom 2		
44	G#1	G#2				Hi-Hat Pedal		1	Riq Snouj 1			Tar Segal Tak		
45	A1	A2				Low Tom			Riq Sak			Tar Low Dom 2		
46	A#1	A#2				Hi-Hat Open		1	Riq Snouj 3			Tar Segal Sak		
47	B1	B2				Mid Tom L			Riq Snouj 4			Arabic Hand Clap		
48	C2	C3				Mid Tom H			Riq Tak 1			Tar High Dom 1		
49	C#2	C#3				Crash Cymbal 1			Riq Brass 1			Tar High Sak 1		
50	D2	D3				High Tom			Riq Tak 2			Tar High Dom 2		
51	D#2	D#3				Ride Cymbal 1			Riq Brass 2			Tar High Sak 2		
52	E2	E3	Car Engine Ignition	●		Crash Cymbal 2			Riq Dom			Khaligi Clap 1		
53	F2	F3	Car Tires Squeal	●		Duhulla Dom			Katem Tak Doff			Khaligi Clap 2		
54	F#2	F#3	Car Passing	●		Tambourine			Katem Dom			Merwas Solo 1 Dom		
55	G2	G3	Car Crash	●		Duhulla Tak			Katem Sak 1			Merwas Solo 2 Dom		
56	G#2	G#3	Siren	●		Cowbell			Katem Tak 1			Merwas Solo 1 Sak		
57	A2	A3	Train	●		Duhulla Sak			Katem Sak 2			Merwas Solo 2 Sak		
58	A#2	A#3	Jet Plane	●		Claves			Katem Tak 2			Merwas Solo 1 Tak		
59	B2	B3	Starship	●		Doff Dom			Daholla Sak 2			Merwas Solo 2 Tak		
60	C3	C4	Burst	●		Katem Dom			Daholla Sak 1			Tar Brshm Grp Dom		
61	C#3	C#4	Roller Coaster	●		Katem Tak			Daholla Tak 1			Tar Brshm Grp Sak		
62	D3	D4	Submarine	●		Katem Sak			Daholla Dom			Tar Brshm Grp Tak		
63	D#3	D#4				Katem Tak			Daholla Tak 2			Tar Brshm Sl Sak		
64	E3	E4				Doff Tak			Tablah Prok			Tar Brshm Sl Dom		
65	F3	F4				Tabla Dom			Tablah Dom 2			Tar Brshm Sl Tak		
66	F#3	F#4				Tabla Tak 1			Tablah Roll of Edge	●		Yahla Dom 1		
67	G3	G4				Tabla Tik			Tablah Tak Finger 4			Yahla Tak 1		
68	G#3	G#4	Laugh	●		Tabla Tak2			Tablah Tak Trill 1			Yahla Dom 2		
69	A3	A4	Scream	●		Tabla Sak			Tablah Tak Finger 3			Yahla Tak 2		
70	A#3	A#4	Punch	●		Tabla Roll of Edge	●		Tablah Tak Trill 2			Nagara High		
71	B3	B4	Heart Beat	●		Tabla Flam			Tablah Tak Finger 2			Nagara Low		
72	C4	C5	Foot Steps	●		Sagat 1			Tablah Tak Finger 1			Zeer Low Dom 1		5
73	C#4	C#5				Tabel Dom			Tablah Tik 2			Zeer Low Roll		5
74	D4	D5				Sagat 3			Tablah Tik 4			Zeer Low Dom 2		5
75	D#4	D#5				Tabel Tak			Tablah Tik 3			Zeer High Roll		5
76	E4	E5				Sagat 2			Tablah Tik 1			Zeer Low Dom 2		5
77	F4	F5				Rik Dom			Tablah Tak 3			Zeer High Dom 1		5
78	F#4	F#5				Rik Tak 2			Tablah Tak 1			Tabel Low Dom		
79	G4	G5				Rik Finger 1			Tablah Tak 4			Zeer High Dom 2		5
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	Machine Gun	●		Rik Tik			Tablah Dom 1			Tabel Low Sak		
85	C#5	(C#6)	Laser Gun	●								Riq Tish		
86	D5	(D6)	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)												
91	G5	(G6)												

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

Panel Drum Kit/XG Drum Kit

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

Same as Standard Kit1 No Sound

Panel Drum Kit/XG Drum Kit

Bank Select MSB (0-127)			126			126			126			126		
Bank Select LSB (0-127)			0			0			0			0		
Program Change (0-127)			65			66			67			114		
Program Change (1-128)			66			67			68			115		
MIDI		Keyboard Note	KhaligiMixKit	Key Off (*1)	Alternate Group (*2)	IranianMixKit	Key Off (*1)	Alternate Group (*2)	TurkishKit	Key Off (*1)	Alternate Group (*2)	IndianKit	Key Off (*1)	Alternate Group (*2)
Note#	Note													
13	C#-1	C#0	Zalgouta Open	●		Bongo H			Asma Davul Left Side					
14	D-1	D0	Bell Tree			Bongo L			Asma Davul Right Side					
15	D#-1	D#0	Zalgouta Close			Conga H Open			Asma Davul Side Body			Indian Hand Clap		
16	E-1	E0	Timbale H			Conga L			Asma Davul Both Sides			Dafli Open		
17	F-1	F0	Timbale L			Floor Tom L			Koltuk Davul Open Flam			Dafli Slap		1
18	F#-1	F#0	Conga H Mute			Hi-Hat Closed		1	Koltuk Davul Teke Open			Dafli Rim		1
19	G-1	G0	Bongo H			Floor Tom H			Koltuk Davul Tek Open			Duff Open		
20	G#-1	G#0	Conga H Open			Hi-Hat Pedal		1	Koltuk Davul Dum			Duff Slap		
21	A-1	A0	Bongo L			Low Tom			Bendir Teke Open Flam			Duff Rim		
22	A#-1	A#0	Conga L			Hi-Hat Open		1	Bendir Teke Dead			Hatheli Long		2
23	B-1	B0	Shaker			Ride Cymbal 1			Bendir Tek Dead			Hatheli Short		2
24	C0	C1	Tablah Dom 1			Kick			Bendir Teke			Baya ge		3
25	C#0	C#1	Tablah Tak Fngr 3			Side Stick			Bendir Tek			Baya ke		3
26	D0	D1	Tablah Tik 3			Snare			Bendir Slap		2	Baya ghe		3
27	D#0	D#1	Tablah Tak Fngr 4			Crash Cymbal 1			Bendir Dum		2	Baya ka		3
28	E0	E1	Tablah Tik 4			Snare Tight			Zil Right Close		3	Tabla na		4
29	F0	F1	Tablah Tik 1			Khlg Tablah B Dm1		2	Zil Right Open		3	Tabla tin		4
30	F#0	F#1	Tablah Tremolo	●		Khlg Tablah B Sk1		2	Zil Left Close		4	Tablabaya dha		3
31	G0	G1	Cowbell			Khlg Tablah B Tk1			Zil Left Open		4	Dhol 1 Open		
32	G#0	G#1	Hand Clap			Arbc Doholla Sak1			Tef Teke Flam		5	Dhol 1 Slap		5
33	A0	A1	Tambourine			Arbc Doholla Tom			Tef Tek Mute		5	Dhol 1 Mute		5
34	A#0	A#1	Snare Tight			Arbc Doholla Tak2			Tef Teke Damped			Dhol 1 Open Slap		5
35	B0	B1	Kick Analog Short			Arbc Doholla Tak1			Tef Tek Mute Medium			Dhol 1 Roll		
36	C1	C2	Kick			Daf Tom			Tef Dum Mute			Dandia Short		6
37	C#1	C#2	Crash Cymbal 1			Daf Chain Up			Tef Cymbal		9	Dandia Long		6
38	D1	D2	Snare			Daf Back			Tef Cymbal Mute		9	Chutki		
39	D#1	D#2	Crash Cymbal 2			Daf Chain Down			Tef Tremolo	●		Chipri		
40	E1	E2	Side Stick			Daf Chap			Daf Shake 1			Khanjira Open		
41	F1	F2	Floor Tom L			Daf Full Roll	●		Tef Shake 2			Khanjira Slap		
42	F#1	F#2	Hi-Hat Closed		1	Daf Chain Roll	●		Tef Tek Flam			Khanjira Mute		
43	G1	G2	Floor Tom H			Daf Whipping Roll	●		Tef Full Open			Khanjira Bendup		
44	G#1	G#2	Hi-Hat Pedal		1	Clap			Tef Teke Open Short			Khanjira Benddown		
45	A1	A2	Low Tom			Finger Snap 1			Tef Tek Open Short			Dholak 1 Open		
46	A#1	A#2	Hi-Hat Open		1	Neghareh Roll	●		Tef Tek Open			Dholak 1 Mute		7
47	B1	B2	Mid Tom L			Neghareh Tom			Tef Dum Open			Dholak 1 Slap		7
48	C2	C3	Mid Tom H			Neghareh Snap			Hollo Finger Dead			Dhol 2 Open		
49	C#2	C#3	Finger Snap 1			Neghareh Chap			Hollo Slap			Dhol 2 Slap		8
50	D2	D3	Chinese Cymbal			Neghareh Eshareh			Hollo Dum			Dhol 2 Rim		8
51	D#2	D#3	Finger Snap 2			Neghareh Back			Kasik		1	Mridangam na		9
52	E2	E3	Riq Brass 2			Kurdish Dohol Lo			Kasik Flam		1	Mridangam din		9
53	F2	F3	Riq Brass 1			Kurdish Dohol Hi			Bass Darbuka Tek Dead			Mridangam ki		9
54	F#2	F#3	Riq Tish			Kurdish Dohol L Bz			Bass Darbuka Tek Flam			Mridangam ta		9
55	G2	G3	Riq Snouj 1			Lurish Dohol Low			Bass Darbuka Teke			Mridangam Chapu		9
56	G#2	G#3	Riq Roll	●		Rurdsh Dohol L Bz			Bass Darbuka Teke Other Finger			Mridangam Lo Closed		10
57	A2	A3	Riq Snouj 2			Lurish Dohol High			Bass Darbuka Teke Index Finger			Mridangam Lo Open		10
58	A#2	A#3	Riq Sak 1			Tombak Full Roll	●		Bass Darbuka Tek			Chimta Normal		11
59	B2	B3	Riq Dom			Tombak Timpani Roll	●		Bass Darbuka Slap			Chimta Ring		11
60	C3	C4	Riq Snouj 3			Tombak Tom			Bass Darbuka Slap Medium		7	Dholki Hi Open		12
61	C#3	C#4	Tombak Back			Tombak Eshareh R			Bass Darbuka Dum		7	Dholki Hi Mute		12
62	D3	D4	Tombak Tom			Tombak Roll			Darbuka Roll Close	●	6	Dholki Lo Open		13
63	D#3	D#4	Tombak Snap			Tombak Eshareh L			Darbuka Roll Open	●	6	Dholki Hi Slap		12
64	E3	E4	Tombak Eshareh R			Tombak Snap			Darbuka Teke Damped Flam			Dholki Lo Slide		13
65	F3	F4	Claves			Zarb Tom			Darbuka Tek Dead			Khol Open		14
66	F#3	F#4	Daf Chap			Zarb Whipping			Darbuka Tek Damped			Khol slide		
67	G3	G4	Daf Tom			Zarb Back			Darbuka Teke Open Flam			Khol Mute		14
68	G#3	G#4	Daf Full Roll	●		Zarb Eshareh			Darbuka Teke Open			Manjira Open		15
69	A3	A4	Triangle Mute		2	Zarb Chap			Darbuka Teke Other Finger 1			Manjira Close		15
70	A#3	A#4	Daf Back			Zarb Full Roll	●		Darbuka Teke Index Finger 1			Jhanji Open		16
71	B3	B4	Triangle Open		2	Zarb Snap			Darbuka Tek 1			Jhanji Close		16
72	C4	C5	Neghareh Tom			Zarb Whipping Rll	●		Darbuka Teke Other Finger 2			Mondira Open		17
73	C#4	C#5	Neghareh Back			Dayereh Roll	●		Darbuka Teke Index Finger 2			Mondira Close		17
74	D4	D5	Neghareh Roll	●		Dayereh Tom			Darbuka Tek 2			Indian Bhangra Scat 1		
75	D#4	D#5	Neghareh Snap			Dayereh Eshareh			Darbuka Slap Medium			Indian Bhangra Scat 2		
76	E4	E5	Wood Block H			Dayereh Back			Darbuka Slap		8	Indian Bhangra Scat 3		
77	F4	F5	Wood Block L			Dayereh Snap			Darbuka Dum		8	Indian Bhangra Scat 4		
78	F#4	F#5	Zarb Back			Dayereh Edge Roll	●		Bongo Tek Roll	●		Khomokh Normal		
79	G4	G5	Zarb Tom			Twaisat 4 Open		4	Bongo Flam			Khomokh Mute		
80	G#4	G#5	Zarb Eshareh			Twaisat 2		4	Bongo Tek Flam			Khomokh mlta tk		
81	A4	A5	Zarb Whipping			Twaisat 5 Open		4	Bongo Tek			Thavil Open		
82	A#4	A#5	Zarb Chap			Twaisat 1		4	Bongo Slap			Thavil Slap		
83	B4	B5	Hi-Hat Clsd Anlg		1	Timbale H			Bongo Flam Hi			Thavil Mute		
84	C5	C6	Hi-Hat Open Anlg		1	Timbale L			Bongo Dum			Khartaal		
85	C#5	(C#6)	Tar Brsm Solo Sak									Dholak 2 Open		18
86	D5	(D6)	Tar High Sak 1									Dholak 2 Slide		18
87	D#5	(D#6)	Khishiba Dom 1									Dholak 2 Rim 1		
88	E5	(E6)	Khishiba Dom 2									Dholak 2 Rim 2		
89	F5	(F6)	Khishiba Sak 1									Dholak 2 Ring		
90	F#5	(F#6)	Khishiba Dom 3									Dholak 2 Slap		
91	G5	(G6)	Khishiba Sak 2											

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit | No Sound

Panel Drum Kit/XG Drum Kit

Bank Select MSB (0-127)			126		
Bank Select LSB (0-127)			0		
Program Change (0-127)			124		
Program Change (1-128)			125		
MIDI			ChineseKit	Key Off (*1)	Alternate Group (*2)
Note#	Note	Keyboard 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	Da Cha	●	
24	C0	C1	Da Gu mp	●	2
25	C#0	C#1	Da Gu rim	●	
26	D0	D1	Da Gu f	●	2
27	D#0	D#1	Da Gu hand	●	2
28	E0	E1	Da Gu roll	●	2
29	F0	F1	Pai Gu 4	●	
30	F#0	F#1	Pai Gu 4 High	●	
31	G0	G1	Pai Gu 3	●	
32	G#0	G#1	Pai Gu 3 High	●	
33	A0	A1	Pai Gu 2	●	
34	A#0	A#1	Pai Gu 2 High	●	
35	B0	B1	Pai Gu 1	●	
36	C1	C2	Luo High 1	●	
37	C#1	C#2	Gong batter	●	
38	D1	D2	Jin Luo	●	
39	D#1	D#2	Luo High 2	●	
40	E1	E2	Luo Mid-Low	●	5
41	F1	F2	Luo	●	
42	F#1	F#2	Jin Luo Low	●	5
43	G1	G2	Da Cha	●	5
44	G#1	G#2	Da Cha effect	●	5
45	A1	A2	Zhong Cha	●	
46	A#1	A#2	Xiao Cha effect	●	1
47	B1	B2	Xiao Cha	●	1
48	C2	C3	Mang Luo Low	●	
49	C#2	C#3	Mang Luo Mid	●	
50	D2	D3	Qing	●	
51	D#2	D#3	Finger Bell	●	
52	E2	E3	Luo big	●	
53	F2	F3	Mu Yu Low	●	
54	F#2	F#3	Mu Yu Mid-Low	●	
55	G2	G3	Mu Yu Mid	●	
56	G#2	G#3	Mu Yu High	●	
57	A2	A3	Nan Bang Zi roll	●	3
58	A#2	A#3	Nan Bang Zi	●	3
59	B2	B3	Ban Gu	●	4
60	C3	C4	Ban	●	4
61	C#3	C#4	Ban Gu roll	●	4
62	D3	D4	Chinese Opera Voice 1	●	
63	D#3	D#4	Chinese Opera Voice 2	●	
64	E3	E4	Chinese Opera Voice 3	●	
65	F3	F4	Yun Luo F4	●	
66	F#3	F#4	Yun Luo F#4	●	
67	G3	G4	Yun Luo G4	●	
68	G#3	G#4	Yun Luo G#4	●	
69	A3	A4	Yun Luo A4	●	
70	A#3	A#4	Yun Luo A#4	●	
71	B3	B4	Yun Luo B4	●	
72	C4	C5	Yun Luo C5	●	
73	C#4	C#5	Yun Luo C#5	●	
74	D4	D5	Yun Luo D5	●	
75	D#4	D#5	Yun Luo D#5	●	
76	E4	E5	Yun Luo E5	●	
77	F4	F5	Yun Luo F5	●	
78	F#4	F#5	Yun Luo F#5	●	
79	G4	G5	Yun Luo G5	●	
80	G#4	G#5	Yun Luo G#5	●	
81	A4	A5	Yun Luo A5	●	
82	A#4	A#5	Yun Luo A#5	●	
83	B4	B5	Yun Luo B5	●	
84	C5	C6	Yun Luo 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)			

GM2 Drum Kit/SFX Kit

Bank Select MSB (0-127)			126			126		
Bank Select LSB (0-127)			0			0		
Program Change (0-127)			0			1		
Program Change (1-128)			1			2		
MIDI			StandardSet	Key Off (*1)	Alternate Group (*2)	RoomSet	Key Off (*1)	Alternate Group (*2)
Note#	Note	Keyboard 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			High Q		
28	E0	E1	Slap			Slap		
29	F0	F1	Scratch Push		7	Scratch Push		7
30	F#0	F#1	Scratch Pull		7	Scratch Pull		7
31	G0	G1	Sticks			Sticks		
32	G#0	G#1	Square Click			Square Click		
33	A0	A1	Metronome Click			Metronome Click		
34	A#0	A#1	Metronome Bell			Metronome Bell		
35	B0	B1	Acoustic Bass Drum			Acoustic Bass Drum		
36	C1	C2	Bass Drum 1			Bass Drum 1		
37	C#1	C#2	Side Stick					
38	D1	D2	Acoustic Snare			Acoustic Snare		
39	D#1	D#2	Hand Clap					
40	E1	E2	Electric Snare			Electric Snare		
41	F1	F2	Low Floor Tom			Room Low Tom 2		
42	F#1	F#2	Closed Hi-hat		1	Closed Hi-hat		1
43	G1	G2	High Floor Tom			Room Low Tom 1		
44	G#1	G#2	Pedal Hi-hat		1	Pedal Hi-hat		1
45	A1	A2	Low Tom			Room Mid Tom 2		
46	A#1	A#2	Open Hi-hat		1	Open Hi-hat		1
47	B1	B2	Low-Mid Tom			Room Mid Tom 1		
48	C2	C3	High Mid Tom			Room Hi Tom 2		
49	C#2	C#3	Crash Cymbal 1					
50	D2	D3	High Tom			Room Hi Tom 1		
51	D#2	D#3	Ride Cymbal 1					
52	E2	E3	Chinese Cymbal					
53	F2	F3	Ride Bell			Ride Bell		
54	F#2	F#3	Tambourine					
55	G2	G3	Splash Cymbal					
56	G#2	G#3	Cowbell					
57	A2	A3	Crash Cymbal 2					
58	A#2	A#3	Vibra-slap			Vibra-slap		
59	B2	B3	Ride Cymbal 2					
60	C3	C4	High Bongo			High Bongo		
61	C#3	C#4	Low Bongo			Low Bongo		
62	D3	D4	Mute Hi Conga			Mute Hi Conga		
63	D#3	D#4	Open Hi Conga			Open Hi Conga		
64	E3	E4	Low Conga			Low Conga		
65	F3	F4	High Timbale			High Timbale		
66	F#3	F#4	Low Timbale			Low Timbale		
67	G3	G4	High Agogo			High Agogo		
68	G#3	G#4	Low Agogo			Low Agogo		
69	A3	A4	Cabasa					
70	A#3	A#4	Maracas					
71	B3	B4	Short Whistle		2	Short Whistle		2
72	C4	C5	Long Whistle		2	Long Whistle		2
73	C#4	C#5	Short Guiro		3	Short Guiro		3
74	D4	D5	Long Guiro		3	Long Guiro		3
75	D#4	D#5	Claves					
76	E4	E5	Hi Wood Block			Hi Wood Block		
77	F4	F5	Low Wood Block			Low Wood Block		
78	F#4	F#5	Mute Cuica		4	Mute Cuica		4
79	G4	G5	Open Cuica		4	Open Cuica		4
80	G#4	G#5	Mute Triangle		5	Mute Triangle		5
81	A4	A5	Open Triangle		5	Open Triangle		5
82	A#4	A#5	Shaker					
83	B4	B5	Jingle Bell			Jingle Bell		
84	C5	C6	Bell Tree					
85	C#5	(C#6)	Castanets			Castanets		
86	D5	(D6)	Mute Surdo		6	Mute Surdo		6
87	D#5	(D#6)	Open Surdo		6	Open Surdo		6
88	E5	(E6)						
89	F5	(F6)						
90	F#5	(F#6)						
91	G5	(G6)						

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

GM2 Drum Kit/SFX Kit

Bank Select MSB (0-127)			126			126			126			126		
Bank Select LSB (0-127)			0			0			0			0		
Program Change (0-127)			2			3			8			35		
Program Change (1-128)			3			4			9			36		
MIDI														
Note#	Note	Keyboard Note	PowerSet	Key Off (*1)	Alternate Group (*2)	ElectronicSet	Key Off (*1)	Alternate Group (*2)	AnalogSet	Key Off (*1)	Alternate Group (*2)	JazzSet	Key Off (*1)	Alternate Group (*2)
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			High Q			High Q			High Q		
28	E0	E1	Slap			Slap			Slap			Slap		
29	F0	F1	Scratch Push		7	Scratch Push		7	Scratch Push		7	Scratch Push		7
30	F#0	F#1	Scratch Pull		7	Scratch Pull		7	Scratch Pull		7	Scratch Pull		7
31	G0	G1	Sticks			Sticks			Sticks			Sticks		
32	G#0	G#1	Square Click			Square Click			Square Click			Square Click		
33	A0	A1	Metronome Click			Metronome Click			Metronome Click			Metronome Click		
34	A#0	A#1	Metronome Bell			Metronome Bell			Metronome Bell			Metronome Bell		
35	B0	B1	Acoustic Bass Drum			Acoustic Bass Drum			Acoustic Bass Drum			Acoustic Bass Drum		
36	C1	C2	Power Kick Drum			Electric Bass Drum			Analog Bass Drum			Jazz Kick 2		
37	C#1	C#2							Analog Rim Shot			Jazz Kick 1		
38	D1	D2	Power Snare Drum			Electric Snare 1			Analog Snare 1			Power Snare Drum		
39	D#1	D#2												
40	E1	E2	Electric Snare			Electric Snare 2			Electric Snare			Electric Snare		
41	F1	F2	Power Low Tom 2			Electric Low Tom 2			Analog Low Tom 2			Power Low Tom 2		
42	F#1	F#2	Closed Hi-hat		1	Closed Hi-hat		1	Analog CHH 1		1	Closed Hi-hat		1
43	G1	G2	Power Low Tom 1			Electric Low Tom 1			Analog Low Tom 1			Power Low Tom 1		
44	G#1	G#2	Pedal Hi-hat		1	Pedal Hi-hat		1	Analog CHH 2		1	Pedal Hi-hat		1
45	A1	A2	Power Mid Tom 2			Electric Mid Tom 2			Analog Mid Tom 2			Power Mid Tom 2		
46	A#1	A#2	Open Hi-hat		1	Open Hi-hat		1	Analog OHH		1	Open Hi-hat		1
47	B1	B2	Power Mid Tom 1			Electric Mid Tom 1			Analog Mid Tom 1			Power Mid Tom 1		
48	C2	C3	Power Hi Tom 2			Electric Hi Tom 2			Analog Hi Tom 2			Power Hi Tom 2		
49	C#2	C#3							Analog Cymbal					
50	D2	D3	Power Hi Tom 1			Electric Hi Tom 1			Analog Hi Tom 1			Power Hi Tom 1		
51	D#2	D#3												
52	E2	E3				Reverse Cymbal								
53	F2	F3	Ride Bell			Ride Bell			Ride Bell			Ride Bell		
54	F#2	F#3												
55	G2	G3												
56	G#2	G#3							Analog Cowbell					
57	A2	A3												
58	A#2	A#3	Vibra-slap			Vibra-slap			Vibra-slap			Vibra-slap		
59	B2	B3												
60	C3	C4	High Bongo			High Bongo			High Bongo			High Bongo		
61	C#3	C#4	Low Bongo			Low Bongo			Low Bongo			Low Bongo		
62	D3	D4	Mute Hi Conga			Mute Hi Conga			Analog High Conga			Mute Hi Conga		
63	D#3	D#4	Open Hi Conga			Open Hi Conga			Analog Mid Conga			Open Hi Conga		
64	E3	E4	Low Conga			Low Conga			Analog Low Conga			Low Conga		
65	F3	F4	High Timbale			High Timbale			High Timbale			High Timbale		
66	F#3	F#4	Low Timbale			Low Timbale			Low Timbale			Low Timbale		
67	G3	G4	High Agogo			High Agogo			High Agogo			High Agogo		
68	G#3	G#4	Low Agogo			Low Agogo			Low Agogo			Low Agogo		
69	A3	A4												
70	A#3	A#4							Analog Maracas					
71	B3	B4	Short Whistle		2	Short Whistle		2	Short Whistle		2	Short Whistle		2
72	C4	C5	Long Whistle		2	Long Whistle		2	Long Whistle		2	Long Whistle		2
73	C#4	C#5	Short Guiro		3	Short Guiro		3	Short Guiro		3	Short Guiro		3
74	D4	D5	Long Guiro		3	Long Guiro		3	Long Guiro		3	Long Guiro		3
75	D#4	D#5							Analog Claves					
76	E4	E5	Hi Wood Block			Hi Wood Block			Hi Wood Block			Hi Wood Block		
77	F4	F5	Low Wood Block			Low Wood Block			Low Wood Block			Low Wood Block		
78	F#4	F#5	Mute Cuica		4	Mute Cuica		4	Mute Cuica		4	Mute Cuica		4
79	G4	G5	Open Cuica		4	Open Cuica		4	Open Cuica		4	Open Cuica		4
80	G#4	G#5	Mute Triangle		5	Mute Triangle		5	Mute Triangle		5	Mute Triangle		5
81	A4	A5	Open Triangle		5	Open Triangle		5	Open Triangle		5	Open Triangle		5
82	A#4	A#5												
83	B4	B5	Jingle Bell			Jingle Bell			Jingle Bell			Jingle Bell		
84	C5	C6												
85	C#5	(C#6)	Castanets			Castanets			Castanets			Castanets		
86	D5	(D6)	Mute Surdo		6	Mute Surdo		6	Mute Surdo		6	Mute Surdo		6
87	D#5	(D#6)	Open Surdo		6	Open Surdo		6	Open Surdo		6	Open Surdo		6
88	E5	(E6)												
89	F5	(F6)												
90	F#5	(F#6)												
91	G5	(G6)												

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

GM2 Drum Kit/SFX Kit

Bank Select MSB (0-127)			126				126				126			
Bank Select LSB (0-127)			0				0				0			
Program Change (0-127)			36				37				38			
Program Change (1-128)			37				38				39			
MIDI			BrushSet	Key Off (*1)	Alternate Group (*2)	OrchestraSet	Key Off (*1)	Alternate Group (*2)	SFXSet	Key Off (*1)	Alternate Group (*2)			
Note#	Note	Keyboard 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			Closed Hi-hat 2		1						
28	E0	E1	Slap			Pedal Hi-hat		1						
29	F0	F1	Scratch Push		7	Open Hi-hat 2		1						
30	F#0	F#1	Scratch Pull		7	Ride Cymbal 1								
31	G0	G1	Sticks			Sticks								
32	G#0	G#1	Square Click			Square Click								
33	A0	A1	Metronome Click			Metronome Click								
34	A#0	A#1	Metronome Bell			Metronome Bell								
35	B0	B1	Acoustic Bass Drum			Concert BD 2								
36	C1	C2	Jazz Kick 2			Concert BD 1								
37	C#1	C#2	Jazz Kick 1			Analog Rim Shot								
38	D1	D2	Electric Snare 1			Concert SD 1								
39	D#1	D#2	Brush Tap			Castanets			High Q					
40	E1	E2	Brush Slap			Concert SD 2			Slap					
41	F1	F2	Brush Swirl			Timpani F			Scratch Push		7			
42	F#1	F#2	Closed Hi-hat		1	Timpani F#			Scratch Pull		7			
43	G1	G2	Electric Low Tom 1			Timpani G			Sticks					
44	G#1	G#2	Pedal Hi-hat		1	Timpani G#			Square Click					
45	A1	A2	Electric Mid Tom 2			Timpani A			Metronome Click					
46	A#1	A#2	Open Hi-hat		1	Timpani A#			Metronome Bell					
47	B1	B2	Electric Mid Tom 1			Timpani B			Guitar Fret		●			
48	C2	C3	Electric Hi Tom 2			Timpani c			Guitar Cutting Noise Up		●			
49	C#2	C#3				Timpani c#			Guitar Cutting Noise Down		●			
50	D2	D3	Electric Hi Tom 1			Timpani d			String Slap of Double Bass		●			
51	D#2	D#3				Timpani d#			Fl.Key Click		●			
52	E2	E3	Reverse Cymbal			Timpani e			Laughing		●			
53	F2	F3	Ride Bell			Timpani f			Scream		●			
54	F#2	F#3							Punch		●			
55	G2	G3							Heart Beat		●			
56	G#2	G#3				Analog Cowbell			Footsteps 1		●			
57	A2	A3				Concert Cymbal 2			Footsteps 2		●			
58	A#2	A#3	Vibra-slap			Vibra-slap			Applause		●			
59	B2	B3				Concert Cymbal 1			Door Creaking		●			
60	C3	C4	High Bongo			High Bongo			Door		●			
61	C#3	C#4	Low Bongo			Low Bongo			Scratch		●			
62	D3	D4	Mute Hi Conga			Analog High Conga			Wind Chimes		●			
63	D#3	D#4	Open Hi Conga			Analog Mid Conga			Car-Engine		●			
64	E3	E4	Low Conga			Analog Low Conga			Car-Stop		●			
65	F3	F4	High Timbale			High Timbale			Car-Pass		●			
66	F#3	F#4	Low Timbale			Low Timbale			Car-Crash		●			
67	G3	G4	High Agogo			High Agogo			Siren		●			
68	G#3	G#4	Low Agogo			Low Agogo			Train		●			
69	A3	A4							Jetplane		●			
70	A#3	A#4				Analog Maracas			Helicopter		●			
71	B3	B4	Short Whistle		2	Short Whistle		2	Starship		●			
72	C4	C5	Long Whistle		2	Long Whistle		2	Gun Shot		●			
73	C#4	C#5	Short Guiro		3	Short Guiro		3	Machine Gun		●			
74	D4	D5	Long Guiro		3	Long Guiro		3	Lasergun		●			
75	D#4	D#5				Analog Claves			Explosion		●			
76	E4	E5	Hi Wood Block			Hi Wood Block			Dog		●			
77	F4	F5	Low Wood Block			Low Wood Block			Horse-Gallop		●			
78	F#4	F#5	Mute Cuica		4	Mute Cuica		4	Birds		●			
79	G4	G5	Open Cuica		4	Open Cuica		4	Rain		●			
80	G#4	G#5	Mute Triangle		5	Mute Triangle		5	Thunder		●			
81	A4	A5	Open Triangle		5	Open Triangle		5	Wind		●			
82	A#4	A#5							Seashore		●			
83	B4	B5	Jingle Bell			Jingle Bell			Stream		●			
84	C5	C6							Bubble		●			
85	C#5	(C#6)	Castanets			Castanets								
86	D5	(D6)	Mute Surdo		6	Mute Surdo		6						
87	D#5	(D#6)	Open Surdo		6	Open Surdo		6						
88	E5	(E6)				Applause		●						
89	F5	(F6)												
90	F#5	(F#6)												
91	G5	(G6)												

*1 Key Off: Keys marked "●" 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.

Same as Standard Kit1 No Sound

Style List / Liste der Styles / Liste des styles

Category	Style Name	
Pop&Rock	HardRock	
	PowerRock	
	StandardRock	
	AcousticRock	
	BritRockPop	
	Cool8Beat	
	8BeatModern	
	VintageGtrPop	
	60'sVintageRock	
	60'sPopRock	
	BluesRock	
	SoulBrothers	
	FranklySoul	
	FunkPopRock	
	ChartGuitarPop	
	OldiesR&R	
	Rock&Roll	
	60'sRock&Roll	
	Twist	
	60'sGuitarPop	
	70'sChartCntry	
	CountryHits	
	Country2-4	
	BritPopSwing	
	Unplugged	
	90'sRockBallad	
	90'sGuitarPop	
	70's8Beat	
	BubblegumPop	
	RockShuffle	
	JazzPop	
	KoolShuffle	
	LovelyShuffle	
	ModernR&B	
	Ballad	PopGtrBallad
		EasyBallad
		EPBallad
		70'sGlamPiano
		80'sEPBallad
		8BeatBallad1
		8BeatBallad2
		16BeatBallad
		PowerBallad
ChilloutLounge		
6-8SlowRock		
6-8Modern		
6-8Orchestral		
12-8Ballad		
70'sPopBallad		
Chillout		
80'sBoyBand		
NewR&BBallad		
6-8Soul		
MotorCity		
OrganBallad		
PianoBallad		
CountryBallad		
LoveSong		
PopWaltz		
Dance		Electronica
		ClubBeat
		RetroClub
		FunkyHouse
		DreamDance
		Ibiza2002
		Ibiza2004
		EuroTrance
	DiscoTeens	
	TrancePop	
	70'sDisco1	
	70'sDisco2	
	DiscoPhilly	
	80'sDisco	
	DiscoHouse	
	USChartHit	
	ModChartPop	
	MellowHipHop	
	ChartPop1	
	ChartPop2	
	House	
	FrenchHouse	
	RetroPop	
	NewR&B	
	PopR&B	

Category	Style Name	
Dance	ClassicHipHop	
	NewHipHop	
	EuroHipHop	
	HipHopGroove	
	TripHop	
	LatinDJ's	
	Swing&Jazz	OrchBigBand1
		AcousticJazz
		ModernJazzBld
		ModernJazz
		JazzClub
		OrchBigBand2
		MORSwing
		MidnightSwing
		JazzWaltzMed
		OrganGroove
		BigBandFast
		OrchestraSwing1
		OrchestraSwing2
		CountrySwing
		Five-Four
Ragtime		
Charleston		
Dixieland		
JumpJive		
BigBandShuffle		
Latin&Ballroom	BrazilianSamba	
	BossaNova	
	Bomba	
	Salsa	
	Guajira	
	CubanSon	
	Merengue	
	Bachata	
	Cumbia	
	Danzon	
	Forro	
	Joropo	
	Parranda	
	Reggaeton	
	Calypso	
	LatinDisco	
	RockChaCha	
	PopBossa	
	FastBossa	
	HappyReggae	
	OrchestralBossa	
	Beguine	
	RumbalSland	
	PopMambo	
	VienneseWaltz	
	EnglishWaltz	
	Slowfox	
	Foxtrot	
	Quickstep	
	Tango	
	Pasodoble	
	Samba	
	ChaChaCha	
Rumba		
Jive		
Swingfox		
9-8Waltz		
OrganSamba		
Entertainment	MovieDisco	
	SaturdayNight	
	SecretService	
	WildWest	
	Showtune	
	BaroqueAir	
	OrchestralBolero	
	OrchestralMarch	
	ClassicPianoBld	
	Moonlight6-8	
	TapDanceSwing	
	MovieBallad	
	BroadwayBld	
	PubPiano	
	PolkaPop	
	GermanRock	
	DiscoFox	
	70'sFrenchHit	
	AlpBallad	
	PartyPolka	

Category	Style Name	
Entertainment	SchlagerPolka	
	Schlager6-8	
	SchlagerShuffle	
	SchlagerPop	
	SchlagerBeat	
	ScandShuffle	
	ScandSlowRock	
	SchlagerSamba	
	Carnival	
	DiscoHands	
	Tijuana	
	8BeatAdria	
	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	
	Muruba	
	Sout4-4	
	Ashori	
SamriMix		
Methoalath		
Lehwa		
Gorgina		
Dazza		
Samri		

Style List / Liste der Styles / Liste des styles

Category	Style Name	
Khaligi	Khammari	
	Tamburah	
	AlBudoor	
	KhaligiRhumba3	
	Sharh	
	Shakshaka2	
Iranian	Adani	
	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	
	Avaaaz	
	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		
TurkishPop		
Zeibekikos		
Tsifteteli		
Kalamatianos		
Syrtorumba		
Tsamikos		
Karsilamas		
Hasapiko		
5-8Greek		
Hasaposerviko		
Kamilieriko		
7-8Greek		
Bagio		
World	Flamenco	
	SpanishPaso	
	PopFlamenco	
	FrenchMusette	
	Sirtaki	
	GermanWaltz	
	ItalianWaltz	
	FrenchWaltz	
	ScandWaltz	
	OrientalPop	

Category	Style Name
World	Duranguense
	Bhajan
	Bhangra
	Xi Qing Luo Gu
	Jing Ju Jie Zou
	Grupera
	IrishDance
	Hawaiian
	Tarantella
	Bluegrass
	OberPolka
	OberWalzer
	USMarch
	6-8March
GermanMarch	

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

Order	Bank Name
1	E.Gtr16BtCut1
2	E.Gtr16BtCut2
3	E.Gtr16BtCut3
4	FunkyGtr16Bt1
5	FunkyGtr16Bt2
6	FunkyGtr16Bt3
7	DiscoGuitar
8	E.Gtr16BtShfl1
9	E.Gtr16BtShfl2
10	E.Gtr16BtPick
11	SteelTriplet1
12	SteelTriplet2
13	E.Gtr8BtShfl
14	SteelGuitar6-8
15	E.Guitar6-8
16	SteelGtrPick1
17	SteelGtrPick2
18	SteelGtrPick3
19	SteelGtrPick4
20	NylonGtrPick
21	NylonAccomp
22	NylonBossa1
23	NylonBossa2
24	A.GtrAccomp
25	Steel8BtStrum1
26	Steel8BtStrum2
27	SteelBsChdSlow
28	SteelBsChdFast
29	E.Gtr8BtStrm1
30	E.Gtr8BtStrm2
31	E.GtrRock1
32	E.GtrRock2
33	FlamencoGtr
34	LatinKeys
35	StringsArpeggio
36	TrumpetSwing
37	BigBandSwing
38	OrchestraHit
39	PianoGlissando
40	Gong&Chime
41	PianoArp16Bt
42	PianoArp8Bt
43	HeavenArpeggio
44	TwinkleArpeggio
45	TechSeq1
46	TechSeq2
47	TranceSeq1
48	TranceSeq2
49	Harpeggio1
50	Harpeggio2
51	LatinPerc1
52	LatinPerc2
53	LatinPerc3
54	LatinPerc4
55	LatinPerc5
56	Conga&Bongo1
57	CarnivalDeRio
58	LatinPop
59	Rumba&Soca
60	SambaPerc
61	SnarePlay1
62	SnarePlay2
63	Cajon1
64	Cajon2
65	Shaker&Tamb
66	Timbales&Tom
67	EthnicPerc
68	IndianKit
69	ChineseKit1
70	ChineseKit2
71	PowerToms

Order	Bank Name
72	PowerSnares
73	CrashCymbals
74	PowerKit1
75	PowerKit2
76	DrumEndings
77	LatinKit1
78	LatinKit2
79	LatinKit3
80	Conga&Bongo2
81	DanceKit
82	DanceMix1
83	DanceMix2
84	BreakBeatz
85	DJ-BasicSet
86	DJ-SFX
87	HipHop1
88	HipHop2
89	HeavyShuffle
90	NewR&B
91	ScratchBank
92	Breathing
93	Classical
94	BigBells
95	MagicBells
96	TurkishPerc1
97	TurkishPerc2
98	Oriental1
99	Oriental2
100	Oriental3
101	Oriental4
102	Oriental5
103	Oriental6
104	Oriental7
105	Oriental8
106	ArabicPerc1
107	ArabicPerc2
108	ArabicPerc3
109	Tablah
110	Riq
111	SagatClap
112	ArabicLoop1
113	ArabicLoop2
114	ArabicGuitar
115	KhaligiPerc1
116	KhaligiPerc2
117	KhaligiPerc3
118	KhaligiSagat
119	Sout
120	Tar
121	Ray
122	KhaligiLoop1
123	KhaligiLoop2
124	KhaligiLoop3
125	LiwaLoop
126	IranianPerc1
127	IranianPerc2
128	IranianLoop1
129	IranianLoop2
130	IranianLoop3
131	TurkishLoop1
132	TurkishLoop2
133	KanounChord
134	TurkishGuitar
135	GreekChord

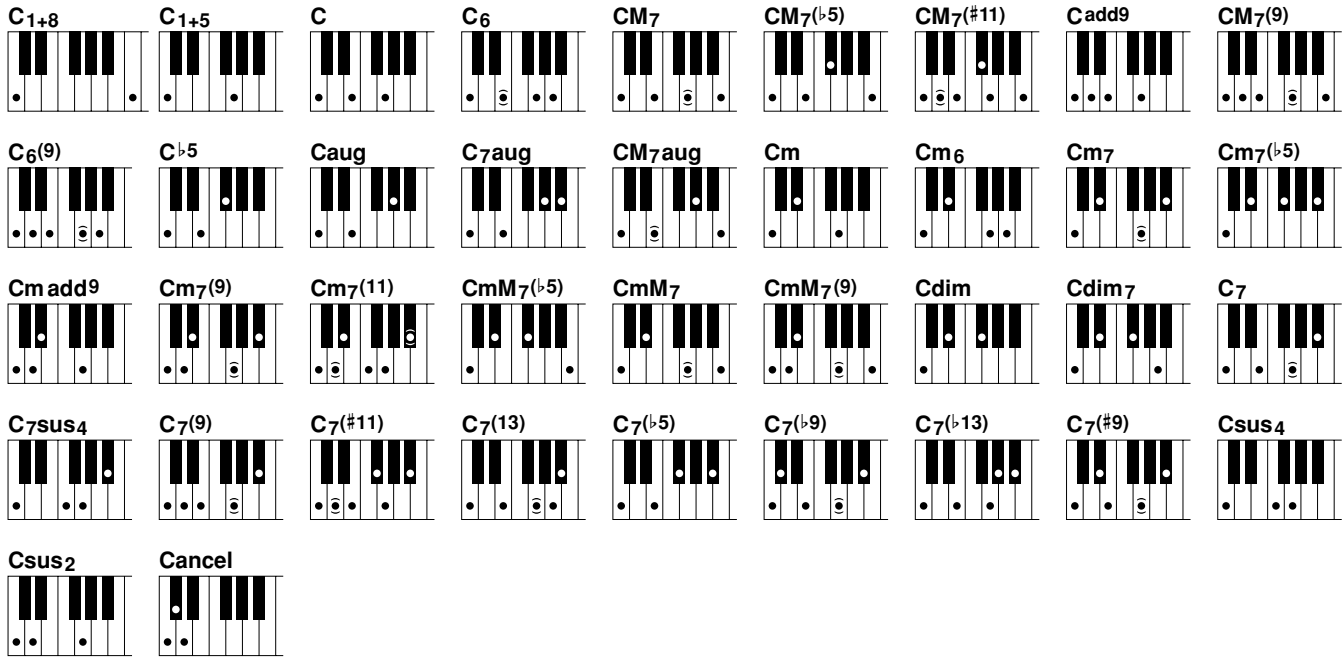
Direct Access Chart / Tabelle Direktzugriff / Feuille d'accès direct

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]				
	[EXPANSION/USER]				
	SONG				
[SCORE]					
[LYRICS/TEXT]					
[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]	MULTIPAD CONTROL SELECT	MULTI PAD EDIT	—	—
	[1]				
	[2]				
	[3]				
[4]					
[DEMO]	FUNCTION	UTILITY	OWNER	—	
[FUNCTION]	FUNCTION	MIDI	PRESET	—	
[MIXING CONSOLE]	MIXING CONSOLE	VOL/VOICE	—	—	
[BALANCE]					
[CHANNEL ON/OFF]					
[USB]	FUNCTION	UTILITY	MEDIA	—	
[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 & ACCORDION]					
[TRUMPET]					
[BRASS]					
[CHOIR & PAD]					
[SYNTH. & FX]					

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]				
	[EXPANSION/USER]				
VOICE CONTROL	[HARMONY/ECHO]	FUNCTION	HARMONY/ECHO	—	—
	[TOUCH]	MIXING CONSOLE	CONTROLLER	KEYBOARD/PANEL	INITIAL TOUCH
	[SUSTAIN]		EFFECT	—	—
	[MONO]	MIXING CONSOLE	TUNE	—	—
	[DSP]		EFFECT	—	—
	[VARI.]		EFFECT	—	—
[MUSIC FINDER]	MUSIC FINDER	MUSIC FINDER	MUSIC FINDER SEARCH 1	—	—
ONE TOUCH SETTING	[1]	OTS INFORMATION	—	—	—
	[2]				
	[3]				
	[4]				
REGISTRATION MEMORY	REGIST BANK [+]	FUNCTION	REGIST SEQUENCE/FREEZE/ VOICE SET	REGISTRATION SEQUENCE	—
	REGIST BANK [-]			FREEZE	—
	[FREEZE]			REGISTRATION SEQUENCE	—
	[MEMORY]			REGISTRATION SEQUENCE	—
	[1]	REGIST INFORMATION	—	—	—
	[2]				
	[3]				
	[4]				
	[5]				
	[6]				
[7]					
[8]					
[SCALE TUNE]	SCALE TUNE BANK	—	—	—	
SCALE SETTING buttons	SCALE TUNE BANK	SCALE TUNE BANK	SCALE TUNE EDIT	—	—
SCALE MEMORY	[MEMORY]	SCALE TUNE BANK	SCALE TUNE EDIT	—	—
	[1]				
	[2]				
	[3]				
	[4]				
	[5]				
PEDAL	FOOT PEDAL 1	FUNCTION	CONTROLLER	FOOT PEDAL	—
	FOOT PEDAL 2				
JOYSTICK	+X	MIXING CONSOLE	TUNE	—	—
	-X				
	+Y	FUNCTION	CONTROLLER	KEYBOARD/PANEL	JOYSTICK +Y
	-Y				JOYSTICK -Y

* 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
BASIC HALL	Reverb simulating the acoustics of a hall. Standard setting.	1	21
LIGHT HALL	Reverb simulating the acoustics of a hall. Light setting.	1	22
BALLAD HALL	Reverb simulating the acoustics of a hall. For ballad type music.	1	19
PIANO HALL	Reverb simulating the acoustics of a hall. For piano sound.	1	20
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
ATMO HALL	A unique long reverb with atmosphere.	1	23
ACOSTIC ROOM (Acoustic Room)	Reverb simulating the acoustics of a room. Standard setting.	2	20
DRUMS ROOM	Reverb simulating the acoustics of a room. For drums sound.	2	21
PERC ROOM (Percussion Room)	Reverb simulating the acoustics of a room. For percussions sound.	2	22
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
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
WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0
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

Category	Type	Description	MSB	LSB
REVERB	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
	ATMO HALL	A unique long reverb with atmosphere.	1	23
	ACOSTIC ROOM (Acoustic Room)	Reverb simulating the acoustics of a room. Standard setting.	2	20
	DRUMS ROOM	Reverb simulating the acoustics of a room. For drums sound.	2	21
	PERC ROOM (Percussion Room)	Reverb simulating the acoustics of a room. For percussions sound.	2	22
	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	
DELAY	TEMPO DELAY1	Tempo-synchronized delay.	21	0
	TEMPO DELAY2	Tempo-synchronized delay.	21	16
	TEMPO ECHO	Tempo-synchronized echo.	21	8
	TEMPO CROSS1	Tempo-synchronized cross delay.	22	0
	TEMPO CROSS2		22	16
	TEMPO CROSS3		22	17
	TEMPO CROSS4		22	18

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

Category	Type	Description	MSB	LSB	
ER/KARAOKE	KARAOKE1	Echo for karaoke.	20	0	
	KARAOKE2		20	1	
	KARAOKE3		20	2	
CHORUS	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	
	CHORUS FAST		65	16	
	CHORUS LITE		65	17	
	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 DETUNE1 (Ensemble Detune 1)	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0		
ENS DETUNE2 (Ensemble Detune 2)		87	16		
FLANGER	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	
PHASER	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	
ROTARY SP	ROTARY SP5 (Rotary Speaker 5)	Simulates a rotary speaker.	66	18	
NO EFFECT	-	No effect.	0	0	

DSP1 – 4 Block

LCD 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
REVERB	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
	ATMO HALL		A unique long reverb with atmosphere.	1
	ACOSTIC ROOM (Acoustic Room)	Reverb simulating the acoustics of a room. Standard setting.	2	20
	DRUMS ROOM	Reverb simulating the acoustics of a room. For drums sound.	2	21
	PERC ROOM (Percussion Room)	Reverb simulating the acoustics of a room. For percussions sound.	2	22
	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 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
*1 WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0	

	Type	Description	MSB	LSB	
DELAY	DELAY LCR1	Produces three delayed sounds: L, R and C (center).	5	16	
	DELAY LCR2		5	0	
	DELAY LR	Produces two delayed sounds: L and R. Two feedback delays are provided.	6	0	
	ECHO	Two delayed sounds (L and R), and independent feedback delays for L and R.	7	0	
	CROSS DELAY1	The feedback of the two delayed sounds is crossed.	8	0	
	CROSS DELAY2		8	16	
	TEMPO DELAY1	Tempo-synchronized delay.	21	0	
	TEMPO DELAY2	Tempo-synchronized cross delay.	21	16	
	TEMPO ECHO		Tempo-synchronized echo.	21	8
	TEMPO CROSS1		22	0	
	TEMPO CROSS2		22	16	
	TEMPO CROSS3		22	17	
	TEMPO CROSS4		22	18	
	ER/KARAOKE		KARAOKE1	Echo for karaoke.	20
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		
CHORUS	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	
	CHORUS FAST		65	16	
	CHORUS LITE		65	17	
	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 DETUNE1 (Ensemble Detune 1)	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0	
ENS DETUNE2 (Ensemble Detune 2)	87		16		
FLANGER	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	A simulation on an analog flanger effect. The LFO has a random setting.	104	0	
*1 T_FLANGER (Tempo Flanger)	Tempo-synchronized flanger.	107	0		
*1 DYN FLANGER	Dynamically controlled flanger.	110	0		
PHASER	PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	0	
	*1 PHASER2		72	8	
	*1 PHASER3		72	19	
	*1 T_PHASER1 (Tempo Phaser 1)	Tempo-synchronized phaser.	108	0	
	*1 T_PHASER2 (Tempo Phaser 2)		108	16	
	EP PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	17	
	EP PHASER2		72	18	
	EP PHASER3		72	16	
*1 DYN PHASER	Dynamically controlled phaser.	111	0		
DISTORTION	*1 V_DIST WARM (V Distortion Warm)	Distortion which simulates the sound of a vintage tube, fuzz effect, etc.	98	22	
	*1 V_DIST CLS H (V Distortion Classic Hard)		98	23	
	*1 V_DIST CLS S (V Distortion Classic Soft)		98	20	
	*1 V_DIST METAL (V Distortion Metal)		98	24	
	*1 V_DIST CRUNC (V Distortion Crunch)		98	18	
	*1 V_DIST BLUES (V Distortion Blues)		98	21	
	*1 V_DIST EDGY (V Distortion Edgy)		98	19	
	*1 V_DIST SOLID (V Distortion Solid)		98	25	
	*1 V_DST CLEAN1 (V Distortion Clean 1)		98	17	
	*1 V_DST CLEAN2 (V Distortion Clean 2)		98	26	
	*1 V_DIST TWIN (V Distortion Twin)		98	16	
	*1 V_DIST ROCA (V Distortion Rocability)		103	18	
	*1 V_DST JZ CLN (V Distortion Jazz Clean)		98	27	
	*1 V_DST FUSION (V Distortion Fusion)		103	19	
	*1 ST AMP SOLID (Stereo Amp Simulator Solid)		Stereo amp simulator.	75	29
	*1 ST AMP CRUNC (Stereo Amp Simulator Crunch)			75	30
	*1 ST AMP BLUES (Stereo Amp Simulator Blues)	75		28	
	*1 ST AMP CLEAN (Stereo Amp Simulator Clean)	75		27	
	*1 ST AMP HARP (Stereo Amp Simulator Blues Harp)	75	31		
	*1 V_DIST HARD (V Distortion Hard)	Distortion which simulates the sound of a vintage tube, fuzz effect, etc.	98	0	
	*1 V_DIST SOFT (V Distortion Soft)		98	2	
	DIST HARD1 (Distortion Hard 1)		Hard-edge distortion.	75	16
	DIST HARD2 (Distortion Hard 2)		75	22	
	DIST SOFT1 (Distortion Soft 1)		Soft, warm distortion.	75	17
	DIST SOFT2 (Distortion Soft 2)		75	23	
	DIST HEAVY (Distortion Heavy)	Heavy distortion.	73	0	
	OVERDRIVE	Adds mild distortion to the sound.	74	0	

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

	Type	Description	MSB	LSB	
DISTORTION	*1 ST DIST (Stereo Distortion)	Stereo distortion.	73	8	
	*1 ST OD (Stereo Overdrive)	Stereo overdrive.	74	8	
	*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	
	AMP SIM1 (Amp Simulator 1)	A simulation of a guitar amp.	75	0	
	*1 AMP SIM2 (Amp Simulator 2)		75	1	
	*2 ST AMP1 (Stereo Amp Simulator 1)		75	20	
	*2 ST AMP2 (Stereo Amp Simulator 2)		75	21	
	*2 ST AMP3 (Stereo Amp Simulator 3)		75	8	
	*2 ST AMP4 (Stereo Amp Simulator 4)		75	24	
	*2 ST AMP5 (Stereo Amp Simulator 5)		75	25	
	*2 ST AMP6 (Stereo Amp Simulator 6)	75	26		
	DISTORTION+ (Distortion/ Overdrive mixed with other effects)	*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 + Delay 2)		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 COMP+DIST1 (Compressor + Distortion 1)		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 + Distortion 2)		73	1		
*1 CMP+DST+TDL (Compressor + Distortion + Tempo Delay)		Compressor, Distortion and Tempo Delay are connected in series.	101	0	
*1 CMP+OD+TDLY1 (Compressor + Overdrive + Tempo Delay 1)		Compressor, Overdrive and Tempo Delay are connected in series.	101	1	
*1 CMP+OD+TDLY2 (Compressor + Overdrive + Tempo Delay 2)			101	16	
*1 CMP+OD+TDLY3 (Compressor + Overdrive + Tempo Delay 3)			101	17	
*1 CMP+OD+TDLY4 (Compressor + Overdrive + Tempo Delay 4)			101	18	
*1 CMP+OD+TDLY5 (Compressor + Overdrive + Tempo Delay 5)			101	19	
*1 CMP+OD+TDLY6 (Compressor + Overdrive + Tempo Delay 6)			101	20	
*1 V_DST H+TDL1 (V Distortion Hard + Tempo Delay 1)		V Distortion Hard and Tempo Delay are connected in series.	103	0	
*1 V_DST H+TDL2 (V Distortion Hard + Tempo Delay 2)		103	17		
*1 V_DST S+TDL1 (V Distortion Soft + Tempo Delay 1)		V Distortion Soft and Tempo Delay are connected in series.	103	1	
*1 V_DST S+TDL2 (V Distortion Soft + Tempo Delay 2)	103	16			
PITCH CHANGE	*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	
WAH AUTO	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 + Distortion 2)		78	1	
	*1 AT.WH+DST HD (Auto Wah + Distortion Hard)		78	21	
	*1 AT.WH+DST HV (Auto Wah + Distortion Heavy)		78	23	
	*1 AT.WH+DST LT (Auto Wah + Distortion Lite)		78	25	
	*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	
	*1 AT.WH+OD HD (Auto Wah + Overdrive Hard)		78	22	
	*1 AT.WH+OD HV (Auto Wah + Overdrive Heavy)		78	24	
	*1 AT.WH+OD LT (Auto Wah + Overdrive Lite)		78	26	
	TEMPO AT.WAH (Tempo Auto Wah)	Tempo-synchronized Auto Wah.	79	0	
	*1 T_AT.WH+DST (Tempo Auto Wah + Distortion)	Tempo-synchronized Auto Wah. The output can be distorted by Distortion.	79	1	
	*1 T_A.WH+DSTHD (Tempo Auto Wah + Distortion Hard)		79	21	
	*1 T_A.WH+DSTHV (Tempo Auto Wah + Distortion Heavy)		79	23	
	*1 T_A.WH+DSTLT (Tempo Auto Wah + Distortion Lite)		79	25	
	*1 T_AT.WH+OD (Tempo Auto Wah + Overdrive)	Tempo-synchronized Auto Wah. The output can be distorted by Overdrive.	79	2	
	*1 T_A.WH+OD HD (Tempo Auto Wah + Overdrive Hard)		79	22	
*1 T_A.WH+OD HV (Tempo Auto Wah + Overdrive Heavy)	79		24		
*1 T_A.WH+OD LT (Tempo Auto Wah + Overdrive Lite)	79		26		
WAH TCH/PDL (Touch Wah/ Pedal Wah)	TOUCH WAH1	Changes the center frequency of a wah filter according to the input level.	82	0	
	TOUCH WAH2		82	8	
	*1 TOUCH WAH3	82	20		
	*1 TC.WH+DST1 (Touch Wah + Distortion 1)	The output of a Touch Wah can be distorted by Distortion.	82	16	
	*1 TC.WH+DST2 (Touch Wah + Distortion 2)		82	1	
	*1 TC.WH+DST HD (Touch Wah + Distortion Hard)		82	21	
	*1 TC.WH+DST HV (Touch Wah + Distortion Heavy)		82	23	
	*1 TC.WH+DST LT (Touch Wah + Distortion Lite)		82	25	
	*1 TC.WAH+OD1 (Touch Wah + Overdrive 1)	The output of a Touch Wah can be distorted by Overdrive.	82	17	
	*1 TC.WAH+OD2 (Touch Wah + Overdrive 2)		82	2	
	*1 TC.WAH+OD HD (Touch Wah + Overdrive Hard)		82	22	
	*1 TC.WAH+OD HV (Touch Wah + Overdrive Heavy)		82	24	
	*1 TC.WAH+OD LT (Touch Wah + Overdrive Lite)		82	26	
	*1 WH+DST+DLY1 (Wah + Distortion + Delay 1)	Wah, Distortion and Delay are connected in series.	97	16	
	*1 WH+DST+DLY2 (Wah + Distortion + Delay 2)	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		
	CLAVI TC.WAH (Clavi Touch Wah)	Clavinet Touch Wah	82	18	
EP TC.WAH (EP Touch Wah)	EP Touch Wah	82	19		
*1 PEDAL WAH (Pedal Wah)	Changes the center frequency of a wah filter according to "Pedal Control" parameter. (See Effect Parameter List.)	122	0		

	Type	Description	MSB	LSB	
WAH TCH/PDL (Touch Wah/ Pedal Wah)	*1 PEDAL WH+DST (Pedal Wah + Distortion)	The output of a Pedal Wah can be distorted by Distortion.	122	1	
	*1 P.WH+DIST HD (Pedal Wah + Distortion Hard)		122	21	
	*1 P.WH+DIST HV (Pedal Wah + Distortion Heavy)		122	23	
	*1 P.WH+DIST LT (Pedal Wah + Distortion Lite)		122	25	
	*1 PEDAL WH+OD (Pedal Wah + Overdrive)	The output of a Pedal Wah can be distorted by Overdrive.	122	2	
	*1 P.WH+OD HD (Pedal Wah + Overdrive Hard)		122	22	
	*1 P.WH+OD HV (Pedal Wah + Overdrive Heavy)		122	24	
*1 P.WH+OD LT (Pedal Wah + Overdrive Lite)	122		26		
DYNAMIC	COMP MED (Compressor Medium)	Compressor with medium setting.	83	16	
	COMP HEAVY (Compressor Heavy)	Compressor with heavy setting.	83	17	
	*1 COMP MELODY (Compressor Melody)	Compressor for the Melody part.	105	16	
	*1 COMP BASS (Compressor Bass)	Compressor for the Bass part.	105	17	
	*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 SP	*1 DUAL ROT BRT (Dual Rotor Speaker Bright)	Simulates a rotary speaker.	99	16	
	*1 DUAL ROT WRM (Dual Rotor Speaker Warm)		99	17	
	*1 DUAL ROT SP1 (Dual Rotor Speaker 1)		99	0	
	*1 DUAL ROT SP2 (Dual Rotor Speaker 2)		99	1	
	ROTARY SP1 (Rotary Speaker 1)		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		
TREMLO	TREMLO1	Rich Tremolo effect with both volume and pitch modulation.	70	16	
	TREMLO2		71	19	
	TREMLO3		70	0	
	EP TREMLO		70	18	
	GT TREMLO1 (Guitar Tremolo 1)		71	20	
	GT TREMLO2 (Guitar Tremolo 2)		70	19	
	VIBE VIBRATE		Vibraphone effect	119	0
	T_TREMLO (Tempo Tremolo)	Tempo-synchronized Tremolo.	120	0	
SPATIAL	AUTO PAN1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16	
	AUTO PAN2		71	0	
	*1 AUTO PAN3		71	1	
	EP AUTOPAN	71	21		
	T_AUTO PAN1 (Tempo Auto Pan 1)	Tempo-synchronized auto pan.	121	0	
	*1 T_AUTO PAN2 (Tempo Auto Pan 2)	121	1		
EQ/ENHANCER	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	
	ST 3BAND EQ	A stereo EQ with adjustable LOW, MID, and HIGH equalizing.	76	18	
	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		
MISC	*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 LOOP FX1	Degrades the audio quality of the input signal.	94	16	
	*1 LOOP FX2		94	17	
	*1 LO-FI		94	0	
	*1 LO-FI DRUM1		94	18	
	*1 LO-FI DRUM2	Degrades the audio quality of the input signal. For the drum part.	94	19	
	LO-FI DRUM3		76	19	
	LO-FI DRUM4		76	20	
	*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		
NO EFFECT	*3 -	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 DSP 1 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.
- Parameter 10 Dry/Wet only affects insertion type effects.

(*1) Reverb Block
(*2) Chorus Block
(*3) DSP Block

REVERB

BASIC HALL, LIGHT HALL, HALL 1, 2, 3, 4, 5, HALL M, HALL L, ATMO HALL, ACOSTIC ROOM, DRUMS ROOM, PERC ROOM, ROOM 1, 2, 3, 4, 5, 6, 7, ROMM S, ROOM M, ROOM L, STAGE 1, 2, 3, 4, PLATE 1, 2, 3, GM PLATE

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3s – 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, 3)	0 – 127 0 – 63	table#5	
4	HPF Cutoff	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
5	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Rev Delay	0.1ms – 200.0ms (*1) 0.1ms – 99.3ms (*2, 3)	0 – 127 0 – 63	table#5	
12	Density	0 – 4 (*1, 2) 0 – 2 (*3)	0 – 4 0 – 2		
13	Er/Rev Balance	E63>R – E=R – E<R63	1 – 64 – 127		
14	High Damp	0.1 – 1.0	1 – 10		
15	Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
16					

BALLAD HALL, PIANO HALL, LARGE HALL, MEDIUM HALL WARM ROOM, WOODY ROOM, RICH PLATE

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3s – 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, 22Hz – 8.0kHz	0, 1 – 52	table#3	
5	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13					
14	High Damp	0.1 – 1.0	1 – 10		
15					
16					

TUNNEL, CANYON, BASEMENT, WHITE ROOM

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3s – 30.0s	0 – 69	table#4	
2	Diffusion	0 – 10	0 – 10		
3	Initial Delay	0.1ms – 200.0ms (*1) 0.1ms – 99.3ms (*3)	0 – 127 0 – 63	table#5	
4	HPF Cutoff	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
5	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
6	Width	0.5m – 30.2m (*1) 0.5m – 10.2m (*3)	0 – 104 0 – 37	table#11	
7	Height	0.5m – 30.2m (*1) 0.5m – 20.2m (*3)	0 – 104 0 – 73	table#11	
8	Depth	0.5m – 30.2m	0 – 104	table#11	
9	Wall Vary	0 – 30	0 – 30		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Rev Delay	0.1ms – 200.0ms (*1) 0.1ms – 99.3ms (*3)	0 – 127 0 – 63	table#5	
12	Density	0 – 4	0 – 4		
13	Er/Rev Balance	E63>R – E=R – E<R63	1 – 64 – 127		
14	High Damp	0.1 – 1.0	1 – 10		
15	Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
16					

DELAY

DELAY LCR1, DELAY LCR2

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1ms – 1638.3ms	1 – 16383		
2	Rch Delay	0.1ms – 1638.3ms	1 – 16383		
3	Cch Delay	0.1ms – 1638.3ms	1 – 16383		
4	Feedback Delay	0.1ms – 1638.3ms	1 – 16383		
5	Feedback Level	-63 – 0 – +63	1 – 64 – 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 – 64 – 127	table#15	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

DELAY LR

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1ms – 1638.3ms	1 – 16383		
2	Rch Delay	0.1ms – 1638.3ms	1 – 16383		
3	Feedback Delay 1	0.1ms – 1638.3ms	1 – 16383		
4	Feedback Delay 2	0.1ms – 1638.3ms	1 – 16383		
5	Feedback Level	-63 – 0 – +63	1 – 64 – 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 – 64 – 127	table#15	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

ECHO

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1ms – 1486.0ms	1 – 14860		
2	Lch Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
3	Rch Delay1	0.1ms – 1486.0ms	1 – 14860		
4	Rch Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
5	High Damp	0.1 – 1.0	1 – 10		
6	Lch Delay2	0.1ms – 1486.0ms	1 – 14860		
7	Rch Delay2	0.1ms – 1486.0ms	1 – 14860		
8	Delay2 Level	0 – 127	0 – 127	table#18	
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

CROSS DELAY 1, CROSS DELAY 2

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	0.1ms – 1486.0ms	1 – 14860		
2	R->L Delay	0.1ms – 1486.0ms	1 – 14860		
3	Feedback Level	-63 – 0 – +63	1 – 64 – 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 – 64 – 127	table#15	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

TEMPO DELAY 1, TEMPO DELAY 2, TEMPO ECHO

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
3	Feedback High Dump	0.1 – 1.0	1 – 10		
4	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
5	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40		
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58		
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

TEMPO CROSS 1, 2, 3, 4

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 – 0 – +63	1 – 64 – 127	table#16	
4	Input Select	L, R, L&R	0 – 2		
5	Feedback High Dump	0.1 – 1.0	1 – 10		
6	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40		
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58		
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

ER/KARAOKE

KARAOKE 1, 2, 3

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1ms – 400.0ms	0 – 127	table#7	
2	Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
3	HPF Cutoff	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
4	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Density	0 – 3	0 – 3		
12					
13					
14					
15					
16					

ER1, ER2

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 – 0 – +63	1 – 64 – 127	table#16	
6	HPF Cutoff	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
7	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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 1, REVERSE GATE

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 – 0 – +63	1 – 64 – 127	table#16	
6	HPF Cutoff	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
7	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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					

CHORUS

CHORUS 1, 2, 3, 4, 5, 6, 7, 8, CHORUS FAST, CHORUS LITE, GM CHORUS 1, 2, 3, 4, FB CHORUS, CELESTE 1, 2

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 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

SYMPHONIC 1, SYMPHONIC 2

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15					
16					

ENS DETUNE 1, ENS DETUNE 2

No.	Parameter	Display	Value	See Table	Control
1	Detune	-50cent – 0cent – +50cent	14 – 64 – 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 – 64 – 127	table#15	●
11	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
12	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
14	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15					
16					

FLANGER

FLANGER 1, 2, 3, 4, 5, GM FLANGER

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 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
15					
16					

V_FLANGER

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	0.00Hz – 39.7Hz	0 – 127	table#1	
2	LFO Depth	0 – 127	0 – 127	table#19	
3	LFO Wave	Triangle, Sine, Random	0 – 2		
4	Delay Offset	0.09ms – 36.21ms	0 – 139	table#23	
5	Feedback Level	-100% – 0% – +100%	0 – 100 – 200		
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	Modulation Phase	-180deg – 0deg – +180deg	0 – 8 – 16	table#24	
15	Feedback High Damp	0.1 – 1.0	1 – 10		
16	Analog Feel	0 – 10	0 – 10		

T_FLANGER

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 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	EQ mid frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ mid gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ mid width	0.1 – 12.0	1 – 120		
14	LFO phase difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
15					
16					

DYN FLANGER

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 – 0 – +63	1 – 64 – 127	table#17	
4	Attack Time	0.3ms – 227ms	0 – 127	table#20	
5	Release Time	2.6ms – 2171.4ms	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 – 64 – 127	table#15	
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

PHASER

PHASER 1, EP PHASER 1, 2, 3

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 – 0 – +63	1 – 64 – 127	table#16	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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, PHASER 3

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 – 0 – +63	1 – 64 – 127	table#16	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Stage	3 – 11	3 – 11		
12					
13	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
14					
15					
16					

T_PHASER 1, T_PHASER 2

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 – 0 – +63	1 – 64 – 127	table#16	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Stage	3 – 11	3 – 11		
12					
13	LFO phase difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
14					
15					
16					

DYN PHASER

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 – 0 – +63	1 – 64 – 127	table#16	
4	Attack Time	0.3ms – 227ms	0 – 127	table#20	
5	Release Time	2.6ms – 2171.4ms	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 – 64 – 127	table#15	
11	Stage	4, 5, 6	4 – 6		
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

DISTORTION

V_DIST WARM, V_DIST CLS H, V_DIST CLS S, V_DIST METAL, V_DIST CRUNC,
V_DIST BLUES, V_DIST EDGY, V_DIST SOLID, V_DIST CLEAN 1, V_DIST CLEAN 2,
V_DIST TWIN, V_DIST JZ CLN, V_DIST HARD, V_DIST SOFT

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 Balance	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13					
14					
15					
16					

V_DIST ROCA, V_DIST FUSION

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 – 0 – +63	1 – 64 – 127	table#16	
8	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
9	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

ST AMP SOLID, ST AMP CRUNC, ST AMP BLUES, ST AMP CLEAN, ST AMP HARP, ST DIST HARD, ST DIST SOFT, ST AMP 1, 2, 3, 4, 5, 6

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 – 18kHz, Thru	34 – 59, 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 – 64 – 127	table#15	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12					
13					
14					
15					
16					

DIST HARD 1, DIST HARD 2, DIST SOFT 1, DIST SOFT 2, AMP SIM 1

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 – 18kHz, Thru	34 – 59, 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 – 64 – 127	table#15	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12					
13					
14					
15					
16					

DIST HEAVY, OVERDRIVE

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	-12dB – 0dB – +12dB	52 – 64 – 76		
4	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 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	-12dB – 0dB – +12dB	52 – 64 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12					
13					
14					
15					
16					

ST DIST, ST OD

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	-12dB – 0dB – +12dB	52 – 64 – 76		
4	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 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	-12dB – 0dB – +12dB	52 – 64 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Edge (Clip Curve)	0 – 127	0 – 127		
12					
13					
14					
15					
16					

AMP SIM 2

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 – 18kHz, Thru	34 – 59, 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 – 64 – 127	table#15	
11					
12					
13					
14					
15					
16					

DISTORTION+

DST+DELAY 1 , DST+DELAY 2, OD+DELAY 1, OD+DELAY 2

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay Time	0.1ms – 1638.3ms	1 – 16383		
2	Rch Delay Time	0.1ms – 1638.3ms	1 – 16383		
3	Delay Feedback Time	0.1ms – 1638.3ms	1 – 16383		
4	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
9	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13					
14					
15					
16					

CMP+DST+DLY 1, CMP+DST+DLY 2, CMP+OD+DLY 1, CMP+OD+DLY 2

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1ms – 1638.3ms	1 – 16383		
2	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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					

V_DST H+DLY, V_DST S+DLY

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	0.1ms – 1638.3ms	1 – 16383		
7	Delay Time R	0.1ms – 1638.3ms	1 – 16383		
8	Delay Feedback Time	0.1ms – 1638.3ms	1 – 16383		
9	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 127	table#16	
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

DST+TDLY, OD+TDLY

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
9	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13					
14					
15					
16					

COMP+DIST 1, COMP+DIST 2

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	-12dB – 0dB – +12dB	52 – 64 – 76		
4	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 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	-12dB – 0dB – +12dB	52 – 64 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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					

CMP+DST+TDL, CMP+OD+TDLY 1, 2, 3, 4, 5, 6

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	
2	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
9	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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					

V_DST H+TDL 1, V_DST H+TDL 2, V_DST S+TDL 1, V_DST S+TDL 2

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 – 0 – +63	1 – 64 – 127	table#16	
8	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
9	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

PITCH CHANGE

PITCH CHG 1, PITCH CHG 2

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	-50cent – 0cent – +50cent	14 – 64 – 114		
4	Fine 2	-50cent – 0cent – +50cent	14 – 64 – 114		
5	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Pan 1	L63 – C – R63	1 – 64 – 127		
12	Output Level 1	0 – 127	0 – 127	table#18	
13	Pan 2	L63 – C – R63	1 – 64 – 127		
14	Output Level 2	0 – 127	0 – 127	table#18	
15					
16					

PITCH CHG 3

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	-50cent – 0cent – +50cent	14 – 64 – 114		
4	Fine 2	-50cent – 0cent – +50cent	14 – 64 – 114		
5	Feedback Level	-63 – 0 – +63	1 – 64 – 127		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	Pan 1	L63 – C – R63	1 – 64 – 127		
12	Output Level 1	0 – 127	0 – 127	table#18	
13	Pan 2	L63 – C – R63	1 – 64 – 127		
14	Output Level 2	0 – 127	0 – 127	table#18	
15					
16					

WAH AUTO

AUTO WAH 1, AUTO WAH 2

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12					
13					
14					
15					
16					

AT.WAH+DST 1, 2, AT.WH+DST HD, AT.WH+DST HV, AT.WH+DST LT, AT.WAH+OD 1, 2, AT.WH+OD HD, AT.WH+OD HV, AT.WH+OD LT

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
14	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
15	Output Level	0 – 127	0 – 127	table#18	
16					

TEMPO AT.WAH

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	Cutoff Frequency Offset	0 – 127	0 – 127		●
4	Resonance	1.0 – 12.0	10 – 120		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12					
13					
14					
15					
16					

T_AT.WH+DST, T_A.WH+DSTHD, T_A.WH+DSTHV, T_A.WH+DSTLT, T_AT.WH+OD, T_A.WH+OD HD, T_A.WH+OD HV, T_A.WH+OD LT

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	Cutoff Frequency Offset	0 – 127	0 – 127		●
4	Resonance	1.0 – 12.0	10 – 120		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
14	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
15	Output Level	0 – 127	0 – 127	table#18	
16					

WAH TCH/PDL

TOUCH WAH 1, TC.WH+DST 1, TC.WH+DST 2

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12					
13					
14					
15					
16					

TOUCH WAH 2, TOUCH WAH 3, TC.WH+DST HD, TC.WH+DST HV, TC.WH+DST LT, TC.WH+OD 1, 2, TC.WH+OD HD, TC.WH+OD HV, TC.WH+OD LT, CLAVI TC.WAH, EP TC.WAH

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
14	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
15	Output Level	0 – 127	0 – 127	table#18	
16	Release	10ms – 680ms	52 – 67	table#12	

WH+DST+DLY 1, WH+DST+DLY 2, WH+OD+DLY 1, WH+OD+DLY 2

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1ms – 1638.3ms	1 – 16383		●
2	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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	10ms – 680ms	52 – 67	table#12	
15					
16					

WH+DST+TDLY, WH+OD+TDLY 1, WH+OD+TDLY 2

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	64th/3 – 4thx6	0 – 19	table#14	●
2	Delay Feedback Level	-63 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	L/R Diffusion	-63ms – 0ms – 63ms	1 – 64 – 127		
9	Lag	-63ms – 0ms – 63ms	1 – 64 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 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	10ms – 680ms	52 – 67	table#12	
15					
16					

PEDAL WAH

No.	Parameter	Display	Value	See Table	Control
1	Pedal Control	0 – 127	0 – 127		●
2	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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12					
13					
14					
15					
16					

PEDAL WH+DST, P.WH+DIST HD, P.WH+DIST HV, P.WH+DIST LT, PEDAL WH+OD, P.WH+OD HD, P.WH+OD HV, P.WH+OD LT

No.	Parameter	Display	Value	See Table	Control
1	Pedal Control	0 – 127	0 – 127		●
2	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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Gain (distortion)	-12dB – 0dB – +12dB	52 – 64 – 76		
14	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
15	Output Level	0 – 127	0 – 127	table#18	
16					

DYNAMIC

COMP MED, COMP HEAVY, COMPRESSOR

No.	Parameter	Display	Value	See Table	Control
1	Attack	1ms – 40ms	0 – 19	table#8	
2	Release	10ms – 680ms	0 – 15	table#9	
3	Threshold	-48dB – -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					

COMP MELODY, COMP BASS, MBAND COMP

No.	Parameter	Display	Value	See Table	Control
1	Type	Normal, Low, Mid, High, Low/High, Low/Mid, Mid/High, Full Bit, Wild, Attack, Low End, Hard, Basic	0 – 12		
2	Threshold Offset	-32 – +32	32 – 96		●
3	Low Gain Offset	-63 – 0 – +63	1 – 64 – 127		
4	Mid Gain Offset	-63 – 0 – +63	1 – 64 – 127		
5	High Gain Offset	-63 – 0 – +63	1 – 64 – 127		
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOISE GATE

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

ROTARY SP

DUAL ROT BRT, DUAL ROT WRM, DUAL ROT SP 1, 2

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed Slow	0.00Hz – 2.65Hz	0 – 63	table#1	
2	Horn Speed Slow	0.00Hz – 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<H63	1 – 64 – 127		
10					
11	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
12	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
14	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	Mic L-R Angle	0deg – 180deg	0 – 60		
16	Speed Control	Slow, Fast	0 – 1		●

ROTARY SP 1, ROTARY SP 6

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15					
16					

ROTARY SP 2, 3, 7

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15					
16					

ROTARY SP 4

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
15	Input Mode	mono, stereo	0 – 1		
16					

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

ROTARY SP 5

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 – 0 – +63	1 – 64 – 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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

AMP+ROT SP

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	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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
16	Output Level	0 – 127	0 – 127	table#18	

2WAY ROT SP

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.00Hz – 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 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	Mic L-R Angle	0deg – 180deg	0 – 60	resolution= 3deg.	
13					
14					
15					
16					

AMP+2ROT SP

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.00Hz – 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<H63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	Mic L-R Angle	0deg – 180deg	0 – 60		
13	AMP Type	Off, Stack, Combo, Tube (AMPSIM only)	0 – 3		
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
16	Output Level	0 – 127	0 – 127	table#18	

DST+ROT SP, OD+ROT SP

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
16	Output Level	0 – 127	0 – 127	table#18	

DST+2ROT SP, OD+2ROT SP

No.	Parameter	Display	Value	See Table	Control
1	Rotor Speed	0.00Hz – 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<H63	1 – 64 – 127		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	Mic L-R Angle	0deg – 180deg	0 – 60		
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
16	Output Level	0 – 127	0 – 127	table#18	

TREMOLO

TREMOLO 1, TREMOLO 3, EP TREMOLO, GT TREMOLO 2

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
15	Input Mode	mono, stereo	0 – 1		
16					

TREMOLO 2, GT TREMOLO 1

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15					
16					

VIBE VIBRATE

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet Balance	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
15	Input Mode	mono, stereo	0 – 1		
16	Vibrate SW	Off, On	0 – 1		●

T_TREMOLO

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	●
2	AM Depth	0 – 127	0 – 127		
3	PM Depth	0 – 127	0 – 127		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4 – 64 – 124	resolution=3deg.	
15	Input Mode	mono, stereo	0 – 1		
16					

SPATIAL

AUTO PAN 1, AUTO PAN 2, EP AUTO PAN

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15					
16					

AUTO PAN 3

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency (*2, 3)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*2, 3)	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width (*2, 3)	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

T_AUTO PAN 1

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	●
2	L/R Depth	0 – 127	0 – 127		
3	F/R Depth	0 – 127	0 – 127		
4	PAN Direction	L<->R, L->R, L<-R, Lturn, Rturn, L/R	0 – 5		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14					
15					
16					

T_AUTO PAN 2

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	●
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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10					
11	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
13	EQ Mid Width	0.1 – 12.0	1 – 120		
14					
15	Input Mode	mono, stereo	0 – 1		
16					

EQ/ENHANCER

EQ DISCO, EQ TEL, 3BAND EQ, ST 3BAND EQ

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
2	EQ Mid Frequency	100Hz – 16.0kHz	14 – 58	table#3	
3	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
4	EQ Mid Width	0.1 – 12.0	1 – 120		
5	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
6	EQ Low Frequency	50Hz – 2.0kHz	8 – 40	table#3	
7	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono, stereo	0 – 1		
16					

2BAND EQ

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
2	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
3	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
4	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

HM ENHANCE 1, HM ENHANCE 2

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					

MISC

VCE CANCEL

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					

AMBIENCE

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	-12dB – 0dB – +12dB	52 – 64 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	●
11					
12					
13					
14					
15					
16					

TALKING MOD

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					

LOOP FX 1, LOOP FX 2, LO-FI , LO-FI DRUM 1, LO-FI DRUM 2

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	-6dB – +36dB	0 – 42		
4	LPF Cutoff	63Hz – 18kHz, Thru	10 – 59, 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 – 64 – 127	table#15	●
11					
12					
13					
14					
15	Input Mode	mono, stereo			
16					

LO-FI DRUM 3, LO-FI DRUM 4

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
2	EQ Mid Frequency	100Hz – 16.0kHz	14 – 58	table#3	
3	EQ Mid Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
4	EQ Mid Width	0.1 – 12.0	1 – 120		
5	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 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					

ISOLATOR

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					

DYN FILTER

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	0.3ms – 227ms	0 – 127	table#20	
6	Release Time	2.6ms – 2171.4ms	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 – 64 – 127	table#15	
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

NO EFFECT

NO EFFECT

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

DYN RINGMOD

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
3	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
4	Attack Time	0.3ms – 227ms	0 – 127	table#20	
5	Release Time	2.6ms – 2171.4ms	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 – 64 – 127	table#15	
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

THRU

THRU

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

RING MOD

No.	Parameter	Display	Value	See Table	Control
1	OSC Frequency Course	0.7Hz – 5kHz	0 – 127	table#22	●
2	OSC Frequency Fine	0 – 127	0 – 127		
3	LFO Wave	Triangle, Sine	0 – 1		
4	LFO Depth	0 – 127	0 – 127	table#19	
5	LFO Freq	0.00Hz – 39.7Hz	0 – 127	table#1	
6	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0, 1 – 52	table#3	
7	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34 – 59, 60	table#3	
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 64 – 127	table#15	
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52 – 64 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52 – 64 – 76		

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	10.8
7	0.29	39	1.64	71	3.28	103	11.4
8	0.34	40	1.68	72	3.37	104	12.1
9	0.38	41	1.72	73	3.45	105	12.8
10	0.42	42	1.77	74	3.53	106	13.5
11	0.46	43	1.81	75	3.62	107	14.1
12	0.51	44	1.85	76	3.70	108	14.8
13	0.55	45	1.89	77	3.87	109	15.5
14	0.59	46	1.94	78	4.04	110	16.2
15	0.63	47	1.98	79	4.21	111	16.8
16	0.67	48	2.02	80	4.37	112	17.5
17	0.72	49	2.06	81	4.54	113	18.2
18	0.76	50	2.10	82	4.71	114	19.5
19	0.80	51	2.15	83	4.88	115	20.9
20	0.84	52	2.19	84	5.05	116	22.2
21	0.88	53	2.23	85	5.22	117	23.6
22	0.93	54	2.27	86	5.38	118	24.9
23	0.97	55	2.31	87	5.55	119	26.2
24	1.01	56	2.36	88	5.72	120	27.6
25	1.05	57	2.40	89	6.06	121	28.9
26	1.09	58	2.44	90	6.39	122	30.3
27	1.14	59	2.48	91	6.73	123	31.6
28	1.18	60	2.52	92	7.07	124	33.0
29	1.22	61	2.57	93	7.40	125	34.3
30	1.26	62	2.61	94	7.74	126	37.0
31	1.30	63	2.65	95	8.08	127	39.7

table#4
Reverb time

Data	Value	Data	Value	Data	Value
0	0.3	32	3.5	64	17.0
1	0.4	33	3.6	65	18.0
2	0.5	34	3.7	66	19.0
3	0.6	35	3.8	67	20.0
4	0.7	36	3.9	68	20.0
5	0.8	37	4.0	69	25.0
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	200
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
17	30
18	35
19	40

table#9
Compressor
Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65

table#15
Dry/Wet

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

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

Data	Value (%)	Data	Value (%)	Data	Value (%)
1	-99.20654297	44	-31.49414063	87	36.21826172
2	-97.63183594	45	-29.91943359	88	37.79296875
3	-96.05712891	46	-28.34472656	89	39.36767578
4	-94.48242188	47	-26.77001953	90	40.94238281
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	-4.724212094	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	4.724212094	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	37.87
2	-71.14	34	-34.42	66	2.29	98	39.01
3	-70.00	35	-33.28	67	3.44	99	40.16
4	-68.85	36	-32.13	68	4.59	100	41.31
5	-67.70	37	-30.98	69	5.74	101	42.46
6	-66.55	38	-29.83	70	6.88	102	43.60
7	-65.41	39	-28.69	71	8.03	103	44.75
8	-64.26	40	-27.54	72	9.18	104	45.90
9	-63.11	41	-26.39	73	10.33	105	47.05
10	-61.96	42	-25.24	74	11.47	106	48.19
11	-60.82	43	-24.10	75	12.62	107	49.34
12	-59.67	44	-22.95	76	13.77	108	50.49
13	-58.52	45	-21.80	77	14.92	109	51.64
14	-57.37	46	-20.65	78	16.06	110	52.78
15	-56.23	47	-19.51	79	17.21	111	53.93
16	-55.08	48	-18.36	80	18.36	112	55.08
17	-53.93	49	-17.21	81	19.51	113	56.23
18	-52.78	50	-16.06	82	20.65	114	57.37
19	-51.64	51	-14.92	83	21.80	115	58.52
20	-50.49	52	-13.77	84	22.95	116	59.67
21	-49.34	53	-12.62	85	24.10	117	60.82
22	-48.19	54	-11.47	86	25.24	118	61.96
23	-47.05	55	-10.33	87	26.39	119	63.11
24	-45.90	56	-9.18	88	27.54	120	64.26
25	-44.75	57	-8.03	89	28.69	121	65.41
26	-43.60	58	-6.88	90	29.83	122	66.55
27	-42.46	59	-5.74	91	30.98	123	67.70
28	-41.31	60	-4.59	92	32.13	124	68.85
29	-40.16	61	-3.44	93	33.28	125	70.00
30	-39.01	62	-2.29	94	34.42	126	71.14
31	-37.87	63	-1.15	95	35.57	127	72.29
32	-36.72	64	0.00	96	36.72		

table#18
Level

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

table#19
LFO Depth

Data	Value (%)	Data	Value (%)	Data	Value (%)	Data	Value (%)
0	0.00	32	25.20	64	50.39	96	75.59
1	0.78	33	25.98	65	51.17	97	76.37
2	1.56	34	26.76	66	51.95	98	77.15
3	2.34	35</					

Parameter Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice Set	Voice Set Group	Song		Style		Registration		Scale Tune	Param Lock Group	Note	
	Setup	MIDI Setup	User Effect	Musical FINDER			Song	Song Setup Group	Style Data	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	-	O	Keyboard Voice	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	-	
Audio Player File	X	X	X	X	X	-	X	-	X	X	X	O	AUDIO	X	-	
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	O	SONG	X	-	Setting is linked to Channel on/off.
ExtraTracks On/Off	X	X	X	X	X	-	X	-	X	X	X	O	SONG	X	-	Setting is linked to Channel on/off.
A-B Repeat	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Syncho 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	-	
Track2 Channel	O	X	X	X	X	-	O	-	X	X	X	X	-	X	-	
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	-	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																
Master Tempo	X	X	X	X	X	-	O	TEMPO	O	X	X	O	Tempo	X	-	
Menu > Function > Digital Rec Menu > 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	-	
Lyric/Text																
Text File (Panel Setting)	X	X	X	X	X	-	X	-	X	X	X	O	TEXT	X	-	
Viewer Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Text Sw																
Text Size	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration			Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	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	-	
Menu > Function > Digital Rec Menu > 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 Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	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	-	
Style Tempo	O	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Search 1/2 display																
Music	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Keyword	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Style	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Beat	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
SearchArea	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Tempo (Low)	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Tempo (High)	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Genre	X	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	-	
Sync Start	X	X	X	X	X	-	X	-	X	X	X	O	MultiPad	X	-	
Menu > Function > Digital Rec Menu > 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	-	
COMMON																
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	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
COMMON																
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	-	
Octave for Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Octave for Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
Octave for Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
CONTROLLER																
JOYSTICK +Y Low Pass Filter Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y Low Pass Filter Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y Low Pass Filter Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK +Y Amplitude Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y Amplitude Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y Amplitude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK +Y LFO PMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y LFO PMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y LFO PMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK +Y LFO FMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y LFO FMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y LFO FMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK +Y LFO AMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y LFO AMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK +Y LFO AMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK -Y Low Pass Filter Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y Low Pass Filter Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y Low Pass Filter Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK -Y Amplitude Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y Amplitude Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y Amplitude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK -Y LFO PMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y LFO PMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y LFO PMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK -Y LFO FMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y LFO FMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y LFO FMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	X	-	
JOYSTICK -Y LFO AMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y LFO AMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	X	-	
JOYSTICK -Y 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	-	

Parameter Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
SOUND																
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	-	
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	-	
OrganFlute > Volume/Attack																
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	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
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	-	
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	Transpose	X	-	
Song Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	X	-	
Keyboard Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	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	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
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	-	
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	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
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 > Master 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	X	-	
Initial Touch Part OnOff	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-	
Joystick +Y PartOnOff	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-	
Joystick -Y PartOnOff	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	-	
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																
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.

Parameter Chart / Parametertabelle / Tableau des paramètres

Parameter	System				Voice Set	Voice Set Group	Song		Style			Registration		Scale Time	Param Lock Group	Note
	Setup	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
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	-	
OTS																
OTSNumber	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Master Volume Fade In/Out																
Fade in/out	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Metronome																
Start/Stop	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
Transpose																
Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	X	-	
Upper Octave																
UpperOctave	X	X	X	X	X	-	X	-	X	X	X	O	Voice	X	-	
Direct Access																
Direct Access	X	X	X	X	X	-	X	-	X	X	X	X	-	X	-	
USB Audio																
Audio Volume	O	X	X	X	X	-	X	-	X	X	X	O	AUDIO	X	-	
Audio Player Repeat Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	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/Organ Voice	Song	Right/Left	Keyboard	Style	Extra	Right/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right/Left)		
Key Off [GM1] [GM2]	8nH (n: Channel Number)	kk	Key no. (0-127)	vv	Velocity (0-127)	0	0	0	0	0	0	X	X	0	0	X	0	X	X		
Key On [GM1] [GM2]	9nH (n: Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	0	0	0	0	0	0	●	0	0	0	●	0	X	0		
Control Change	BnH	0 (00H)	Bank Select MSB [GM2]	0 (00H) 8 (08H) 64 (40H) 104 (68H) 120 (78H) 121 (79H) 126 (7EH) 127 (7FH)	Normal MegaVoice SFX Voice Normal GM2 Rhythm GM2 Normal SFX Kit Drum Kit	0	0	0	0 (Right1)	0	0	●	0	●	●	X	0	0	0		
		1 (01H)	Modulation [GM1] [GM2]	0-127 (00H...7FH)	Data	0	0	0	0 (All Keyboard parts)	0	0	●	0	0	0	0	●	0	0	0	
		5 (05H)	Portamento Time [GM2]	0-127 (00H...7FH)	Data	0 (Except Organ Flutes)	0	0	0	0 (All Keyboard parts)	X	0	●	0	X	0	0	X	0	0	0
		6 (06H)	Data Entry MSB [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	●	0	0	0	0	X	0	X	0
		7 (07H)	Main Volume [GM1] [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	●	●	●	●	X	0	0	0	0
		10 (0AH)	Panpot [GM1] [GM2]	0-127 (00H...7FH)	L64...C...R63	0	0	0	0	0 (All Keyboard parts)	0	0	●	●	●	●	X	0	0	0	0
		11 (0BH)	Expression [GM1] [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	●	●	●	●	●	0	0	0	0
		16 (10H)	General Purpose Controller (Joystick -Y)	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	X	0	●	0	X	0	0	●	0	0	0
		32 (20H)	Bank Select LSB [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (Right1)	0	0	●	0	●	●	X	0	0	0	0
		38 (26H)	Data Entry LSB [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	●	0	X	0	0	X	0	X	0
		64 (40H)	Sustain (Damper) [GM1] [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	X	0	●	0	X	0	0	●	0	0	0
		65 (41H)	Portamento [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0 (Except Organ Flutes)	0	0	0	0 (All Keyboard parts)	X	0	●	0	X	0	0	●	0	0	0
		66 (42H)	Sostenuto [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0 (All Keyboard parts)	0	0	0	0 (All Keyboard parts)	X	0	●	0	X	0	0	●	0	0	0
		67 (43H)	Soft Pedal [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0 (All Keyboard parts)	0	0	0	0 (All Keyboard parts)	X	0	●	0	X	0	0	●	0	0	0
		71 (47H)	Harmonic Content [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	●	0	●	●	X	0	0	0	0
		72 (48H)	Release Time [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	●	0	0	0	0	X	0	0	0
		73 (49H)	Attack Time [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	●	0	0	0	0	X	0	0	0
		74 (4AH)	Brightness [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	●	0	●	●	X	0	0	0	0
		75 (4BH)	Decay Time [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	X	X	X	0	0	X	0	0	X
		76 (4CH)	Vibrato Rate [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	X	X	X	0	0	X	0	0	X
		77 (4DH)	Vibrato Depth [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	X	X	X	0	0	X	0	0	X
		78 (4EH)	Vibrato Delay [GM2]	0-127 (00H...7FH)	-64...0...+63	0	0	0	0	0 (All Keyboard parts)	0	0	X	X	X	0	0	X	0	0	X
		84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	0	0	0	0	X	0	0	0	0	0	●	0	X	0	X	0
		91 (5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	●	●	●	●	X	0	0	0	0
		93 (5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	●	●	●	●	X	0	0	0	0
		94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	0	0	0	0	0 (All Keyboard parts)	0	0	0	0	●	●	X	0	0	0	X
		96 (60H)	RPN Increment	-	-	The data byte is ignored.	0	0	0	X	0	0	X	0	X	0	0	X	0	X	X
		97 (61H)	RPN Decrement	-	-	The data byte is ignored.	0	0	0	X	0	0	X	0	X	0	0	X	0	X	X
98 (62H)	NRPN LSB	0-127 (00H...7FH)	Data	0	0	0	0	X	0	0	●	0	0	0	0	X	0	0	0		

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

MIDI Events	Status byte		1st Data byte		2nd Data byte		Voice		[MIDI]				[Song Creator]									
	Status		Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Drum/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)		
			99 (63H)	NRPN MSB	0-127 (00H...7FH)	Data	0	0	0	X	0	0	●	0	0	0	X	0	0	0		
			100 (64H)	RPN LSB [GM2]	0-127 (00H...7FH)	Data	0	0	0	O (All Keyboard parts)	0	0	●	0	0	0	X	0	0	0		
			101 (65H)	RPN MSB [GM2]	0-127 (00H...7FH)	Data	0	0	0	O (All Keyboard parts)	0	0	●	0	0	0	X	0	0	0		
Mode Message	BnH (n: Channel Number)		120 (78H)	All Sound Off [GM2]	0 (00H)	Data	0	0	0	O (All Keyboard parts)	0	0	X	0	X	0	X	0	X	X		
			121 (79H)	Reset All Controllers [GM1] [GM2]	0 (00H)	Data	0	0	X	X	X	X	X	0	X	0	X	0	X	X	X	
			122 (7AH)	Local Control	0 127 (00H) (7FH)	OFF ON	-	-	-	-	O	0	0	X	X	X	X	X	X	X	X	X
			123 (7BH)	All Note Off [GM1] [GM2]	0 (00H)	Data	0	0	0	O (All Keyboard parts)	0	0	X	0	X	0	X	0	X	0	X	X
			124 (7CH)	Omni Off [GM2]	0 (00H)	Data	0	O (*1)	X	X	X	X	X	X	0	X	0	X	0	X	0	X
			125 (7DH)	Omni On [GM2]	0 (00H)	Data	0	O (*2)	X	X	X	X	X	X	0	X	0	X	0	X	0	X
			126 (7EH)	Mono [GM2]	0-16 (00H...10H)	Data	0	0	X	X	X	X	X	X	0	X	0	X	0	X	0	X
			127 (7FH)	Poly [GM2]	0 (00H)	Data	0	0	X	X	X	X	X	X	0	X	0	X	0	X	0	X
Program Change [GM1] [GM2]	CnH (n: Channel Number)	pp (00H...7FH)	Voice Number (0-127)	-	-	-	0	0	0	O (Right1)	0	0	●	0	●	●	X	0	0	0		
Channel After Touch [GM1] [GM2]	DnH (n: Channel Number)	vv (00H...7FH)	Data	-	-	-	0	0	0	O (All Keyboard parts)	X	0	X	0	X	0	X	0	X	0		
Polyphonic After Touch	AnH (n: Channel Number)	kk (00H...7FH)	Key no. (0-127)	vv (00H...7FH)	Data	0	0	X	X	X	X	X	X	X	0	X	0	X	0	X		
Pitch Bend Change [GM1] [GM2]	EnH (n: Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	0	0	0	O (All Keyboard parts)	0	0	●	0	0	0	●	0	0	0	0		
Realtime Message	F8H	MIDI Clock	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-		
	FAH	Start	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-		
	FBH	Continue	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-		
	FCH	Stop	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-		
	FEH	Active Sense [GM2]	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-		
	FFH	System Reset	-	-	-	-	-	-	-	-	-	-	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

NRPN				[MIDI]											[Song Creator]				
Data Entry		Parameter	Data Range	Voice	MIDI Reception					MIDI Transmission					PLAY		REC		
MSB	LSB				Regular/ Drum/ 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...P63)	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	O	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	O	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	O	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	O	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

RPN				[MIDI]											[Song Creator]				
Data Entry		Parameter	Data Range	Voice	MIDI Reception					MIDI Transmission					PLAY		REC		
MSB	LSB				Regular/ Drum/ 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	O	X	O	O	O
00H	01H	mmH	III	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	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	O	X	O	O	O	X	O	O	X
00H	05H	mmH	III	Modulation Sensitivity [GM2]	mm: Specified in semitone steps II: Specified in 100/128 cent steps	O	O	X	X	X	X	X	X	X	O	X	O	X	X
7FH	7FH	--	--	Null [GM2]	-	O	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

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/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	CHORUS TYPE MSB	Refer to Effect Parameter List	41 (=CHORUS1)	0		0						●		0	0	0
				00-7F	CHORUS TYPE LSB		00											0	0	0
		22	1	00-7F	CHORUS PARAMETER 1	-	Depends on Chorus Type	0		0						●		0	0	0
		23	1	00-7F	CHORUS PARAMETER 2	-	Depends on Chorus Type	0		0						●		0	0	0
		24	1	00-7F	CHORUS PARAMETER 3	-	Depends on Chorus Type	0		0						●		0	0	0
		25	1	00-7F	CHORUS PARAMETER 4	-	Depends on Chorus Type	0		0						●		0	0	0
		26	1	00-7F	CHORUS PARAMETER 5	-	Depends on Chorus Type	0		0						●		0	0	0
		27	1	00-7F	CHORUS PARAMETER 6	-	Depends on Chorus Type	0		0						●		0	0	0
		28	1	00-7F	CHORUS PARAMETER 7	-	Depends on Chorus Type	0		0						●		0	0	0
		29	1	00-7F	CHORUS PARAMETER 8	-	Depends on Chorus Type	0		0						●		0	0	0
		2A	1	00-7F	CHORUS PARAMETER 9	-	Depends on Chorus Type	0		0						●		0	0	0
		2B	1	00-7F	CHORUS PARAMETER 10	-	Depends on Chorus Type	0		0						●		0	0	0
		2C	1	00-7F	CHORUS RETURN	--dB...0dB...+6dB (0...64...127)	40	0		0						●		0	0	0
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	0		0						0		0	0	X
		2E	1	00-7F	SEND CHORUS TO REVERB	--dB...0dB...+6dB (0...64...127)	00	0		0						0		0	0	X

TOTAL SIZE 0F

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

TOTAL SIZE 06

										[MIDI]					[Song Creator]					
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice	MIDI Reception					MIDI Transmission				PLAY		REC		
						Regular/Drum/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	VARIATION TYPE MSB	Refer to Effect Parameter List	05 (=DELAY L, C, R)	0		0						●		0	0	0
				00-7F	VARIATION TYPE LSB		00											0	0	0
		42	2	00-7F	VARIATION PARAMETER 1 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 1 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		44	2	00-7F	VARIATION PARAMETER 2 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 2 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		46	2	00-7F	VARIATION PARAMETER 3 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 3 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		48	2	00-7F	VARIATION PARAMETER 4 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 4 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 5 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 6 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 7 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		50	2	00-7F	VARIATION PARAMETER 8 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 8 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		52	2	00-7F	VARIATION PARAMETER 9 MSB	-	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 9 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		54	2	00-7F	VARIATION PARAMETER 10 MSB	Refer to Effect Parameter List	Depends on Variation Type	0		0						●		0	0	0
				00-7F	VARIATION PARAMETER 10 LSB	-	Depends on Variation Type	0		0						●		0	0	0
		56	1	00-7F	VARIATION RETURN	--dB...0dB...+6dB (0...64...127)	40	0		0						●		0	0	0
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	0		0						0		0	0	X
		58	1	00-7F	SEND VARIATION TO REVERB	--dB...0dB...+6dB (0...64...127)	00	0		0						0		0	0	X
		59	1	00-7F	SEND VARIATION TO CHORUS	--dB...0dB...+6dB (0...64...127)	00	0		0						0		0	0	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	0		0						●		0	0	0
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F	0		0						●		0	0	0
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	0		0						0		0	0	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	0		0						0		0	0	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	0		0						0		0	0	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	0		0						0		0	0	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	0		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	0
		71	1	00-7F	VARIATION PARAMETER 12	-	Depends on Variation Type	0		0						●		0	0	0
		72	1	00-7F	VARIATION PARAMETER 13	-	Depends on Variation Type	0		0						●		0	0	0
		73	1	00-7F	VARIATION PARAMETER 14	-	Depends on Variation Type	0		0						●		0	0	0
		74	1	00-7F	VARIATION PARAMETER 15	-	Depends on Variation Type	0		0						●		0	0	0
		75	1	00-7F	VARIATION PARAMETER 16	-	Depends on Variation Type	0		0						●		0	0	0

TOTAL SIZE 06

● Transmitted via panel operations.

MIDI Parameter Change table (MULTI EQ)

					[MIDI]	[Song Creator]															
Address (H)	Size (H)	Data (H)	Parameter	Description		Voice	MIDI Reception					MIDI Transmission					PLAY		REC		
						Regular/Drum/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	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic	*The MULTI EQ Parameter cannot be reset to its factory setting with XG SYSTEM ON.	0		0					0				0	X	X
		01	1	34-4C	EQ GAIN1	-12...0...+12[dB]		0		0					●				0	X	X
		02	1	04-28	EQ FREQUENCY1	32...2.0k[Hz]		0		0					●				0	X	X
		03	1	01-78	EQ Q1	0.1...12.0		0		0					●				0	X	X
		04	1	00-01	EQ SHAPE1	shelving, peaking		0		0					0				0	X	X
		05	1	34-4C	EQ GAIN2	-12...0...+12[dB]		0		0					●				0	X	X
		06	1	0E-36	EQ FREQUENCY2	100...10.0k[Hz]		0		0					●				0	X	X
		07	1	01-78	EQ Q2	0.1...12.0		0		0					●				0	X	X
		08	1		NOT USED			-		-					-				-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12[dB]		0		0					●				0	X	X
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k[Hz]		0		0					●				0	X	X
		0B	1	01-78	EQ Q3	0.1...12.0		0		0					●				0	X	X
		0C	1		NOT USED			-		-					-				-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12[dB]		0		0					●				0	X	X
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k[Hz]		0		0					●				0	X	X
		0F	1	01-78	EQ Q4	0.1...12.0	0		0					●				0	X	X	
		10	1		NOT USED		-		-					-				-	-	-	
		11	1	34-4C	EQ GAIN5	-12...0...+12[dB]	0		0					●				0	X	X	
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k[Hz]	0		0					●				0	X	X	
		13	1	01-78	EQ Q5	0.1...12.0	0		0					●				0	X	X	
		14	1	00-01	EQ SHAPES	shelving, peaking	0		0					0				0	X	X	

TOTAL SIZE 15

● Transmitted via panel operations.

About PLAY column:

Not available when Function → Utility → Parameter Lock is checked.

MIDI Parameter Change table (EFFECT2)

					[MIDI]	[Song Creator]																
Address (H)	Size (H)	Data (H)	Parameter	Description		Voice	MIDI Reception					MIDI Transmission					PLAY		REC			
						Regular/Drum/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)			
03	n	00	2	00-7F	INSERTION EFFECT TYPE MSB	Refer to Effect Parameter List	*The EFFECT 2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	0		0					●				0	0	0	
		02	1	00-7F	INSERTION EFFECT TYPE LSB			-	0		0					●				0	0	0
		03	1	00-7F	INSERTION EFFECT PARAMETER 1			-	0		0					●				0	0	0
		04	1	00-7F	INSERTION EFFECT PARAMETER 2			-	0		0					●				0	0	0
		05	1	00-7F	INSERTION EFFECT PARAMETER 3			-	0		0					●				0	0	0
		06	1	00-7F	INSERTION EFFECT PARAMETER 4			-	0		0					●				0	0	0
		07	1	00-7F	INSERTION EFFECT PARAMETER 5			-	0		0					●				0	0	0
		08	1	00-7F	INSERTION EFFECT PARAMETER 6			-	0		0					●				0	0	0
		09	1	00-7F	INSERTION EFFECT PARAMETER 7			-	0		0					●				0	0	0
		0A	1	00-7F	INSERTION EFFECT PARAMETER 8			-	0		0					●				0	0	0
		0B	1	00-7F	INSERTION EFFECT PARAMETER 9			-	0		0					●				0	0	0
		0C	1	00-7F	INSERTION EFFECT PARAMETER 10	-		0		0					●				0	0	0	
		0D	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)		0		0					●				0	0	0	
		0E	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		0		0					0				0	0	X	
		0F	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		0		0					0				0	0	X	
		10	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63	0		0					0				0	0	X		
		11	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63	0		0					0				0	0	X		
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63	0		0					0				0	0	X		

TOTAL SIZE 12

		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List	0		0					●				0	0	0
		21	1	00-7F	INSERTION EFFECT PARAMETER 12	-	0		0					●				0	0	0
		22	1	00-7F	INSERTION EFFECT PARAMETER 13	-	0		0					●				0	0	0
		23	1	00-7F	INSERTION EFFECT PARAMETER 14	-	0		0					●				0	0	0
		24	1	00-7F	INSERTION EFFECT PARAMETER 15	-	0		0					●				0	0	0
		25	1	00-7F	INSERTION EFFECT PARAMETER 16	-	0		0					●				0	0	0

TOTAL SIZE 6

MIDI Data Format / MIDI-Datenformat / Format des données MIDI

						[MIDI]	[Song Creator]												
Address (H)	Size (H)	Data (H)	Parameter	Description		Voice	MIDI Reception					MIDI Transmission					PLAY		REC
						Regular/Drum/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)
		30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List	0		0						●		0	0	0
		32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB	-	0		0						●		0	0	0
		34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB	-	0		0						●		0	0	0
		36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB	-	0		0						●		0	0	0
		38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB	-	0		0						●		0	0	0
		3A	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB	-	0		0						●		0	0	0
		3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB	-	0		0						●		0	0	0
		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB	-	0		0						●		0	0	0
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	-	0		0						●		0	0	0
		42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	-	0		0						●		0	0	0

TOTAL SIZE 14

● Transmitted via panel operations

The second byte of the address is considered as an Insertion effect number n: insertion effect number (n=0-2)

For effect types that do not require MSB, the Parameters for Address 02-0B will be received and the Parameters for Address 30-42 will not be received.
 For effect types that require MSB, the Parameters for Address 30-42 will be received and the Parameters for Address 02-0B will not be received.
 When bulk dumps that include Effect Type data are transmitted, the parameters for addresses 02-0B will always be transmitted.
 For effects that require MSB however, when a bulk dump is received, the parameters for addresses 02-0B will not be received.

MIDI Parameter Change table (MULTI PART)

						[MIDI]	[Sound Creator]															
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice	MIDI Reception					MIDI Transmission					PLAY		REC			
						Regular/Drum/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	0	X	0	X	0	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	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	0	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	X	X	X	0	X	0	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

MIDI Data Format / MIDI-Datenformat / Format des données MIDI

										[MIDI]						[Sound Creator]				
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	MIDI Reception										PLAY		REC Panel (Right1/Right2/Left)		
						Regular/Drum/Organ/Voice	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY		REW	
30	1	00-01	Rcv PITCH BEND	OFF, ON	01	0	0	X	X	X	X	X	X	X	X	0	X	0	X	X
31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	0	0	X	X	X	X	X	X	X	X	0	X	0	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	
33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	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	
35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	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	
37	1	00-01	Rcv NRPN	OFF, ON	XGmode=01, GMmode=00	0	0	X	X	X	X	X	X	X	0	X	0	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	
39	1	00-01	Rcv VOLUME	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	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	
3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	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	
3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	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	
3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	0	0	X	X	X	X	X	X	X	0	X	0	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	
41	1	00-7F	SCALE TUNING C	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	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	
43	1	00-7F	SCALE TUNING D	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	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	
45	1	00-7F	SCALE TUNING E	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	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	
47	1	00-7F	SCALE TUNING F#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	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	
49	1	00-7F	SCALE TUNING G#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	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	
4B	1	00-7F	SCALE TUNING A#	-64...0...+63[cent]	40	0	0	0	X	0	0	●	X	●	0	X	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	
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	
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	X	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	
50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	0	0	0	X	X	0	X	X	X	0	X	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	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	X	
53	1	28-58	PAT PITCH CONTROL	-24...0...+24[semitones]	40	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	0	X	X	0	●	X	●	0	X	0	0	0	
5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	0	0	0	X	X	0	●	0	X	0	X	0	0	0	
5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	0	0	0	X	X	0	●	0	X	0	X	0	0	0	
5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	0	0	0	X	X	0	●	0	X	0	X	0	0	0	
60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	0	0	X	X	X	X	X	X	X	0	X	0	X	X	
67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	0	0	0	X	X	0	X	X	X	0	X	0	0	X	
68	1	00-7F	PORTAMENTO TIME	0...127	00	0	0	0	X	X	0	X	X	X	0	X	0	0	X	
69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	0	0	0	X	X	0	X	X	X	0	X	0	X	X	
6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	0	0	0	X	X	0	X	X	X	0	X	0	X	X	

TOTAL SIZE 3F

70	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	0	0	0	X	0	0	●	●	●	●	X	0	0	0
73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	0	0	0	X	0	0	●	●	●	●	X	0	0	0

TOTAL SIZE 04

74	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	0	0	0	X	X	0	●	0	●	0	X	0	0	0
77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	0	0	0	X	X	0	●	0	●	0	X	0	0	0
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 Data Format / MIDI-Datenformat / Format des données MIDI

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

TOTAL SIZE 06

●: Transmitted via panel operations

nn = PART NUMBER

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

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

MIDI Parameter Change table (DRUM SETUP)

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

TOTAL SIZE 10

[MIDI]													[Song Creator]								
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice	MIDI Reception					MIDI Transmission					PLAY		REC		
							Regular/Drum/Organ Voice	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY		REW	
		20	1	00-7F	EQ BASS GAIN	-12...+12[dB]	40	X	X					0					X	X	X
		21	1	00-7F	EQ TREBLE GAIN	-12...+12[dB]	40	X	X					0					X	X	X
		22	1		NOT USED		-	-	-					-					-	-	-
		23	1		NOT USED		-	-	-					-					-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32..2.0k[Hz]	0C	X	X					0					X	X	X
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	X	X					0					X	X	X
		26	1		NOT USED		-	-	-					-					-	-	-
		27	1		NOT USED		-	-	-					-					-	-	-
		28	1		NOT USED		-	-	-					-					-	-	-
		29	1		NOT USED		-	-	-					-					-	-	-
		2A	1		NOT USED		-	-	-					-					-	-	-
		2B	1		NOT USED		-	-	-					-					-	-	-
		2C	1		NOT USED		-	-	-					-					-	-	-
		2D	1		NOT USED		-	-	-					-					-	-	-

TOTAL SIZE 0E

n: Drum Setup Number (0-1)

rr: note number (0D-5B)

In the following cases, the instrument will initialize all Drum Setups.

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

[Note]

When a part to which a Drum Setup is assigned receives a program change, the assigned Drum Setup will be initialized.

If the same Drum Setup is assigned to two or more parts, changes in Drum Setup parameters (including program changes) will apply to all parts to which it is assigned.

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/ 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 0xxxxxxx 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) 0000xxxx 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 0xxxxxxx 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 0000xxxx 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																																							
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)																																							

System Exclusive Messages (Universal Non-Real Time Messages)

MIDI Event	Data Format	[MIDI]										[Song Creator]			
		Voice	MIDI Reception					MIDI Transmission					PLAY		REC
			Regular/ Drum/ Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW
GM1 System On [GM1] [GM2] F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxxxx 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 0xxxxxxx 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 MIDI/2 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 0xxxxxxx 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 0xxxxxxx 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 0mmmmmmmm 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 Event	Data Format	[MIDI]											
		Voice	MIDI Reception					MIDI Transmission					
		Regular/ Drum/Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	
Section Control	<p>F0 43 7E 00 ss dd F7</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No.</p> <p>00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D</p> <p>0ddddd dd = Switch On/Off 00H (Off) 7FH (On) 11110111 F7 = End of Exclusive</p>	-			O							●	
Tempo Control	<p>F0 43 7E 01 t4 t3 t2 t1 F7</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111</p>	-			O							●	
Chord Control	<p>F0 43 7E tt d1 d2 d3 d4 F7</p> <p>Type1 (tt=02)</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddd d1 = chord root (cr) 0ddddd d2 = chord type (ct) 0ddddd d3 = bass note (bn) 0ddddd d4 = bass type (bt) 11110111 F7 = End of Exclusive</p> <p>cr: Chord Root Offnnnn ff: b or #, nnnn: note (root)</p> <p>000nnnn 0n bbb 0fff0000 x0 reserved 000nnnn 1n bb 0fff0001 x1 C 0010nnnn 2n b 0fff0010 x2 D 001nnnn 3n natural 0fff0011 x3 E 0100nnn 4n # 0fff0100 x4 F 0101nnnn 5n ## 0fff0101 x5 G 0110nnnn 6n ### 0fff0110 x6 A 0fff0111 x7 B</p> <p>ct: Chord Type 0 - 34, 127</p> <p>0000000 0 0 Maj 00010010 12 18 dim7 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) 00010100 0A 10 min7 00011100 1C 28 Maj7aug 00010101 0B 11 min7b5 00011101 1D 29 7aug 00011000 0C 12 min(9) 00011110 1E 30 1+8 00011001 0D 13 min7(9) 00011111 1F 31 1+5 00011100 0E 14 min7(11) 00100000 20 32 sus4 00011101 0F 15 minMaj7 00100001 21 33 1+2+5 00010000 10 16 minMaj7(9) 00100010 22 34 cc 00010001 11 17 dim</p> <p>bn: On Bass Note Same as Chord root 127: No bass chord</p> <p>bt: Bass Chord Same as Chord type 127: No bass chord</p> <p>* Not received when Chord System Exclusive Message Parameters is set to off. * Not received when Transmit Chord System Exclusive Message Parameters is set to off.</p>	-			O							●	
	<p>Type2 (tt=03)</p> <p>11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddd dd = note1 0ddddd dd = note2 0ddddd dd = note3 . 0ddddd dd = note10 11110111 F7 = End of Exclusive</p>	-			O							X	

● Transmitted via panel operations

System Exclusive Messages (XG)

MIDI Event	Data Format	[MIDI]										
		Voice	MIDI Reception					MIDI Transmission				
		Regular/ Drum/Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
XG Parameter Changes	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 0llllllll ll = Address Low 0ddddd dd = Data : 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.	0					0				
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n = always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 0llllllll ll = Address Low 0ddddd dd = Data : 0ddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.	0					0				
XG Parameter Request	F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 0llllllll ll = Address Low 11110111 F7 = End of Exclusive	-	0					0				
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 0llllllll ll = Address Low 11110111 F7 = End of Exclusive	-	0					0				

System Exclusive Messages (Clavinova compliance)

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

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

● Transmitted via panel operations

System Exclusive Messages (Others)

[MIDI]

MIDI Event	Data Format	Voice	MIDI Reception					MIDI Transmission				
		Regular/ Drum/Organ Voice	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M. Pad	Style	Song	Upper Lower
MIDI Master Tuning	F0 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n n= always 0 (when transmit), n=0-F (when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	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			
F0 43 73 01 1F 00 cc dd F7	Guide Mode	ccH = Part Select No 00H (TRACK1=ON, TRACK2=ON) 01H (TRACK1=OFF, TRACK2=ON) 02H (TRACK1=ON, TRACK2=OFF) 03H (TRACK1=OFF, TRACK2=OFF) ddH = Mode 00H=Guide OFF 01H=Follow Lights 02H=Any Key 03H=Karao-Key	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
Score			
F0 43 73 01 50 12 00 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
F0 43 73 01 50 12 00 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 05 dd F7	Size designation	00H: SMALL, 02H: LARGE	
F0 43 73 01 50 12 00 06 dd F7	Left Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 07 dd F7	Right Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON	
F0 43 73 01 50 12 00 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second	
F0 43 73 01 50 12 00 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo	
Style			
F0 43 73 01 51 00 00 00 03 10 00 dd F7	STYLE SPLIT POINT	dd=STYLE SPLIT POINT (Note Number)	Entered to the song from the [SONG CREATOR] > CHANNEL > SETUP display.
F0 43 73 01 51 05 00 03 04 00 00 dd dd F7	STYLE NUMBER	dd dd = Style No.	Entered when recording.
F0 43 7E 00 ss dd F7	Section Control	Refer to the MIDI Data Format.	Entered when recording.

Song Meta Event List / Liste der Meta-Events der Songs / Liste des métaévénements des morceaux

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 [Digital Keyboard]
Model PSR-A2000 MIDI Implementation Chart

Date : 10-Sep-2010
Version : 1.00

Function...	Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	
Mode	Default Messages Altered	3 X *****	3 X X	
Note Number : True voice	0 - 127 *****	0 - 127 0 - 127		
Velocity	Note ON Note OFF	O 9nH, v=1-127 X 9nH, v=0	O 9nH, v=1-127 X	
After Touch	Key's Ch's	X X	O O	
Pitch Bend		O	O 0 - 24 semi	
Control Change	0,32 1,5,7,10,11,16 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

