DIGITAL WORKSTATION

Tyros3

Data List / Daten-Liste / Liste des données

Contents

U.R.G., Pro Audio & Digital Musical Instrument Division, Yamaha Corporation

812PO-C0

Panel Voice

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Piano	ConcertGrand	0	115	1	Live!
	PopGrand	104	5	1	Live!
	RockPiano	104	4	1	Live!
	AmbientPiano	104	3	1	Live!
	CocktailPiano	104	0	4	Live!
	MIDIGrand	104	0	3	Live!
	MIDIGrandPad	104	1	3	Live!
	MIDIGrandSyn	104	1	1	Live!
	PianoOrchestra	104	2	1	Live!
	Harpsichord	8	32	113	S.Articulation!
	GrandPiano	0	113	1	Live!
	WarmGrand	0	114	1	Live!
	BrightPiano	0	112	2	Live!
	OctavePiano1	0	113	4	Live!
	OctavePiano2	0	114	4	Live!
	HonkyTonk	0	112	4	-
	CP80	0	113	3	-
	GrandHarpsi	0	113	7	Live!
E.Piano	SparkleStack	0	121	6	Cool!
	SweetDX	104	0	6	Cool!
	BalladDX	0	124	6	Cool!
	DX Dynamics	0	123	6	Cool!
	BalladBells	104	2	6	Cool!
	GalaxyEP	0	114	5	Cool!
	SuitcaseEP	0	118	5	Cool!
	ElectricPiano	0	119	5	Cool!
	MidnightDX	104	1	6	Cool!
	DreamDX	104	3	6	Cool!
	TremoloEP	0	113	5	Cool!
	VintageEP	0	116	5	-
	StageEP	0	117	5	-
	SmoothTine	0	119	6	-
	Clavi	0	112	8	-
	WahClavi	0	113	8	-
	PhaseClavi	0	115	8	-
Organ	WhiterBars	8	32	30	S.Articulation!
	AllBarsOut	8	32	31	S.Articulation!
	JazzRotary	8	32	114	S.Articulation!
	ClassicBars	8	34	30	S.Articulation!
	Organ-a-Gogo	104	0	17	Cool!
	CurvedBars	0	121	17	Cool!
	EvenBars	0	111	17	Cool!
	VintageFast	0	127	17	Cool!
	RotorOrgan	0	117	19	Cool!
	JazzOrgan	0	117	17	Cool!
	RockRotary	8	33	114	S.Articulation!
	ProgRockOrgan	8	33	30	S.Articulation!
	Hold It Fast	0	111	18	Cool!
	R&B Tremolo	0	111	19	Cool!
	Organ	0	118	19	Cool!
	OrganAccomp1	0	108	18	-
	OrganAccomp2	0	107	18	-
	OrganAccomp3	0	106	18	-
	OrganAccomp4	0	105	18	-
	OrganAccomp5	0	104	18	-
	FullTheatre	0	127	19	-
	SweetTheatre	0	126	19	-
	BallroomOrgan	0	115	4	-
	Tibia 16&4	104	8	17	-
	Tibia 8&4	104	9	17	-
	Vox&Tibia	104	10	17	-
	Tibia Full	104	5	18	-
	Tibia 8	104	6	18	-
	Vox 8	104	7	18	-
	PipeOrgan	0	112	20	-
	ChapelOrgan1	0	113	20	-
	ChapelOrgan2	0	114	20	-
	ChapelOrgan3	0	115	20	-
	JazzSlow	0	126	18	Cool!
	JazzFast	0	127	18	Cool!
	WhiterBarsSlow	104	1	18	Cool!
	WhiterBarsFast	104	0	18	Cool!
	AllBarsOutSlow	104	1	19	Cool!
	AllBarsOutFast	104	0	19	Cool!
	AllBarsPhase	104	2	19	Cool!
	TwoChannels	0	109	18	Cool!
	FullRocker	0	115	19	Cool!
	EuroOrgan	0	118	17	-
	MellowDraw	0	115	18	-
	Trumpet 8	0	124	17	-
	Kinura 8	0	123	17	-
	Tpt&Kinura	0	125	18	-
	Trumpet 16&8	0	124	18	-
Strings	ConcertStrings	8	32	50	S.Articulation!
	StudioStrings	8	32	49	S.Articulation!
	Spiccato	0	120	49	Live!
	Pizzicato	0	113	46	Live!

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Strings	TremoloStrings	0	113	45	Live!
	Violin	0	113	41	Sweet!
	DiscoStrings1	0	123	50	Live!
	DiscoStrings2	0	124	50	Live!
	MovieStrings	0	123	49	Live!
	OrchestralHarp	104	1	47	-
	Strings p	0	117	49	Live!
	Strings mf	0	118	49	Live!
	Strings f	0	119	49	Live!
	DynamicStrings	0	124	49	Live!
	TremoloBowing	8	34	49	S.Articulation!
	Tutti	0	120	50	-
	SymphonicUnison	104	0	50	-
	Strings	0	117	50	Live!
	Allegro	0	122	50	Live!
	MellowHarp	104	0	47	-
	Banjo	104	0	106	-
	Hackbrett	104	2	47	-
	Zither1	104	1	16	-
	Zither2	104	0	16	-
	OrchestraHit	0	112	56	-
	Spiccato	8	33	49	S.Articulation!
	SynthStrings1	0	112	51	-
	SynthStrings2	0	113	51	-
	OberStrings	0	113	52	-
	TheatreOrchestra	104	1	50	-
	SoloViolin	0	112	41	-
	Viola	0	112	42	-
	Cello	0	112	43	-
	Contrabass	0	112	44	-
	Fiddle	0	112	111	-
	Koto	0	112	108	-
	Shamisen	0	112	107	-
	ChamberStrings	0	112	50	-
	SmallStrings	8	0	49	MegaVoice
	LargeStrings	8	0	50	MegaVoice
Choir	GospelVoices	0	116	53	Live!
	Humming	0	118	53	Live!
	HahChoir	0	114	53	-
	SweetHeaven	0	118	89	-
	DreamHeaven	0	121	89	-
	Mmh	0	117	53	Live!
	GothicVox	0	113	54	-
	Sunbeam	0	123	89	-
	BellHeaven	0	119	89	-
	PanHeaven	0	120	89	-
	ProHeaven	0	122	89	-
	UuhChoir	0	115	53	-
	HahPad	0	116	95	-
Brass	BigBandBrass	8	37	57	S.Articulation!
	SmoothBrass	8	36	57	S.Articulation!
	DynamicBrass	0	127	62	Live!
	PowerBrass	0	121	63	Live!
	AccentBrass	0	109	62	Live!
	FrenchHorns	0	112	61	Live!
	SymphonyBrass	0	119	61	Live!
	Brass p	0	111	62	Live!
	Brass mf	0	110	62	Live!
	Brass f	0	108	62	Live!
	BrassFalls f	8	34	57	S.Articulation!
	BrassFalls mf	8	35	57	S.Articulation!
	BrassBand	0	123	57	Live!
	SoftHorns	0	117	61	Live!
	SoftTrombones	0	118	61	Live!
	BrassShake	8	32	57	S.Articulation!
	AccentFalls	8	38	57	S.Articulation!
	Sforzando	0	105	62	Live!
	SforzandoFall	0	107	62	Live!
	SymphonyHorns	0	115	61	Live!
	BrassDynamics	0	106	62	Live!
	PopBrass	0	117	63	Live!
	HyperBrass	0	118	63	Live!
	SmallBrass	0	120	61	Live!
	BallroomBrass	0	113	60	-
	OctaveBrass	0	116	63	Live!
	OberBrass	0	113	64	-
	ThinthBrass	104	0	63	-
	BrassProfit	104	1	63	-
	SlowPWMBrass	104	2	63	-
	FastPWMBrass	104	6	63	-
	SoftVeloBrass	0	120	63	-
	80'sBrass	0	113	63	-
	AnalogBrass	0	112	64	-
	SoftAnalog	0	114	64	-
	FunkyAnalog	0	115	63	-
	TechnoBrass	0	114	63	-
	OberHorns	0	115	64	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Brass	FatSynthBrass	0	116	64	-
	Brass	8	0	57	MegaVoice
Trumpet	JazzTrumpet	8	64	66	S.Articulation2!
	Trumpet	8	32	65	S.Articulation!
	SilverTrumpet	8	33	65	S.Articulation!
	GoldenTrumpet	8	34	65	S.Articulation!
	BigBandTrumpet	8	37	65	S.Articulation!
	ClassicTrumpet	8	65	66	S.Articulation2!
	Cornet	0	119	57	Sweet!
	FlugelHorn	0	118	57	Sweet!
	MutedTrumpet	0	114	60	Sweet!
	TrumpetFall	8	38	65	S.Articulation!
	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!
	TrumpetShake	8	35	65	S.Articulation!
	Tuba	104	0	59	-
	BaritoneHorn	0	113	59	-
	BaritoneHit	0	114	59	-
	AlpBass	0	113	34	-
	Trumpet	8	0	65	MegaVoice
Saxophone	JazzSax	8	65	81	S.Articulation2!
	BreathySax	8	64	81	S.Articulation2!
	Saxophone	8	32	83	S.Articulation!
	BigBandSax	8	35	83	S.Articulation!
	RockSax1	8	33	83	S.Articulation!
	SopranoSax	0	113	65	Sweet!
	AltoSax	0	114	66	Sweet!
	TenorSax	0	117	67	Sweet!
	GrowlSax	0	111	67	Sweet!
	SaxSection	0	116	67	Live!
	PopTenor	0	127	67	Sweet!
	BalladTenor	0	126	67	Sweet!
	JazzTenor	0	125	67	Sweet!
	SaxSectionSoft	0	121	67	Live!
	SaxSectionHard	0	122	67	Live!
	BigBandSaxes	0	110	67	Live!
	BigBandUnison	0	109	67	Live!
	BigBandOctave	0	108	67	Live!
	SaxAppeal	0	123	67	Live!
	BaritoneSax	0	112	68	-
	Moonlight	0	115	72	-
	BalladSection	0	119	67	-
	TenorSax	8	0	83	MegaVoice
Flute&Clarinet	Clarinet	8	65	93	S.Articulation2!
	BalladClarinet	8	64	93	S.Articulation2!
	RomanceClarinet	8	66	93	S.Articulation2!
	IrishPipeAir	8	64	109	S.Articulation2!
	IrishPipeDance	8	65	109	S.Articulation2!
	OrchFlute	104	0	74	Sweet!
	OrchOboe	104	0	69	Sweet!
	OrchClarinet	104	0	72	Live!
	OrchBassoon	104	0	71	Sweet!
	GermanClarinet	104	2	72	-
	Flute	0	114	74	Sweet!
	Oboe	0	113	69	Sweet!
	Clarinet	0	114	72	Sweet!
	PanFlute	0	113	76	Sweet!
	ClassicalFlute	0	115	74	Sweet!
	Flutes&Oboes	104	2	74	-
	Clarinet&Flutes	104	1	72	-
	Clarinet&Oboe	104	1	69	-
	DoubleReeds	104	2	69	-
	OrchWoodwind	104	1	71	-
	AltoFlutes	104	1	74	-
	Piccolo	0	112	73	-
	Whistle	0	112	79	-
	Recorder	0	112	75	-
	Ocarina	0	112	80	-
	Shakuhachi	0	112	78	-
	Bagpipe	0	112	110	-
	FluteEnsemble	0	116	74	-
Guitar	ConcertGuitar	8	32	1	S.Articulation!
	SemiAcoustic	8	33	7	S.Articulation!
	SteelGuitar	8	32	2	S.Articulation!
	FlamencoGtr	8	33	1	S.Articulation!
	PedalSteel	8	36	4	S.Articulation!
	SingleCoilClean	8	39	4	S.Articulation!
	JazzClean	8	32	7	S.Articulation!
	CrunchGtr	8	33	6	S.Articulation!
	RockLegend	8	34	6	S.Articulation!
	GuitarHero	8	32	6	S.Articulation!
	WarmSolid	8	33	4	S.Articulation!
	CleanSolid	8	34	4	S.Articulation!
	70'sSolidGtr	8	38	4	S.Articulation!

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Guitar	VintageAmp	8	40	4	S.Articulation!
	SmoothJazzGtr	8	35	7	S.Articulation!
	Mandolin	0	114	26	Sweet!
	NylonGuitar	8	34	1	S.Articulation!
	FolkGuitar	8	33	2	S.Articulation!
	WarmElectric	8	32	4	S.Articulation!
	CleanElectric	8	35	4	S.Articulation!
	HeavyRock	8	32	5	S.Articulation!
	HalfDrive	8	37	4	S.Articulation!
	Slapback	104	0	28	Cool!
	VintageLead	0	125	28	Cool!
	BluesGuitar	0	117	30	Cool!
	SlideNylon	0	117	25	Live!
	SlideJazz	104	0	27	Cool!
	SlideSteel	0	118	26	Live!
	SlideSolid	0	110	28	Cool!
	SlideClean	0	117	29	Cool!
	12StringGtr	0	113	26	Live!
	DynamicNylon	0	116	25	Live!
	DynamicSteel	0	116	26	Live!
	AlohaGuitar	0	118	27	-
	PedalSteel	0	115	28	-
	DynamicMute	0	118	29	Cool!
	ElectricGtr	0	114	29	Cool!
	TremoloSolid	0	111	28	Cool!
	ChorusSolid	0	107	28	Cool!
	BalladSolid	0	109	28	Cool!
	HardFlamenco	0	118	25	Live!
	JazzSoloGtr	0	116	27	Cool!
	ClassicalGtr	0	115	25	Live!
	SteelGuitar	0	117	26	Live!
	Sitar	104	0	105	-
	Feedbacker	8	33	5	S.Articulation!
	PowerLead	0	115	31	Cool!
	CleanGuitar	0	112	28	Cool!
	SlapSolid	0	108	28	Cool!
	60'sClean	0	117	28	-
	VintageOpen	0	123	28	-
	VintageStrum	0	126	28	-
	VintageAmp	0	115	30	-
	NylonMute	0	119	25	Live!
	SteelMute	0	120	26	Live!
	HeavyStack	0	114	31	-
	CrunchGuitar	0	113	31	-
	VintageMutedGt	0	115	29	-
	MutedGuitar	0	119	29	Cool!
	OctaveGuitar	0	113	27	-
	JazzGuitar	0	115	27	Cool!
	FunkGuitar	0	116	29	Cool!
	SingleCoil	8	3	4	MegaVoice
	JazzGuitar	8	0	7	MegaVoice
	NylonGuitar	8	0	1	MegaVoice
	SteelGuitar	8	0	2	MegaVoice
	12StringGtr	8	1	3	MegaVoice
	HiStringGtr	8	0	3	MegaVoice
	SolidGuitar1	8	1	4	MegaVoice
	SolidGuitar2	8	2	4	MegaVoice
	CleanGuitar	8	0	4	MegaVoice
	OverdriveGtr	8	0	5	MegaVoice
	DistortionGtr	8	0	6	MegaVoice
Bass	ElectricBass	0	114	34	Cool!
	AcousticBass	0	112	33	-
	DynoPickBass	0	113	35	Cool!
	FretlessBass	0	112	36	Cool!
	SlapBass	0	112	37	-
	VintageRound	104	1	34	Cool!
	VintageFlat	104	2	34	Cool!
	VintageMute	104	3	34	Cool!
	HalfMute	0	115	34	Cool!
	VintagePick	104	1	35	-
	LoBass	104	0	40	-
	DarkBass	104	1	40	-
	MoonBass	104	0	39	-
	KickBass	104	1	39	-
	ClubBass	104	2	39	-
	FatPulse	104	2	40	-
	WazzoSaw	104	3	81	-
	DeepPoint	104	3	39	-
	TightBass	104	3	40	-
	Competitor	104	4	39	-
	1o1Sub	104	5	39	-
	LittleBassSynth	104	6	39	-
	TeknoBass	104	7	39	-
	PercPunch	104	8	39	-
	SquareBass	104	4	40	-
	TranceBass	104	9	39	-
	SubCutBass	104	5	40	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Bass	DynoAcidBass	104	10	39	-
	MiniSub	104	6	40	-
	FatSineRes	104	11	39	-
	BalladBass	104	7	40	-
	VeloMaster	104	17	82	-
	MellowFinger	0	112	34	-
	VintagePickMute	104	0	35	Cool!
	VintageDyno	104	2	35	Cool!
	RockBass	0	114	35	-
	SuperFretless	0	113	36	-
	PickBass	0	112	35	-
	FusionBass	0	113	37	-
	Bass&Cymbal	0	114	33	-
	SubBass	0	114	40	-
	HardBass	0	114	39	-
	ResoBass	0	112	39	-
	HouseBass	0	116	39	-
	BigDrone	0	118	39	-
	FunkBass	0	112	38	-
	TB Bass	0	117	40	-
	VintageRound	8	1	18	MegaVoice
	VintageFlat	8	2	18	MegaVoice
	VintagePick	8	1	19	MegaVoice
	AcousticBass	8	0	17	MegaVoice
	ElectricBass	8	0	18	MegaVoice
	PickBass	8	0	19	MegaVoice
	FretlessBass	8	0	20	MegaVoice
Perc&Drum	Vibraphone	0	112	12	-
	JazzVibes	0	113	12	-
	Suspense	0	114	12	-
	Marimba	0	112	13	-
	Xylophone	0	112	14	-
	SteelDrums	0	112	115	-
	Celesta	0	112	9	-
	Glockenspiel	0	112	10	-
	MusicBox	0	112	11	-
	TubularBells	0	112	15	-
	Kalimba	0	112	109	-
	Dulcimer	0	112	16	-
	Timpani	0	112	48	-
	StackBell	104	8	89	-
	NiceBell	104	9	89	-
	AcousticKit	127	0	90	Live!Drums
	RockKit	127	0	91	Live!Drums
	PowerKit1	127	0	88	Live!Drums
	PowerKit2	127	0	89	Live!Drums
	BrushKit	127	0	41	Live!Drums
	AnalogT8Kit	127	0	59	Drums
	AnalogT9Kit	127	0	60	Drums
	BreakKit	127	0	58	Drums
	HipHopKit	127	0	57	Drums
	DanceKit	127	0	28	Drums
	StudioKit	127	0	87	Live!Drums
	JazzKit	127	0	33	Drums
	HitKit	127	0	5	Drums
	RoomKit	127	0	9	Drums
	ElectroKit	127	0	25	Drums
	AnalogKit	127	0	26	Drums
	SymphonyKit	127	0	49	Live!Drums
	TurkishKit	126	0	68	Live!SFX
	CubanKit	126	0	41	Live!SFX
	PopLatinKit	126	0	44	Live!SFX
	SFX Kit1	126	0	1	SFX Kit
	SFX Kit2	126	0	2	SFX Kit
Accordion	Harmonica	8	64	105	S.Articulation2!
	BluesHarp	8	65	105	S.Articulation2!
	FrenchMusette	0	119	22	-
	MasterAccord	0	118	22	-
	JazzAccordion	0	120	22	-
	TangoAccordion	0	114	24	-
	Cassotto	104	0	22	-
	FullRegister	104	2	22	-
	Steirisch	0	117	22	-
	Cajun	104	3	22	-
	Harmonica	0	112	23	Sweet!
	Clari8'&4'	104	1	22	-
	Bandoneon	0	113	24	-
	MasterBass	0	122	22	-
	MusetteBass	0	123	22	-
	AccordionBass	0	121	22	-
	TangoBass	0	115	24	-
	FullRegBass	104	5	22	-
	CajunBass	104	6	22	-
Pad	CrossPhase	104	1	102	-
	GalaxyPad	104	3	89	-
	NightMotion	104	4	89	-
	MorningDew	104	0	95	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Pad	Aerosphere	104	1	95	-
	NewAtmosphere	104	4	90	-
	VPSoft	104	0	90	-
	HotSwell	104	2	96	-
	DarkFatSaw	104	2	90	-
	VaporPad	104	1	90	-
	SpaceRider	104	1	96	-
	PearlsPad	104	2	89	-
	BreathPad	104	0	92	-
	NobleMan	104	1	89	-
	DouxFlange	104	3	96	-
	LightPad	104	2	52	-
	ButterStrings	104	2	51	-
	MediumTunePad	104	0	51	-
	NylonPad	104	0	100	-
	DarkLight	104	3	90	-
	AnaDayz	104	3	52	-
	BrightPadTrance	104	4	91	-
	OctStrings	104	4	51	-
	ChillinChords	104	6	52	-
	BrightPopPad	104	3	51	-
	PremiumPad	104	0	52	-
	SoftEnsemble	104	1	51	-
	80'sPad	104	1	52	-
	BrightPadClassic	104	3	91	-
	AmbientPad	104	0	89	-
	BrightFatSaw	104	5	91	-
	TranceMW	104	0	96	-
	EarlyDigital	104	0	94	-
	Bellsphere	104	5	89	-
	SixthSense	104	2	102	-
	PercPad	104	0	102	-
	SuperDarkPad	0	119	90	-
	AnalogPad	0	120	90	-
	DarkAngelPad	0	121	90	-
	LitePad	0	122	90	-
	PopPad	0	112	91	-
	GloriousPhase	0	114	91	-
	AnalogSwell	0	119	96	-
	Skydiver	0	112	102	-
	HipaStrings	0	114	96	-
	BrightSawPad	0	113	91	-
	BigOctavePad	0	115	91	-
	GoldenAge	0	115	89	-
	Solaris	0	114	95	-
	Insomnia	0	113	95	-
	Mediterrain	0	114	100	-
	OberSweep	0	115	96	-
	TimeTravel	0	116	89	-
	Bubblespace	0	113	102	-
	MagicBell	8	32	121	S.Articulation!
	MellowPad	0	117	96	-
	NeoWarmPad	0	115	90	-
	CyberPad	0	113	100	-
	BrightOber	0	113	96	-
	DarkPad	0	118	96	-
Synth	ClubLead	104	3	63	-
	HPFDance	104	0	91	-
	DetunedSawOct	104	8	82	-
	DancyHook	104	9	82	-
	VinalogSaw	104	3	82	-
	TalkModLead	104	0	88	-
	SubLead	104	0	81	-
	SoftSaw	104	16	82	-
	FusionLead	104	15	82	-
	BleepLead	104	0	85	-
	Oxygen	0	122	82	-
	Matrix	0	123	82	-
	WireLead	0	120	82	-
	SoftR&B	0	119	81	-
	EarlyLead	0	118	82	-
	LektroCodes	104	2	85	-
	SimpleComp	104	12	82	-
	BalladComp	104	6	89	-
	HeavenBell	104	0	101	-
	BrightPadBell	104	7	89	-
	SoftSquare	104	5	81	-
	WildPWM	104	4	81	-
	DetunedVintage	104	1	85	-
	PWMLead	104	1	82	-
	BrassyLead	104	5	63	-
	PunchLead	104	7	82	-
	FlangeFilter	104	2	82	-
	MouthLead	104	0	82	-
	ResonantClavi	104	2	91	-
	ResonanceComp	104	4	63	-
	TrancePerc	104	5	82	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth	Chordmaster	104	13	82	-
	DigitalSeq	104	2	88	-
	AnalogSeq	104	3	88	-
	TranceSeq1	104	4	88	-
	TranceSeq2	104	5	88	-
	TranceSeq3	104	1	91	-
	PercSeqFS	104	6	88	-
	PercSeqFM1	104	7	88	-
	PercSeqFM2	104	8	88	-
	SynthSticks	104	0	107	-
	SazFeeze	104	0	98	-
	EasternAir	104	1	98	-
	Xtune	104	1	88	-
	PitchFall	104	0	104	-
	PercSeqSaw	104	11	82	-
	PercSeqHipa	104	9	88	-
	Attack	104	4	82	-
	PWMPercussion	104	6	82	-
	Nomad	104	1	105	-
	ChorusSawLead	104	10	82	-
	FaaatComp	104	4	52	-
	FatSawHook	104	7	52	-
	TechGlide	104	14	82	-
	DanceChords	104	5	52	-
	DanceHook	0	112	87	-
	OctaveHook	0	113	87	-
	HipaLead	0	118	85	-
	PunchyHook	0	127	82	-
	CryingLead	0	114	88	-
	HipLead	0	113	81	-
	HopLead	0	117	81	-
	TechLead	0	117	85	-
	Tekkline	0	116	85	-
	SoftMini	0	124	81	-
	TranceLead	0	121	81	-
	FireWire	0	116	82	-
	Analogon	0	115	82	-
	Skyline	0	115	85	-
OrganFlutes	ClassicJazz	0	126	17	OrganFlutes
	USDSmile	0	126	17	OrganFlutes
	ReggaeBars	0	126	17	OrganFlutes
	WarmTheatre	0	126	17	OrganFlutes
	OrganPops	0	126	17	OrganFlutes
	RockOrgan	0	126	17	OrganFlutes
	SoulPercussion	0	126	17	OrganFlutes
	GospelTruth	0	126	17	OrganFlutes
	PadOrgan	0	126	17	OrganFlutes
	FullOrgan	0	126	17	OrganFlutes
	StringBars	0	126	17	OrganFlutes
	LatinSpin	0	126	17	OrganFlutes
	ShadyBars	0	126	17	OrganFlutes
	FunkOrgan	0	126	17	OrganFlutes
	BalladOrgan	0	126	17	OrganFlutes
	RichBars	0	126	17	OrganFlutes
	TrumpetBars	0	126	17	OrganFlutes
	SoulBars	0	126	17	OrganFlutes
	ClariBars	0	126	17	OrganFlutes
	JazzSquabble	0	126	17	OrganFlutes

Legacy Voice

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Piano	BalladStack	0	114	3	-
	MIDIGrand	0	112	3	-
	Harpsichord	0	112	7	Live!
E.Piano	JazzChorus	0	118	6	-
	HyperTines	0	113	6	-
	VenusEP	0	114	6	-
	SuperDX	0	117	6	-
	PolarisEP	0	115	5	-
	DX Modern	0	112	6	-
	NewTines	0	116	6	-
	PhaseEP	0	120	5	-
	ModernEP	0	115	6	-
	FunkEP	0	112	5	-
	ChorusBell	0	120	6	-
	StereoClavi	0	114	8	-
Organ	DanceOrgan	0	113	18	-
	ClickOrgan	0	112	18	-
	ReedOrgan	0	112	21	-
	RotarySwitch	0	110	18	Cool!
	RotaryDrive	0	116	19	-
	FullRocker2	104	3	19	Cool!
	GospelOrgan	0	119	17	-
	PurpleOrgan	0	114	19	-
	RockOrgan1	0	112	19	-
	RockOrgan2	0	119	19	-
	RockOrgan3	0	113	19	-
	60'sOrgan	0	116	18	-
	JazzOrgan1	0	112	17	-
	JazzOrgan2	0	113	17	-
	JazzOrgan3	0	120	17	-
	DrawbarOrgan1	0	120	18	-
	DrawbarOrgan2	0	115	17	-
	BrightDraw	0	116	17	-
	PercOrgan	0	119	18	-
	ElectricOrgan	0	118	18	-
	Tibia 8&4 Acmp	0	122	17	-
	Tibia 16&4 Acmp	0	114	17	-
	Tibia Full Acmp	0	114	18	-
	Tibia 8 Acmp	0	122	18	-
	Vox 8 Acmp	0	123	18	-
	Vox&Tibia Acmp	0	125	17	-
Strings	SlowStrings	0	113	50	-
	StringFalls	0	121	49	Live!
	AnalogStrings	0	112	52	-
	TremoloBowing2	8	35	49	S.Articulation!
	Strings	0	112	49	-
	OrchStrings	0	113	49	-
	Symphonic	0	114	49	-
	ConcertoStrings	0	115	49	-
	BowStrings	0	116	49	-
	TremoloStrings	0	112	45	-
	Pizzicato	0	112	46	-
	Orchestra	0	116	50	Live!
	Orch&Flute	0	119	50	-
	Orch&Oboe	0	121	50	-
	Orch&Horns	0	118	50	-
	Marcato	0	115	50	-
	StringQuartet	0	114	50	-
	Harp	0	112	47	-
	Hackbrett2	0	113	47	-
	Banjo2	0	112	106	-
	Sitar2	0	112	105	-
Choir	Voices	0	113	55	-
	Choir	0	112	53	-
	AirChoir	0	112	55	-
	VoxHumana	0	112	54	-
Brass	BrassShake2	8	33	57	S.Articulation!
	SoftBrass	0	123	62	-
	Sforzando	0	125	62	-
	SmallBrass	0	117	62	-
	BrassSection	0	112	62	-
	HybridComp	0	119	63	-
	NaturalBrass	0	124	62	-
	BrightBrass	0	120	62	-
	Hybrihorn	0	113	61	-
	HighBrass	0	115	62	-
	BigBandBrass	0	113	62	-
	PopBrass	0	118	62	-
	BrassCombo	0	115	67	-
	BreathBrass	0	116	61	-
	BigBrass	0	121	62	-
	MellowBrass	0	116	62	-
	Hybripad	0	114	61	-
	FullHorns	0	114	62	-
	SmoothTrombone	0	118	58	-
	TrumpetEns	0	122	62	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Brass	MellowHorns	0	119	62	-
	BrassHit	0	126	62	-
	SynthBrass	0	112	63	-
	TbnSection	0	113	58	-
Trumpet	TrumpetShake2	8	36	65	S.Articulation!
	MutedTrumpet	0	112	60	-
	FlugelHorn	0	113	57	-
	SoloTrombone	0	112	58	-
	JazzTrumpet	0	116	57	-
	Trombone	0	116	58	-
	SoftTrombone	0	115	58	-
	SoloTrumpet	0	112	57	-
	MellowTrombone	0	114	58	-
	Tuba2	0	112	59	-
Saxophone	RockSax2	8	34	83	S.Articulation!
	GrowlSax	0	118	67	-
	SopranoSax	0	112	65	-
	AltoSax	0	112	66	-
	TenorSax	0	112	67	-
	SaxStack	0	124	67	-
	WoodwindsEns	0	113	67	-
	SaxyMood	0	120	67	-
Flute&Clarinet	EnglishHorn	0	112	70	-
	Bassoon	0	112	71	-
	Flute	0	112	74	-
	Clarinet	0	112	72	-
	Oboe	0	112	69	-
	PanFlute	0	113	74	-
	EthnicFlute	0	112	76	-
Guitar	FolkGuitar	0	112	26	-
	MutedGuitar	0	112	29	-
	FunkGuitar	0	113	29	-
	SolidChord	0	121	28	-
	SolidGuitar	0	118	28	-
	CampfireGtr	0	115	26	-
	Electric12Str	0	119	28	-
	DXJazzGuitar	0	117	27	-
	SmoothLead	0	119	27	-
	PowerChord	0	117	31	-
	RockGuitar	0	116	30	-
	VodooLead	0	116	31	-
	TremoloGuitar	0	113	28	-
	WahGuitar	0	122	28	-
	LeadGuitar	0	114	30	-
	18String	0	119	26	-
	ChorusGuitar	0	124	28	-
	VintageTrem	0	120	28	-
	DeepChorus	0	114	28	-
	BrightClean	0	116	28	-
	DistortionGtr	0	112	31	-
	OverdriveGtr	0	112	30	-
	FeedbackGtr	0	113	30	-
Bass	ClickBass	0	115	39	-
	PunchyBass	0	117	39	-
	AnalogBass	0	112	40	-
	DX FunkBass	0	113	38	-
	DrySynthBass	0	116	40	-
	80'sSynthBass	0	115	40	-
	HiQBass	0	113	39	-
Perc&Drum	StandardKit1	127	0	1	Live!Drums
	StandardKit2	127	0	2	Live!Drums
	RockKit	127	0	17	Drums
	ArabicKit	126	0	36	SFX Kit
Accordion	Accordion	0	116	22	-
	SmallAccordion	0	115	22	-
	ModernHarp	0	113	23	-
	BluesHarp	0	114	23	-
	BallroomAcc	0	112	24	-
	SoftAccordion	0	114	22	-
	TuttiAccordion	0	113	22	-
	Musette	0	112	22	-
Pad	PsychoPad	0	118	102	-
	FarEast	0	112	98	-
	Disclosure	0	116	90	-
	Mystery	0	113	98	-
	Sirius	0	114	102	-
	S&H Groove	0	115	102	-
	VeloAshrami	0	116	102	-
	EveningStars	0	117	102	-
	AngelVibes	0	114	99	-
	GlassPad	0	114	94	-
	DX Pad	0	112	93	-
	Symbiont	0	113	89	-
	DarkMoon	0	113	90	-
	Ionosphere	0	115	95	-
	Millennium	0	117	89	-
	Atmosphere	0	112	100	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Pad	Equinox	0	112	95	-
	Fantasia	0	112	89	-
	Stargate	0	114	89	-
	Area51	0	112	90	-
	DigitalPad	0	115	94	-
	Dunes	0	114	90	-
	Messenger	0	116	96	-
	Wave2001	0	112	96	-
	XenonPad	0	112	92	-
Synth	ProLead	0	113	84	-
	FunkyLead	0	121	82	-
	Portatone	0	112	85	-
	Adrenaline	0	113	85	-
	Stardust	0	112	99	-
	AeroLead	0	112	84	-
	MiniLead	0	114	81	-
	SunBell	0	113	99	-
	HiBias	0	116	81	-
	VinylLead	0	115	81	-
	PanLead	0	122	81	-
	StringBells	0	124	89	-
	Padbells	0	126	89	-
	BigTune	0	118	90	-
	TrumpetSaw	0	125	82	-
	Paraglide	0	114	85	-
	Robolead	0	124	82	-
	Fargo	0	119	82	-
	BigLead	0	113	82	-
	Warp	0	117	82	-
	Impact	0	113	88	-
	UnderHeim	0	112	88	-
	CrystalEyes	0	125	89	-
	MelodyMaker	0	117	90	-
	AttackSaw	0	126	82	-
	PercSquare	0	123	81	-
	SquareLead	0	112	81	-
	SawLead	0	112	82	-
	PopLead	0	120	81	-
	BrightMini	0	125	81	-
	OrbitSine	0	126	81	-
	Blaster	0	114	82	-
	TinyLead	0	118	81	-

GM & XG

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Piano	GrandPiano	0	0	1	-
	GrndPianoKSP	0	1	1	-
	MellowGrPno	0	18	1	-
	PianoStrings	0	40	1	-
	Dream	0	41	1	-
	BrightPiano	0	0	2	-
	BritePnoKSP	0	1	2	-
	ElecGrandPno	0	0	3	-
	ElecGrPnoKSP	0	1	3	-
	DetunedCP80	0	32	3	-
	LayeredCP1	0	40	3	-
	LayeredCP2	0	41	3	-
	Honkytonk	0	0	4	-
	HonkytonkKSP	0	1	4	-
	El.Piano1	0	0	5	-
	El.Piano1KSP	0	1	5	-
	MellowEP1	0	18	5	-
	ChorusEP1	0	32	5	-
	HardEl.Piano	0	40	5	-
	VXfadeEl.P1	0	45	5	-
	60sEl.Piano1	0	64	5	-
	El.Piano2	0	0	6	-
	El.Piano2KSP	0	1	6	-
	ChorusEP2	0	32	6	-
	DXEPHard	0	33	6	-
	DXLegend	0	34	6	-
	DXPhaseEP	0	40	6	-
	DX+AnalogEP	0	41	6	-
	DXKotoEP	0	42	6	-
	VXfadeEl.P2	0	45	6	-
	Harpsichord	0	0	7	-
	Harpsi.KSP	0	1	7	-
	Harpsichord2	0	25	7	-
	Harpsichord3	0	35	7	-
	Clavi.	0	0	8	-
	Clavi.KSP	0	1	8	-
	Clavi.Wah	0	27	8	-
	PulseClavi.	0	64	8	-
	PierceClavi.	0	65	8	-
ChromaticPerc	Celesta	0	0	9	-
	Glockenspiel	0	0	10	-
	MusicBox	0	0	11	-
	Orgel	0	64	11	-
	Vibraphone	0	0	12	-
	VibesKSP	0	1	12	-
	HardVibes	0	45	12	-
	Marimba	0	0	13	-
	MarimbaKSP	0	1	13	-
	SineMarimba	0	64	13	-
	Balimba	0	97	13	-
	LogDrums	0	98	13	-
	Xylophone	0	0	14	-
	TubularBells	0	0	15	-
	ChurchBells	0	96	15	-
	Carillon	0	97	15	-
	Dulcimer	0	0	16	-
	Dulcimer2	0	35	16	-
	Cimbalom	0	96	16	-
	Santur	0	97	16	-
Organ	DrawbarOrgan	0	0	17	-
	DetDrawOrgan	0	32	17	-
	60sDrawOrg1	0	33	17	-
	60sDrawOrg2	0	34	17	-
	70sDrawOrg1	0	35	17	-
	DrawbarOrg2	0	36	17	-
	60sDrawOrg3	0	37	17	-
	EvenBarOrg	0	38	17	-
	16+2'2_3Org	0	40	17	-
	OrganBass	0	64	17	-
	70sDrawOrg2	0	65	17	-
	CheezyOrgan	0	66	17	-
	DrawbarOrg3	0	67	17	-
	Perc.Organ	0	0	18	-
	70sPercOrg1	0	24	18	-
	DetPercOrgan	0	32	18	-
	LightOrgan	0	33	18	-
	Perc.Organ2	0	37	18	-
	RockOrgan	0	0	19	-
	RotaryOrgan	0	64	19	-
	SlowRotary	0	65	19	-
	FastRotary	0	66	19	-
	ChurchOrgan	0	0	20	-
	ChurchOrgan3	0	32	20	-
	ChurchOrgan2	0	35	20	-
	NotreDame	0	40	20	-
	OrganFlute	0	64	20	-
	Trem.OrganFl	0	65	20	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Organ	ReedOrgan	0	0	21	-
	PuffOrgan	0	40	21	-
	Accordion	0	0	22	-
	AccordIt	0	32	22	-
	Harmonica	0	0	23	-
	Harmonica2	0	32	23	-
	TangoAccord	0	0	24	-
	TangoAccord2	0	64	24	-
Guiter	NylonGuitar	0	0	25	-
	NylonGuitar2	0	16	25	-
	NylonGuitar3	0	25	25	-
	VelGtrHarmo	0	43	25	-
	Ukulele	0	96	25	-
	SteelGuitar	0	0	26	-
	SteelGuitar2	0	16	26	-
	12StrGuitar	0	35	26	-
	Nylon&Steel	0	40	26	-
	Steel&Body	0	41	26	-
	Mandolin	0	96	26	-
	JazzGuitar	0	0	27	-
	MellowGuitar	0	18	27	-
	JazzAmp	0	32	27	-
	CleanGuitar	0	0	28	-
	ChorusGuitar	0	32	28	-
	MutedGuitar	0	0	29	-
	FunkGuitar1	0	40	29	-
	MuteSteelGtr	0	41	29	-
	FunkGuitar2	0	43	29	-
	JazzMan	0	45	29	-
	Overdriven	0	0	30	-
	GuitarPinch	0	43	30	-
	Distortion	0	0	31	-
	FeedbackGtr	0	40	31	-
	FeedbackGtr2	0	41	31	-
	GtrHarmonics	0	0	32	-
	GtrFeedback	0	65	32	-
	GtrHarmonic2	0	66	32	-
Bass	AcousticBass	0	0	33	-
	JazzRhythm	0	40	33	-
	VXUprghtBass	0	45	33	-
	FingerBass	0	0	34	-
	FingerDark	0	18	34	-
	FlangeBass	0	27	34	-
	Bass&DistEG	0	40	34	-
	FingerSlap	0	43	34	-
	FingerBass2	0	45	34	-
	Mod.Bass	0	65	34	-
	PickBass	0	0	35	-
	MutePickBass	0	28	35	-
	FretlessBass	0	0	36	-
	Fretless2	0	32	36	-
	Fretless3	0	33	36	-
	Fretless4	0	34	36	-
	Syn.Fretless	0	96	36	-
	SmthFretless	0	97	36	-
	SlapBass1	0	0	37	-
	ResonantSlap	0	27	37	-
	PunchThumb	0	32	37	-
	SlapBass2	0	0	38	-
	Velo.Sw.Slap	0	43	38	-
	SynthBass1	0	0	39	-
	SynBass1Dark	0	18	39	-
	FastResoBass	0	20	39	-
	AcidBass	0	24	39	-
	ClaviBass	0	35	39	-
	TechnoBass	0	40	39	-
	Orbiter	0	64	39	-
	SquareBass	0	65	39	-
	RubberBass	0	66	39	-
	Hammer	0	96	39	-
	SynthBass2	0	0	40	-
	MellowSyBass	0	6	40	-
	SequenceBass	0	12	40	-
	ClickSynBass	0	18	40	-
	SynBass2Dark	0	19	40	-
	SmoothSyBass	0	32	40	-
	ModulrSyBass	0	40	40	-
	DXBass	0	41	40	-
	XWireBass	0	64	40	-
Strings	Violin	0	0	41	-
	SlwAtkViolin	0	8	41	-
	Viola	0	0	42	-
	Cello	0	0	43	-
	Contrabass	0	0	44	-
	Trem.Strings	0	0	45	-
	SlwAtTremStr	0	8	45	-
	SuspenseStr	0	40	45	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Strings	PizzicatoStr	0	0	46	-
	Orch.Harp	0	0	47	-
	YangChin	0	40	47	-
	Timpani	0	0	48	-
Ensemble	Strings1	0	0	49	-
	StereoStrngs	0	3	49	-
	SlwAtkStrngs	0	8	49	-
	ArcoStrings	0	24	49	-
	60'sStrings	0	35	49	-
	Orchestra	0	40	49	-
	Orchestra2	0	41	49	-
	TremOrchstra	0	42	49	-
	Velo.Strings	0	45	49	-
	Strings2	0	0	50	-
	S.SlowStrngs	0	3	50	-
	LegatoStrngs	0	8	50	-
	WarmStrings	0	40	50	-
	Kingdom	0	41	50	-
	70'sStrings	0	64	50	-
	Strings3	0	65	50	-
	SynStrings1	0	0	51	-
	ResoStrings	0	27	51	-
	SynStrings4	0	64	51	-
	SynStrings5	0	65	51	-
	SynStrings2	0	0	52	-
	ChoirAahs	0	0	53	-
	StereoChoir	0	3	53	-
	ChoirAahs2	0	16	53	-
	MellowChoir	0	32	53	-
	ChoirStrings	0	40	53	-
	VoiceOohs	0	0	54	-
	SynthVoice	0	0	55	-
	SynthVoice2	0	40	55	-
	Choral	0	41	55	-
	AnalogVoice	0	64	55	-
	OrchestraHit	0	0	56	-
	OrchestrHit2	0	35	56	-
	Impact	0	64	56	-
Brass	Trumpet	0	0	57	-
	Trumpet2	0	16	57	-
	BriteTrumpet	0	17	57	-
	WarmTrumpet	0	32	57	-
	Trombone	0	0	58	-
	Trombone2	0	18	58	-
	Tuba	0	0	59	-
	Tuba2	0	16	59	-
	MutedTrumpet	0	0	60	-
	FrenchHorn	0	0	61	-
	Fr.HornSolo	0	6	61	-
	FrenchHorn2	0	32	61	-
	HornOrchestr	0	37	61	-
	BrassSection	0	0	62	-
	Tp&TbSection	0	35	62	-
	BrassSect2	0	40	62	-
	HighBrass	0	41	62	-
	MellowBrass	0	42	62	-
	SynthBrass1	0	0	63	-
	QuackBrass	0	12	63	-
	ResoSynBrass	0	20	63	-
	PolyBrass	0	24	63	-
	SynthBrass3	0	27	63	-
	JumpBrass	0	32	63	-
	AnaVelBrass1	0	45	63	-
	AnalogBrass1	0	64	63	-
	SynthBrass2	0	0	64	-
	SoftBrass	0	18	64	-
	SynthBrass4	0	40	64	-
	ChoirBrass	0	41	64	-
	AnaVelBrass2	0	45	64	-
	AnalogBrass2	0	64	64	-
Reed	SopranoSax	0	0	65	-
	AltoSax	0	0	66	-
	SaxSection	0	40	66	-
	HyperAltoSax	0	43	66	-
	TenorSax	0	0	67	-
	BreathyTenor	0	40	67	-
	SoftTenorSax	0	41	67	-
	TenorSax2	0	64	67	-
	BaritoneSax	0	0	68	-
	Oboe	0	0	69	-
	EnglishHorn	0	0	70	-
	Bassoon	0	0	71	-
	Clarinet	0	0	72	-
Pipe	Piccolo	0	0	73	-
	Flute	0	0	74	-
	Recorder	0	0	75	-
	PanFlute	0	0	76	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Pipe	BlownBottle	0	0	77	-
	Shakuhachi	0	0	78	-
	Whistle	0	0	79	-
	Ocarina	0	0	80	-
Synth.Lead	SquareLead	0	0	81	-
	SquareLead2	0	6	81	-
	LMSquare	0	8	81	-
	Hollow	0	18	81	-
	Shroud	0	19	81	-
	Mellow	0	64	81	-
	SoloSine	0	65	81	-
	SineLead	0	66	81	-
	SawtoothLead	0	0	82	-
	SawtoothLd2	0	6	82	-
	ThickSaw	0	8	82	-
	DynamicSaw	0	18	82	-
	DigitalSaw	0	19	82	-
	BigLead	0	20	82	-
	HeavySynth	0	24	82	-
	WaspySynth	0	25	82	-
	PulseSaw	0	40	82	-
	Dr.Lead	0	41	82	-
	VelocityLead	0	45	82	-
	Seq.Analog	0	96	82	-
	CalliopeLead	0	0	83	-
	PureLead	0	65	83	-
	ChiffLead	0	0	84	-
	Rubby	0	64	84	-
	CharangLead	0	0	85	-
	DistortedLd	0	64	85	-
	WireLead	0	65	85	-
	VoiceLead	0	0	86	-
	SynthAahs	0	24	86	-
	VoxLead	0	64	86	-
	FifthsLead	0	0	87	-
	BigFive	0	35	87	-
	Bass&Lead	0	0	88	-
	Big&Low	0	16	88	-
	Fat&Perky	0	64	88	-
	SoftWhirl	0	65	88	-
Synth.Pad	NewAgePad	0	0	89	-
	Fantasy	0	64	89	-
	WarmPad	0	0	90	-
	ThickPad	0	16	90	-
	SoftPad	0	17	90	-
	SinePad	0	18	90	-
	HornPad	0	64	90	-
	RotaryStrngs	0	65	90	-
	PolySynthPad	0	0	91	-
	PolyPad80	0	64	91	-
	ClickPad	0	65	91	-
	AnalogPad	0	66	91	-
	SquarePad	0	67	91	-
	ChoirPad	0	0	92	-
	Heaven	0	64	92	-
	Itopia	0	66	92	-
	CCPad	0	67	92	-
	BowedPad	0	0	93	-
	Glacier	0	64	93	-
	GlassPad	0	65	93	-
	MetallicPad	0	0	94	-
	TinePad	0	64	94	-
	PanPad	0	65	94	-
	HaloPad	0	0	95	-
	SweepPad	0	0	96	-
	Shwimmer	0	20	96	-
	Converge	0	27	96	-
	PolarPad	0	64	96	-
	Celestial	0	66	96	-
Synth.Effect	Rain	0	0	97	-
	ClaviPad	0	45	97	-
	HarmoRain	0	64	97	-
	AfricanWind	0	65	97	-
	Carib	0	66	97	-
	SoundTrack	0	0	98	-
	Prologue	0	27	98	-
	Ancestral	0	64	98	-
	Crystal	0	0	99	-
	SynthDr.Comp	0	12	99	-
	Popcorn	0	14	99	-
	TinyBells	0	18	99	-
	RoundGlocken	0	35	99	-
	GlockenChime	0	40	99	-
	ClearBells	0	41	99	-
	ChorusBells	0	42	99	-
	SynthMallet	0	64	99	-
	SoftCrystal	0	65	99	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth.Effect	LoudGlocken	0	66	99	-
	ChristmasBel	0	67	99	-
	VibeBells	0	68	99	-
	DigitalBells	0	69	99	-
	AirBells	0	70	99	-
	BellHarp	0	71	99	-
	Gamelimba	0	72	99	-
	Atmosphere	0	0	100	-
	WarmAtmos.	0	18	100	-
	HollwRelease	0	19	100	-
	NylonElPiano	0	40	100	-
	NylonHarp	0	64	100	-
	HarpVox	0	65	100	-
	Atmos.Pad	0	66	100	-
	Planet	0	67	100	-
	Brightness	0	0	101	-
	FantasyBells	0	64	101	-
	Smokey	0	96	101	-
	Goblins	0	0	102	-
	GoblinsSynth	0	64	102	-
	Creeper	0	65	102	-
	RingPad	0	66	102	-
	Ritual	0	67	102	-
	ToHeaven	0	68	102	-
	Night	0	70	102	-
	Glisten	0	71	102	-
	BellChoir	0	96	102	-
	Echoes	0	0	103	-
	Echoes2	0	8	103	-
	EchoPan	0	14	103	-
	EchoBells	0	64	103	-
	BigPan	0	65	103	-
	SynthPiano	0	66	103	-
	Creation	0	67	103	-
	StarDust	0	68	103	-
	Reso&Panning	0	69	103	-
	Sci-Fi	0	0	104	-
	Starz	0	64	104	-
Ethnic	Sitar	0	0	105	-
	DetunedSitar	0	32	105	-
	Sitar2	0	35	105	-
	Tambra	0	96	105	-
	Tamboura	0	97	105	-
	Banjo	0	0	106	-
	MutedBanjo	0	28	106	-
	Rabab	0	96	106	-
	Gopichant	0	97	106	-
	Oud	0	98	106	-
	Shamisen	0	0	107	-
	Koto	0	0	108	-
	Taisho-kin	0	96	108	-
	Kanoon	0	97	108	-
	Kalimba	0	0	109	-
	Bagpipe	0	0	110	-
	Fiddle	0	0	111	-
	Shanai	0	0	112	-
	Shanai2	0	64	112	-
	Pungi	0	96	112	-
	Hichiriki	0	97	112	-
Percussive	TinkleBell	0	0	113	-
	Bonang	0	96	113	-
	Altair	0	97	113	-
	GamelanGongs	0	98	113	-
	StereoGamlan	0	99	113	-
	RamaCymbal	0	100	113	-
	AsianBells	0	101	113	-
	Agogo	0	0	114	-
	SteelDrums	0	0	115	-
	GlassPerc.	0	97	115	-
	ThaiBells	0	98	115	-
	Woodblock	0	0	116	-
	Castanets	0	96	116	-
	TaikoDrum	0	0	117	-
	GranCassa	0	96	117	-
	MelodicTom	0	0	118	-
	MelodicTom2	0	64	118	-
	RealTom	0	65	118	-
	RockTom	0	66	118	-
	SynthDrum	0	0	119	-
	AnalogTom	0	64	119	-
	ElectroPerc.	0	65	119	-
	Rev.Cymbal	0	0	120	-
Sound Effect	GtrFretNoise	0	0	121	-
	BreathNoise	0	0	122	-
	Seashore	0	0	123	-
	BirdTweet	0	0	124	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Sound Effect	TelephonRing	0	0	125	-
	Helicopter	0	0	126	-
	Applause	0	0	127	-
	Gunshot	0	0	128	-
	CuttingNoise	64	0	1	-
	CuttingNoiz2	64	0	2	-
	StringSlap	64	0	4	-
	Fl.KeyClick	64	0	17	-
	Shower	64	0	33	-
	Thunder	64	0	34	-
	Wind	64	0	35	-
	Stream	64	0	36	-
	Bubble	64	0	37	-
	Feed	64	0	38	-
	Dog	64	0	49	-
	Horse	64	0	50	-
	BirdTweet2	64	0	51	-
	Ghost	64	0	55	-
	Maou	64	0	56	-
	PhoneCall	64	0	65	-
	DoorSqueak	64	0	66	-
	DoorSlam	64	0	67	-
	ScratchCut	64	0	68	-
	ScratchSplit	64	0	69	-
	WindChime	64	0	70	-
	TelphonRing2	64	0	71	-
	CarEngineIgn	64	0	81	-
	CarTiresSqel	64	0	82	-
	CarPassing	64	0	83	-
	CarCrash	64	0	84	-
	Siren	64	0	85	-
	Train	64	0	86	-
	JetPlane	64	0	87	-
	Starship	64	0	88	-
	Burst	64	0	89	-
	RollrCoaster	64	0	90	-
	Submarine	64	0	91	-
	Laugh	64	0	97	-
	Scream	64	0	98	-
	Punch	64	0	99	-
	Heartbeat	64	0	100	-
	FootSteps	64	0	101	-
	MachineGun	64	0	113	-
	LaserGun	64	0	114	-
	Explosion	64	0	115	-
	Firework	64	0	116	-

GM 2

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Piano	GrandPiano	121	0	1	-
	GrandPianoW	121	1	1	-
	GrandPianoD	121	2	1	-
	BrightPiano	121	0	2	-
	BrightPianoW	121	1	2	-
	ElecGrandPno	121	0	3	-
	ElecGrandPW	121	1	3	-
	Honkytonk	121	0	4	-
	HonkytonkW	121	1	4	-
	El.Piano1	121	0	5	-
	DetunedEP1	121	1	5	-
	EP1VeloMix	121	2	5	-
	60'sEl.Piano	121	3	5	-
	El.Piano2	121	0	6	-
	DetunedEP2	121	1	6	-
	EP2VeloMix	121	2	6	-
	EPLegend	121	3	6	-
	EPPhase	121	4	6	-
	Harpsichord	121	0	7	-
	Harpsi.OctMx	121	1	7	-
	HarpsichordW	121	2	7	-
	Harpsi.KOff	121	3	7	-
	Clavi.	121	0	8	-
	PulseClavi.	121	1	8	-
ChromaticPerc	Celesta	121	0	9	-
	Glockenspiel	121	0	10	-
	MusicBox	121	0	11	-
	Vibraphone	121	0	12	-
	VibraphoneW	121	1	12	-
	Marimba	121	0	13	-
	MarimbaW	121	1	13	-
	Xylophone	121	0	14	-
	TubularBells	121	0	15	-
	ChurchBells	121	1	15	-
	Carillon	121	2	15	-
	Dulcimer	121	0	16	-
Organ	DrawbarOrgan	121	0	17	-
	DetDrawOrgan	121	1	17	-
	It60'sOrgan	121	2	17	-
	DrawbarOrg2	121	3	17	-
	Perc.Organ	121	0	18	-
	DetPercOrgan	121	1	18	-
	Perc.Organ2	121	2	18	-
	RockOrgan	121	0	19	-
	ChurchOrgan	121	0	20	-
	ChrchOrgOctM	121	1	20	-
	DetChurchOrg	121	2	20	-
	ReedOrgan	121	0	21	-
	PuffOrgan	121	1	21	-
	Accordion	121	0	22	-
	Accordion2	121	1	22	-
	Harmonica	121	0	23	-
	TangoAccord	121	0	24	-
Guitar	NylonGuitar	121	0	25	-
	Ukulele	121	1	25	-
	NylonGtrKOff	121	2	25	-
	NylonGuitar2	121	3	25	-
	SteelGuitar	121	0	26	-
	12StrGuitar	121	1	26	-
	Mandolin	121	2	26	-
	Steel&Body	121	3	26	-
	JazzGuitar	121	0	27	-
	PedlSteelGtr	121	1	27	-
	CleanGuitar	121	0	28	-
	DetCleanGtr	121	1	28	-
	MidToneGtr	121	2	28	-
	MutedGuitar	121	0	29	-
	FunkGuitar	121	1	29	-
	MutedV-SwGtr	121	2	29	-
	JazzMan	121	3	29	-
	Overdriven	121	0	30	-
	GuitarPinch	121	1	30	-
	Distortion	121	0	31	-
	FeedbackGtr	121	1	31	-
	DstRhythmGtr	121	2	31	-
	GtrHarmonics	121	0	32	-
	GtrFeedback	121	1	32	-
Bass	AcousticBass	121	0	33	-
	FingerBass	121	0	34	-
	FingerSlap	121	1	34	-
	PickBass	121	0	35	-
	FretlessBass	121	0	36	-
	SlapBass1	121	0	37	-
	SlapBass2	121	0	38	-
	SynthBass1	121	0	39	-
	WarmSyBass	121	1	39	-
	ResoSynhBass	121	2	39	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Bass	ClaviBass	121	3	39	-
	Hammer	121	4	39	-
	SynthBass2	121	0	40	-
	AttackBass	121	1	40	-
	RubberBass	121	2	40	-
	AttackPulse	121	3	40	-
Strings	Violin	121	0	41	-
	SlwAtkViolin	121	1	41	-
	Viola	121	0	42	-
	Cello	121	0	43	-
	Contrabass	121	0	44	-
	Trem.Strings	121	0	45	-
	PizzicatoStr	121	0	46	-
	Orch.Harp	121	0	47	-
	YangChin	121	1	47	-
	Timpani	121	0	48	-
Ensemble	Strings1	121	0	49	-
	StringsBrass	121	1	49	-
	60'sStrings	121	2	49	-
	Strings2	121	0	50	-
	SynStrings1	121	0	51	-
	SynStrings3	121	1	51	-
	SynStrings2	121	0	52	-
	ChoirAahs	121	0	53	-
	ChoirAahs2	121	1	53	-
	VoiceOohs	121	0	54	-
	Humming	121	1	54	-
	SynthVoice	121	0	55	-
	AnalogVoice	121	1	55	-
	OrchestraHit	121	0	56	-
	BassHitPlus	121	1	56	-
	6thHit	121	2	56	-
	EuroHit	121	3	56	-
Brass	Trumpet	121	0	57	-
	DarkTpSoft	121	1	57	-
	Trombone	121	0	58	-
	Trombone2	121	1	58	-
	BriteTrombon	121	2	58	-
	Tuba	121	0	59	-
	MutedTrumpet	121	0	60	-
	MuteTrumpet2	121	1	60	-
	FrenchHorn	121	0	61	-
	FrenchHorn2	121	1	61	-
	BrassSection	121	0	62	-
	BrassSect2	121	1	62	-
	SynthBrass1	121	0	63	-
	SynthBrass3	121	1	63	-
	AnaSynBrass1	121	2	63	-
	JumpBrass	121	3	63	-
	SynthBrass2	121	0	64	-
	SynthBrass4	121	1	64	-
	AnaSynBrass2	121	2	64	-
Reed	SopranoSax	121	0	65	-
	AltoSax	121	0	66	-
	TenorSax	121	0	67	-
	BaritoneSax	121	0	68	-
	Oboe	121	0	69	-
	EnglishHorn	121	0	70	-
	Bassoon	121	0	71	-
	Clarinet	121	0	72	-
Pipe	Piccolo	121	0	73	-
	Flute	121	0	74	-
	Recorder	121	0	75	-
	PanFlute	121	0	76	-
	BlownBottle	121	0	77	-
	Shakuhachi	121	0	78	-
	Whistle	121	0	79	-
	Ocarina	121	0	80	-
Synth.Lead	SquareLead	121	0	81	-
	SquareLead2	121	1	81	-
	SineLead	121	2	81	-
	SawtoothLead	121	0	82	-
	SawtoothLd2	121	1	82	-
	SawPulseLead	121	2	82	-
	DoublSawLead	121	3	82	-
	Seq.Analog	121	4	82	-
	CalliopeLead	121	0	83	-
	ChiffLead	121	0	84	-
	CharangLead	121	0	85	-
	WireLead	121	1	85	-
	VoiceLead	121	0	86	-
	FifthsLead	121	0	87	-
	Bass&Lead	121	0	88	-
	SoftWhirl	121	1	88	-
Synth.Pad	NewAgePad	121	0	89	-
	WarmPad	121	0	90	-
	SinePad	121	1	90	-

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Synth.Pad	PolySynthPad	121	0	91	-
	ChoirPad	121	0	92	-
	ItopiaPad	121	1	92	-
	BowedPad	121	0	93	-
	MetallicPad	121	0	94	-
	HaloPad	121	0	95	-
	SweepPad	121	0	96	-
Synth.Effect	Rain	121	0	97	-
	SoundTrack	121	0	98	-
	Crystal	121	0	99	-
	SynthMallet	121	1	99	-
	Atmosphere	121	0	100	-
	Brightness	121	0	101	-
	Goblins	121	0	102	-
	Echoes	121	0	103	-
	EchoBell	121	1	103	-
	EchoPan	121	2	103	-
	Sci-Fi	121	0	104	-
Ethnic	Sitar	121	0	105	-
	Sitar2	121	1	105	-
	Banjo	121	0	106	-
	Shamisen	121	0	107	-
	Koto	121	0	108	-
	TaishoKoto	121	1	108	-
	Kalimba	121	0	109	-
	Bagpipe	121	0	110	-
	Fiddle	121	0	111	-
	Shanai	121	0	112	-
Percussive	TinkleBell	121	0	113	-
	Agogo	121	0	114	-
	SteelDrums	121	0	115	-
	Woodblock	121	0	116	-
	Castanets	121	1	116	-
	TaikoDrum	121	0	117	-
	ConcertBD	121	1	117	-
	MelodicTom	121	0	118	-
	MelodicTom2	121	1	118	-
	SynthDrum	121	0	119	-
	RhythmBoxTom	121	1	119	-
	ElectricDrum	121	2	119	-
	Rev.Cymbal	121	0	120	-
SoundEffect	GtrFretNoise	121	0	121	-
	GtrCutNoise	121	1	121	-
	StringSlap	121	2	121	-
	BreathNoise	121	0	122	-
	Fl.KeyClick	121	1	122	-
	Seashore	121	0	123	-
	Rain	121	1	123	-
	Thunder	121	2	123	-
	Wind	121	3	123	-
	Stream	121	4	123	-
	Bubble	121	5	123	-
	BirdTweet	121	0	124	-
	Dog	121	1	124	-
	HorseGallop	121	2	124	-
	BirdTweet2	121	3	124	-
	TelephonRing	121	0	125	-
	TelRing2	121	1	125	-
	DoorCreaking	121	2	125	-
	Door	121	3	125	-
	Scratch	121	4	125	-
	WindChime	121	5	125	-
	Helicopter	121	0	126	-
	CarEngine	121	1	126	-
	CarStop	121	2	126	-
	CarPass	121	3	126	-
	CarCrash	121	4	126	-
	Siren	121	5	126	-
	Train	121	6	126	-
	Jetplane	121	7	126	-
	Starship	121	8	126	-
	BurstNoise	121	9	126	-
	Applause	121	0	127	-
	Laughing	121	1	127	-
	Screaming	121	2	127	-
	Punch	121	3	127	-
	HeartBeat	121	4	127	-
	Footsteps	121	5	127	-
	Gunshot	121	0	128	-
	MachineGun	121	1	128	-
	Lasergun	121	2	128	-
	Explosion	121	3	128	-
	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

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
SoundEffect	JazzSet	120	0	33	Drums
	BrushSet	120	0	41	Drums
	OrchestraSet	120	0	49	Drums
	SFXSet	120	0	57	SFX Kit

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									
	121			121						Hard			
120	120			120									
										116			
	Slide			Slide						115			
110							Hard				Hard		
	106			106									
	105			105									
100													
	Hammer			Hammer									
	91			91						Medium			
90	90			90			90				90		
							89				89		
	Mute			Mute									
80													
	76			76									
	75			75						72			
70										71			
	Dead			Dead									
Key On Velocity Value		Strum Noise	Fret Noise		Strum Noise	Fret Noise		Strum Noise	Fret Noise			Strum Noise	Fret Noise
	61			61									
60	60			60									
	Open Hard			Open Hard									
50													
	41			41			Soft				Soft		
40	40			40									
										Soft			
	Open Medium			Open Medium									
30													
	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			3			0		
PRG (0-127)	3			3			3			3			4		
PRG (1-128)	4			4			4			4			5		
Voice Name	Mega CleanGuitar			Mega SolidGuitar1			Mega SolidGuitar2			Mega SingleCoil			Mega OverdriveGtr		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	
	Pick Harmonics			Pick Harmonics			Pick Harmonics			Pick Harmonics			Pick Harmonics		
	121			121			121			121			121		
120	120			120			120			120			120		
	Slide			Slide			Slide			Slide					
110															
	106			106			106			106					
	105			105			105			105					
100	Hammer			Hammer			Hammer			Hammer					
	91			91			91			91					
90	90			90			90			90			Mute		
	Mute			Mute			Mute			Mute					
80															
	76			76			76			76					
	75			75			75			75					
70	Dead			Dead			Dead			Dead					
Key On Velocity Value		Strum Noise	Fret Noise		Strum Noise	Fret Noise		Strum Noise	Fret Noise		Strum Noise	Fret Noise		EFX	
	61			61			61			61					
60	60			60			60			60			56		
													55		
50	Slap			Slap			Open Hard			Open Hard					
	41			41			41			41					
40	40			40			40			40					
													Open		
30	Open Hard			Open Hard			Open Medium			Open Medium					
	21			21			21			21					
20	20			20			20			20					
	Open Soft			Open Soft			Open Soft			Open Soft					
10															
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

MSB (0-127)	8			8			8			8		
LSB (0-127)	0			0			0			0		
PRG (0-127)	5			6			16			17		
PRG (1-128)	6			7			17			18		
Voice Name	Mega DistortionGtr			Mega JazzGuitar			Mega AcousticBass			Mega ElectricBass		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127	127		127	127	127	127	127		127	127	
	Pick Harmonics			Pick Harmonics			Harmonics			Slap		
	121			121			121			121		
120	120			120			120			120		
				Slide								
110												
				106								
				105								
100				Hammer			Dead			Dead		
				91								
90				90								
	Mute			Dead Hard								
							81			81		
80							80			80		
				76								
				75								
70				Dead Soft			Open Hard			Open Hard		
Key On Velocity Value		EFX			Strum Noise	Fret Noise		EFX			EFX	
				61			61			61		
60				60			60			60		
	56											
	55											
50				Open Hard								
				41								
40				40								
				Open Medium								
30							Open Soft			Open Soft		
	Open											
				21								
20				20								
10				Open Soft								
1	1	1		1	1	1	1	1		1	1	

MSB (0-127)	8			8			8			8			8		
LSB (0-127)	1			2			0			1			0		
PRG (0-127)	17			17			18			18			19		
PRG (1-128)	18			18			19			19			20		
Voice Name	Mega VintageRound			Mega VintageFlat			Mega PickBass			Mega VintagePick			Mega FretlessBass		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127	127		127	127		127	127		127	127		127	127	
	Harmonics			Harmonics			Harmonics			Harmonics			Harmonics		
	121			121			121			121			121		
120	120			120			120			120			120		
110															
100	Dead			Dead			Dead			Dead			Dead		
90															
	81			81			81			81			81		
80	80			80			80			80			80		
70	Open Hard			Open Hard											
Key On Velocity Value		EFX			EFX			EFX			EFX			EFX	
	61			61			Mute			Mute					
60	60			60											
50															
							41			41					
40							40			40			Open		
30	Open Soft			Open Soft											
20							Open			Open					
10															
1	1	1		1	1		1	1		1	1		1	1	

MSB (0-127)	8			8			8			8			8		
LSB (0-127)	0			0			0			0			0		
PRG (0-127)	48			49			56			64			82		
PRG (1-128)	49			50			57			65			83		
Voice Name	Mega SmallStrings			Mega LargeStrings			Mega Brass			Mega Trumpet			Mega TenorSax		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127			127			127			127	127	127	127	127	127
	Glissando Down			Glissando Down			Glissando Up			Glissando Up					
	121			121			121			121					
120	120			120			120			120					
	Tremolo			Tremolo			Falls Fast f			Falls			Falls		
	111			111			111			111					
110	110			110			110			110					
	Spicato ff			Spicato ff			Falls Fast mf			Shake					
							101			101			101		
100							100			100			100		
	96			96			Shake								
	95			95			91								
90	Spicato f			Spicato f			90			Straight			Growl		
							Scoops								
	81			81			81			81			81		
80	80			80			80			80			80		
70	Legato			Legato			Attack			Legato			Legato		
Key On Velocity Value	61			61			61			61	Valve Noise	Breath Noise	61	Valve Noise (C6–B6 Key On Noise, C7–B7 Key Off Noise)	Breath Noise
60	60			60			60			60			60		
50	f			f			f			ff			f		
	41			41			41			41			41		
40	40			40			40			40			40		
30	mf			mf			mf			f			mf		
	21			21			21			21			21		
20	20			20			20			20			20		
10	p			p			p			mf			mp		
1	1			1			1			1	1	1	1	1	1

Panel Drum Kit/XG Drum Kit

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

• Key Off: Keys marked "●" stop sounding the instant they are released.
• Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Same as Standard Kit 1 No Sound

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

• Key Off: Keys marked "●" stop sounding the instant they are released.
• Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Same as Standard Kit 1 No Sound

Bank Select MSB (0-127)					127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0
Program Change (0-127)					56	57	58	59	86
Program Change (1-128)					57	58	59	60	87
MIDI		Keyboard Note	Key Off	Alternate Group	HipHop Kit	Break Kit	AnalogT8 Kit	AnalogT9 Kit	Live! Studio Kit
Note#	Note								
13	C#-1	C#0		3					
14	D-1	D0		3					
15	D#-1	D#0							
16	E-1	E0							
17	F-1	F0		4					
18	F#-1	F#0		4					
19	G-1	G0			Hi-Hat Closed T8 2		Snare Hammer	Snare Drum&Bass 1	
20	G#-1	G#0			Tom T8 3	Snare Break 8	Kick ZapHard	Kick Break 2	
21	A-1	A0			Hi-Hat Open T8 2	Snare Break 9	Snare Garg L	Snare Distortion	
22	A#-1	A#0			Tom T8 6	Hi-Hat Closed Break 1	Kick TekPower	Kick TekPower	
23	B-1	B0			Crash T8	Hi-Hat Closed Break 2	Kick Slimy	Kick Distortion RM	
24	C0	C1			Triangle Mute	Kick Break Deep	Kick T8 1	Kick T9 2	
25	C#0	C#1			Triangle Open	Snare Hip	Snare Analog CR	Snare Analog CR	
26	D0	D1	●		Bell Tree	Snare Lo-Fi	Snare T8 4	Snare T9 5	
27	D#0	D#1			Tambourine RX5	Snare Clappy	Snare Clap Analog	Clap Analog Sm	
28	E0	E1	●		Tambourine RX5 2	Snare LdwH Mono	Snare T8 3	Snare T9 Gate	
29	F0	F1	●		Kick HipHop 9	Snare Rock Roll	Tom T8 5	Snare Rock Roll	
30	F#0	F#1			Hi-Hat Closed Tek	Snare Gate 1	Snare T8 5	Snare T9 3	
31	G0	G1			Kick Gate	Snare Mid	Kick T8 3	Snare T9 4	Snare Studio L
32	G#0	G#1			Hi-Hat Open Lo-Fi	Snare Break Rim	Snare T8 4	Snare T9 Gate	
33	A0	A1			Kick Gran Casa Open	Kick Break Heavy	Kick T8 2	Kick T9 4	Kick Amb H
34	A#0	A#1			Hi-Hat Reverse Drum&Bass	Snare Hip Rim 4	Snare T8 3	Snare T9 5	Open Rim Shot
35	B0	B1			Kick HipHop 1	Kick Break 2	T8 Kick Bass	Kick T9 1	Kick Amb L
36	C1	C2			Kick Analog CR	Kick Break 1	Kick T8 1	Kick T9 3	Kick Studio
37	C#1	C#2			Snare Analog Sm Rim	Snare Hip Rim 1	Snare T8 Rim	Snare T9 Rim	Side Stick
38	D1	D2			Snare HipHop 1	Snare Break 3	Snare T8 2	Snare T9 1	Snare Studio M
39	D#1	D#2			Snare Clappy	Snare Break 1	Clap T9	Clap T9	Hand Clap
40	E1	E2			Snare HipHop 2	Snare Break 2	Snare T8 1	Snare T9 2	Snare Studio L
41	F1	F2			Floor Tom L	Tom Break 1	Tom T8 1	Tom T9 1	
42	F#1	F#2		1	Hi-Hat Closed Hip	Hi-Hat Closed Rock Soft	Hi-Hat Closed T8 2	Hi-Hat Closed T9	
43	G1	G2			Low Tom	Tom Break 22	Tom T8 2	Tom T9 2	
44	G#1	G#2		1	Hi-Hat Pedal Hip	Hi-Hat Pedal Rock	Hi-Hat Open T8 1	Hi-Hat Pedal T9	
45	A1	A2			Mid Tom L	Tom Break 3	Tom T8 3	Tom T9 3	
46	A#1	A#2		1	Hi-Hat Open Hip	Hi-Hat Half Open Rock	Hi-Hat Open T8 1	Hi-Hat Open T9	
47	B1	B2			High Tom	Tom Break 4	Tom T8 4	Tom T9 4	
48	C2	C3			Ride Cymbal 3	Tom Break 5	Tom T8 6	Tom T9 5	
49	C#2	C#3			Crash Cymbal 3	Crash Cymbal 2	Crash T8	Crash T9	
50	D2	D3			Shaker 2	Tom Break 6	Tom T8 7	Tom T9 6	
51	D#2	D#3			Scratch Bass Drum Forward	Ride Cymbal 3	Ride T9	Ride T9	
52	E2	E3			Scratch Bass Drum Reverse	Chinese Cymbal 2	Chinese Cymbal 2	Chinese Cymbal 2	
53	F2	F3			Kick HipHop 2	Ride Cymbal Cup 2	Ride Cymbal Cup 2	Ride Cymbal Cup 2	
54	F#2	F#3			Snare HipHop Rim 2	Tambourine 1 Hit	Tambourine RX5	Tambourine RX5	
55	G2	G3			HipHop Clap 2	Crash Cymbal 3	Splash Cymbal	Crash Cymbal 3	
56	G#2	G#3			HipHop Snap 1	Cowbell 1	Cowbell T8	Cowbell 1	
57	A2	A3			Snare HipHop 3	Crash Cymbal 2	Crash Cymbal 4	Crash Cymbal 4	
58	A#2	A#3			Electric Clap 2	Cowbell RX11	Vibraslap	Cowbell T8	
59	B2	B3			Kick Hip Deep	Ride Cymbal 2	Ride Cymbal 3	Ride Cymbal 3	
60	C3	C4			Kick HipHop 3	Bongo H	Conga T8 5	Conga T8 5	
61	C#3	C#4			Snare HipHop Rim 3	Bongo L	Conga T8 4	Conga T8 4	
62	D3	D4			Snare HipHop 5	Conga H Tip	Conga T8 3	Conga Tip	
63	D#3	D#4			Electric Clap 1	Conga H Open Slap	Conga T8 2	Conga Open Slap	
64	E3	E4			Handbell H	Conga H Open	Conga T8 1	Conga Open	
65	F3	F4			Kick HipHop 4	Bongo 2 H	Timbale H	Timbale H	
66	F#3	F#4			HipHop Clap 3	Bongo 2 L	Timbale L	Timbale L	
67	G3	G4			HipHop Snap 2	Conga Open	Glass H	Analog Click	
68	G#3	G#4			Snare HipHop Rim 5	Agogo L	Glass L	Conga T8 1	
69	A3	A4			HipHop flex 1	Cabasa	Cabasa	Cabasa	
70	A#3	A#4			HipHop flex 2	Maracas Slur	Maracas T8	Maracas Slur	
71	B3	B4	●		Shaker 2	Timbale H	FxGun 2	FxGun 2	
72	C4	C5	●		Kick HipHop 5	Timbale L	FxGun 1	FxGun 1	
73	C#4	C#5			Snare HipHop Rim 4	Scratch H 2	Analog Shaker H	Scratch H 2	
74	D4	D5	●		Snare HipHop 6	Scratch Down	Analog Shaker L	Scratch Down	
75	D#4	D#5			Snare HipHop 11	Clave	Clave T8	Hi Q 3	
76	E4	E5			Kick HipHop 10	Wood Block H	Hi Q 1	Hi Q 1	
77	F4	F5			Snare HipHop 7	Wood Block L	Hi Q 2	Hi Q 2	
78	F#4	F#5			HipHop Clap 5	Scratch L	Scratch L	Scratch L	
79	G4	G5			Conga H Tip	Scratch L 2	Scratch L 2	Scratch L 2	
80	G#4	G#5		2	Conga H Heel	Triangle Mute	Triangle Mute	Triangle Mute	
81	A4	A5		2	Conga H Open	Triangle Open	Triangle Open	Triangle Open	
82	A#4	A#5			Conga L Open 1	Kick Break 3	Analog Shaker	Analog Shaker	
83	B4	B5			Conga L Open 2	Kick Break 4	Sleigh Bell	Sleigh Bell	
84	C5	C6			Kick HipHop 8	Kick Break 5	Bell Tree	Bell Tree	Bell Tree
85	C#5	(C#6)			HipHop Clap 6	Kick Break 6	Snare Hip 1	Snare Piccolo	
86	D5	(D6)			Snare T8 1	Kick Break 7	Snare Hip 2	Snare T8 5	
87	D#5	(D#6)			Snare T8 1 H	Hi-Hat Closed Break 3	Snare Hip Gate	Snare Rock Roll Distortion	
88	E5	(E6)			HipHop Clap 7	Snare Break 4	Snare Break 1	Snare Brush Mute	
89	F5	(F6)			Tom T8 1	Snare Break 5	Kick Blip	Kick Blip Hard	
90	F#5	(F#6)			Hi-Hat Closed T8 2	Snare Break 6	Snare FX 1	Snare Jungle 1	
91	G5	(G6)			Tom T8 2	Snare Break 7	Kick FxHammer	Kick Sustain	

• Key Off: Keys marked "●" stop sounding the instant they are released.
• Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Same as Standard Kit 1 No Sound

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

• Key Off: Keys marked "●" stop sounding the instant they are released.
• Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Same as Standard Kit 1 No Sound

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

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

Same as Standard Kit 1 No Sound

GM2 Drum Kit / SFX Kit

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

Same as Standard Kit 1 No Sound

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

Same as Standard Kit 1 No Sound

Category	Style Name
Pop&Rock	HardRock
	80'sPowerRock
	80'sPopRock
	80'sGtrPop
	BritRockPop
	EasyPop
	Live8Beat
	Classic8Beat
	Cool8Beat
	UKSoulPop
	80'sSynthRock
	80'sPop
	60'sVintageRock
	60'sPianoPop
	60'sVintagePop
	ContempPop
	ChartPianoShfl
	ChartRockShfl
	90'sRockBallad
	80's8Beat
	StandardRock
	ContempRock
	AcousticRock
	FunkPopRock
	PowerRock
	Uptempo8Beat
	8BeatModern
	VintageGtrPop
	WestCoastPop
	Straight8Pop
	SoftRock
	ContempRockBld
	BritPop
	BritPopSwing
	60'sChartSwing
	ChartGuitarPop
	70's8Beat
	60's8Beat
	60'sGuitarPop
	BubblegumPop
	90'sGuitarPop
	SouthernRock
	CaribbeanRock
	Unplugged1
	Unplugged2
	60'sPopRock
	RockShuffle
	8BeatGtrPop
	Classic16Beat
	JazzPop
	KoolShuffle
	PopShuffle
	FusionShuffle
	ScandPopShuffle
	J-PopHit
Ballad	ModernPopBld
	SoulR&B
	70'sGlamPiano
	70'sChartBallad
	ChilloutCafe
	90'sCoolBallad
	80'sSmoothBld
	R&BSoulBallad
	8BeatBallad1
	8BeatBallad2
	PopGtrBallad
	EasyBallad
	EPBallad
	PowerBallad
	EpicBallad
	16BeatBallad1
	16BeatBallad2
	80'sEPBallad
	70'sPopBallad
	80'sBoyBand
	Chillout1
	Chillout2
	PopWaltz
	ContempPopBld
	80'sMovieBallad
	6-8SlowRock1
	16BeatPop
	6-8SlowRock2
	6-8Modern
	6-8Orchestral
	12-8Ballad
	OrganBallad
	PianoBallad
	RomanticBallad

Category	Style Name
Ballad	AnalogBallad
	GuitarBallad
	LoveSong
	NewR&BBallad
	ChartBallad
	PopNewAge
	Slow&Easy
	PopPianoBallad
	AcousticBallad
	GuitarSerenade
Dance	Electronica
	ModernHipHop
	FunkyHouse
	Clubdance1
	Clubdance2
	FunkDisco
	80'sSynDisco
	SynthPop
	70'sDisco1
	70'sDisco2
	DreamDance
	TrancePop
	Garage
	Dancehall
	Groundbeat
	70'sDiscoFunk
	DiscoPhilly
	90'sDisco
	80'sDisco
	DiscoTeens
	Ibiza2004
	Ibiza2002
	EuroTrance
	RetroPop
	CelticTrance
	FrenchHouse
	ClubHouse
	DiscoHouse
	House
	SwingHouse
	ClassicHipHop
	NewHipHop
	EuroHipHop
	USHipHop
	TripHop
	PopR&B
	NewR&B
	ChartR&B
	ChartPop1
	ChartPop2
	TechnoParty
	LatinDJ's
	USPop
	DiscoChocolate
	6-8Trance
	HipHopLight
	HipHopGroove
Swing&Jazz	ModBigBandShfl
	ModBigBandBld
	ModernBigBand
	ClassicBigBand
	DreamyBallad
	JazzGtrClub
	ModernJazz
	AcousticJazz
	CoolJazz
	FastJazz
	OrchBigBand1
	TradPianoJazz
	CoolJazzBallad
	ModernJazzBld
	EasyListening
	OrchBigBand2
	TradPianoBallad
	MORSwing
	OrganCombo
	Bebop
	BigBandFast1
	BigBandMed1
	JazzClub
	OrchestraSwing1
	OrchestraSwing2
	BigBandFast2
	BigBandMed2
	JazzWaltzSlow
	JazzWaltzMed
	JazzWaltzFast
	Swingin'BigBand
	30'sBigBand

Category	Style Name
Swing&Jazz	40'sBigBand
	OrchJazzBallad
	MidnightSwing
	Five-Four
	AfroCuban
	LoungePiano
	OrganGroove
	JumpJive
	Dixieland1
	Ragtime1
	Charleston
	FrenchJazz
	BigBandShuffle
	Dixieland2
	Ragtime2
	MoonlightBallad
R&B	ModernShuffle
	BluesRock
	70'sChartSoul
	SoulBrothers
	FranklySoul
	JazzFunk
	LiveSoulBand
	6-8Soul
	MotorCity
	SlowBlues
	SoulSwing
	Rock&Roll1
	Rock&RollShfl
	Skiffle
	OldiesR&R
	Swingin'Boogie
	DetroitPop1
	DetroitPop2
	SoulShuffle
	Soul
	GospelSwing
	GospelSisters
	SouthernGospel
	GospelBrothers
	GospelFunk
	WorshipSlow
	WorshipMed
	WorshipFast
	WorshipIrishRk
	Worship6-8
	PianoBoogie
	ShuffleBlues
	R&BBallad
	LovelyShuffle
	KoolFunk
	BlueberryBlues
	60'sRock&Roll
	Rock&Roll2
	Twist
	CrocoTwist
	SoulBeat
	WorshpPowerBld
	ModernR&B
	ComboTwist
	ComboBoogie
Country	70'sCountryPop
	70'sChartCntry
	EasyCountry
	CountryHits
	Country8Beat
	ModBluegrass
	Bluegrass
	Hoedown
	ModCntryBld1
	ModCntryBld2
	NewCountry
	CountryShuffle
	CntrySing-along
	CountryStrum
	CountryWaltz
	CountryRockBld
	CountryBallad
	Country2-4
	CountryTwoStep
	CountryBrothers
	CountrySwing1
	CountryPop
	CountryRock
	ModernCntryPop
	FolkPop
	CountrySwing2
	SingerSongWriter
	FingerPickin

Category	Style Name
Latin	LatinPartyPop
	BrazilianSamba
	BossaNova
	FastBossa
	PopLatinBld
	SheriffReggae
	HappyReggae
	Bomba
	Salsa
	Guijira
	Guaguanco
	CubanSon
	BoleroLento
	Merengue
	Bachata
	RumbaFlamenco1
	Cumbia
	Danzon
	Vallenato4-4
	Calypso
	PopLatin
	LatinDisco1
	LatinDisco2
	RockChaCha
	OrchestralBossa
	SlowBossa
	PopBossa1
	PopBossa2
	OrganBossa
	Beguine
	GuitarRumba
	BigBandSamba
	BigBandMambo
	BigBandSalsa
	RumbaFlamenco2
	RumbaIsland
	PopRumba
	PopMambo
	PopSalsa
Ballroom	ViennneseWaltz1
	ViennneseWaltz2
	EnglishWaltz
	Slowfox
	Foxtrot
	Quickstep
	Tango1
	Tango2
	Swingfox
	Pasodoble
	Samba
	ChaChaCha
	Rumba
	Jive
	OrganChaCha
	OrganSwing
	OrganSamba
	OrganQuickstep
	OrganRumba
	TheatreFoxtrot
	TheatreQuickstep
	TheatreMarch
	9-8Waltz
	SwingWaltz
Movie&Show	MovieSoundtrack
	EtherealMovie
	Blockbuster
	AniFantasy
	AnimationBld
	RomanticBallet
	GreenFantasia
	BaroqueConcerto
	BaroqueAir
	ClassicalMenuet
	ClassicalSerenad
	Sci-fiMarch
	SecretService
	70'sTVTheme
	WildWest
	MovieSwing1
	MovieSwing2
	MovieBallad
	MovieDisco
	SaturdayNight
	OrchestralBolero
	OrchestralMarch
	OrchestralPolka

Category	Style Name
Movie&Show	PopClassics
	BroadwayBld
	Moonlight6-8
	ClassicPianoBld
	Showtune
	French50's
	TapDanceSwing
	CelticXmas
	ChristmasShuffle
	ChristmasBallad
	ChristmasSwing1
	ChristmasSwing2
	ChristmasWaltz
	MoviePanther
Entertainer	GermanRock
	DiscoFox
	SchlagerFox
	SchlagerWaltz
	EuroPopOrgan
	AlpBallad1
	AlpBallad2
	70'sFrenchHit
	Schlager6-8
	SchlagerPolka
	ScandShuffle
	ScandCountry1
	ScandCountry2
	ScandSlowRock
	ScandBugg
	SchlagerSamba
	SchlagerShuffle
	SchlagerItalia
	SchlagerRock
	SchlagerAlp
	SchlagerPop
	SchlagerBeat
	SchlagerRumba
	PartyPolka
	Tijuana
	AlpRock
	8BeatAdria
	PubPiano
	PolkaPop
	DiscoHands
	Carnival
	Caribbean
World	ZitherPolka
	BohemianWaltz
	IrishHymn1
	IrishHymn2
	Sirtaki
	Flamenco
	SpanishPaso
	PopFlamenco
	FrenchMusette
	ItalianMazurka
	TurkishEuro1
	TurkishEuro2
	Saeidy
	IrishDance
	CelticDance
	HighlandWaltz
	ItalianWaltz
	FrenchWaltz
	ScandWaltz
	MariachiWaltz
	OrientalPop
	Zouk
	Casatchock
	Hawaiian
	GermanWaltz
	OberPolka1
	OberWalzer1
	MexicanDance
	ItalianPolka
	ItalianTango
	Strathspey
	Reel
	Jig
	GayGordons
	Tarantella
	ScandHambo
	ScandSchottis
	USMarch
	6-8March
	BrassBand

Category	Style Name
World	GermanMarch1
	GermanMarch2
	Norteno
	BandaPolka
	BandaVals
	OberPolka2
	OberWalzer2
	HullyGully
	FolkRock
	Enka
	PopEnka

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	FlamencoGtr
25	A.GtrAccomp
26	Steel8BtStrum1
27	Steel8BtStrum2
28	SteelBsChdSlow
29	SteelBsChdFast
30	ReggaeAccomp
31	E.Gtr8BtStrm1
32	E.Gtr8BtStrm2
33	E.GtrRock1
34	E.GtrRock2
35	OrganBlues
36	BoogieLoops
37	LatinKeys
38	BaroqueStrings
39	StringsArpeggio
40	StrRun&Fall
41	TrumpetSwing
42	BrassSwing
43	BigBandSwing1
44	BigBandSwing2
45	BigBandSwing3
46	JazzGtrSwing
47	Brass8Beat
48	BrassChords1
49	BrassChords2
50	BrassChords3
51	Falls
52	SynthBrassSlide
53	OrchestraHit
54	Classical
55	Comedy
56	AttentionDuo
57	Fanfare
58	PianoGlissando
59	Gong&Chime
60	DrumEndings

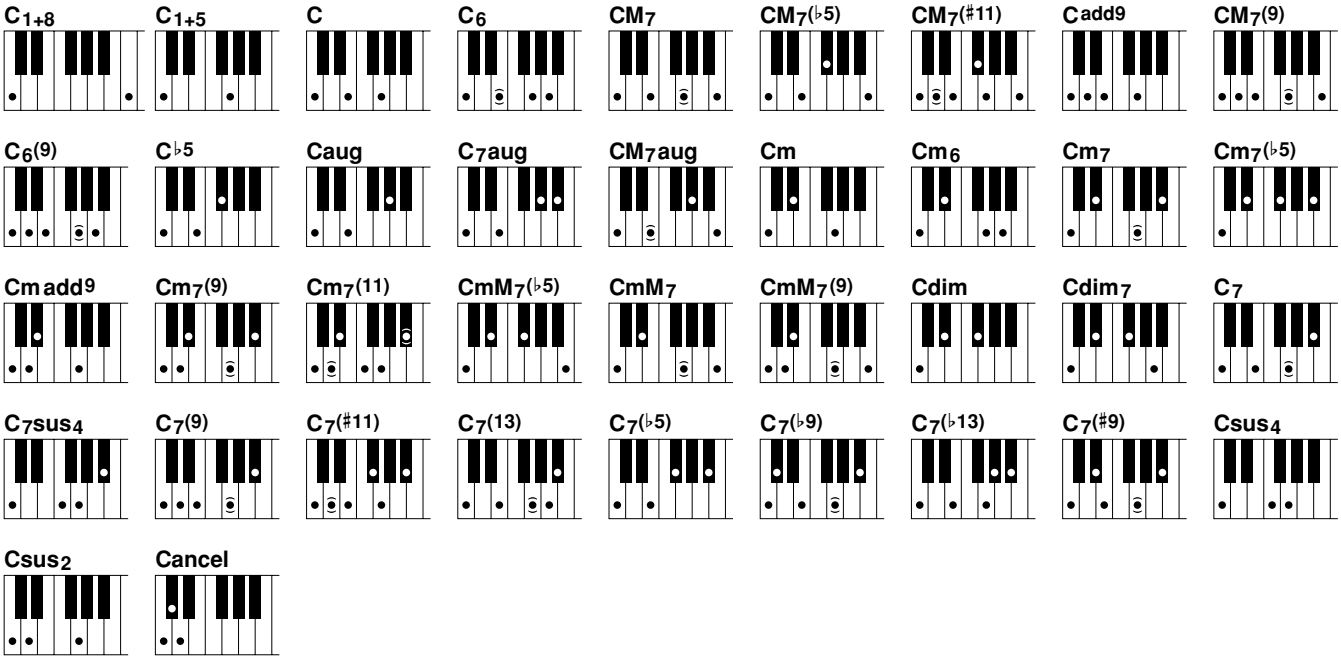
Order	Bank Name
61	PianoArp16Bt
62	PianoArp8Bt
63	HeavenArpegio
64	TwinkleArpegio
65	TechSeq1
66	TechSeq2
67	TranceSeq1
68	TranceSeq2
69	Harpeggio1
70	Harpeggio2
71	LatinPerc1
72	LatinPerc2
73	LatinPerc3
74	LatinPerc4
75	LatinPerc5
76	Conga&Bongo1
77	CarnivalDeRio
78	LatinPop
79	Rumba&Soca
80	SambaPerc
81	Oriental1
82	Oriental2
83	Oriental3
84	Oriental4
85	Oriental5
86	Oriental6
87	Oriental7
88	Oriental8
89	TurkishPerc1
90	TurkishPerc2
91	SnarePlay1
92	SnarePlay2
93	Cajon1
94	Cajon2
95	Shaker&Tamb
96	Timbales&Tom
97	EthnicPerc
98	BigBells
99	MagicBells
100	XmasLoops
101	PowerToms
102	PowerSnares
103	CrashCymbals
104	PowerKit1
105	PowerKit2
106	DanceKit
107	LatinKit1
108	LatinKit2
109	LatinKit3
110	Conga&Bongo2
111	DanceMix1
112	DanceMix2
113	BreakBeatz
114	DJ-BasicSet
115	DJ-SFX
116	HipHop1
117	HipHop2
118	HeavyShuffle
119	NewR&B
120	ScratchBank
121	Breathing
122	ArabicPerc1
123	ArabicPerc2

Operation: [DIRECT ACCESS] button + button/controller listed below		Function of the accessed LCD display				
STYLE CONTROL	ACMP	FUNCTION	STYLE SETTING / SPLIT POINT / CHORD FINGERING	CHORD FINGERING		
	AUTO FILL IN					
	OTS LINK			STYLE SETTING		
	BREAK	MIXING CONSOLE		EFFECT (STYLE)	DSP	
	INTRO I			VOL/VOICE (STYLE)	VOICE	
	INTRO II				PAN	
	INTRO III				VOLUME	
	MAIN A			FILTER (STYLE)	HARMONIC CONTENT	
	MAIN B				BRIGHTNESS	
	MAIN C			EFFECT (STYLE)	REVERB	
	MAIN D				CHORUS	
	ENDING/rit. I			EQ (STYLE)	EQ HIGH	
	ENDING/rit. II				EQ LOW	
	ENDING/rit. III			MASTER COMP		
	SYNC START	FUNCTION	STYLE SETTING / SPLIT POINT / CHORD FINGERING	SPLIT POINT	SPLIT POINT (ACMP) SETTING	
	SYNC STOP			STYLE SETTING	SYNCSTOP WINDOW SETTING	
	START/STOP					
STYLE	POP & ROCK	MIXING CONSOLE		VOL/VOICE (STYLE)	VOICE	
	BALLAD				PAN	
	DANCE				VOLUME	
	SWING & JAZZ			FILTER (STYLE)	HARMONIC CONTENT	
	R&B				BRIGHTNESS	
	COUNTRY			EFFECT (STYLE)	REVERB	
	LATIN				CHORUS	
	BALLROOM				DSP	
	MOVIE & SHOW			EQ (STYLE)	EQ HIGH	
	ENTERTAINER				EQ LOW	
	WORLD			EQ	MASTER EQ EDIT	
	FILE ACCESS			LINE OUT	LINE OUT PANEL	
SONG	SCORE	FUNCTION	SONG SETTING		-	
	LYRICS/TEXT				LYRICS LANGUAGE SETTING	
	SP1	MIXING CONSOLE		EFFECT (SONG 1–8)		
	SP2			EQ (SONG 1–8)		
	SP3			EFFECT (SONG 9–16)		
	SP4			EQ (SONG 9–16)		
	LOOP	FUNCTION	SONG SETTING			
	FF					
	REW					
	PLAY/PAUSE					
	STOP					
	REC					
	I	MIXING CONSOLE		VOL/VOICE (SONG 1–8)		
	II			FILTER (SONG 1–8)		
	III			VOL/VOICE (SONG 9–16)		
	IV			FILTER (SONG 9–16)		
TIMING	TAP TEMPO	FUNCTION	UTILITY	CONFIG 1	TAP SETTING	
	TEMPO +		MIDI TEMPLATE EDIT	SYSTEM	MIDI CLOCK SETTING	
	TEMPO -		STYLE SETTING / SPLIT POINT / CHORD FINGERING	STYLE SETTING		
	METRONOME		UTILITY	CONFIG 1	METRONOME SETTING	
	FADE IN/OUT				FADE IN/OUT SETTING	
TRANSPOSE	+	MIXING CONSOLE		TUNE	TRANSPOSE	**
	-	FUNCTION	CONTROLLER	KEYBOARD/PANEL	TRANSPOSE ASSIGNMENT	
UPPER OCTAVE	+	MIXING CONSOLE		TUNE	OCTAVE	*
	-					
HARD DISK RECORDER	NEXT	FUNCTION	UTILITY	SYSTEM RESET		
	PREV			OWNER		
	PLAY/PAUSE			MEDIA		
	STOP			CONFIG 2	1 SPEAKER	
	REC			CONFIG 1	FADE IN/OUT SETTING	
	SELECT	PLAY LIST				
	SETTING	PLAY LIST				
MULTI PAD	SELECT	DIGITAL RECORDING	MULTIPAD CREATOR	RECORD		
	STOP					
	1	MULTIPAD SELECTION display		MULTIPAD EDIT	MULTIPAD 1	
	2				MULTIPAD 2	
	3				MULTIPAD 3	
	4				MULTIPAD 4	
DEMO		FUNCTION	UTILITY	OWNER	LANGUAGE SETTING	
MENU	FUNCTION	FUNCTION	MIDI TEMPLATE SELECT			
	VOICE CREATOR	FUNCTION	MASTER TUNE / SCALE TUNE	MASTER TUNE		
	DIGITAL RECORDING	FUNCTION	MASTER TUNE / SCALE TUNE	SCALE TUNE		
MIXING CONSOLE		MIXING CONSOLE		VOL/VOICE (PANEL)	VOICE	*
BALANCE		BALANCE		PAGE 2/2		
CHANNEL ON/OFF		CHANNEL		STYLE SETTING		
INTERNET		FUNCTION	UTILITY	OWNER		
EXIT		MAIN				

Operation: [DIRECT ACCESS] button + button/controller listed below		Function of the accessed LCD display				
PART SELECT	LEFT	FUNCTION	REGIST SEQUENCE / FREEZE / VOICE SET	VOICE SET	LEFT	
	RIGHT 1				R1	
	RIGHT 2				R2	
	RIGHT 3				R3	
PART ON/OFF	LEFT	FUNCTION	STYLE SETTING / SPLIT POINT / CHORD FINGERING	SPLIT POINT	SPLIT POINT (LEFT) SETTING	
	RIGHT 1				SPLIT POINT (RIGHT3) SETTING	
	RIGHT 2					
	RIGHT 3					
	LEFT HOLD				SPLIT POINT (LEFT) SETTING	
VOICE EFFECT	INITIAL TOUCH	FUNCTION	CONTROLLER	KEYBOARD/PANEL	INITIAL TOUCH	
	SUSTAIN				AFTER TOUCH	
	DSP	MIXING CONSOLE		EFFECT	DSP DEPTH SETTING	*
	VARIATION				EFFECT TYPE	
	HARMONY ECHO	FUNCTION	HARMONY/ECHO		HARMONY ECHO SETTING	
	MONO	MIXING CONSOLE		TUNE	PORTAMENTO TIME SETTING	*
VOICE	PIANO	MIXING CONSOLE		VOL/VOICE (PANEL)	VOICE	*
	E. PIANO				PAN	*
	ORGAN				VOLUME	*
	STRINGS			FILTER (PANEL)	HARMONIC CONTENT	*
	CHOIR				BRIGHTNESS	*
	BRASS			TUNE	PORTAMENTO TIME	*
	TRUMPET				PITCHBEND RANGE	*
	SAXOPHONE				OCTAVE	*
	FLUTE/CLARINET				TUNING	*
	GUITAR			EFFECT (PANEL)	REVERB	*
	BASS				CHORUS	*
	PERC./DRUM KIT				DSP	*
	ACCORDION			EQ (PANEL)	EQ HIGH	*
	PAD				EQ LOW	*
	SYNTH			MASTER COMPRESSOR		
	ORGAN FLUTES	FUNCTION	UTILITY	CONFIG2	2 POPUP DISPLAY TIME	
	EXPANSION			OWNER	2 LICENSE KEY	
	USER DRIVE			SYSTEM RESET		
ART. 1		FUNCTION	CONTROLLER	FOOT PEDAL	PEDAL 1	
ART. 2		FUNCTION	CONTROLLER	FOOT PEDAL	PEDAL 2	
MUSIC FINDER		MUSIC FINDER			MUSIC FINDER SEARCH 1	
ONE TOUCH SETTING	1	OTS INFORMATION				
	2					
	3					
	4					
MIC	VOCAL HARMONY	VOCAL HARMONY		VOCAL HARMONY EDIT		
	TALK	VOCAL HARMONY		TALK SETTING	1 VOLUME	
	EFFECT	MIXING CONSOLE		EFFECT	MIC.DSP SETTING	
	VH TYPE SELECT	VOCAL HARMONY		VOCAL HARMONY EDIT		
	MIC SETTING	MIXING CONSOLE		EFFECT	MIC.EFFECT TYPE SELECT	
REGISTRATION MEMORY	REGIST BANK +	REGIST BANK SELECTION display		REGISTRATION EDIT	REGISTRATION 1	
	REGIST BANK -					
	FREEZE	FUNCTION	REGIST SEQUENCE / FREEZE / VOICE SET	FREEZE		
	MEMORY			REGISTRATION SEQUENCE		
	1	REGIST INFORMATION			REGIST INFORMATION 1–4	
	2					
	3					
	4					
	5				REGIST INFORMATION 5–8	
	6					
	7					
	8					
PEDAL	PEDAL 1	FUNCTION	CONTROLLER	FOOT PEDAL	PEDAL 1	
	PEDAL 2				PEDAL 2	
	PEDAL 3				PEDAL 3	
WHEEL	MODULATION	FUNCTION	CONTROLLER	KEYBOARD/PANEL	MODULATION WHEEL	
	PITCH BEND	MIXING CONSOLE		TUNE	PITCHBEND RANGE	*
SLIDER	ASSIGN	FUNCTION	CONTROLLER	ASSIGN SLIDER		
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					

* The cursor position differs depending on the current keyboard part.
** The cursor position differs depending on the current function assigned to the TRANSPOSE buttons.

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 [M7♭5]	1+3+♭5+7	CM7(♭5)
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 [(♭5)]	1+3+♭5	C♭5
Augmented [aug]	1+3+♯5	Caug
Seventh augmented [7aug]	1+3+♯5+♭7	C7aug
Major seventh augmented [M7aug]	1+(3)+♯5+7	CM7aug
Minor [m]	1+♭3+5	Cm
Minor sixth [m6]	1+♭3+5+6	Cm6
Minor seventh [m7]	1+♭3+(5)+♭7	Cm7
Minor seventh flatted fifth [m7♭5]	1+♭3+♭5+♭7	Cm7(♭5)
Minor add ninth [m(9)]	1+2+♭3+5	Cm add9
Minor seventh ninth [m7(9)]	1+2+♭3+(5)+♭7	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+♭3+4+5+(♭7)	Cm7(11)
Minor major seventh flatted fifth [mM7♭5]	1+♭3+♭5+7	CmM7(♭5)
Minor major seventh [mM7]	1+♭3+(5)+7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+♭3+(5)+7	CmM7(9)
Diminished [dim]	1+♭3+♭5	Cdim
Diminished seventh [dim7]	1+♭3+♭5+6	Cdim7
Seventh [7]	1+3+(5)+♭7	C7
Seventh suspended fourth [7sus4]	1+4+5+♭7	C7sus4
Seventh ninth [7(9)]	1+2+3+(5)+♭7	C7(9)
Seventh add sharp eleventh [7(♯11)]	1+(2)+3+♯4+5+♭7	C7(♯11)
Seventh add thirteenth [7(13)]	1+3+(5)+6+♭7	C7(13)
Seventh flatted fifth [7♭5]	1+3+♭5+♭7	C7(♭5)
Seventh flatted ninth [7(♭9)]	1+♭2+3+(5)+♭7	C7(♭9)
Seventh add flatted thirteenth [7(♭13)]	1+3+5+♭6+♭7	C7(♭13)
Seventh sharp ninth [7(♯9)]	1+♯2+3+(5)+♭7	C7(♯9)
Suspended fourth [sus4]	1+4+5	Csus4
One plus two plus five [sus2]	1+2+5	Csus2
cancel	1+♭2+2	Cancel

* Notes in parentheses can be omitted.

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 drum parts.	2	21
PERC ROOM (Percussion Room)	Reverb simulating the acoustics of a room. For percussion parts.	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 drum parts.	2	21
	PERC ROOM (Percussion Room)	Reverb simulating the acoustics of a room. For percussion parts.	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		21	16
	TEMPO ECHO	Tempo-synchronized echo.	21	8

Category	Type	Description	MSB	LSB
DELAY	TEMPO CROSS1	Tempo-synchronized cross delay.	22	0
	TEMPO CROSS2		22	16
	TEMPO CROSS3		22	17
	TEMPO CROSS4		22	18
ER/KARAOKE	KARAOKE1	Echo for karaoke.	20	0
	KARAOKE2		20	1
	KARAOKE3		20	2
	ER1	This effect isolates only the early reflection components of the reverb.	9	0
	ER2		9	1
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
	T_FLANGER (Tempo Flanger)	Tempo-synchronized flanger.	107	0
PHASER	PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	0
	PHASER2		72	8
	PHASER3		72	19
	T_PHASER1 (Tempo Phaser 1)		108	0
	T_PHASER2 (Tempo Phaser 2)		108	16
	EP PHASER1		72	17
	EP PHASER2		72	18
	EP PHASER3		72	16
PITCH CHANGE	PITCH CHG1 (Pitch Change 1)	Changes the pitch of the input signal.	80	16
	PITCH CHG2 (Pitch Change 2)		80	0
	PITCH CHG3 (Pitch Change 3)		80	1
ROTARY SP	DUAL ROT BRT (Dual Rotor Speaker Bright)	Rotary speaker simulation with speed switching.	99	16
	DUAL ROT WRM (Dual Rotor Speaker Warm)		99	17
	DUAL ROT SP1 (Dual Rotor Speaker 1)		99	0
	DUAL ROT SP2 (Dual Rotor Speaker 2)		99	1
	ROTARY SP1 (Rotary Speaker 1)	Simulates a rotary speaker.	69	16
	ROTARY SP2 (Rotary Speaker 2)		71	17
	ROTARY SP3 (Rotary Speaker 3)		71	18
	ROTARY SP4 (Rotary Speaker 4)		70	17
	ROTARY SP5 (Rotary Speaker 5)		66	18
	ROTARY SP6 (Rotary Speaker 6)		69	0
	ROTARY SP7 (Rotary Speaker 7)		71	22
	2WAY ROT SP (2way Rotary Speaker)		86	0
TREMOLO	TREMOLO1	Rich Tremolo effect with both volume and pitch modulation.	70	16
	TREMOLO2		71	19
	TREMOLO3		70	0
	EP TREMOLO		70	18
	GT TREMOLO1 (Guitar Tremolo 1)		71	20
	GT TREMOLO2 (Guitar Tremolo 2)		70	19
	VIBE VIBRATE	Vibraphone effect.	119	0
	T_TREMOLO (Tempo Tremolo)	Tempo-synchronized rich Tremolo effect with both volume and pitch modulation.	120	0
SPATIAL	AUTO PAN1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16
	AUTO PAN2		71	0
	AUTO PAN3		71	1
	EP AUTOPAN		71	21
	T_AUTO PAN1 (Tempo Auto Pan 1)		121	0
	T_AUTO PAN2 (Tempo Auto Pan 2)		121	1
NO EFFECT	–	No effect.	0	0

DSP1-9 Block

LCD Block Name	XG Block Name
DSP1	XG Variation Block
DSP2	XG Insertion1 Block
DSP3	XG Insertion2 Block
DSP4	XG Insertion3 Block
DSP5	XG Insertion4 Block
DSP6	XG Insertion5 Block
DSP7	XG Insertion6 Block (only for MIC)
DSP8	XG Insertion7 Block (only for Style)
DSP9	XG Insertion8 Block (only for Style)

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 drum parts.	2	21
	PERC ROOM (Percussion Room)	Reverb simulating the acoustics of a room. For percussion parts.	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
	WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0
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		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
ER/KARAOKE	KARAOKE1	Echo for karaoke.	20	0
	KARAOKE2		20	1
	KARAOKE3		20	2
	ER1	This effect isolates only the early reflection components of the reverb.	9	0
	ER2		9	1
	GATE REVERB	Simulation of gated reverb.	10	0
	REVERS GATE	Simulation of gated reverb played back in reverse.	11	0
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	Conventional chorus program with rich, warm chorusing.	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

Category	Type	Description	MSB	LSB
CHORUS	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
	V_FLANGER	A simulation on an analog flanger effect. The LFO has a random setting.	104	0
	T_FLANGER	Tempo-synchronized flanger.	107	0
	DYN FLANGER	Dynamically controlled flanger.	110	0
PHASER	PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	0
	PHASER2		72	8
	PHASER3		72	19
	T_PHASER1 (Tempo Phaser 1)		108	0
	T_PHASER2 (Tempo Phaser 2)		108	16
	EP PHASER1		72	17
	EP PHASER2		72	18
	EP PHASER3		72	16
	DYN PHASER		111	0
DISTORTION	V_DIST WARM (V Distortion Warm)	Distortion which simulates the sound of a vintage tube, fuzz effect, etc.	98	22
	V_DIST CLS H (V Distortion Classic Hard)		98	23
	V_DIST CLS S (V Distortion Classic Soft)		98	20
	V_DIST METAL (V Distortion Metal)		98	24
	V_DIST CRUNC (V Distortion Crunch)		98	18
	V_DIST BLUES (V Distortion Blues)		98	21
	V_DIST EDGY (V Distortion Edgy)		98	19
	V_DIST SOLID (V Distortion Solid)		98	25
	V_DST CLEAN1 (V Distortion Clean 1)		98	17
	V_DST CLEAN2 (V Distortion Clean 2)		98	26
	V_DIST TWIN (V Distortion Twin)		98	16
	V_DIST ROCA (V Distortion Rocabily)		103	18
	V_DST JZ CLN (V Distortion Jazz Clean)		98	27
	V_DST FUSION (V Distortion Fusion)		103	19
	ST AMP SOLID (Stereo Amp Simulator Solid)	Stereo amp simulator.	75	29
	ST AMP CRUNC (Stereo Amp Simulator Crunch)		75	30
	ST AMP BLUES (Stereo Amp Simulator Blues)		75	28
	ST AMP CLEAN (Stereo Amp Simulator Clean)		75	27
	ST AMP HARP (Stereo Amp Simulator Blues Harp)		75	31
	V_DIST HARD (V Distortion Hard)	Distortion which simulates the sound of a vintage tube, fuzz effect, etc.	98	0
	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
	ST DIST (Stereo Distortion)	Stereo distortion.	73	8
	ST OD (Stereo Overdrive)	Stereo overdrive.	74	8
	ST DIST HARD (Stereo Distortion Hard)	Hard-edge stereo distortion.	75	18
	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
	AMP SIM2 (Amp Simulator 2)		75	1
	ST AMP1 (Stereo Amp Simulator 1)	Stereo amp simulator.	75	20
	ST AMP2 (Stereo Amp Simulator 2)		75	21
	ST AMP3 (Stereo Amp Simulator 3)		75	8
	ST AMP4 (Stereo Amp Simulator 4)		75	24
	ST AMP5 (Stereo Amp Simulator 5)		75	25
	ST AMP6 (Stereo Amp Simulator 6)		75	26
DISTORTION+ (Distortion/ Overdrive mixed with other effects)	DST+DELAY1 (Distortion + Delay 1)	Distortion and Delay are connected in series.	95	16
	DST+DELAY2 (Distortion + Delay 2)		95	0
	OD+DELAY1 (Overdrive + Delay 1)	Overdrive and Delay are connected in series.	95	17
	OD+DELAY2 (Overdrive + Delay 2)		95	1
	CMP+DST+DLY1 (Compressor + Distortion + Delay 1)	Compressor, Distortion and Delay are connected in series.	96	16
	CMP+DST+DLY2 (Compressor + Distortion + Delay 2)		96	0
	CMP+OD+DLY1 (Compressor + Overdrive + Delay 1)	Compressor, Overdrive and Delay are connected in series.	96	17
	CMP+OD+DLY2 (Compressor + Overdrive + Delay 2)		96	1
	V_DST H+DLY (V Distortion Hard + Delay)	V Distortion and Delay are connected in series.	98	1
	V_DST S+DLY (V Distortion Soft + Delay)		98	3
	DST+TDLY (Distortion + Tempo Delay)	Distortion and Tempo Delay are connected in series.	100	0
	OD+TDLY (Overdrive + Tempo Delay)	Overdrive and Tempo Delay are connected in series.	100	1
	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
	COMP+DIST2 (Compressor + Distortion 2)		73	1
	CMP+DST+TDL (Compressor + Distortion + Tempo Delay)	Compressor, Distortion and Tempo Delay are connected in series.	101	0
	CMP+OD+TDLY1 (Compressor + Overdrive + Tempo Delay 1)	Compressor, Overdrive and Tempo Delay are connected in series.	101	1
	CMP+OD+TDLY2 (Compressor + Overdrive + Tempo Delay 2)		101	16
	CMP+OD+TDLY3 (Compressor + Overdrive + Tempo Delay 3)		101	17
	CMP+OD+TDLY4 (Compressor + Overdrive + Tempo Delay 4)		101	18
	CMP+OD+TDLY5 (Compressor + Overdrive + Tempo Delay 5)		101	19
	CMP+OD+TDLY6 (Compressor + Overdrive + Tempo Delay 6)		101	20

Category	Type	Description	MSB	LSB
DISTORTION+ (Distortion/ Overdrive mixed with other effects)	V_DST H+TDL1 (V Distortion Hard + Tempo Delay 1)	V Distortion Hard and Tempo Delay are connected in series.	103	0
	V_DST H+TDL2 (V Distortion Hard + Tempo Delay 2)		103	17
	V_DST S+TDL1 (V Distortion Soft + Tempo Delay 1)	V Distortion Soft and Tempo Delay are connected in series.	103	1
	V_DST S+TDL2 (V Distortion Soft + Tempo Delay 2)		103	16
PITCH CHANGE	PITCH CHG1 (Pitch Change 1)	Changes the pitch of the input signal.	80	16
	PITCH CHG2 (Pitch Change 2)		80	0
	PITCH CHG3 (Pitch Change 3)		80	1
WAH AUTO	AUTO WAH1	Cyclically modulates the center frequency of a wah filter.	78	16
	AUTO WAH2		78	0
	AT.WAH+DST1 (Auto Wah + Distortion 1)	The output of an Auto Wah can be distorted by Distortion.	78	17
	AT.WAH+DST2 (Auto Wah + Distortion 2)		78	1
	AT.WH+DST HD (Auto Wah + Distortion Hard)		78	21
	AT.WH+DST HV (Auto Wah + Distortion Heavy)		78	23
	AT.WH+DST LT (Auto Wah + Distortion Lite)		78	25
	AT.WAH+OD1 (Auto Wah + Overdrive 1)	The output of an Auto Wah can be distorted by Overdrive.	78	18
	AT.WAH+OD2 (Auto Wah + Overdrive 2)		78	2
	AT.WH+OD HD (Auto Wah + Overdrive Hard)		78	22
	AT.WH+OD HV (Auto Wah + Overdrive Heavy)		78	24
	AT.WH+OD LT (Auto Wah + Overdrive Lite)		78	26
	TEMPO AT.WAH (Tempo Auto Wah)	Tempo-synchronized Auto Wah.	79	0
	T_AT.WH+DST (Tempo Auto Wah + Distortion)	Tempo-synchronized auto wah with distortion applied to the output.	79	1
	T_A.WH+DSTHD (Tempo Auto Wah + Distortion Hard)		79	21
	T_A.WH+DSTHV (Tempo Auto Wah + Distortion Heavy)		79	23
	T_A.WH+DSTLT (Tempo Auto Wah + Distortion Lite)		79	25
	T_AT.WH+OD (Tempo Auto Wah + Overdrive)	Tempo-synchronized auto wah with overdrive (distortion) applied to the output.	79	2
	T_A.WH+OD HD (Tempo Auto Wah + Overdrive Hard)		79	22
	T_A.WH+OD HV (Tempo Auto Wah + Overdrive Heavy)		79	24
	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
	TC.WH+DST1 (Touch Wah + Distortion 1)	The output of an Touch Wah can be distorted by Distortion.	82	16
	TC.WH+DST2 (Touch Wah + Distortion 2)		82	1
	TC.WH+DST HD (Touch Wah + Distortion Hard)		82	21
	TC.WH+DST HV (Touch Wah + Distortion Heavy)		82	23
	TC.WH+DST LT (Touch Wah + Distortion Lite)		82	25
	TC.WAH+OD1 (Touch Wah + Overdrive 1)	The output of an Touch Wah can be distorted by Overdrive.	82	17
	TC.WAH+OD2 (Touch Wah + Overdrive 2)		82	2
	TC.WAH+OD HD (Touch Wah + Overdrive Hard)		82	22
	TC.WAH+OD HV (Touch Wah + Overdrive Heavy)		82	24
	TC.WAH+OD LT (Touch Wah + Overdrive Lite)		82	26
	WH+DST+DLY1 (Wah + Distortion + Delay 1)	Wah, Distortion and Delay are connected in series.	97	16
	WH+DST+DLY2 (Wah + Distortion + Delay 2)		97	0
	WH+DST+TDLY (Wah + Distortion + Tempo Delay)	Wah, Distortion and Tempo Delay are connected in series.	102	0
	WH+OD+DLY1 (Wah + Overdrive + Delay 1)	Wah, Overdrive and Delay are connected in series.	97	17
	WH+OD+DLY2 (Wah + Overdrive + Delay 2)		97	1
	WH+OD+TDLY1 (Wah + Overdrive + Tempo Delay 1)	Wah, Overdrive and Tempo Delay are connected in series.	102	1
	WH+OD+TDLY2 (Wah + Overdrive + Tempo Delay 2)		102	16
	CLAVI TC.WAH (Clavi Touch Wah)	Clavinet Touch Wah	82	18
	EP TC.WAH (EP Touch Wah)	EP Touch Wah	82	19
	V.PEDAL WH B (Vintage Pedal Wah Basic)	Vintage Wah which can be controlled by "PEDAL CONTROL" parameter.	125	1
	V.PEDAL WH D (Vintage Pedal Wah Disco)		125	16
	PEDAL WAH (Pedal Wah)	The "PEDAL CONTROL" parameter changes the center frequency of the wah filter.	122	0
	PEDAL WH+DST (Pedal Wah + Distortion)	Pedal wah with Distortion applied to the output.	122	1
	P.WH+DIST HD (Pedal Wah + Distortion Hard)		122	21
	P.WH+DIST HV (Pedal Wah + Distortion Heavy)		122	23
	P.WH+DIST LT (Pedal Wah + Distortion Lite)		122	25
	PEDAL WH+OD (Pedal Wah + Overdrive)	Pedal wah with Overdrive (distortion) applied to the output.	122	2
	P.WH+OD HD (Pedal Wah + Overdrive Hard)		122	22
	P.WH+OD HV (Pedal Wah + Overdrive Heavy)		122	24
	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
	COMP MELODY (Compressor Melody)	Compressor for the Melody part.	105	16
	COMP BASS (Compressor Bass)	Compressor for the Bass part.	105	17
	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	DUAL ROT BRT (Dual Rotor Speaker Bright)	Rotary speaker simulation with speed switching.	99	16
	DUAL ROT WRM (Dual Rotor Speaker Warm)		99	17
	DUAL ROT SP1 (Dual Rotor Speaker 1)		99	0
	DUAL ROT SP2 (Dual Rotor Speaker 2)		99	1
	ROTARY SP1 (Rotary Speaker 1)	Simulates a rotary speaker.	69	16
	ROTARY SP2 (Rotary Speaker 2)		71	17
	ROTARY SP3 (Rotary Speaker 3)		71	18
	ROTARY SP4 (Rotary Speaker 4)		70	17
	ROTARY SP5 (Rotary Speaker 5)		66	18
	ROTARY SP6 (Rotary Speaker 6)		69	0
	ROTARY SP7 (Rotary Speaker 7)		71	22
	2WAY ROT SP (2-way Rotary Speaker)		86	0
	DST+ROT SP (Distortion + Rotary Speaker)	Distortion and rotary speaker connected in series.	69	1
	DST+2ROT SP (Distortion + 2-way Rotary Speaker)	Distortion and 2-way rotary speaker connected in series.	86	1

Category	Type	Description	MSB	LSB
ROTARY SP	OD+ROT SP (Overdrive + Rotary Speaker)	Overdrive and rotary speaker connected in series.	69	2
	OD+2ROT SP (Overdrive + 2-way Rotary Speaker)	Overdrive and 2-way rotary speaker connected in series.	86	2
	AMP+ROT SP (Amp Simulator + Rotary Speaker)	Amp simulator and rotary speaker connected in series.	69	3
	AMP+2ROT SP (Amp Simulator + 2-way Rotary Speaker)	Amp simulator and 2-way rotary speaker connected in series.	86	3
TREMOLO	TREMOLO1	Rich Tremolo effect with both volume and pitch modulation.	70	16
	TREMOLO2		71	19
	TREMOLO3		70	0
	EP TREMOLO		70	18
	GT TREMOLO1 (Guitar Tremolo 1)		71	20
	GT TREMOLO2 (Guitar Tremolo 2)		70	19
	VIBE VIBRATE	Vibraphone effect	119	0
	T_TREMOLO (Tempo Tremolo)	Tempo-synchronized rich Tremolo effect with both volume and pitch modulation.	120	0
SPATIAL	AUTO PAN1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16
	AUTO PAN2		71	0
	AUTO PAN3		71	1
	EP AUTOPAN		71	21
	T_AUTO PAN1 (Tempo Auto Pan 1)		121	0
	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	An EQ which allows equalization of low, mid and high bands.	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	VCE CANCEL (Voice Cancel)	Attenuates the vocal part of a CD or other source.	85	0
	AMBIENCE	Blurs the stereo positioning of the sound to add spatial width.	88	0
	TALKING MOD (Talking Modulation)	Adds a vowel sound to the input signal.	93	0
	LOOP FX1	Degrades the audio quality of the input signal.	94	16
	LOOP FX2		94	17
	LO-FI		94	0
	LO-FI DRUM1	Degrades the audio quality of the input signal. For the drum part.	94	18
	LO-FI DRUM2		94	19
	LO-FI DRUM3		76	19
	LO-FI DRUM4		76	20
	DYN FILTER	Dynamically controlled filter.	109	0
	DYN RINGMOD	Dynamically controlled Ring Modulator.	112	0
	RING MOD	An effect that modifies the pitch by applying amplitude modulation to the frequency of the input.	113	0
	ISOLATOR	Controls the level of a specified frequency band of the input signal.	115	0
NO EFFECT	–	No effect.	0	0
THRU	–	Bypass without applying an effect.	64	0

- 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.

Effect Name — **Type MSB (Type LSB)**

HALL 1, 2, 3, 4, 5, HALL M, HALL L, ATMO HALL — **MSB = 1, LSB = 0, 1, 6, 7, 16, 17, 18, 23**

ROOM 1, 2, 3, 4, 5, 6, 7, ROOM S, ROOM M, ROOM L, ACOSTIC ROOM, DRUMS ROOM, PERC ROOM — **MSB = 2, LSB = 0, 1, 2, 5, 6, 7, 16, 17, 18, 19, 20, 21, 22**

STAGE1, 2, 3, 4 — **MSB = 3**

PLATE1, 2, 3, GM PLATE — **MSB = 4, LSB = 0, 7, 16, 17**

(Reverb, Chorus and all the DSP blocks)

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

BASIC HALL, LIGHT HALL, BALLAD HALL, PIANO HALL, LARGE HALL, MEDIUM HALL — **MSB = 1, LSB = 2, 3, 19, 20, 21, 22**

WARM ROOM, WOODY ROOM — **MSB = 2, LSB = 3, 4**

RICH PLATE — **MSB = 4, LSB = 1**

(Reverb block)

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

DELAY LCR1, DELAY LCR2 — **MSB = 5**

(All the DSP blocks)

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

DELAY LR — **MSB = 6**

(All the DSP blocks)

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

ECHO — **MSB = 7**

(All the DSP blocks)

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

CROSS DELAY 1, CROSS DELAY 2 — **MSB = 8**

(All the DSP blocks)

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

ER1, ER2 — **MSB = 9**

(Chorus and all the DSP blocks)

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

GATE REVERB **MSB = 10**
REVERS GATE **MSB = 11**
(All the DSP blocks)

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

WHITE ROOM **MSB = 16**
TUNNEL **MSB = 17**
CANYON **MSB = 18**
BASEMENT **MSB = 19**
(Reverb and all the DSP blocks)

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

KARAOKE1, 2, 3 **MSB = 20**
(Chorus and all the DSP blocks)

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

TEMPO DELAY 1, 2
TEMPO ECHO **MSB = 21**
(Chorus and all the DSP blocks)

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

TEMPO CROSS 1, 2, 3, 4 **MSB = 22**
(Chorus and all the DSP blocks)

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

CHORUS 5, 6, 7, 8, CHORUS FAST, CHORUS LITE,
GM CHORUS 1, 2, 3, 4, FB CHORUS **MSB = 65**
CHORUS 1, 2, 3, 4, CELESTE 1, 2, ROTARY SP5 **MSB = 66**
(Chorus and all the DSP blocks)

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

FLANGER1, 2, 3, 4, 5, GM FLANGER **MSB = 67**
(Chorus and all the DSP blocks)

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

SYMPHONIC1, 2 **MSB = 68**
(Chorus and all the DSP blocks)

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

ROTARY SP1, 6 **MSB = 69, LSB = 0, 16**
(Chorus and all the DSP blocks)

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

DST+ROT SP **MSB = 69, LSB = 1**
OD+ROT SP **MSB = 69, LSB = 2**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	●
2	LFO Depth	0 – 127	0 – 127	table#19	
3					
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	table#15	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60	table#3	
16	Output Level	0 – 127	0 – 127	table#18	

AMP+ROT SP **MSB = 69, LSB = 3**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0 – 127	table#1	●
2	LFO Depth	0 – 127	0 – 127	table#19	
3	AMP Type	Off, Stack, Combo, Tube	0 – 3		
4					
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	table#15	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60	table#3	
16	Output Level	0 – 127	0 – 127	table#18	

TREMOLO1, 3, EP TREMOLO, GT TREMOLO2, ROTARY SP4 **MSB = 70**
(Chorus and all the DSP blocks)

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

AUTO PAN1, 2, EP AUTOPAN, TREMOLO2, GT TREMOLO1, ROTARY SP2, 3, 7 **MSB = 71,**
(Chorus and all the DSP blocks) **LSB = 0,16,17,18,19, 20, 21, 22**

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

AUTO PAN3 **MSB = 71, LSB = 1**
(Chorus and all the DSP blocks)

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

PHASER 1, EP PHASER1, 2, 3 **MSB = 72, LSB = 0, 16, 17, 18**
(Chorus and all the DSP blocks)

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

No.	Parameter	Display	Value	See Table	Control
15					
16					

PHASER 2, 3 **MSB = 72, LSB = 8, 19**
(Chorus and all the DSP blocks)

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

DIST HEAVY **MSB = 73, LSB = 0**
OVERDRIVE **MSB = 74, LSB = 0**
(All the DSP blocks)

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

COMP+DIST1, 2 **MSB = 73, LSB = 1, 16**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Drive	0 – 127	0 – 127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
3	EQ Low Gain	-12 – +12dB	52 – 76		
4	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
5	Output Level	0 – 127	0 – 127	table#18	
6					
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
8	EQ Mid Gain	-12 – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12	Attack	1ms – 40ms	0 – 19	table#8	
13	Release	10ms – 680ms	0 – 15	table#9	
14	Threshold	-48dB – -6dB	79 – 121		
15	Ratio	1.0 – 20.0	0 – 7	table#10	
16					

ST DIST **MSB = 73, LSB = 8**
ST OD **MSB = 74, LSB = 8**
(All the DSP blocks)

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

AMP SIM1, DIST HARD1, DIST HARD2,
DIST SOFT1, DIST SOFT2 **MSB = 75, LSB = 0,16,17, 22, 23**
(All the DSP blocks)

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

AMP SIM2 **MSB = 75, LSB = 1**
(All the DSP blocks)

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

ST AMP SOLID, ST AMP CRUNC, ST AMP BLUES,
ST AMP CLEAN, ST AMP HARP **MSB = 75,**
LSB = 27, 28, 29, 30, 31

ST AMP1, 2, 3, 4, 5, 6, ST DIST HARD, ST DIST SOFT **MSB = 75,**
LSB = 8, 18, 19, 20, 21, 24, 25, 26

(All the DSP blocks)

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

No.	Parameter	Display	Value	See Table	Control
11	Edge (Clip Curve)	0 – 127	0 – 127		
12					
13					
14					
15					
16					

3BAND EQ, EQ DISCO, EQ TEL, ST 3 BAND EQ, LO-FI DRUM3, 4 **MSB = 76**
(All the DSP blocks)

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

2BAND EQ **MSB = 77**
(All the DSP blocks)

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

AUTO WAH1, 2 **MSB = 78, LSB = 0, 16**
(All the DSP blocks)

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

AT.WAH+DST1, 2, AT.WH+DST HD, AT.WH+DST HV, AT.WH+DST LT **MSB = 78, LSB = 1, 17, 21, 23, 25**
AT.WAH+OD1, 2, AT.WH+OD HD, AT.WH+OD HV, AT.WH+OD LT **MSB = 78, LSB = 2, 18, 22, 24, 26**
(All the DSP blocks)

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

TEMPO AT.WAH **MSB = 79, LSB = 0**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	
2	LFO Depth	0 – 127	0 – 127	table#19	
3	Cutoff Frequency Offset	0 – 127	0 – 127		●
4	Resonance	1.0 – 12.0	10 – 120		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12					
13					
14					
15					
16					

T_AT.WH+DST, T_A.WH+DSTHD, T_A.WH+DSTHV, T_A.WH+DSTLT **MSB = 79, LSB = 1, 21, 23, 25**
T_AT.WH+OD, T_A.WH+OD HD, T_A.WH+OD HV, T_A.WH+OD LT **MSB = 79, LSB = 2, 22, 24, 26**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 29	table#14	
2	LFO Depth	0 – 127	0 – 127	table#19	
3	Cutoff Frequency Offset	0 – 127	0 – 127		●
4	Resonance	1.0 – 12.0	10 – 120		
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	
11	Drive	0 – 127	0 – 127		
12	EQ Low Gain (distortion)	-12 – +12dB	52 – 76		
13	EQ Mid Gain (distortion)	-12 – +12dB	52 – 76		
14	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
15	Output Level	0 – 127	0 – 127	table#18	
16					

PITCH CHG1, 2 **MSB = 80, LSB = 0, 16**
(Chorus and all the DSP blocks)

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

PITCH CHG3 **MSB = 80, LSB = 1**
(Chorus and all the DSP blocks)

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

No.	Parameter	Display	Value	See Table	Control
11	Pan 1	L63 – R63	1 – 127		
12	Output Level 1	0 – 127	0 – 127	table#18	
13	Pan 2	L63 – R63	1 – 127		
14	Output Level 2	0 – 127	0 – 127	table#18	
15					
16					

HM ENHANCER1, 2 **MSB = 81**
(All the DSP blocks)

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

TOUCH WAH1, TC.WH+DST1, TC.WH+DST2 **MSB = 82, LSB = 0, 1, 16**
(All the DSP blocks)

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

TOUCH WAH2 **MSB = 82, LSB = 8**
TC.WH+DST HD, TC.WH+DST HV, TC.WH+DST LT **MSB = 82, LSB = 21, 23, 25**
TC.WH+OD1,2, TC.WH+OD HD, TC.WH+OD HV,
TC.WH+OD LT **MSB = 82, LSB = 2, 17, 22, 24, 26**
CLAVI TC.WAH, EP TC.WAH **MSB = 82, LSB = 18, 19**
(All the DSP blocks)

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

COMPRESSOR, COMP MED, COMP HEAVY **MSB = 83**
(All the DSP blocks)

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

NOISE GATE **MSB = 84**
(All the DSP blocks)

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

VCE CANCEL **MSB = 85**
(All the DSP blocks)

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

2WAY ROT SP **MSB = 86, LSB = 0**
(Chorus and all the DSP blocks)

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

DST+2ROT SP **MSB = 86, LSB = 1**
OD+2ROT SP **MSB = 86, LSB = 2**
(All the DSP blocks)

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

AMP+2ROT SP **MSB = 86, LSB = 3**
(All the DSP blocks)

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

ENS DETUNE 1, 2 **MSB = 87**
(Chorus and all the DSP blocks)

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

AMBIENCE **MSB = 88**
(All the DSP blocks)

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

TALKING MOD **MSB = 93**
(All the DSP blocks)

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

LO-FI, LOOP FX1, 2, LO-FI DRUM1, 2 **MSB = 94**
(All the DSP blocks)

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

DST+DELAY1, 2, OD+DELAY1, 2 **MSB = 95**
(All the DSP blocks)

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

CMP+DST+DLY1, 2, CMP+OD+DLY1, 2 **MSB = 96**
(All the DSP blocks)

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

WH+DST+DLY1, 2, WH+OD+DLY1, 2 **MSB = 97**
(All the DSP blocks)

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

V_DIST HARD, V_DIST SOFT, 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_DST CLEAN1, 2, V_DIST TWIN, V_DST JZ CLN **MSB = 98, LSB = 0, 2, 16-27**
(All the DSP blocks)

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

V_DST H+DLY **MSB = 98, LSB = 1**
V_DST S+DLY **MSB = 98, LSB = 3**
(All the DSP blocks)

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

DUAL ROT SP1, 2, DUAL ROT BRT, DUAL ROT WRM **MSB = 99**
(Chorus and all the DSP blocks)

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

DST+TDLY, OD+TDLY **MSB = 100**
(All the DSP blocks)

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

CMP+DST+TDL, CMP+OD+TDLY1, 2, 3, 4, 5, 6 **MSB = 101**
(All the DSP blocks)

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

WH+DST+TDLY, WH+OD+TDLY1, 2 **MSB = 102**
(All the DSP blocks)

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

V_DST H+TDL1, 2, V_DST S+TDL1, 2, V_DIST ROCA, V_DST FUSION **MSB = 103**
(All the DSP blocks)

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

V_FLANGER **MSB = 104**
(All the DSP blocks)

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

MBAND COMP, COMP MELODY, COMP BASS **MSB = 105**
(All the DSP blocks)

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

T_FLANGER **MSB = 107**
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 21	table#14	
2	LFO Depth	0 – 127	0 – 127	table#19	
3	Feedback Level	-63 – +63	1 – 127	table#17	
4	Delay Offset	0.0 – 50.0[ms]	0 – 127	table#2	
5					
6	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
7	EQ Low Gain	-12 – +12[dB]	52 – 76		
8	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
9	EQ High Gain	-12 – +12[dB]	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	●
11	EQ mid frequency	100[Hz] – 10.0[kHz]	14 – 54	table#3	
12	EQ mid gain	-12 – +12[dB]	52 – 76		
13	EQ mid width	0.1 – 12.0	1 – 120		
14	LFO phase difference	-180 – +180[deg]	4 – 124		
15					
16					

T_PHASER1, 2 **MSB = 108**
(Chorus and all the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	16th – 4thx16	5 – 21	table#14	
2	LFO Depth	0 – 127	0 – 127	table#19	
3	Phase Shift Offset	0 – 127	0 – 127		
4	Feedback Level	-63 – +63	1 – 127	table#16	
5					
6	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
7	EQ Low Gain	-12 – +12[dB]	52 – 76		
8	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
9	EQ High Gain	-12 – +12[dB]	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	●
11	Stage	3 – 11	3 – 11		
12					
13	LFO phase difference	-180 – +180[deg]	4 – 124		
14					
15					
16					

DYN FILTER **MSB = 109**
(All the DSP blocks)

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

DYN FLANGER **MSB = 110**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	Delay Time Offset	0 – 127	0 – 127		
3	Feedback Level	-63 – +63	1 – 127	table#17	
4	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
5	Release Time	2.6 – 2171.4[ms]	0 – 127	table#21	
6	Release Curve	0 – 127	0 – 127		
7	Direction	Up, Down	0 – 1		
8	Dyna Threshold Level	0 – 127	0 – 127		
9	Dyna Level Offset	0 – 127	0 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	
11					
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

DYN PHASER **MSB = 111**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	Dyna Level Offset	0 – 127	0 – 127		
3	Feedback Level	-63 – +63	1 – 127	table#16	
4	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
5	Release Time	2.6 – 2171.4[ms]	0 – 127	table#21	
6	Release Curve	0 – 127	0 – 127		
7	Direction	Up, Down	0 – 1		
8	Dyna Threshold Level	0 – 127	0 – 127		
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	table#15	
11	Stage	4, 5, 6	4 – 6		
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

DYN RINGMOD **MSB = 112**
(All the DSP blocks)

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

RING MOD **MSB = 113**
(All the DSP blocks)

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

ISOLATOR **MSB = 115**
(All the DSP blocks)

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

VIBE VIBRATE **MSB = 119**
(Chorus and all the DSP blocks)

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

T_TREMOLO **MSB = 120**
(Chorus and all the DSP blocks)

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

T_AUTO PAN1 **MSB = 121, LSB = 0**
(Chorus and all the DSP blocks)

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

T_AUTO PAN2 **MSB = 121, LSB = 1**
(Chorus and all the DSP blocks)

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

PEDAL WAH **MSB = 122, LSB = 0**
(All the DSP blocks)

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

PEDAL WH+DST, P.WH+DIST HD, P.WH+DIST HV, P.WH+DIST LT **MSB = 122, LSB = 1, 21, 23, 25**
PEDAL WH+OD, P.WH+OD HD, P.WH+OD HV, P.WH+OD LT **MSB = 122, LSB = 2, 22, 24, 26**
(All the DSP blocks)

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

V.PEDAL WH B, V.PEDAL WH D **MSB = 125, LSB = 1, 16**
(All the DSP blocks)

No.	Parameter	Display	Value	See Table	Control
1	Pedal Control	0 – 127	0 – 127		●
2	Bottom	0 – 127	0 – 127		
3	Top	0 – 127	0 – 127		
4	Resonance Offset	-12.0 – +12.0	40 – 88		
5	Direction	up, down	0 – 1		
6	Type	High, Mid, Low, Bass	0 – 3		
7	OverDrive	0.0dB – +40.0dB	0 – 80		
8	Output	-20.0dB – +10.0dB	24 – 84		
9					
10					
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

NO EFFECT **MSB = 0**
(Reverb, Chorus and DSP1)

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

THRU **MSB = 64**
(All the DSP blocks)

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

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#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#3
EQ Frequency

Data	Value	Data	Value
0	THRU(20)	32	800
1	22	33	900
2	25	34	1.0k
3	28	35	1.1k
4	32	36	1.2k
5	36	37	1.4k
6	40	38	1.6k
7	45	39	1.8k
8	50	40	2.0k
9	56	41	2.2k
10	63	42	2.5k
11	70	43	2.8k
12	80	44	3.2k
13	90	45	3.6k
14	100	46	4.0k
15	110	47	4.5k
16	125	48	5.0k
17	140	49	5.6k
18	160	50	6.3k
19	180	51	7.0k
20	200	52	8.0k
21	225	53	9.0k
22	250	54	10.0k
23	280	55	11.0k
24	315	56	12.0k
25	355	57	14.0k
26	400	58	16.0k
27	450	59	18.0k
28	500	60	THRU(20.0k)
29	560		
30	630		
31	700		

table#4
Reverb time

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

table#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#6
Room Size

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	5.1	64	10.1	96	15.1
1	0.3	33	5.3	65	10.3	97	15.3
2	0.4	34	5.4	66	10.4	98	15.5
3	0.6	35	5.6	67	10.6	99	15.6
4	0.7	36	5.7	68	10.8	100	15.8
5	0.9	37	5.9	69	10.9	101	15.9
6	1.0	38	6.1	70	11.1	102	16.1
7	1.2	39	6.2	71	11.2	103	16.2
8	1.4	40	6.4	72	11.4	104	16.4
9	1.5	41	6.5	73	11.5	105	16.6
10	1.7	42	6.7	74	11.7	106	16.7
11	1.8	43	6.8	75	11.9	107	16.9
12	2.0	44	7.0	76	12.0	108	17.0
13	2.1	45	7.2	77	12.2	109	17.2
14	2.3	46	7.3	78	12.3	110	17.3
15	2.5	47	7.5	79	12.5	111	17.5
16	2.6	48	7.6	80	12.6	112	17.6
17	2.8	49	7.8	81	12.8	113	17.8
18	2.9	50	7.9	82	12.9	114	18.0
19	3.1	51	8.1	83	13.1	115	18.1
20	3.2	52	8.2	84	13.3	116	18.3
21	3.4	53	8.4	85	13.4	117	18.4
22	3.5	54	8.6	86	13.6	118	18.6
23	3.7	55	8.7	87	13.7	119	18.7
24	3.9	56	8.9	88	13.9	120	18.9
25	4.0	57	9.0	89	14.0	121	19.1
26	4.2	58	9.2	90	14.2	122	19.2
27	4.3	59	9.3	91	14.4	123	19.4
28	4.5	60	9.5	92	14.5	124	19.5
29	4.6	61	9.7	93	14.7	125	19.7
30	4.8	62	9.8	94	14.8	126	19.8
31	5.0	63	10.0	95	15.0	127	20.0

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#8
Compressor Attack Time

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

table#9
Compressor Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	230
14	340
15	680

table#10
Compressor Ratio

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

table#11
Reverb Width; Depth; Height

Data	Value	Data	Value	Data	Value	Data	Value
0	0.5	32	8.8	64	17.6	96	27.5
1	0.8	33	9.1	65	17.9	97	27.8
2	1.0	34	9.4	66	18.2	98	28.1
3	1.3	35	9.6	67	18.5	99	28.5
4	1.5	36	9.9	68	18.8	100	28.8
5	1.8	37	10.2	69	19.1	101	29.2
6	2.0	38	10.4	70	19.4	102	29.5
7	2.3	39	10.7	71	19.7	103	29.9
8	2.6	40	11.0	72	20.0	104	30.2
9	2.8	41	11.2	73	20.2		
10	3.1	42	11.5	74	20.5		
11	3.3	43	11.8	75	20.8		
12	3.6	44	12.1	76	21.1		
13	3.9	45	12.3	77	21.4		
14	4.1	46	12.6	78	21.7		
15	4.4	47	12.9	79	22.0		
16	4.6	48	13.1	80	22.4		
17	4.9	49	13.4	81	22.7		
18	5.2	50	13.7	82	23.0		
19	5.4	51	14.0	83	23.3		
20	5.7	52	14.2	84	23.6		
21	5.9	53	14.5	85	23.9		
22	6.2	54	14.8	86	24.2		
23	6.5	55	15.1	87	24.5		
24	6.7	56	15.4	88	24.9		
25	7.0	57	15.6	89	25.2		
26	7.2	58	15.9	90	25.5		
27	7.5	59	16.2	91	25.8		
28	7.8	60	16.5	92	26.1		
29	8.0	61	16.8	93	26.5		
30	8.3	62	17.1	94	26.8		
31	8.6	63	17.3	95	27.1		

table#12
Wah Release Time

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

table#13
LO-FI Sampling Frequency Control

Data	Value	Data	Value	Data	Value	Data	Value
0	44.1k	32	1.34k	64	678.0	96	455.0
1	22.1k	33	1.30k	65	668.0	97	450.0
2	14.7k	34	1.26k	66	658.0	98	445.0
3	11.0k	35	1.23k	67	649.0	99	441.0
4	8.8k	36	1.19k	68	639.0	100	437.0
5	7.4k	37	1.16k	69	630.0	101	432.0
6	6.3k	38	1.13k	70	621.0	102	428.0
7	5.5k	39	1.10k	71	613.0	103	424.0
8	4.9k	40	1.08k	72	604.0	104	420.0
9	4.4k	41	1.05k	73	596.0	105	416.0
10	4.0k	42	1.03k	74	588.0	106	412.0
11	3.7k	43	1.00k	75	580.0	107	408.0
12	3.4k	44	980.0	76	573.0	108	405.0
13	3.2k	45	959.0	77	565.0	109	401.0
14	2.9k	46	938.0	78	558.0	110	397.0
15	2.8k	47	919.0	79	551.0	111	394.0
16	2.6k	48	900.0	80	544.0	112	390.0
17	2.5k	49	882.0	81	538.0	113	387.0
18	2.3k	50	865.0	82	531.0	114	383.0
19	2.2k	51	848.0	83	525.0	115	380.0
20	2.1k	52	832.0	84	519.0	116	377.0
21	2.0k	53	817.0	85	513.0	117	374.0
22	1.92k	54	802.0	86	507.0	118	371.0
23	1.84k	55	788.0	87	501.0	119	368.0
24	1.76k	56	774.0	88	496.0	120	364.0
25	1.70k	57	760.0	89	490.0	121	361.0
26	1.63k	58	747.0	90	485.0	122	359.0
27	1.58k	59	735.0	91	479.0	123	356.0
28	1.52k	60	723.0	92	474.0	124	353.0
29	1.47k	61	711.0	93	469.0	125	350.0
30	1.42k	62	700.0	94	464.0	126	347.0
31	1.38k	63	689.0	95	459.0	127	345.0

table#14
Tempo

Data	Value	Data	Value	Data	Value
0	64th/3	32	4thX19	64	4thX51
1	64th.	33	4thX20	65	4thX52
2	32th	34	4thX21	66	4thX53
3	32th/3	35	4thX22	67	4thX54
4	32th.	36	4thX23	68	4thX55
5	16th	37	4thX24	69	4thX56
6	16th/3	38	4thX25	70	4thX57
7	16th.	39	4thX26	71	4thX58
8	8th	40	4thX27	72	4thX59
9	8th/3	41	4thX28	73	4thX60
10	8th.	42	4thX29	74	4thX61
11	4th	43	4thX30	75	4thX62
12	4th/3	44	4thX31	76	4thX63
13	4th.	45	4thX32	77	4thX64
14	2nd	46	4thX33		
15	2nd/3	47	4thX34		
16	2nd.	48	4thX35		
17	4thX4	49	4thX36		
18	4thX5	50	4thX37		
19	4thX6	51	4thX38		
20	4thX7	52	4thX39		
21	4thX8	53	4thX40		
22	4thX9	54	4thX41		
23	4thX10	55	4thX42		
24	4thX11	56	4thX43		
25	4thX12	57	4thX44		
26	4thX13	58	4thX45		
27	4thX14	59	4thX46		
28	4thX15	60	4thX47		
29	4thX16	61	4thX48		
30	4thX17	62	4thX49		
31	4thX18	63	4thX50		

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	-86.60888672	52	-18.89648438	95	48.81591797
10	-85.03417969	53	-17.32177734	96	50.390625
11	-83.45947266	54	-15.74707031	97	51.96533203
12	-81.88476563	55	-14.17236328	98	53.54003906
13	-80.31005859	56	-12.59765625	99	55.11474609
14	-78.73535156	57	-11.02294922	100	56.68945313
15	-77.16064453	58	-9.448242188	101	58.26416016
16	-75.5859375	59	-7.873535156	102	59.83886719
17	-74.01123047	60	-6.298828125	103	61.41357422
18	-72.43652344	61	-4.724121094	104	62.98828125
19	-70.86181641	62	-3.149414063	105	64.56298828
20	-69.28710938	63	-1.574707031	106	66.13769531
21	-67.71240234	64	0	107	67.71240234
22	-66.13769531	65	1.574707031	108	69.28710938
23	-64.56298828	66	3.149414063	109	70.86181641
24	-62.98828125	67	4.724121094	110	72.43652344
25	-61.41357422	68	6.298828125	111	74.01123047
26	-59.83886719	69	7.873535156	112	75.5859375
27	-58.26416016	70	9.448242188	113	77.16064453
28	-56.68945313	71	11.02294922	114	78.73535156
29	-55.11474609	72	12.59765625	115	80.31005859
30	-53.54003906	73	14.17236328	116	81.88476563
31	-51.96533203	74	15.74707031	117	83.45947266
32	-50.390625	75	17.32177734	118	85.03417969
33	-48.81591797	76	18.89648438	119	86.60888672
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	27.54	67	52.73	99	77.93
4	3.13	36	28.32	68	53.52	100	78.71
5	3.91	37	29.10	69	54.30	101	79.49
6	4.69	38	29.88	70	55.08	102	80.27
7	5.47	39	30.66	71	55.86	103	81.05
8	6.25	40	31.45	72	56.64	104	81.84
9	7.03	41	32.23	73	57.42	105	82.62
10	7.81	42	33.01	74	58.20	106	83.40
11	8.59	43	33.79	75	58.98	107	84.18
12	9.38	44	34.57	76	59.77	108	84.96
13	10.16	45	35.35	77	60.55	109	85.74
14	10.94	46	36.13	78	61.33	110	86.52
15	11.72	47	36.91	79	62.11	111	87.30
16	12.50	48	37.70	80	62.89	112	88.09
17	13.28	49	38.48	81	63.67	113	88.87
18	14.06	50	39.26	82	64.45	114	89.65
19	14.84	51	40.04	83	65.23	115	90.43
20	15.63	52	40.82	84	66.02	116	91.21
21	16.41	53	41.60	85	66.80	117	91.99
22	17.19	54	42.38	86	67.58	118	92.77
23	17.97	55	43.16	87	68.36	119	93.55
24	18.75	56	43.95	88	69.14	120	94.34
25	19.53	57	44.73	89	69.92	121	95.12
26	20.31	58	45.51	90	70.70	122	95.90
27	21.09	59	46.29	91	71.48	123	96.68
28	21.88	60	47.07	92	72.27	124	97.46
29	22.66	61	47.85	93	73.05	125	98.24
30	23.44	62	48.63	94	73.83	126	99.02
31	24.22	63	49.41	95	74.61	127	100.00

table#20
Dyna Attack Time (ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.3	32	54.0	64	112	96	170
1	0.9	33	56.0	65	114	97	172
2	1.8	34	58.0	66	116	98	174
3	2.7	35	60.0	67	118	99	176
4	3.6	36	61.0	68	120	100	178
5	5.4	37	63.0	69	121	101	180
6	7.2	38	65.0	70	123	102	181
7	9.0	39	67.0	71	125	103	183
8	10.0	40	69.0	72	127	104	185
9	12.0	41	70.0	73	129	105	187
10	14.0	42	72.0	74	130	106	189
11	16.0	43	74.0	75	132	107	190
12	18.0	44	76.0	76	134	108	192
13	20.0	45	78.0	77	136	109	194
14	21.0	46	80.0	78	138	110	196
15	23.0	47	81.0	79	140	111	198
16	25.0	48	83.0	80	141	112	200
17	27.0	49	85.0	81	143	113	201
18	29.0	50	87.0	82	145	114	203
19	30.0	51	89.0	83	147	115	205
20	32.0	52	90.0	84	149	116	207
21	34.0	53	92.0	85	150	117	209
22	36.0	54	94.0	86	152	118	210
23	38.0	55	96.0	87	154	119	212
24	40.0	56	98.0	88	156	120	214
25	41.0	57	100.0	89	158	121	216
26	43.0	58	101.0	90	160	122	218
27	45.0	59	103.0	91	161	123	220
28	47.0	60	105.0	92	163	124	221
29	49.0	61	107.0	93	165	125	223
30	50.0	62	109.0	94	167	126	225
31	52.0	63	110.0	95	169	127	227

table#21
Dyna Release Time (ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	2.6	32	86.8	64	369.1	96	1064.0
1	3.0	33	91.2	65	390.8	97	1085.7
2	3.4	34	95.5	66	412.5	98	1107.4
3	3.9	35	99.8	67	434.2	99	1129.1
4	4.3	36	104.2	68	456.0	100	1150.8
5	4.7	37	108.5	69	477.7	101	1172.5
6	5.2	38	112.9	70	499.4	102	1194.3
7	5.6	39	117.2	71	521.1	103	1216.0
8	6.0	40	121.6	72	542.8	104	1237.7
9	6.5	41	125.9	73	564.5	105	1259.4
10	6.9	42	130.2	74	586.2	106	1281.1
11	7.3	43	134.6	75	608.0	107	1302.8
12	7.8	44	138.9	76	629.7	108	1346.3
13	8.2	45	143.3	77	651.4	109	1389.7
14	8.6	46	147.6	78	673.1	110	1433.1
15	13.0	47	152.0	79	694.8	111	1476.6
16	17.3	48	156.3	80	716.5	112	1520.0
17	21.7	49	160.6	81	738.3	113	1563.4
18	26.0	50	165.0	82	760.0	114	1606.8
19	30.4	51	169.3	83	781.7	115	1650.3
20	34.7	52	173.7	84	803.4	116	1693.7
21	39.0	53	178.0	85	825.1	117	1737.1
22	43.4	54	182.4	86	846.8	118	1780.6
23	47.7	55	186.7	87	868.5	119	1824.0
24	52.1	56	195.4	88	890.3	120	1867.4
25	56.4	57	217.1	89	912.0	121	1910.8
26	60.8	58	238.8	90	933.7	122	1954.3
27	65.1	59	260.5	91	955.4	123	1997.7
28	69.4	60	282.2	92	977.1	124	2041.1
29	73.8	61	304.0	93	998.8	125	2084.6
30	78.1	62	325.7	94	1020.5	126	2128.0
31	82.5	63	347.4	95	1042.3	127	2171.4

table#22
Ring Mod Carrier Freq Course (Hz)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.7	32	25.6	64	151.4	96	895.0
1	1.3	33	26.9	65	160.2	97	946.1
2	2.0	34	28.9	66	169.6	98	1000.7
3	2.7	35	30.3	67	179.0	99	1057.2
4	3.4	36	32.3	68	189.1	100	1117.7
5	4.0	37	33.6	69	199.9	101	1181.7
6	4.7	38	35.7	70	211.3	102	1249.0
7	5.4	39	37.7	71	223.4	103	1320.3
8	6.1	40	39.7	72	236.2	104	1395.7
9	6.7	41	42.4	73	249.7	105	1475.1
10	7.4	42	44.4	74	263.8	106	1559.2
11	8.1	43	47.1	75	279.3	107	1648.7
12	8.7	44	49.8	76	294.7	108	1742.9
13	9.4	45	52.5	77	311.6	109	1841.8
14	10.1	46	55.9	78	329.7	110	1947.5
15	10.8	47	59.2	79	348.6	111	2058.5
16	11.4	48	62.6	80	368.1	112	2175.6
17	12.1	49	65.9	81	389.6	113	2300.1
18	12.8	50	70.0	82	411.8	114	2431.3
19	13.5	51	73.3	83	435.4	115	2569.9
20	14.1	52	78.1	84	459.6	116	2716.6
21	14.8	53	82.1	85	485.9	117	2871.4
22	15.5	54	86.8	86	514.1	118	3035.6
23	16.2	55	92.2	87	543.1	119	3208.5
24	16.8	56	96.9	88	574.0	120	3391.6
25	17.5	57	103.0	89	607.0	121	3585.4
26	18.2	58	108.3	90	642.0	122	3790.0
27	19.5	59	115.1	91	678.3	123	4006.6
28	20.9	60	121.1	92	717.3	124	4234.8
29	21.5	61	128.5	93	757.7	125	4477.0
30	22.9	62	135.9	94	801.5	126	4732.1
31	24.2	63	143.3	95	847.2	127	5002.6

table#23
V-Flanger Delay Offset

Data	Value	Data	Value
0	0.1	70	6.4
1	0.1	71	6.7
2	0.1	72	7.0
3	0.2	73	7.4
4	0.2	74	7.7
5	0.2	75	8.1
6	0.2	76	8.5
7	0.2	77	9.0
8	0.3	78	9.4
9	0.3	79	9.9
10	0.3	80	10.3
11	0.3	81	10.7
12	0.4	82	11.2
13	0.4	83	11.6
14	0.4	84	12.1
15	0.4	85	12.5
16	0.4	86	12.9
17	0.5	87	13.4
18	0.5	88	13.8
19	0.5	89	14.2
20	0.5	90	14.7
21	0.6	91	15.1
22	0.6	92	15.6
23	0.6	93	16.0
24	0.7	94	16.4
25	0.7	95	16.9
26	0.7	96	17.3
27	0.8	97	17.8
28	0.8	98	18.2
29	0.8	99	18.6
30	0.9	100	19.1
31	0.9	101	19.5
32	1.0	102	20.0
33	1.0	103	20.4
34	1.1	104	20.8
35	1.1	105	21.3
36	1.2	106	21.7
37	1.2	107	22.2
38	1.3	108	22.6
39	1.4	109	23.0
40	1.4	110	23.5
41	1.5	111	23.9
42	1.6	112	24.4
43	1.7	113	24.8
44	1.8	114	25.2
45	1.8	115	25.7
46	1.9	116	26.1
47	2.0	117	26.5
48	2.1	118	27.0
49	2.3	119	27.4
50	2.4	120	27.9
51	2.5	121	28.3
52	2.6	122	28.7
53	2.7	123	29.2
54	2.9	124	29.6
55	3.0	125	30.1
56	3.2	126	30.5
57	3.3	127	30.9
58	3.5	128	31.4
59	3.7	129	31.8
60	3.9	130	32.3
61	4.1	131	32.7
62	4.3	132	33.1
63	4.5	133	33.6
64	4.7	134	34.0
65	5.0	135	34.5
66	5.2	136	34.9
67	5.5	137	35.3
68	5.8	138	35.8
69	6.0	139	36.2

table#24
Modulation Phase

Data	Value
0	-180
1	-158
2	-135
3	-113
4	-90
5	-68
6	-45
7	-23
8	0
9	23
10	45
11	68
12	90
13	113
14	135
15	158
16	180

Vocal Harmony Type List / Liste der Vocal-Harmony-Effekttypen / Liste des types d'harmonie vocale

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

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Main															
SongFile	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
StyleFile	X	X	X	O	X	-	X	-	X	X	X	O	Style	-	
MultiPad File	X	X	X	X	X	-	X	-	X	O	X	O	Multi Pad	-	
Right1 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Right2 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Right3 VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Left VoiceFile	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PartSelect	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PartOn/Off (Right1)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PartOn/Off (Right2)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PartOn/Off (Right3)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PartOn/Off (Left)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
RegistrationBankFile	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
File System															
CharacterSelect	X	X	X	X	X	-	X	-	X	X	X	X	-	-	One setting for all the Name related pop-up window.
File Selection display															
Select View Setup	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Song Path															
Song Folder Path	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Style Path															
Style Folder Path	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
FILE ACCESS SW	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Song															
Synchro Start	X	X	X	X	X	-	X	-	X	X	X	O	SONG	-	
StartStop	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel On/Off	X	X	X	X	X	-	X	-	X	X	X	O	SONG	-	
Menu > Function > SongSetting															
Guide Mode	O	X	X	X	X	-	O	Guide Setting	X	X	X	X	-	-	
Repeat Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Repeat Directory	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Phrase Mark Repeat	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Right Channel	O	X	X	X	X	-	O	(Set by recording)	X	X	X	X	-	-	
Left Channel	O	X	X	X	X	-	O	(Set by recording)	X	X	X	X	-	-	
Auto Ch Set	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Lyrics Language	O	X	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	
QuickStart	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
PAT On/Off	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.
Guide On/Off	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	-	
Menu > DigitalRecording > Song Creator															
REC Mode															
Rec Start	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PunchInAt	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Rec End	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PunchOutAt	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pedal Punch In/Out	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel > Quantize															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Size	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Strength	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	-	-	
Channel > Track Mix															
Source1	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source2	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Destination	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	-	-	
Channel > Setup															
Setup Select	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Chd/1–16/SysEx./Lyric > Filter															
Main Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Style Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Lyric/Text															
BackGround (Panel Setting)	O	X	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Back Ground (Song Setting)	X	X	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	Reset to the background selected last via the panel operation with Factory Reset.
Viewer Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Text File (Panel Setting)	X	X	X	X	X	-	X	-	X	X	X	O	TEXT	-	
Text Sw															
Text Size	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Score Sw															
Left on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Right on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Lyric on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Chord on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
NoteName on/off	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Size	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Left ch.	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Right ch.	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
KeySignature	X	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Quantize	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
NoteName	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
ColorNote On/Off	O	X	X	X	X	-	O	Score Setting	X	X	-	X	-	-	
Song Position Jump															
SP1–4 Position Sw On/Off	X	X	X	X	X	-	O	(Double-clicking [SP1]–[SP4])	X	X	X	X	-	-	
Loop Sw On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Recording data															
Song XG data	X	X	X	X	X	X	O	-	X	X	X	X	-	-	
Style															
AccompanimentOn/Off	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	
OTSLink	X	X	X	O (On)	X	-	X	-	X	X	X	X	-	-	
AutoFillIn	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Section	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
SynchroStart	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	
SynchroStop	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
StartStop	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	-	
OTSLinkTiming	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
SynchroStopWindow	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
StyleTouch	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
SectionSet	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo Hold	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Part On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
SplitPoint															
SplitPoint (Left)	O	X	X	X	X	-	X	-	X	X	X	O	Style	Split	
SplitPoint (Style)	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Style	Split	
SplitPoint (Right3)	O	X	X	X	X	-	X	-	X	X	X	O	Voice	Split	
Chord Fingering															
FingeringType	O	X	X	X	X	-	X	-	X	X	X	O	Style	Fingering	
Chord Root Note	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
ChordRoot Type	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Menu > DigitalRecording > Style Creator															
BASIC															
Section	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pattern Length	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Tempo	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Beat	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Assembly															
Source Pattern	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Section	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Play Type	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Groove > Groove															
Original Beat	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Beat Converter	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Swing	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Fine	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Groove > Dynamics															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Accent Type	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Expand/Comp.	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Boost/Cut	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel > Quantize															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Size	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Strength	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel > Velocity Change															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Boost/Cut	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel > Bar Copy															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Top	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Last	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Destination	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel > Bar Clear															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Top	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Last	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel > Remove Event															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Event	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Parameter															
Channel	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Root	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Source Chord	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
NTR	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
NTT	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
NTT BASS	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
High Key	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Note Limit Low	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Note Limit High	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
RTR	X	X	X	X	X	-	X	-	O	X	X	X	-	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Edit > Filter															
Main Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MusicFinder															
SortBy	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
SortOrder	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
TempoLock	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Search1/2 display															
Music	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Keyword	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Style (FileNumber)	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Beat	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
SearchArea	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo (From)	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo (To)	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Genre	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Search Result	X	X	X	O	X	-	X	-	X	X	X	X	-	-	
Record (=Property settings)	X	X	X	O	X	-	X	-	X	X	X	X	-	-	
Recording data															
SFF data	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
MultiPad															
Multi Pad ContentsName	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Sync Start	X	X	X	X	X	-	X	-	X	X	X	O	MultiPad	-	
Menu > DigitalRecording > Multi Pad Creator															
Record															
Repeat	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Chord Match	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Edit > Filter															
Main Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Recording data															
Multi Pad data											O				
Voice Effect															
LeftHold	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Initial Touch On/Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Harmony/Echo	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Harmony	-	
Poly/Mono (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Poly/Mono (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Poly/Mono (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Poly/Mono (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Panel Sustain	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
DSP (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP (Right3)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Variation (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Variation (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Variation (Right3)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Variation (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Voice Selection > Voice Set (Editer)															
Voice (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
COMMON															
Volume for Balance (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume for Balance (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume for Balance (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume for Balance (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Touch Sense Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Touch Sense Offset (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Offset (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Offset (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Offset (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Octave for Right1	X	X	X	X	O	Voice	X	-	X	O	X	O	Voice	-	
Octave for Right2	X	X	X	X	O	Voice	X	-	X	O	X	O	Voice	-	
Octave for Right3	X	X	X	X	O	Voice	X	-	X	O	X	O	Voice	-	
Octave for Left	X	X	X	X	O	Voice	X	-	X	O	X	O	Style	-	
CONTROLLER															
MW Low Pass Filter Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Low Pass Filter Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Low Pass Filter Control (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Low Pass Filter Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW Amplitude Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Amplitude Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Amplitude Control (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW AmpLitude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW LFO PMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO PMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO PMOD Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO PMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW LFO FMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO FMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO FMOD Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO FMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
MW LFO AMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO AMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO AMOD Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO AMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
CAT Low Pass Filter Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT Low Pass Filter Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT Low Pass Filter Control (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT Low Pass Filter Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
CAT Amplitude Control (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT Amplitude Control (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT Amplitude Control (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT Amplitude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
CAT LFO PMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO PMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO PMOD Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO PMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
CAT LFO FMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO FMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO FMOD Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO FMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
CAT LFO AMOD Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO AMOD Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO AMOD Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
CAT LFO AMOD Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
SOUND															
EG Attack (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG Decay (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG Release (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Speed (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Delay (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EFFECT/EQ															
Panel Sustain (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
DSP Type (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Type (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Type (Right3)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Type (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
DSP Variation Value (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Variation Value (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Variation Value (Right3)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Variation Value (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
EQ Low Freq (Right1)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq (Right2)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq (Right3)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq (Left)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ High Freq (Right1)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq (Right2)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq (Right3)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq (Left)	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
OrganFlute > Footage															
Organ Flutes Footage (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Footage (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Footage (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Footage (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Type (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Type (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Type (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ FlutesType (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Vib On/Off (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib On/Off (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib On/Off (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib On/Off (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Organ Vib Depth (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Depth (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Depth (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Depth (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Vib Speed (Right1)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Speed (Right2)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Speed (Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Speed (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
OrganFlute > Footage															
Organ Flutes Attack Footage (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Footage (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Footage (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Footage (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Attack Mode (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Mode (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Mode (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Mode (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Attack length (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack length (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack length (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack length (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Response (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Response (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Response (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Response (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Volume (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Volume (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Volume (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Volume (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Mic															
VocalHarmonyOn/Off	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
TalkOn/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Mic EffectOn/Off	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
VHType	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
VHParameters	X	X	O	X	X	-	O	Mic.Setting	X	X	X	X	-	Mic.Setting	
Mic Setting															
OverAll Setting															
EQ Low Freq.	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ Low Gain	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ Mid Freq.	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ Mid Gain	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ High Freq.	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ High Gain	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Noise Gate SW	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Noise Gate TH	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Compressor SW	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Compressor TH	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Compressor RAT	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Compressor OUT	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
VH Song Channel Mute	X	X	X	X	X	-	X	-	X	X	X	O	Mic	Mic.Setting	
VH Song Channel	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
VH Keyboard	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
VH Balance	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
VH Mode	X	X	X	X	X	-	X	-	X	X	X	O	Mic	Mic.Setting	
VH Chord Detect	X	X	X	X	X	-	X	-	X	X	X	O	Mic	Mic.Setting	
MicMute	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
MicVolume	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
VocalRange	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting															
Talk Setting Volume	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting Pan	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting ReverbDepth	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting ChorusDepth	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting TotalVolumeAttenuator	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting DSPOn/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting DSPDepth	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Talk Setting DSPType	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Mixing Console > Vol/Voice															
Volume															
Offset Volume Song	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Offset Volume Style	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Volume M.Pad	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	MultiPad	-	
Volume Mic	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic.Setting	
Volume Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Volume Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Part Volume Song	X	X	X	X	X	-	O	Volume	X	X	X	X	-	-	
Part Volume Style	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Keyboard Volume	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
HDR Volume	X	X	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
PanPot															
Offset PanPot Song	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Offset PanPot Style	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
PanPot M.Pad	X	X	X	X	X	-	X	-	X	X	X	O	MultiPad	-	
PanPot Mic	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic.Setting	
PanPot Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
PanPot Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PanPot Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PanPot Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Part PanPot Song	X	X	X	X	X	-	O	Pan	X	X	X	X	-	-	
Part PanPot Style	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Voice															
Voice (Right1)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Right2)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Voice (Style Part)	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Voice (Song Part)	X	X	X	X	X	-	O	Voice	X	X	X	X	-	-	
Auto Revoice															
Auto Revoice On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Auto Revoice Setup	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Mixing Console > Filter															
Brightness															
Brightness Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-	
Brightness Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Brightness Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Brightness Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Brightness Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Brightness Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Harmonic Content															
Harmonic Content Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-	
Harmonic Content Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Harmonic Content Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Harmonic Content Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Harmonic Content Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Harmonic Content Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Mixing Console > Tune															
Octave															
Octave Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Octave Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Octave Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Octave Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Tune															
Tune Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Tune Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Tune Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Tune Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Portamento Time															
Portamento Time Right1	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time Right2	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Pitch Bend Range															
Pitch Bend Range Right1	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pitch Bend Range Right2	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pitch Bend Range Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pitch Bend Range Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Transpose															
Master Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Song Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Keyboard Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Mixing Console > EQ															
MasterEQ Type	O	X	X	X	X	-	X	-	X	X	X	X	-	MasterEQ	
MasterEQ Parameter	X	X	O	X	X	-	X	-	X	X	X	X	-	MasterEQ	
EQ Low Gain															
EQ Low Gain Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
EQ Low Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	
EQ Low Gain Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
EQ Low Gain Right1	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Gain Right2	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Gain Right3	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Gain Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ Low Gain Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
EQ Low Gain Song (Offset)	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	-	
EQ High Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	
EQ High Gain Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
EQ High Gain Right1	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Gain Right2	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Gain Right3	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Gain Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ High Gain Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
EQ High Gain Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Mixing Console > Effect															
Reverb Type															
Reverb Type	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Reverb Type	
Reverb Return Level	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Reverb Return Level	
Reverb Depth															
Reverb Depth Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Reverb Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Reverb Depth Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Reverb Depth Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
Reverb Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth Right3	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Reverb Depth Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Reverb Depth Song (Offset)	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	-	
Chorus Return Level	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Chorus Return Level	
Chorus Depth															
Chorus Depth Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Chorus Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Chorus Depth Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Chorus Depth Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
Chorus Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth Right3	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Chorus Depth Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Chorus Depth Song (Offset)	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	-	
DSP1 (Variation) Return Level	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	DSP1 Return Level	
DSP2Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP3Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP4Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP5Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP6Type	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP7Type	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Style/Song/Mic	Mic.Setting	
DSP8Type	X	X	X	X	X	-	O	-	X	X	X	O	Style	-	
DSP9Type	X	X	X	X	X	-	O	-	X	X	X	O	Style	-	
DSP Depth															
DSP Depth Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
DSP Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
DSP Depth Right1	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Depth Right2	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Depth Right3	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Depth Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
DSP Depth Mic	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	-	
InsertionType															
Ins.Type (Right1)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Ins.Type (Right2)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Ins.Type (Right3)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Ins.Type (Left)	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Ins. Type (Song)	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Ins.Type (Mic)	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
Effect Parameter (Reverb/Chorus/DSP1-5)	X	X	O	X	X	-	O	Effect	X	X	X	X	-	-	
Effect Parameter (DSP6)	X	X	O	X	X	-	O	Mic.Setting	X	X	X	X	-	-	
Mixing Console > CMP															
MasterCmpressor Type	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MasterCmpressor Threshold Offset	X	X	O	X	X	-	X	-	X	X	X	X	-	-	
MasterCmpressor Ratio Offset	X	X	O	X	X	-	X	-	X	X	X	X	-	-	
MasterCmpressor OutPutOffset	X	X	O	X	X	-	X	-	X	X	X	X	-	-	
MasterCmpressor On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Mixing Console > LineOut															
LineOut	O	X	X	X	X	-	X	-	X	X	-	O	LineOut	-	
Channel On/Off															
ChannelOn/Off (Song)	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
ChannelOn/Off (Style)	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
MIDI															
MIDI Template															
Template No.	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Preset Template Name	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Menu > Function > MIDI															
System															
Local Control	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Clock	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Transmit Clock	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Receive Transpose	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Receive Start/Stop	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
SysEx Transmit	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
SysEx Receive	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord SysEx Transmit	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord SysEx Receive	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Transmit															
Part Select	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Ch (for each part)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Filter (for each part)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Receive															
CH Select	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Part Select	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Filter (for each channel)	X	O	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	-	-	
Chord Detect															
Chord Detect	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10															
MFC10 SW Function (0-29)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Foot Function (1-5)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Receive Port	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Foot Part (0-4)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Receive (Ch1-16)	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Menu > Function > Mater Tune/Scale Tune															
Master Tune															
MasterTune	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Scale Tune															
Scale	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Tune	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
BaseNote	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Part Select (Right1/Right2/Right3, Left,Style,Multi Pad)	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Menu > Function > Controller															
Slider															
Assign Slider	O	X	X	X	X	X	X	X	X	X	X	O	Slider	-	
Foot Pedal															
PedalFunction	X	X	X	X	X	X	X	X	X	X	X	O	Pedal	-	
PedalSettings	X	X	X	X	X	X	X	X	X	X	X	O	Pedal	-	
PedalPolarity	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Keyboard/Panel															
Initial Touch	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Initial TouchOffLevel	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Initial Touch Part On/Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
After Touch	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
After Touch Part On/Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
ModulationWheelPartOn/Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
TransposeAssign	O	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	-	-	Memorized as a single Registration Bank file.
RegistSequenceEnable	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Regist (+) Pedal	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Regist (-) Pedal	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
SequenceEnd	X	X	X	X	X	-	X	-	X	X	X	O	-	-	Memorized as a single Registration Bank file.
Freeze Group															
FreezeGroupSetting	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
VoiceSet															
VoiceSet Group Right1 On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
VoiceSet Group Right2 On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
VoiceSet Group Left On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
VoiceSet Group Right3 On/Off	O	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	-	
Volume	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
Speed	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
Assign	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
ChordNoteOnly	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
TouchLimit	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
Menu > Function > Screen Out															
Monitor Type	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
ScreenContent	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Menu > Function > Utility															
Configration1															
FadeInTime	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
FadeOutTIme	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
FadeOutHoldTime	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MetronomeVolume	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MetronomeSound	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
TimeSignature	X	X	X	X	X	-	O	-	O	X	X	X	-	-	
ParameterLock	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
TapCountPercussion	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
TapCountVelocity	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Configration2															
DisplayVoiceNumber	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Speaker	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Aux Out/Loop Send	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
VoiceCategory Button Options	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Display Style Tempo	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Popup Display Time	O	X	X	X	X	-	X	-	X	X	-	X	-	-	

Parameter	System				Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Media															
SongAutoOpen	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
HD Sleep Time	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Owner															
Language	O	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	-	-	Cannot be reset with Factory Reset.
MainPicture	O	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	-	-	Language, Owner Name, Main Picture Back-Ground, Lyric Picture BackGround, and Screen Out related parameters are not reset.
Registration															
FreezeOn/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
RegistMemory Contents	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
RegistNumber	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
RegistContentsName	X	X	X	X	X	-	X	-	X	X	X	O	-	-	
OTS															
OTSNumber	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	-	-	
Metronome															
Start/Stop	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Transpose															
Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Upper Octave															
UpperOctave	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Direct Access															
	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Hard Disk Recorder															
Hard Disk Recorder Audio Player File	X	X	X	X	X	-	X	-	X	X	X	O	HDR	-	
Basic/Playlist Mode	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Input Volume	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Output Volume	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Output Mute Sw	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Recording Mode	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Nudge Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
PlayList															
Repeat Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Mark Sw	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Custom Voice															
Wave Import (Normal Voice)															
Wave Element	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Start Key	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
End Key	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Add Wave															
Fixed Pitch	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Center Key	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Start Key	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Wave Import (Drum Kit)															
Volume	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pan	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Reverb	X	X	X	X	X	-	X	-	X	X	X	X	-	-	Change DrumSetup Reverb Send Level.
Receive Note Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	Change DrumSetup Receive Note Off.

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers.
Hexa-decimal 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/10010000-1001 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 Sys-tem Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.

- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

MIDI CHANNEL MESSAGE (1)

								[MIDI]										[Song Creator]		
MIDI Events	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	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
Key Off [GM1] [GM2]	8nH (n:Channel Number)	kk		Key no. (0-127)	vv		Velocity(0-127)	O	O (Harmony Channel/ Melody Channel)	O	O	O	O	O	X	X	O	O	X	O	X	X
Key On [GM1] [GM2]	9nH (n:Channel Number)	kk		Key no. (0-127)	vv		Key On : vv=1-127 Key Off : vv=0	O	O (Harmony Channel/ Melody Channel)	O	O	O	O	O	●	O	O	O	●	O	X	O
Control Change	BnH	0	(00H)	Bank Select MSB [GM2]	0 8 8 8 62 63 64 104 120 121 126 127	(00H) (08H) (08H) (08H) (3EH) (3FH) (40H) (68H) (78H) (79H) (7EH) (7FH)	Normal MegaVoice SA Voice SA2 Voice Custom Drum Voice Custom Voice SFX Voice Normal GM2 Rhythm GM2 Normal SFX kit Drum kit	O	X	O	O	O (Regist)	O	O	●	O	●	●	X	O	O	O
		1	(01H)	Modulation [GM1] [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O
		5	(05H)	Portamento Time [GM2]	0-127	(00H...7FH)	Data	O (Except Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	O	O
		6	(06H)	Data Entry MSB [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	X	O
		7	(07H)	Main Volume [GM1] [GM2]	0-127	(00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
		10	(0AH)	Panpot [GM1] [GM2]	0-127	(00H...7FH)	L64...C...R63	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
		11	(0BH)	Expression [GM1] [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	●	●	●	●	O	O	O
		32	(20H)	Bank Select LSB [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (Regist)	O	O	●	O	●	●	X	O	O	O
		38	(26H)	Data Entry LSB [GM2]	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	X	O
		64	(40H)	Sustain (Damper) [GM1] [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		65	(41H)	Portamento [GM2]	0-127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O (Except Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		66	(42H)	Sostenuto [GM2]	0-127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		67	(43H)	Soft Pedal [GM2]	0-127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
		71	(47H)	Harmonic Content [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		72	(48H)	Release Time [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
		73	(49H)	Attack Time [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
		74	(4AH)	Brightness [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		75	(4BH)	Decay Time [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		76	(4CH)	Vibrato Rate [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		77	(4DH)	Vibrato Depth [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		78	(4EH)	Vibrato Delay [GM2]	0-127	(00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
		80	(50H)	General Purpose Controller (Articuration 1)	0-127	(00H...7FH)	0 : OFF 127 : ON	O (SA/SA2 Voice Only)	X	O	X	X	X	X	●	X	X	O	X	O	O	O
		81	(51H)	General Purpose Controller (Articuration 2)	0-127	(00H...7FH)	0 : OFF 127 : ON	O (SA/SA2 Voice Only)	X	O	X	X	X	X	●	X	X	O	X	O	O	O
		84	(54H)	Portamento Control	0-127	(00H...7FH)	Key no. (0-127)	O	X	O	O	X	O	O	O	O	●	O	X	O	X	O

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

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

[MIDI] [Song Creator]

MIDI Events	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	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		91	(5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127	(00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
		93	(5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127	(00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
		94	(5EH)	Effect4 Depth (Variation Send Level)	0-127	(00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	O	O	●	●	X	O	O	X
		96	(60H)	RPN Increment	-	-	The data byte is ignored.	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	X	O	X	O	X	O	X	X
		97	(61H)	RPN Decrement	-	-	The data byte is ignored.	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	X	O	X	O	X	O	X	X
		98	(62H)	NRPN LSB	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
		99	(63H)	NRPN MSB	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
		100	(64H)	RPN LSB [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
		101	(65H)	RPN MSB [GM2]	0-127	(00H...7FH)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
Mode Message	BnH (n:Channel Number)	120	(78H)	All Sound Off [GM2]	0	(00H)	Data	O	X	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	X
		121	(79H)	Reset All Controllers [GM1] [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
		122	(7AH)	Local Control	0 127	(00H) (7FH)	OFF ON	-	-	O					X	X	X	X	X	X	X	X
		123	(7BH)	All Note Off [GM1] [GM2]	0	(00H)	Data	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	X
		124	(7CH)	Omni Off [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
		125	(7DH)	Omni On [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
		126	(7EH)	Mono [GM2]	0-16	(00H...10H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
		127	(7FH)	Poly [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
Program Change [GM1] [GM2]	CnH (n:Channel Number)	pp	(00H... 7FH)	Voice Number (0-127)	-	-	-	O	X	O	O	O (Right1)	O	O	●	O	●	●	X	O	O	O
Channel After Touch [GM1] [GM2]	DnH (n:Channel Number)	vv	(00H... 7FH)	Data	-	-	-	O	X	O	O	O (All Keyboard parts)	X	O	X	O	X	O	X	O	X	O
Polyphonic After Touch	AnH (n:Channel Number)	kk	(00H... 7FH)	Key no. (0-127)	vv	(00H...7FH)	Data	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Pitch Bend Change [GM1] [GM2]	EnH (n:Channel Number)	cc	(00H... 7FH)	LSB	dd	(00H...7FH)	MSB	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O
Realtime Message	F8H MIDI Clock	-	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)					O (Transmitted when the Clock is set to Internal and the Transmit Clock is set to on.)					-	-	-
	FAH Start	-	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)					O (Transmitted when the Transmit Clock is set to on.)					-	-	-
	FBH Continue	-	-	-	-	-	-	-	-	X					X					-	-	-
	FCH Stop	-	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)					O (Transmitted when the Transmit Clock is set to on.)					-	-	-
	FEH Active Sense [GM2]	-	-	-	-	-	-	-	-	O					O					-	-	-
	FFH System Reset	-	-	-	-	-	-	-	-	X					X					-	-	-

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

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

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

MIDI CHANNEL MESSAGE (2)

NRPN **[MIDI]** **[Song Creator]**

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
01H	08H	mmH	--	Vibrato Rate	mm : 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	09H	mmH	--	Vibrato Depth	mm : 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	0AH	mmH	--	Vibrato Delay	mm : 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm : 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm : 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	30H	mmH	--	EQ Bass Gain	mm : 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	31H	mmH	--	EQ Treble Gain	mm : 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	34H	mmH	--	EQ Bass Frequency	mm : 04H-28H (32...2.0k[Hz])	O	X	O	X	X	X	X	X	X	X	O	X	O	O	X
01H	35H	mmH	--	EQ Treble Frequency	mm : 1CH-3AH (500...16.0k[Hz])	O	X	O	X	X	X	X	X	X	X	O	X	O	O	X
01H	63H	mmH	--	EG Attack Time	mm : 00H-40H-7FH (-64...0...+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	64H	mmH	--	EG Decay Time	mm : 00H-40H-7FH (-64...0...+63)	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	66H	mmH	--	EG Release	mm : 00H-40H-7FH (-64...0...+63)	O	X	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)	X	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)	X	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)	X	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)	X	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)	X	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)	X	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)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1CH	rrH	mmH	--	Drum Pan	rr : drum instrument note number mm : 00H, 01H-40H-7FH (RND, L63...C...R63)	O (Drum Only)	X	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)	X	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)	X	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)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
30H	rrH	mmH	--	Drum EQ Bass Gain	rr : drum instrument note number mm : 00H-7FH (0...127)	X	X	X	X	X	X	X	X	X	X	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	X	O	X	X	X	X
34H	rrH	mmH	--	Drum EQ Bass Frequency	rr : drum instrument note number mm : 04H-28H (32...2.0[Hz])	X	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...16.0[Hz])	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X

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

NRPN MSB: 14H-35H (for drums) message is accepted as long as the channel is set with a drum voice.
Data Entry LSB: Ignored.

NRPN (VocalHarmony)

[MIDI] [Song Creator]

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
00H	00H	mmH	--	Harmony Mute	mm : 00H-3FH, 40H-7FH (Off, On)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	O	X	O	X	X
01H	1AH	mmH	--	Detune Modulation	mm : 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	O	X	O	X	X
02H	10H	mmH	--	Harmony1 Volume	mm : 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	11H	mmH	--	Harmony2 Volume	mm : 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	12H	mmH	--	Harmony3 Volume	mm : 00H-7FH (0...127)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	20H	mmH	--	Harmony1 Pan	mm : 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	21H	mmH	--	Harmony2 Pan	mm : 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	22H	mmH	--	Harmony3 Pan	mm : 00H, 01H-40H-7FH (RND, L63...C...R63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	30H	mmH	--	Harmony1 Detune	mm : 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	31H	mmH	--	Harmony2 Detune	mm : 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X
02H	32H	mmH	--	Harmony3 Detune	mm : 00H-40H-7FH (-64...0...+63)	X	O (Harmony Channel)	X	X	X	X	X	X	X	X	●	X	O	X	X

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

Data Entry LSB: Ignored.

RPN

[MIDI] [Song Creator]

RPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3m Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1][GM2]	mm : 00H-18H (0...+24 [semitones])	O	O (Harmony Channel/ Melody Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
00H	01H	mmH	llH	Fine Tune [GM1][GM2]	mm ll : 00H 00H -100[cent] ... mm ll : 40H 00H 0[cent] ... mm ll : 7FH 7FH 100[cent]	O	X	O	O	O (All Keyboard parts)	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	X	O	O	O (All Keyboard parts)	O	O	X	O	O	O	X	O	O	X
00H	05H	mmH	llH	Modulation Sensitivity [GM2]	mm : Specified in semitone steps ll : Specified in 100/128 cent steps	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
7FH	7FH	--	--	Null [GM2]	-	O	O	O	O	O (All Keyboard parts)	O	O	X	O	O	O	X	O	X	X

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

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

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

XG PARAMETER CHANGE TABLE

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

MIDI Parameter Change table (XG SYSTEM)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
00	00	00	4	00-0F	MASTER TUNE	-102.4...0...+102.3[cent]	*Panel setting value	O	O	O					●					O	X	X
		01		00-0F		1st bit3-0→bit15-12																
		02		00-0F		2nd bit3-0→bit11-8																
		03		00-0F		3rd bit3-0→bit7-4																
						4th bit3-0→bit3-0																
		04	1	00-7F	MASTER VOLUME	0...127	7F	O	X	O (Available for extra parts of a song)					O					O	O	X
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	X	X	X					X					X	X	X
		06	1	28-58	TRANSPOSE	-24...0...+24 [semitones]	40	O	O	O (Available for extra parts of a song)					O					O	O	X
		7D	1	N	DRUM SETUP RESET	N:Drum setup number	-	O (Drum Only)	X	O (Available for extra parts of a song)					O					O	X	X
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	O	X	O (Available for extra parts of a song)					O					O	X	O
		7F	1	00	ALL PARAMETER RESET	00=ON	-	O	X	O (Available for extra parts of a song)					O					O	X	X

TOTAL SIZE 07

● : Transmitted via panel operations O : Available

MIDI Parameter Change table (SYSTEM INFORMATION)

Address (H)			Size (H)	Data (H)	Parameter	Description	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
							Regular/ Drum/ Organ Voice	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
01	00	00	E	20-7F	Model Name 1	32...127(ASCII CHARACTER)	-		-					O (Available only when receiving requests via MIDI)					-	-	-
		...		...	...	...															
		0D		20-7F	Model Name 14	32...127(ASCII CHARACTER)															
		0E	1		NOT USED																
		0F	1		NOT USED																

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
02	01	00	2	00-7F	REVERB TYPE MSB	Refer to Effect Parameter List	01(=HALL1)	O	O	O					●					O	O	O
				00-7F	REVERB TYPE LSB	Refer to Effect Parameter List	00															
		02	1	00-7F	REVERB PARAMETER 1	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		03	1	00-7F	REVERB PARAMETER 2	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		04	1	00-7F	REVERB PARAMETER 3	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		05	1	00-7F	REVERB PARAMETER 4	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		06	1	00-7F	REVERB PARAMETER 5	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		07	1	00-7F	REVERB PARAMETER 6	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		08	1	00-7F	REVERB PARAMETER 7	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		09	1	00-7F	REVERB PARAMETER 8	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		0A	1	00-7F	REVERB PARAMETER 9	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		0B	1	00-7F	REVERB PARAMETER 10	Refer to Effect Parameter List	Depends on Reverb Type	O	O	O					●					O	O	O
		0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB (0...64...127)	40	O	O	O					●					O	O	O
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	O	O	O					O					O	O	X

TOTAL SIZE 0E

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

TOTAL SIZE 06

● : Transmitted via panel operations O : Available

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception				[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
02	01	20	2	00-7F 00-7F	CHORUS TYPE MSB CHORUS TYPE LSB	Refer to Effect Parameter List Refer to Effect Parameter List	41(=CHORUS1) 00	O	O		O				●					O	O	O
		22	1	00-7F	CHORUS PARAMETER 1	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		23	1	00-7F	CHORUS PARAMETER 2	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		24	1	00-7F	CHORUS PARAMETER 3	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		25	1	00-7F	CHORUS PARAMETER 4	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		26	1	00-7F	CHORUS PARAMETER 5	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		27	1	00-7F	CHORUS PARAMETER 6	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		28	1	00-7F	CHORUS PARAMETER 7	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		29	1	00-7F	CHORUS PARAMETER 8	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		2A	1	00-7F	CHORUS PARAMETER 9	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		2B	1	00-7F	CHORUS PARAMETER 10	Refer to Effect Parameter List	Depends on Chorus Type	O	O		O				●					O	O	O
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB (0...64...127)	40	O	O		O				●					O	O	O
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	O	O		O				O					O	O	X
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00	O	O		O				O					O	O	X

TOTAL SIZE 0F

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

TOTAL SIZE 06

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception				[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
02	01	40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	Refer to Effect Parameter List Refer to Effect Parameter List	05(=DELAY L,C,R) 00	O	O		O				●					O	O	O
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		44	2	00-7F 00-7F	VARIATION PARAMETER 2 MSB VARIATION PARAMETER 2 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		46	2	00-7F 00-7F	VARIATION PARAMETER 3 MSB VARIATION PARAMETER 3 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		48	2	00-7F 00-7F	VARIATION PARAMETER 4 MSB VARIATION PARAMETER 4 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		4A	2	00-7F 00-7F	VARIATION PARAMETER 5 MSB VARIATION PARAMETER 5 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		4C	2	00-7F 00-7F	VARIATION PARAMETER 6 MSB VARIATION PARAMETER 6 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		4E	2	00-7F 00-7F	VARIATION PARAMETER 7 MSB VARIATION PARAMETER 7 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		50	2	00-7F 00-7F	VARIATION PARAMETER 8 MSB VARIATION PARAMETER 8 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		52	2	00-7F 00-7F	VARIATION PARAMETER 9 MSB VARIATION PARAMETER 9 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	O	O		O				●					O	O	O
		56	1	00-7F	VARIATION RETURN	-∞dB...0dB...+6dB (0...64...127)	40	O	O		O				●					O	O	O
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	O	O		O				O					O	O	X
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB...0dB...+6dB (0...64...127)	00	O	O		O				O					O	O	X
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB...0dB...+6dB (0...64...127)	00	O	O		O				O					O	O	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	O	O		O				●					O	O	O
		5B	1	00-7F	VARIATION PART NUMBER	Reception : Part1...16(0...15) Transmission : Part1...16(0...15) AD(64) OFF(127)	7F	O	O		O				●					O	O	O
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O				O					O	O	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O				O					O	O	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O				O					O	O	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O				O					O	O	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	O	O		O				O					O	O	X

TOTAL SIZE 21

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
		71	1	00-7F	VARIATION PARAMETER 12	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
		72	1	00-7F	VARIATION PARAMETER 13	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
		73	1	00-7F	VARIATION PARAMETER 14	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
		74	1	00-7F	VARIATION PARAMETER 15	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
		75	1	00-7F	VARIATION PARAMETER 16	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O

TOTAL SIZE 06

● : Transmitted via panel operations O : Available

MIDI Parameter Change table (MULTI EQ)

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ 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.	O	O			O					O			O	X	X
		01	1	34-4C	EQ GAIN1	-12...0...+12[dB]		O	O			O					●			O	X	X
		02	1	04-28	EQ FREQUENCY1	32...2.0k[Hz]		O	O			O					●			O	X	X
		03	1	01-78	EQ Q1	0.1...12.0		O	O			O					●			O	X	X
		04	1	00-01	EQ SHAPE1	shelving, peaking		O	O			O					O			O	X	X
		05	1	34-4C	EQ GAIN2	-12...0...+12[dB]		O	O			O					●			O	X	X
		06	1	0E-36	EQ FREQUENCY2	100...10.0k[Hz]		O	O			O					●			O	X	X
		07	1	01-78	EQ Q2	0.1...12.0		O	O			O					●			O	X	X
		08	1		NOT USED			-	-			-					-			-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12[dB]		O	O			O					●			O	X	X
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k[Hz]		O	O			O					●			O	X	X
		0B	1	01-78	EQ Q3	0.1...12.0		O	O			O					●			O	X	X
		0C	1		NOT USED			-	-			-					-			-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12[dB]		O	O			O					●			O	X	X
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k[Hz]		O	O			O					●			O	X	X
		0F	1	01-78	EQ Q4	0.1...12.0		O	O			O					●			O	X	X
		10	1		NOT USED			-	-			-					-			-	-	-
		11	1	34-4C	EQ GAIN5	-12...0...+12[dB]		O	O			O					●			O	X	X
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k[Hz]		O	O			O					●			O	X	X
		13	1	01-78	EQ Q5	0.1...12.0		O	O			O					●			O	X	X
		14	1	00-01	EQ SHAPE5	shelving, peaking		O	O			O					O			O	X	X

TOTAL SIZE 15

● : Transmitted via panel operations O : Available

MIDI Parameter Change table (EFFECT2)

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List Refer to Effect Parameter List	* The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	O	O			O					●			O	O	O
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	Refer to Effect Parameter List		O	O			O					●			O	O	O
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	Refer to Effect Parameter List		O	O			O					●			O	O	O
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	Refer to Effect Parameter List		O	O			O					●			O	O	O
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	Refer to Effect Parameter List		O	O			O					●			O	O	O
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	Refer to Effect Parameter List		O	O			O					●			O	O	O
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	Refer to Effect Parameter List		O	O			O					●			O	O	O
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	Refer to Effect Parameter List		O	O			O					●			O	O	O
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	Refer to Effect Parameter List		O	O			O					●			O	O	O
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	Refer to Effect Parameter List		O	O			O					●			O	O	O
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	Refer to Effect Parameter List		O	O			O					●			O	O	O
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception : Part1...16(0...15) Transmission : Part1...16(0...15) AD(64) OFF(127)		O	O			O					●			O	O	O
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		O	O			O					O			O	O	X
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		O	O			O					O			O	O	X
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		O	O			O					O			O	O	X
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		O	O			O					O			O	O	X
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		O	O			O					O			O	O	X

TOTAL SIZE 12

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission						[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower		PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List	* The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	O	O		O						●				O	O	O
		21	1	00-7F	INSERTION EFFECT PARAMETER 12	Refer to Effect Parameter List		O	O		O						●				O	O	O
		22	1	00-7F	INSERTION EFFECT PARAMETER 13	Refer to Effect Parameter List		O	O		O						●				O	O	O
		23	1	00-7F	INSERTION EFFECT PARAMETER 14	Refer to Effect Parameter List		O	O		O						●				O	O	O
		24	1	00-7F	INSERTION EFFECT PARAMETER 15	Refer to Effect Parameter List		O	O		O						●				O	O	O
		25	1	00-7F	INSERTION EFFECT PARAMETER 16	Refer to Effect Parameter List		O	O		O						●				O	O	O

TOTAL SIZE 6

		30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	* The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	O	O		O						●				O	O	O
		32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		3A	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O
		42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	Refer to Effect Parameter List Refer to Effect Parameter List		O	O		O						●				O	O	O

TOTAL SIZE 14

● : Transmitted via panel operations O : Available

The second byte of the address is considered as an Insertion effect number.
n : insertion effect number (n=0-5)

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.
Type MSB of the effect types that require Parameter MSB are: 5, 6, 7, 8, 95, 96, 97, 98, 104.
When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02-0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02-0B will not be received.

MIDI Parameter Change table (SPECIAL EFFECT)

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission						[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower		PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
04	00	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Vocoder(89), Chordal(90), Detune(91), Chromatic(92), Thru(0...88, 93...127)	* The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON.	X	O		O						●				O	O	X
		02	1	00-7F	INSERTION EFFECT PARAMETER 1 Harmony Mode			X	O		O						●				O	O	X
		03	1	00-7F	INSERTION EFFECT PARAMETER 2 Harmony Gender Type	Off(0), Auto(1)		X	O		O						●				O	O	X
		04	1	00-7F	INSERTION EFFECT PARAMETER 3 Lead Gender Type	Off(0), Unison(1), Male(2), Female(3)		X	O		O						●				O	O	X
		05	1	00-7F	INSERTION EFFECT PARAMETER 4 Lead Gender Depth	-64...0...+63(0...127)		X	O		O						●				O	O	X
		06	1	00-7F	INSERTION EFFECT PARAMETER 5 Lead Pitch Correction	Free(0), Correct(1)		X	O		O						●				O	O	X
		07	1	00-7F	INSERTION EFFECT PARAMETER 6 Auto Upper Gender Threshold	0...12(0...12)		X	O		O						●				O	O	X

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice: Regular/ Drum/ Organ Voice	[MIDI] Voice: Mic/Vocal Harmony	[MIDI] MIDI Reception: Song	[MIDI] MIDI Reception: Right1 Right2 Right3 Left	[MIDI] MIDI Reception: Keyboard	[MIDI] MIDI Reception: Style	[MIDI] MIDI Reception: Extra	[MIDI] MIDI Transmission: Right1 Right2 Right3 Left	[MIDI] MIDI Transmission: M.Pad	[MIDI] MIDI Transmission: Style	[MIDI] MIDI Transmission: Song	[MIDI] MIDI Transmission: Upper Lower	[Song Creator] PLAY: PLAY	[Song Creator] PLAY: REW	[Song Creator] REC: From panel (Right1/ Right2/ Right3/ Left)
		08	1	00-7F	INSERTION EFFECT PARAMETER 7 Auto Lower Gender Threshold	0...12(0...12)	* The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON.	X	O	O					●					O	O	X
		09	1	00-7F	INSERTION EFFECT PARAMETER 8 Upper Gender Depth	-64...0+63(0...127)		X	O	O					●					O	O	X
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9 Lower Gender Depth	-64...0...+63(0...127)		X	O	O					●					O	O	X
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	L63>H...L=H...L<H63 (1...64...127)		X	O	O					●					O	O	X
		0C	1	00-7F	INSERTION EFFECT PART NUMBER	AD(64), OFF(0...63, 65...127)		X	O	O					●					O	O	O
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63		X	X	X					X					X	X	X

TOTAL SIZE 12

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

TOTAL SIZE 2

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

TOTAL SIZE 6

● : Transmitted via panel operations O : Available

MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice: Regular/ Drum/ Organ Voice	[MIDI] Voice: Mic/Vocal Harmony	[MIDI] MIDI Reception: Song	[MIDI] MIDI Reception: Right1 Right2 Right3 Left	[MIDI] MIDI Reception: Keyboard	[MIDI] MIDI Reception: Style	[MIDI] MIDI Reception: Extra	[MIDI] MIDI Transmission: Right1 Right2 Right3 Left	[MIDI] MIDI Transmission: M.Pad	[MIDI] MIDI Transmission: Style	[MIDI] MIDI Transmission: Song	[MIDI] MIDI Transmission: Upper Lower	[Song Creator] PLAY: PLAY	[Song Creator] PLAY: REW	[Song Creator] REC: From panel (Right1/ Right2/ Right3/ Left)
8	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	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		02	1	00-7F	BANK SELECT LSB	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		03	1	00-7F	PROGRAM NUMBER	1...128	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		04	1	00-0F,7F	Rcv CHANNEL	1...16, OFF	Part No.	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	O	X	O	X	X	O	X	X	X	X	O	X	O	X	X
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part10=02, other parts=00	O	X	O	X	X	X	X	●	X	●	●	X	O	X	O
		08	1	28-58	NOTE SHIFT	-24...0...+24[semitones]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		09 0A	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7[Hz] 1st bit3-0→bit7-4 2nd bit3-0→bit3-0	08 00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		0B	1	00-7F	VOLUME	0...127	64	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		0E	1	00-7F	PAN	RND,L63...C...R63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		11	1	00-7F	DRY LEVEL	0...127	7F	O	X	O	O	X	O	O	X	O	●	●	X	O	O	O
		12	1	00-7F	CHORUS SEND	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		13	1	00-7F	REVERB SEND	0...127	28	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		14	1	00-7F	VARIATION SEND	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	O
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X

Address (H)		Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
							Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24[semitones]	42	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X

TOTAL SIZE 29

		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		31	1	00-01	Rcv CH AFTER TOUCH(CAT)	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		34	1	00-01	Rcv POLY AFTER TOUCH(PAT)	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		36	1	00-01	Rcv RPN	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		37	1	00-01	Rcv NRPN	OFF, ON	XGmode=01, GMmode=00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		38	1	00-01	Rcv MODULATION	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		39	1	00-01	Rcv VOLUME	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3A	1	00-01	Rcv PAN	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		40	1	00-01	Rcv BANK SELECT	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		41	1	00-7F	SCALE TUNING C	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		42	1	00-7F	SCALE TUNING C#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		43	1	00-7F	SCALE TUNING D	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		44	1	00-7F	SCALE TUNING D#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		45	1	00-7F	SCALE TUNING E	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		46	1	00-7F	SCALE TUNING F	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		47	1	00-7F	SCALE TUNING F#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		48	1	00-7F	SCALE TUNING G	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		49	1	00-7F	SCALE TUNING G#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4A	1	00-7F	SCALE TUNING A	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4B	1	00-7F	SCALE TUNING A#	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4C	1	00-7F	SCALE TUNING B	-64...0...+63[cent]	40	O	X	O	O	X	O	O	●	X	●	O	X	O	O	O
		4D	1	28-58	CAT PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	O	X	O	O	X	X	O	X	O	X	O	X	O	O	X
		53	1	28-58	PAT PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	O (Except Organ Flutes)	X	O	O	X	X	O	X	X	X	O	X	O	O	X
		68	1	00-7F	PORTAMENTO TIME	0...127	00	O	X	O	O	X	X	O	X	X	X	O	X	O	O	X
		69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X

TOTAL SIZE 3F

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		MIDI Reception					MIDI Transmission					[Song Creator] PLAY		REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		70	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		71	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	O	X	O	O	X	O	O	●	●	●	●	X	O	O	O
		73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	O	X	O	O	X	O	O	●	●	●	●	X	O	O	O

TOTAL SIZE 04

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

TOTAL SIZE 0C

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

TOTAL SIZE 06

● : Transmitted via panel operations O : Available

nn : PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.
- BANK SELECT LSB
- PORTAMENTO
- MONO/POLY
- SCALE TUNING
- POLY AFTER TOUCH
- PITCH EG

MIDI Parameter Change table (A/D PART)

Address (H)			Size (H)	Data (H)	Parameter	Description		[MIDI] Voice		MIDI Reception					MIDI Transmission					[Song Creator] PLAY		REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
10	0n	00	1	00-01	INPUT GAIN	MIC, LINE	* The A/D PART parameter cannot be reset to its factory setting with XG SYSTEM ON.	X	X	X					X					X	X	X
		01	1	00-7F	BANK SELECT MSB	0...127		X	X	X					X					X	X	X
		02	1	00-7F	BANK SELECT LSB	0...127		X	X	X					X					X	X	X
		03	1	00-7F	PROGRAM NUMBER	1...128		X	X	X					X					X	X	X
		04	1	00-0F,7F	Rcv CHANNEL	1...16,OFF		X	O	O					O					O	X	X
		05	1		NOT USED			-	-	-					-					-	-	-
		06	1		NOT USED			-	-	-					-					-	-	-
		07	1		NOT USED			-	-	-					-					-	-	-
		08	1		NOT USED			-	-	-					-					-	-	-
		09	1		NOT USED			-	-	-					-					-	-	-
		0A	1		NOT USED			-	-	-					-					-	-	-
		0B	1	00-7F	VOLUME	0...127		X	O	O					●					O	X	X
		0C	1		NOT USED			-	-	-					-					-	-	-
		0D	1		NOT USED			-	-	-					-					-	-	-
		0E	1	01-7F	PAN	L63...C...R63		X	O	O					●					O	X	X
		0F	1		NOT USED			-	-	-					-					-	-	-
		10	1		NOT USED			-	-	-					-					-	-	-
		11	1	00-7F	DRY LEVEL	0...127		X	O	O					●					O	X	X
		12	1	00-7F	CHORUS SEND	0...127		X	O	O					●					O	X	X
		13	1	00-7F	REVERB SEND	0...127		X	O	O					●					O	X	X
		14	1	00-7F	VARIATION SEND	0...127		X	O	O					●					O	X	X

TOTAL SIZE 15

● : Transmitted via panel operations O : Available

n : A/D Part Number (0)

MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception				[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		01	1	00-7F	PITCH FINE	-64...0...+63[cent]	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		02	1	00-7F	LEVEL	0...127	Depends on the note	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	Depends on the note	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		04	1	00-7F	PAN	RND, L63...C...R63	Depends on the note	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		05	1	00-7F	REVERB SEND	0...127	Depends on the note	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		06	1	00-7F	CHORUS SEND	0...127	Depends on the note	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		07	1	00-7F	VARIATION SEND	0...127	7F	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	O(Drum Only)	X	O(Available only for song parts)					O					O	X	X

TOTAL SIZE 10

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception				[MIDI] MIDI Transmission					[Song Creator] PLAY		[Song Creator] REC
								Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		20	1	00-7F	EQ BASS GAIN	-12...+12[dB]	40	X	X	X					O					X	X	X
		21	1	00-7F	EQ TREBLE GAIN	-12...+12[dB]	40	X	X	X					O					X	X	X
		22	1		NOT USED		-	-	-	-					-					-	-	-
		23	1		NOT USED		-	-	-	-					-					-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	X	X	X					O					X	X	X
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	X	X	X					O					X	X	X
		26	1		NOT USED		-	-	-	-					-					-	-	-
		27	1		NOT USED		-	-	-	-					-					-	-	-
		28	1		NOT USED		-	-	-	-					-					-	-	-
		29	1		NOT USED		-	-	-	-					-					-	-	-
		2A	1		NOT USED		-	-	-	-					-					-	-	-
		2B	1		NOT USED		-	-	-	-					-					-	-	-
		2C	1		NOT USED		-	-	-	-					-					-	-	-
		2D	1		NOT USED		-	-	-	-					-					-	-	-

TOTAL SIZE 0E

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

In the following cases, the instrument will initialize all Drum Setups.
- XG SYSTEM ON received
- GM SYSTEM ON received
- GM LEVEL2 SYSTEM ON received
- GS RESET received
- DRUM SETUP RESET received (only when in XG mode)

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

SYSTEM EXCLUSIVE MESSAGES (1)

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

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 (Universal Real Time Messages)

MIDI Event	Data Format	[MIDI] Voice		MIDI Reception					MIDI Transmission					[Song Creator] PLAY		REC
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
Master Volume [GM2]	F0 7F XN 04 01 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 0sssssss SS = Volume LSB 0ttttttt TT = Volume MSB 11110111 F7 = End of Exclusive	O	X	O (Available for extra parts of a song)					O					O	O	X
Master Fine Tuning [GM2]	F0 7F XN 04 03 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000011 03 = Sub-ID #2=Master Fine Tuning 0sssssss SS = Fine Tuning LSB 0ttttttt TT = Fine Tuning MSB 11110111 F7 = End of Exclusive	O	X	O (Available for extra parts of a song)					O					O	X	X
Master Coase Tuning [GM2]	F0 7F XN 04 04 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000100 04 = Sub-ID #2=Master Coarse Tuning 00000000 00 0ttttttt TT = Coarse Tuning MSB 11110111 F7 = End of Exclusive	O	X	O (Available for extra parts of a song)					O					O	X	X
Reverb Parameter [GM2]	F0 7F XN 04 05 01 01 01 01 01 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000101 05 = Sub-ID #2=Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 00000001 01 = Slot path LSB = 1 (Reverb) 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. : : 11110111 F7 = End of Exclusive Parameter(pp) Value(vv) Display pp=0 Reverb Type 0...8 0:RoomS, 1:RoomM, 2:RoomL, 3:HallM, 4:HallL(default), 8:GM Plate pp=1 Reverb Time 0...127 0...11.0s	O	O	O					O					O	O	X
Chorus Parameter [GM2]	F0 7F XN 04 05 01 01 01 01 02 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000101 05 = Sub-ID #2=Global Parameter Control 00000001 01 = Slot path length = 1 00000001 01 = Parameter ID width = 1 00000001 01 = Value width = 1 00000001 01 = Slot path MSB = 1 00000010 02 = Slot path LSB = 2 (Chorus) 0ppppppp PP = Parameter to be controlled. 0vvvvvvv VV = Value for the Parameter. : : 11110111 F7 = End of Exclusive Parameter(pp) Value(vv) Display pp=0 Chorus Type 0...5 0:GM Chorus1, 1:GM Chorus2, 2:GM Chorus3 (default), 3:GM Chorus4, 4:FB Chorus, 5:GM Flanger pp=1 Mod Rate 0...127 0...15.5Hz pp=2 Mod Depth 0...127 pp=3 Feedback 0...127 pp=4 Send to Reverb 0...127	O	O	O					O					O	O	X

		[MIDI]												[Song Creator]		
MIDI Event	**Data Format**	**Voice**		**MIDI Reception**					**MIDI Transmission**					**PLAY**		**REC**
		Regular/ Drum/ Organ Voice	**Mic/Vocal Harmony**	**Song**	**Right1 Right2 Right3 Left**	**Keyboard**	**Style**	**Extra**	**Right1 Right2 Right3 Left**	**M.Pad**	**Style**	**Song**	**Upper Lower**	**PLAY**	**REW**	**From panel operations**
Channel Pressure (Aftertouch) [GM2]	F0 7F XN 09 01 0M PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=Controller Destination Setting 00000001 01 = Sub-ID #2=Controller Type:01(Channel Pressure) 0000mmmm 0M = MIDI Channel (00-0F) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Data : : 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. 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	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Controller (Control Change) [GM2]	F0 7F XN 09 03 0M CC PP RR ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=Controller Destination Setting 00000011 03 = Sub-ID #2=Controller Type:03(Control Change) 0000mmmm 0M = MIDI Channel (00-0F) 0ccccccc CC = Controller Number (01H-1FH, 40H-5FH) 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. 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	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Key-Based Instrument Control [GM2]	F0 7F XN 0A 01 0M KK CC VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001010 0A = Sub-ID #1=Key-Based Instrument Control 00000001 01 = Sub-ID #2=Controller 0000mmmm 0M = MIDI Channel (00-0F) 0kkkkkkk KK = Key Number 0ccccccc CC = Controller Number 0vvvvvvv VV = Value : : 11110111 F7 = End of Exclusive Make sure to set both the controlled number and the value. Control Number(CC) Value(VV) Description Default Value CC=07H Volume 00H-7FH -100...0...+100% 40H CC=0AH Pan 00H-7FH (absolute) L63...C...R63 (Preset value) CC=5BH Reverb Send Level 00H-7FH (absolute) 0...Max (Preset value) CC=5DH Chorus Send Level 00H-7FH (absolute) 0...Max (Preset value)	O (Drum Only)	X	O	X	X	X	X	X	X	X	O	X	O	X	X

System Exclusive Messages (Universal Non-Real Time Messages)

		[MIDI]												[Song Creator]		
MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
GM1 System On [GM1] [GM2]	F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn 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 (Available for extra parts of a song)					O					O	X	O
GM2 System On [GM2]	F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000011 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive	O	-	O (Available for extra parts of a song)					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 0xxxnnnn 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 (Available for extra parts of a song)					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 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 1byte form 0jjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte2 - bits0 to 6 = channel 8 to 14 0mmmmmmm MM= Channel byte2 - bits0 to 6 = channel 1 to 7 0sssssss SS = 12byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent : : 11110111 F7 = End of Exclusive	O	X	O (Available for song parts)					O					O	X	X

SYSTEM EXCLUSIVE MESSAGES (2)

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

System Exclusive Messages (Style)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
Section Control	F0 43 7E 00 ss dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No. 00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D 0ddddddd dd = Switch On/Off 00H(Off) 7FH(On) 11110111 F7 = End of Exclusive	-	-			O					●		
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111 F7 = End of Exclusive	-	-			O					●		
Chord Control	F0 43 7E tt d1 d2 d3 d4 F7 Type1 (tt=02) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddddd d1 = chord root(cr) 0ddddddd d2 = chord type(ct) 0ddddddd d3 = bass note(bn) 0ddddddd d4 = bass type(bt) 11110111 F7 = End of Exclusive cr : Chord Root 0fffnnnn fff: b or #, nnnn: note(root) 0000nnnn 0n bbb / 0001nnnn 1n bb / 0010nnnn 2n b / 0011nnnn 3n natural / 0100nnnn 4n # / 0101nnnn 5n ## / 0110nnnn 6n ### 0fff0000 x0 reserved / 0fff0001 x1 C / 0fff0010 x2 D / 0fff0011 x3 E / 0fff0100 x4 F / 0fff0101 x5 G / 0fff0110 x6 A / 0fff0111 x7 B ct : Chord Type 0 - 34,127 00000000 00 0 Maj / 00000001 01 1 Maj6 / 00000010 02 2 Maj7 / 00000011 03 3 Maj7(#11) / 00000100 04 4 Maj(9) / 00000101 05 5 Maj7(9) / 00000110 06 6 Maj6(9) / 00000111 07 7 aug / 00001000 08 8 min / 00001001 09 9 min6 / 00001010 0A 10 min7 / 00001011 0B 11 min7b5 / 00001100 0C 12 min(9) / 00001101 0D 13 min7(9) / 00001110 0E 14 min7(11) / 00001111 0F 15 minMaj7 / 00010000 10 16 minMaj7(9) / 00010001 11 17 dim 00010010 12 18 dim7 / 00010011 13 19 7th / 00010100 14 20 7sus4 / 00010101 15 21 7b5 / 00010110 16 22 7(9) / 00010111 17 23 7(#11) / 00011000 18 24 7(13) / 00011001 19 25 7(b9) / 00011010 1A 26 7(b13) / 00011011 1B 27 7(#9) / 00011100 1C 28 Maj7aug / 00011101 1D 29 7aug / 00011110 1E 30 1+8 / 00011111 1F 31 1+5 / 00100000 20 32 sus4 / 00100001 21 33 1+2+5 / 00100010 22 34 cc bn : On Bass Note — Same as Chord root; 127:No bass chord bt : Bass Chord — Same as Chord type; 127:No bass chord * Not received when Receive Chord System Exclusive Message Parameters is set to off. * Not transmitted when Transmit Chord System Exclusive Message Parameters is set to off.	-	-			O					●		
	Type2 (tt=03) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddddd dd = note1 0ddddddd dd = note2 0ddddddd dd = note3 : : 0ddddddd dd = note10 11110111 F7 = End of Exclusive	-	-			O					X		

● : Transmitted via panel operations O : Available

System Exclusive Messages (XG)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 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 recieve) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.		O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
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 recieve) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 0ddddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	* Refer to XG Parameter Change Table.		O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
XG Prameter 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 recieve) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				
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 recieve) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	O * Refer to XG Parameter Change Table.					O * Refer to XG Parameter Change Table.				

System Exclusive Messages (Hard Disk Recorder Control)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
Hard Disk Recorder Control	F0 43 73 01 50 19 00 00 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Tyros ID 00000001 01 = Model ID 01010000 50 = SubID 00011001 19 = SubID (Hard Disk Recorder Control) 00000000 00 = SubID 00000000 00 = SubID (Start/Stop Control) 0ddddddd dd = data dd=00H:Start, 01H:Stop, 02H:Pause 11110111 F7 = End of Exclusive Controls start/stop of the audio song, but this is not synchronized with the MIDI song.	X	X	O					X	X	X	O	X

System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
Vocal Harmony Pitch to Note ON/OFF	F0 43 73 01 11 0n 50 00 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Tyros ID 00000001 01 = Model ID 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000000 00 = Pitch to Note Parameter No. 0ddddddd dd = data (00H : Off, 01H : On) 11110111 F7 = End of Exclusive	X	O			O					●		
Vocal Harmony Pitch to Note Part	F0 43 73 01 11 0n 50 01 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Tyros ID 00000001 01 = Model ID 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00000001 01 = Pitch to Note Part Parameter No. 0ddddddd dd = data 00H : Right1 01H : Right2 02H : Left 03H : (not used) 04H : Upper 11110111 F7 = End of Exclusive	X	O			O					●		
Vocal Harmony Vocoder Part (Harmony Part(Panel))	F0 43 73 01 11 0n 50 10 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Tyros ID 00000001 01 = Model ID 00010001 11 = Special Operators 0000nnnn 0n = Channel No. (Always 00) 01010000 50 = Vocal Harmony Additional Parameter Control No. 00010000 10 = Vocoder Part Parameter No. 0ddddddd dd = data 00H : Off 01H : Upper 02H : Lower 11110111 F7 = End of Exclusive	X	O			O					●		

● : Transmitted via panel operations O : Available

System Exclusive Messages (Others)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
Internal Clock (Clavinova compliance)	F0 43 73 01 02 F7 00000001 01 = Model ID 00000010 02 = Internal Clock Substatus	-	-			O					X		
External Clock (Clavinova compliance)	F0 43 73 01 03 F7 00000001 01 = Model ID 00000011 03 = External Clock Substatus	-	-			O					X		
Organ Flutes data Bulk Dump (Clavinova compliance)	F0 43 73 01 06 0B 00 00 01 06 0n [Bulk Data] sum F7 01H Model ID 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H,00H,01H,06H Data Length :16bytes 1st Channel No. 0nH 2nd Footage [1'] 00 - 08H 3rd [1 1/3'] 00 - 08H 4th [1 3/5'] 00 - 08H 5th [2'] 00 - 08H 6th [2 2/3'] 00 - 08H 7th [4'] 00 - 08H 8th [5 1/3'] 00 - 08H 9th [8'] 00 - 08H 10th [16'] 00 - 08H 11th [Attack 2'] 00 - 08H 12th [Attack 2 2/3'] 00 - 08H 13th [Attack 4'] 00 - 08H 14th Settings [Attack Length] 00 - 08H 15th [Response] 00 - 08H 16th [Attack Mode] 00 - 01H 00H: Each, 01H: First 17th [Wave Variation] 00 - 01H 00H: Sine, 01H: Vintage 18th [Volume] 01 - 09H 19th [aux] 00H 20th [aux] 00H 21th [aux] 00H 22th [aux] 00H sum Check Sum = 0-sum(BULK DATA)	O (Organ Flute)	X	O	O	X	X	O	●	X	X	O	X
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			O					X		

● : Transmitted via panel operations O : Available

Data Format	Parameter	Description	Note
FF 05 len [Data]	Lyrics	len=Data length, [Data]=Lyrics Data	-
FF 06 len [Data]	Marker	len=Data length, [Data]=Marker	Used as a Song Position Jump Marker.
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 from 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 the RIGHT1-3 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	Used when performing the Phrase Mark repeat playback.
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	Sets the TRACK1 and TRACK2 parameters on the [FUNCTION]-> [SONG SETTING] display. rr = RIGHT CH (0: OFF, 1-16CH) ll = LEFT CH (0: OFF, 1-16CH)	Entered when recording.
FF 7F len 43 7B 21 00 pp [Data]	Lyrics Bitmap	Specifies the background picture of the Lyrics display. pp=Display type (0: Center, 1: Tile) [Data]=File Path	Entered to the song from the [SONG CREATOR]->CHANNEL ->SETUP display.

Data Format	Parameter	Description	Note

Guide

F0 43 73 01 1F 00 cc dd F7	Guide Mode	ccH = Part Select No 00H (RIGHT CH=ON, LEFT CH=ON) 01H (RIGHT CH=OFF, LEFT CH=ON) 02H (RIGHT CH=ON, LEFT CH=OFF) 03H (RIGHT CH=OFF, LEFT CH=OFF) ddH = Mode 00H=Guide OFF 01H=Follow Lights 02H=Any Key 03H=Karao-Key 04H=Vocal CueTIME	Entered to the song from the [SONG CREATOR]->CHANNEL->SETUP display.

Score

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

Style

F0 43 73 01 51 00 00 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 No.	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.

Hard Disk Recorder

F0 43 73 01 50 19 00 00 dd F7	Hard Disk Recorder Control	Controls start/pause/stop of the audio song, but this is not synchronized with the MIDI song. 00H:Start, 01H:Stop.02H:Pause	Edited from the [SONG CREATOR]->SYS->EX display.

YAMAHA [Digital Workstation] Date:17-Apr-2008
Model TYROS3 MIDI Implementation Chart Version : 1.0

Function...	Transmitted	Recognized	Remarks
Basic Default	1 - 16	1 - 16	
Channel Changed	1 - 16	1 - 16	
Default	3	3	
Mode Messages	x	x	
Altered	**********	x	
Note	0 - 127	0 - 127	
Number : True voice	**********	0 - 127	
Velocity Note ON	o 9nH,v=1-127	o 9nH,v=1-127	
Note OFF	x 9nH,v=0	x	
After Key's	x	o	
Touch Ch's	o	o	
Pitch Bend	o	o 0-24 semi	
0,32	o	o	Bank Select
1,5,7,10,11	o	o	
6,38	o	o	Data Entry
64,65,66,67	o	o	
Control 71,72,73,74	o	o	Sound Controller
Change 80,81	o	o	
84	o	o	Portamento Cntrl
91,93,94	o	o	Effect Depth
96,97	x	o	RPN Inc,Dec
98,99	o	o	NRPN LSB,MSB
100,101	o	o	RPN LSB,MSB
Prog	o 0 - 127	o 0 - 127	
Change : True #	**********		
System Exclusive	o	o	
: Song Pos.	x	x	
Common : Song Sel.	x	x	
: Tune	x	x	
System :Clock	o	o	
Real Time:Commands	o	o	
Aux :All Sound OFF	x	o(120,126,127)	
:Reset All Cntrls	x	o(121)	
:Local ON/OFF	x	o(122)	
:All Notes OFF	x	o(123-125)	
Mes- :Active Sense	o	o	
sages:Reset	x	x	
Notes:			

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