YAMAHA

DIGITAL WORKSTATION

Tyros

Data List

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Panel Voice

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
PIANO	GrandPiano	0	113	0	Live!
	BrightPiano	0	112	1	-
	Harpsichord	0	112	6	-
	GrandHarpsi	0	113	6	-
	HonkyTonk	0	112	3	-
	WarmGrand	0	114	0	Live!
	BalladStack	0	114	2	-
	MidiGrand	0	112	2	-
	Oct.Piano1	0	113	3	-
	Oct.Piano2	0	114	3	-
	CP80	0	113	2	-
E.PIANO	GalaxyEP	0	114	4	Cool!
	StageEP	0	117	4	-
	PolarisEP	0	115	4	-
	JazzChorus	0	118	5	-
	HyperTines	0	113	5	-
	E.Piano	0	119	4	Cool!
	PhaseEP	0	120	4	-
	NewTines	0	116	5	-
	FunkEP	0	112	4	-
	DX Modern	0	112	5	-
	SmoothTine	0	119	5	-
	ChorusBell	0	120	5	-
	VintageEP	0	116	4	-
	VenusEP	0	114	5	-
	ModernEP	0	115	5	-
	TremoloEP	0	113	4	-
	SuperDX	0	117	5	-
	SuitcaseEP	0	118	4	-
	StereoClavi	0	114	7	-
	PhaseClavi	0	115	7	-
	Clavi	0	112	7	-
	WahClavi	0	113	7	-
ORGAN	Organ	0	118	18	Cool!
	JazzOrgan	0	117	16	Cool!
	RotorOrgan	0	117	18	Cool!
	FullRocker	0	115	18	Cool!
	StadiumOrg	0	118	16	-
	RotaryDrive	0	116	18	-
	PercOrg	0	119	17	-
	RockOrgan1	0	112	18	-
	DanceOrgan	0	113	17	-
	GospelOrg	0	119	16	-
	DrawbarOrg1	0	120	17	-
	JazzOrgan1	0	112	16	-
	RockOrgan2	0	119	18	-
	PurpleOrg	0	114	18	-
	Elec.Organ	0	118	17	-
	DrawbarOrg2	0	115	16	-
	JazzOrgan2	0	113	16	-
	RockOrgan3	0	113	18	-
	ClickOrgan	0	112	17	-
	MellowDraw	0	115	17	-
	BrightDraw	0	116	16	-
	60'sOrgan	0	116	17	-
	JazzOrgan3	0	120	16	-
	Tibia 16+4	0	114	16	-
	Tibia Full	0	114	17	-
	Tibia 8+4	0	122	16	-
	Tibia 8	0	122	17	-
	Kinura 8	0	123	16	-
	Vox 8	0	123	17	-
	Thtr Trp8	0	124	16	-
	Thtr Trp16+8	0	124	17	-
	Tibia+Vox	0	125	16	-
	Trp+Kinura	0	125	17	-
	ChapelOrgn1	0	113	19	-
	ChapelOrgn2	0	114	19	-
	ChapelOrgn3	0	115	19	-
	PipeOrgan	0	112	19	-
	ReedOrgan	0	112	20	-
STRINGS	Strings	0	117	49	Live!
	Allegro	0	122	49	Live!
	Orchestra	0	116	49	Live!
	Symphon.Str	0	114	48	-
	OberStrings	0	113	51	-
	Violin	0	113	40	Sweet!
	Orch.Horns	0	118	49	-
	Orch.Flute	0	119	49	-
	Orch.Oboe	0	121	49	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
	Tutti	0	120	49	-
	Strings	0	112	48	-
	OrchStrings	0	113	48	-
	Str.Quartet	0	114	49	-
	ConcertoStr	0	115	48	-
	AnalogStrs	0	112	51	-
	ChamberStrs	0	112	49	-
	BowStrings	0	116	48	-
	SlowStrings	0	113	49	-
	TremoloStrs	0	112	44	-
	MarcatoStrs	0	115	49	-
	SynStrings1	0	112	50	-
	SynStrings2	0	113	50	-
	PizzStrings	0	112	45	-
	Viola	0	112	41	-
	Cello	0	112	42	-
	Contrabass	0	112	43	-
	Harp	0	112	46	-
	Hackbrett	0	113	46	-
	Fiddle	0	112	110	-
	Banjo	0	112	105	-
	Sitar	0	112	104	-
	Koto	0	112	107	-
	Shamisen	0	112	106	-
	SoloViolin	0	112	40	-
	Orch.Hit	0	112	55	-
CHOIR	Gospel	0	116	52	Live!
	Humm	0	118	52	Live!
	HahChoir	0	114	52	-
	SweetHeaven	0	118	88	-
	DreamHeaven	0	121	88	-
	Mmh	0	117	52	Live!
	GothicVox	0	113	53	-
	Sunbeam	0	123	88	-
	BellHeaven	0	119	88	-
	PanHeaven	0	120	88	-
	ProHeaven	0	122	88	-
	Choir	0	112	52	-
	AirChoir	0	112	54	-
	VoxHumana	0	112	53	-
	Voices	0	113	54	-
	UuhChoir	0	115	52	-
BRASS	HyperBrass	0	118	62	Live!
	PopBrass	0	117	62	Live!
	OctaveBrass	0	116	62	Live!
	FrenchHorns	0	112	60	Live!
	Symphon.Hrns	0	115	60	Live!
	BrassCombo	0	115	66	-
	BrassSection	0	112	61	-
	BreathBrass	0	116	60	-
	HybridComp	0	119	62	-
	NaturalBrass	0	124	61	-
	Sforzando	0	125	61	-
	BigBrass	0	121	61	-
	BallroomBrs	0	113	59	-
	BrightBrass	0	120	61	-
	MellowBrass	0	116	61	-
	Hybrihorn	0	113	60	-
	Hybripad	0	114	60	-
	SoftVeloBrs	0	120	62	-
	80'sBrass	0	113	62	-
	SoftBrass	0	123	61	-
	FullHorns	0	114	61	-
	SmoothTromb	0	118	57	-
	HighBrass	0	115	61	-
	OberBrass	0	113	63	-
	TrumpetEns	0	122	61	-
	MellowHorns	0	119	61	-
	BigBandBrs	0	113	61	-
	PopBrass	0	118	61	-
	BrassHit	0	126	61	-
	AnalogBrs	0	112	63	-
	Trb.Section	0	113	57	-
	SmallBrass	0	117	61	-
	SoftAnalog	0	114	63	-
	FunkyAnalog	0	115	62	-
	TechnoBrass	0	114	62	-
	SynthBrass	0	112	62	-
	OberHorns	0	115	63	-
	FatSynBrass	0	116	63	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
TRUMPET	Trumpet	0	115	56	Sweet!
	Trombone	0	117	57	Sweet!
	MutedTrump	0	114	59	Sweet!
	FlugelHorn	0	118	56	Sweet!
	JazzTrumpet	0	116	56	-
	SoloTrumpet	0	112	56	-
	Trombone	0	116	57	-
	SoloTromb	0	112	57	-
	SoftTromb	0	115	57	-
	MellowTromb	0	114	57	-
	MutedTrump	0	112	59	-
	BaritonHorn	0	113	58	-
	BaritonHit	0	114	58	-
	AlpBass	0	113	33	-
	FlugelHorn	0	113	56	-
	Tuba	0	112	58	-
SAXOPHONE	TenorSax	0	117	66	Sweet!
	AltoSax	0	114	65	Sweet!
	SopranoSax	0	113	64	Sweet!
	GrowlSax	0	118	66	-
	BaritoneSax	0	112	67	-
	SaxSection	0	116	66	Live!
	Saxappeal	0	123	66	-
	MoonLight	0	115	71	-
	BalladBrass	0	119	66	-
	SaxyMood	0	120	66	-
	SopranoSax	0	112	64	-
	TenorSax	0	112	66	-
	AltoSax	0	112	65	-
	SaxStack	0	124	66	-
	SaxSection Soft	0	121	66	Live!
	SaxSection Hard	0	122	66	Live!
	WoodwindEns	0	113	66	-
FLUTE&CLARINET	Flute	0	114	73	Sweet!
	Clarinet	0	114	71	Sweet!
	PanFlute	0	113	75	Sweet!
	Oboe	0	113	68	Sweet!
	FluteEns	0	116	73	-
	EnglishHorn	0	112	69	-
	Bassoon	0	112	70	-
	Class.Flute	0	115	73	-
	Piccolo	0	112	72	-
	EthnicFlute	0	112	75	-
	Shakuhachi	0	112	77	-
	Clarinet	0	112	71	-
	Flute	0	112	73	-
	PanFlute	0	113	73	-
	Oboe	0	112	68	-
	Whistle	0	112	78	-
	Recorder	0	112	74	-
	Ocarina	0	112	79	-
	Bagpipe	0	112	109	-
GUITAR	NylonGuitar	0	116	24	Live!
	JazzGuitar	0	115	26	Cool!
	Elec.Gtr	0	114	28	Cool!
	SteelGuitar	0	117	25	Live!
	DynoSteel1	0	118	25	Live!
	Mandolin	0	114	25	Sweet!
	FunkGuitar	0	116	28	Cool!
	Stratsphere	0	117	28	Cool!
	VintageLead	0	125	27	Cool!
	PowerLead	0	115	30	Cool!
	BluesGuitar	0	117	29	Cool!
	RockGuitar	0	116	29	-
	VintageStrum	0	126	27	-
	12StrGuitar	0	113	25	Live!
	DynoSteel2	0	116	25	Live!
	CleanGuitar	0	112	27	Cool!
	VodooLead	0	116	30	-
	PowerChord	0	117	30	-
	CampfireGtr	0	115	25	-
	SolidGuitar	0	118	27	-
	VintageAmp	0	115	29	-
	AlohaGtr	0	118	26	-
	CrunchGtr	0	113	30	-
	SmoothLead	0	119	26	-
	60'sClean	0	117	27	-
	ClassicGtr	0	115	24	Live!
	JazzSolGtr	0	116	26	Cool!
	VintageOpen	0	123	27	-
	FolkGuitar	0	112	25	-
	SolidChord	0	121	27	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
	VintageMute	0	115	28	-
	PedalSteel	0	115	27	-
	LeadGuitar	0	114	29	-
	ChorusGtr	0	124	27	-
	VintageTrem	0	120	27	-
	OctaveGtr	0	113	26	-
	DeepChorus	0	114	27	-
	TremoloGtr	0	113	27	-
	HeavyStack	0	114	30	-
	BrightClean	0	116	27	-
	WahGuitar	0	122	27	-
	DX JazzGtr	0	117	26	-
	Distortion	0	112	30	-
	Elec.12Str	0	119	27	-
	FeedbackGtr	0	113	29	-
	18String	0	119	25	-
	MutedGuitar	0	112	28	-
	FunkGuitar	0	113	28	-
	Overdrive	0	112	29	-
	SteelGuitar	8	0	1	MegaVoice
	HiStringGtr	8	0	2	MegaVoice
	12StrGuitar	8	1	2	MegaVoice
	CleanGuitar	8	0	3	MegaVoice
	Overdrive	8	0	4	MegaVoice
	Distortion	8	0	5	MegaVoice
BASS	FingerBass	0	114	33	Cool!
	Aco.Bass	0	112	32	-
	DynoPickBass	0	113	34	Cool!
	Fretless	0	112	35	Cool!
	SlapBass	0	112	36	-
	SubBass	0	114	39	-
	HardBass	0	114	38	-
	ResoBass	0	112	38	-
	HouseBass	0	116	38	-
	BigDrone	0	118	38	-
	RockBass	0	114	34	-
	SuperFretles	0	113	35	-
	PickBass	0	112	34	-
	FusionBass	0	113	36	-
	Bass&Cymbal	0	114	32	-
	AnalogBass	0	112	39	-
	DX FunkBass	0	113	37	-
	DrySynBass	0	116	39	-
	80'sSynBass	0	115	39	-
	HiQBass	0	113	38	-
	FunkBass	0	112	37	-
	MellowFinger	0	112	33	-
	ClickBass	0	115	38	-
	PunchyBass	0	117	38	-
	TB Bass	0	117	39	-
	Aco.Bass	8	0	16	MegaVoice
	FingerBass	8	0	17	MegaVoice
	PickBass	8	0	18	MegaVoice
	Fretless	8	0	19	MegaVoice
PERC&DRUM	Vibraphone	0	112	11	-
	JazzVibes	0	113	11	-
	Suspense	0	114	11	-
	Marimba	0	112	12	-
	Xylophone	0	112	13	-
	SteelDrums	0	112	114	-
	Celesta	0	112	8	-
	Glocken	0	112	9	-
	MusicBox	0	112	10	-
	TubularBell	0	112	14	-
	Kalimba	0	112	108	-
	Dulcimer	0	112	15	-
	Timpani	0	112	47	-
	StandardKit1	127	0	0	Drums
	StandardKit2	127	0	1	Drums
	JazzKit	127	0	32	Drums
	BrushKit	127	0	40	Drums
	HitKit	127	0	4	Drums
	RoomKit	127	0	8	Drums
	RockKit	127	0	16	Drums
	ElectroKit	127	0	24	Drums
	AnalogKit	127	0	25	Drums
	DanceKit	127	0	27	Drums
	SymphonyKit	127	0	48	Drums
	CubanKit	126	0	40	Live!SFX
	PopLatinKit	126	0	43	Live!SFX
	ArabicKit	126	0	35	SFX Kit
	SFXKit1	126	0	0	SFX Kit

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
	SFXKit2	126	0	1	SFX Kit
	Std.Kit+P	127	0	83	Live!Drums
	FunkKit+P	127	0	84	Live!Drums
	BrushKit+P	127	0	85	Live!Drums
	StudioKit	127	0	86	Live!Drums
	StandardKit	127	0	80	Live!Drums
	FunkKit	127	0	81	Live!Drums
	BrushKit	127	0	82	Live!Drums
	StyStd.Kit+P	127	0	125	Live!Drums
	StyFunkKt+P	127	0	126	Live!Drums
	StyStd.Kit	127	0	123	Live!Drums
	StyFunkKit	127	0	124	Live!Drums
ACCORDION	Musette	0	112	21	-
	TuttiAccrd	0	113	21	-
	SmallAccrd	0	115	21	-
	Accordion	0	116	21	-
	TangoAccrd	0	112	23	-
	Steirisch	0	117	21	-
	Bandoneon	0	113	23	-
	SoftAccrd	0	114	21	-
	Harmonica	0	112	22	Sweet!
	ModernHarp	0	113	22	-
	BluesHarp	0	114	22	-
PAD	Insomnia	0	113	94	-
	Skydiver	0	112	101	-
	Bubblespace	0	113	101	-
	HipaStrPad	0	114	95	-
	MellowPad	0	117	95	-
	Mediterrain	0	114	99	-
	NeoWarmPad	0	115	89	-
	CyberPad	0	113	99	-
	OberSweep	0	115	95	-
	Messenger	0	116	95	-
	Wave2001	0	112	95	-
	FarEast	0	112	97	-
	Disclosure	0	116	89	-
	BrightOber	0	113	95	-
	DarkPad	0	118	95	-
	Mystery	0	113	97	-
	Sirius	0	114	101	-
	S&H Groove	0	115	101	-
	Velo.Ashrami	0	116	101	-
	EveningStars	0	117	101	-
	AngelVibes	0	114	98	-
	Atmosphere	0	112	99	-
	XenonPad	0	112	91	-
	Equinox	0	112	94	-
	GlassPad	0	114	93	-
	Fantasia	0	112	88	-
	DX Pad	0	112	92	-
	Symbiont	0	113	88	-
	Stargate	0	114	88	-
	Area51	0	112	89	-
	DarkMoon	0	113	89	-
	Ionosphere	0	115	94	-
	GoldenAge	0	115	88	-
	Solaris	0	114	94	-
	TimeTravel	0	116	88	-
	Millennium	0	117	88	-
	Dunes	0	114	89	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
SYNTH	Oxygen	0	122	81	-
	Matrix	0	123	81	-
	WireLead	0	120	81	-
	HipLead	0	113	80	-
	HopLead	0	117	80	-
	DanceHook	0	112	86	-
	TechLead	0	117	84	-
	Tekkline	0	116	84	-
	SoftMini	0	124	80	-
	OctaveHook	0	113	86	-
	TranceLead	0	121	80	-
	FireWire	0	116	81	-
	Analogon	0	115	81	-
	Blaster	0	114	81	-
	Skyline	0	115	84	-
	SquareLead	0	112	80	-
	Saw.Lead	0	112	81	-
	PopLead	0	120	80	-
	ProLead	0	113	83	-
	BrightMini	0	125	80	-
	TinyLead	0	118	80	-
	FunkyLead	0	121	81	-
	Paraglide	0	114	84	-
	Robolead	0	124	81	-
	Fargo	0	119	81	-
	Portatone	0	112	84	-
	BigLead	0	113	81	-
	Warp	0	117	81	-
	Adrenaline	0	113	84	-
	Stardust	0	112	98	-
	AeroLead	0	112	83	-
	MiniLead	0	114	80	-
	Impact	0	113	87	-
	SunBell	0	113	98	-
	UnderHeim	0	112	87	-
	HiBias	0	116	80	-
	Vinylead	0	115	80	-
	PanLead	0	122	80	-
	Stringbells	0	124	88	-
	CrystalEyes	0	125	88	-
	Padbells	0	126	88	-
	MelodyMaker	0	117	89	-
	BigTune	0	118	89	-
	TrumpetSaw	0	125	81	-
	AttackSaw	0	126	81	-
	PercSquare	0	123	80	-
ORGAN FLUTES	JazzDraw!	0	126	16	Organ Flutes
	BluesOrgan!	0	126	16	Organ Flutes
	SixteenOne!	0	126	16	Organ Flutes
	EvenBars!	0	126	16	Organ Flutes
	PopOrgan!	0	126	16	Organ Flutes
	RockingOrg!	0	126	16	Organ Flutes
	Percussive!	0	126	16	Organ Flutes
	GospelOrg!	0	126	16	Organ Flutes
	PadOrgan!	0	126	16	Organ Flutes
	FullRanks!	0	126	16	Organ Flutes

GM & XG Voice

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
PIANO	GrandPiano	0	0	0	-
	GrndPianoKSP	0	1	0	-
	MellowGrPno	0	18	0	-
	PianoStrings	0	40	0	-
	Dream	0	41	0	-
	BrightPiano	0	0	1	-
	BritePnoKSP	0	1	1	-
	ElecGrandPno	0	0	2	-
	ElecGrPnoKSP	0	1	2	-
	DetunedCP80	0	32	2	-
	LayeredCP1	0	40	2	-
	LayeredCP2	0	41	2	-
	Honkytonk	0	0	3	-
	HonkytonkKSP	0	1	3	-
	El.Piano1	0	0	4	-
	El.Piano1KSP	0	1	4	-
	MellowEP1	0	18	4	-
	ChorusEP1	0	32	4	-
	HardEl.Piano	0	40	4	-
	VXfadeEl.P1	0	45	4	-
	60'sEl.Piano1	0	64	4	-
	El.Piano2	0	0	5	-
	El.Piano2KSP	0	1	5	-
	ChorusEP2	0	32	5	-
	DXEPHard	0	33	5	-
	DXLegend	0	34	5	-
	DXPhaseEP	0	40	5	-
	DX+AnalogEP	0	41	5	-
	DXKotoEP	0	42	5	-
	VXfadeEl.P2	0	45	5	-
	Harpsichord	0	0	6	-
	Harpsi.KSP	0	1	6	-
	Harpsichord2	0	25	6	-
	Harpsichord3	0	35	6	-
	Clavi.	0	0	7	-
	Clavi.KSP	0	1	7	-
	Clavi.Wah	0	27	7	-
	PulseClavi.	0	64	7	-
	PierceClavi.	0	65	7	-
CHROMATIC PERC.	Celesta	0	0	8	-
	Glockenspiel	0	0	9	-
	MusicBox	0	0	10	-
	Orgel	0	64	10	-
	Vibraphone	0	0	11	-
	VibesKSP	0	1	11	-
	HardVibes	0	45	11	-
	Marimba	0	0	12	-
	MarimbaKSP	0	1	12	-
	SineMarimba	0	64	12	-
	Balimba	0	97	12	-
	LogDrums	0	98	12	-
	Xylophone	0	0	13	-
	TubularBells	0	0	14	-
	ChurchBells	0	96	14	-
	Carillon	0	97	14	-
	Dulcimer	0	0	15	-
	Dulcimer2	0	35	15	-
	Cimbalom	0	96	15	-
	Santur	0	97	15	-
ORGAN	DrawbarOrgan	0	0	16	-
	DetDrawOrgan	0	32	16	-
	60'sDrawOrg1	0	33	16	-
	60'sDrawOrg2	0	34	16	-
	70'sDrawOrg1	0	35	16	-
	DrawbarOrg2	0	36	16	-
	60'sDrawOrg3	0	37	16	-
	EvenBarOrg	0	38	16	-
	16+2'2_3Org	0	40	16	-
	OrganBass	0	64	16	-
	70'sDrawOrg2	0	65	16	-
	CheezyOrgan	0	66	16	-
	DrawbarOrg3	0	67	16	-
	Perc.Organ	0	0	17	-
	70'sPercOrg1	0	24	17	-
	DetPercOrgan	0	32	17	-
	LightOrgan	0	33	17	-
	Perc.Organ2	0	37	17	-
	RockOrgan	0	0	18	-
	RotaryOrgan	0	64	18	-
	SlowRotary	0	65	18	-
	FastRotary	0	66	18	-
	ChurchOrgan	0	0	19	-
	ChurchOrgan3	0	32	19	-
	ChurchOrgan2	0	35	19	-
	NotreDame	0	40	19	-
	OrganFlute	0	64	19	-
	Trem.OrganFl	0	65	19	-
	ReedOrgan	0	0	20	-
	PuffOrgan	0	40	20	-
	Accordion	0	0	21	-
	AccordIt	0	32	21	-
	Harmonica	0	0	22	-
	Harmonica2	0	32	22	-
	TangoAccord	0	0	23	-
	TangoAccord2	0	64	23	-
GUITAR	NylonGuitar	0	0	24	-
	NylonGuitar2	0	16	24	-
	NylonGuitar3	0	25	24	-
	VelGtrHarmo	0	43	24	-
	Ukulele	0	96	24	-
	SteelGuitar	0	0	25	-
	SteelGuitar2	0	16	25	-
	12StrGuitar	0	35	25	-
	Nylon&Steel	0	40	25	-
	Steel&Body	0	41	25	-
	Mandolin	0	96	25	-
	JazzGuitar	0	0	26	-
	MellowGuitar	0	18	26	-
	JazzAmp	0	32	26	-
	CleanGuitar	0	0	27	-
	ChorusGuitar	0	32	27	-
	MutedGuitar	0	0	28	-
	FunkGuitar1	0	40	28	-
	MuteSteelGtr	0	41	28	-
	FunkGuitar2	0	43	28	-
	JazzMan	0	45	28	-
	Overdriven	0	0	29	-
	GuitarPinch	0	43	29	-
	Distortion	0	0	30	-
	FeedbackGtr	0	40	30	-
	FeedbackGtr2	0	41	30	-
	GtrHarmonics	0	0	31	-
	GtrFeedback	0	65	31	-
	GtrHarmonic2	0	66	31	-
BASS	AcousticBass	0	0	32	-
	JazzRhythm	0	40	32	-
	VXUprghtBass	0	45	32	-
	FingerBass	0	0	33	-
	FingerDark	0	18	33	-
	FlangeBass	0	27	33	-
	Bass&DistEG	0	40	33	-
	FingerSlap	0	43	33	-
	FingerBass2	0	45	33	-
	Mod.Bass	0	65	33	-
	PickBass	0	0	34	-
	MutePickBass	0	28	34	-
	FretlessBass	0	0	35	-
	Fretless2	0	32	35	-
	Fretless3	0	33	35	-
	Fretless4	0	34	35	-
	Syn.Fretless	0	96	35	-
	SmthFretless	0	97	35	-
	SlapBass1	0	0	36	-
	ResonantSlap	0	27	36	-
	PunchThumb	0	32	36	-
	SlapBass2	0	0	37	-
	Velo.Sw.Slap	0	43	37	-
	SynthBass1	0	0	38	-
	SynBass1Dark	0	18	38	-
	FastResoBass	0	20	38	-
	AcidBass	0	24	38	-
	ClaviBass	0	35	38	-
	TechnoBass	0	40	38	-
	Orbiter	0	64	38	-
	SquareBass	0	65	38	-
	RubberBass	0	66	38	-
	Hammer	0	96	38	-
	SynthBass2	0	0	39	-
	MellowSyBass	0	6	39	-
	SequenceBass	0	12	39	-
	ClickSynBass	0	18	39	-
	SynBass2Dark	0	19	39	-
	SmoothSyBass	0	32	39	-
	ModulrSyBass	0	40	39	-
	DXBass	0	41	39	-
	XWireBass	0	64	39	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
STRINGS	Violin	0	0	40	-
	SlwAtkViolin	0	8	40	-
	Viola	0	0	41	-
	Cello	0	0	42	-
	Contrabass	0	0	43	-
	Trem.Strings	0	0	44	-
	SlwAtTremStr	0	8	44	-
	SuspenseStr	0	40	44	-
	PizzicatoStr	0	0	45	-
	Orch.Harp	0	0	46	-
	YangChin	0	40	46	-
	Timpani	0	0	47	-
ENSEMBLE	Strings1	0	0	48	-
	StereoStrngs	0	3	48	-
	SlwAtkStrngs	0	8	48	-
	ArcoStrings	0	24	48	-
	60'sStrings	0	35	48	-
	Orchestra	0	40	48	-
	Orchestra2	0	41	48	-
	TremOrchstra	0	42	48	-
	Velo.Strings	0	45	48	-
	Strings2	0	0	49	-
	S.SlowStrngs	0	3	49	-
	LegatoStrngs	0	8	49	-
	WarmStrings	0	40	49	-
	Kingdom	0	41	49	-
	70'sStrings	0	64	49	-
	Strings3	0	65	49	-
	SynStrings1	0	0	50	-
	ResoStrings	0	27	50	-
	SynStrings4	0	64	50	-
	SynStrings5	0	65	50	-
	SynStrings2	0	0	51	-
	ChoirAahs	0	0	52	-
	StereoChoir	0	3	52	-
	ChoirAahs2	0	16	52	-
	MellowChoir	0	32	52	-
	ChoirStrings	0	40	52	-
	VoiceOohs	0	0	53	-
	SynthVoice	0	0	54	-
	SynthVoice2	0	40	54	-
	Choral	0	41	54	-
	AnalogVoice	0	64	54	-
	OrchestraHit	0	0	55	-
	OrchestrHit2	0	35	55	-
	Impact	0	64	55	-
BRASS	Trumpet	0	0	56	-
	Trumpet2	0	16	56	-
	BriteTrumpet	0	17	56	-
	WarmTrumpet	0	32	56	-
	Trombone	0	0	57	-
	Trombone2	0	18	57	-
	Tuba	0	0	58	-
	Tuba2	0	16	58	-
	MutedTrumpet	0	0	59	-
	FrenchHorn	0	0	60	-
	Fr.HornSolo	0	6	60	-
	FrenchHorn2	0	32	60	-
	HornOrchestr	0	37	60	-
	BrassSection	0	0	61	-
	Tp&TbSection	0	35	61	-
	BrassSect2	0	40	61	-
	HighBrass	0	41	61	-
	MellowBrass	0	42	61	-
	SynthBrass1	0	0	62	-
	QuackBrass	0	12	62	-
	ResoSynBrass	0	20	62	-
	PolyBrass	0	24	62	-
	SynthBrass3	0	27	62	-
	JumpBrass	0	32	62	-
	AnaVelBrass1	0	45	62	-
	AnalogBrass1	0	64	62	-
	SynthBrass2	0	0	63	-
	SoftBrass	0	18	63	-
	SynthBrass4	0	40	63	-
	ChoirBrass	0	41	63	-
	AnaVelBrass2	0	45	63	-
	AnalogBrass2	0	64	63	-
REED	SopranoSax	0	0	64	-
	AltoSax	0	0	65	-
	SaxSection	0	40	65	-
	HyperAltoSax	0	43	65	-
	TenorSax	0	0	66	-
	BreathyTenor	0	40	66	-
	SoftTenorSax	0	41	66	-
	TenorSax2	0	64	66	-
	BaritoneSax	0	0	67	-
	Oboe	0	0	68	-
	EnglishHorn	0	0	69	-
	Bassoon	0	0	70	-
	Clarinet	0	0	71	-
PIPE	Piccolo	0	0	72	-
	Flute	0	0	73	-
	Recorder	0	0	74	-
	PanFlute	0	0	75	-
	BlownBottle	0	0	76	-
	Shakuhachi	0	0	77	-
	Whistle	0	0	78	-
	Ocarina	0	0	79	-
SYNTH LEAD	SquareLead	0	0	80	-
	SquareLead2	0	6	80	-
	LMSquare	0	8	80	-
	Hollow	0	18	80	-
	Shroud	0	19	80	-
	Mellow	0	64	80	-
	SoloSine	0	65	80	-
	SineLead	0	66	80	-
	SawtoothLead	0	0	81	-
	SawtoothLd2	0	6	81	-
	ThickSaw	0	8	81	-
	DynamicSaw	0	18	81	-
	DigitalSaw	0	19	81	-
	BigLead	0	20	81	-
	HeavySynth	0	24	81	-
	WaspySynth	0	25	81	-
	PulseSaw	0	40	81	-
	Dr.Lead	0	41	81	-
	VelocityLead	0	45	81	-
	Seq.Analog	0	96	81	-
	CalliopeLead	0	0	82	-
	PurePad	0	65	82	-
	ChiffLead	0	0	83	-
	Rubby	0	64	83	-
	CharangLead	0	0	84	-
	DistortedLd	0	64	84	-
	WireLead	0	65	84	-
	VoiceLead	0	0	85	-
	SynthAahs	0	24	85	-
	VoxLead	0	64	85	-
	FifthsLead	0	0	86	-
	BigFive	0	35	86	-
	Bass&Lead	0	0	87	-
	Big&Low	0	16	87	-
	Fat&Perky	0	64	87	-
	SoftWhirl	0	65	87	-
SYNTH PAD	NewAgePad	0	0	88	-
	Fantasy	0	64	88	-
	WarmPad	0	0	89	-
	ThickPad	0	16	89	-
	SoftPad	0	17	89	-
	SinePad	0	18	89	-
	HornPad	0	64	89	-
	RotaryStrngs	0	65	89	-
	PolySynthPad	0	0	90	-
	PolyPad80	0	64	90	-
	ClickPad	0	65	90	-
	AnalogPad	0	66	90	-
	SquarePad	0	67	90	-
	ChoirPad	0	0	91	-
	Heaven	0	64	91	-
	Itopia	0	66	91	-
	CCPad	0	67	91	-
	BowedPad	0	0	92	-
	Glacier	0	64	92	-
	GlassPad	0	65	92	-
	MetallicPad	0	0	93	-
	TinePad	0	64	93	-
	PanPad	0	65	93	-
	HaloPad	0	0	94	-
	SweepPad	0	0	95	-
	Shwimmer	0	20	95	-
	Converge	0	27	95	-
	PolarPad	0	64	95	-
	Celestial	0	66	95	-

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

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
PERCUSSIVE	TinkleBell	0	0	112	-
	Bonang	0	96	112	-
	Altair	0	97	112	-
	GamelanGongs	0	98	112	-
	StereoGamlan	0	99	112	-
	RamaCymbal	0	100	112	-
	AsianBells	0	101	112	-
	Agogo	0	0	113	-
	SteelDrums	0	0	114	-
	GlassPerc.	0	97	114	-
	ThaiBells	0	98	114	-
	Woodblock	0	0	115	-
	Castanets	0	96	115	-
	TaikoDrum	0	0	116	-
	GranCassa	0	96	116	-
	MelodicTom	0	0	117	-
	MelodicTom2	0	64	117	-
	RealTom	0	65	117	-
	RockTom	0	66	117	-
	SynthDrum	0	0	118	-
	AnalogTom	0	64	118	-
	ElectroPerc.	0	65	118	-
	Rev.Cymbal	0	0	119	-
SOUND EFFECTS	GtrFretNoise	0	0	120	-
	BreathNoise	0	0	121	-
	Seashore	0	0	122	-
	BirdTweet	0	0	123	-
	TelephonRing	0	0	124	-
	Helicopter	0	0	125	-
	Applause	0	0	126	-
	Gunshot	0	0	127	-
SFX	CuttingNoise	64	0	0	-
	CuttingNoiz2	64	0	1	-
	StringSlap	64	0	3	-
	Fl.KeyClick	64	0	16	-
	Shower	64	0	32	-
	Thunder	64	0	33	-
	Wind	64	0	34	-
	Stream	64	0	35	-
	Bubble	64	0	36	-
	Feed	64	0	37	-
	Dog	64	0	48	-
	Horse	64	0	49	-
	BirdTweet2	64	0	50	-
	Ghost	64	0	54	-
	Maou	64	0	55	-
	PhoneCall	64	0	64	-
	DoorSqueak	64	0	65	-
	DoorSlam	64	0	66	-
	ScratchCut	64	0	67	-
	ScratchSplit	64	0	68	-
	WindChime	64	0	69	-
	TelphonRing2	64	0	70	-
	CarEngineIgn	64	0	80	-
	CarTiresSqel	64	0	81	-
	CarPassing	64	0	82	-
	CarCrash	64	0	83	-
	Siren	64	0	84	-
	Train	64	0	85	-
	JetPlane	64	0	86	-
	Starship	64	0	87	-
	Burst	64	0	88	-
	RollrCoaster	64	0	89	-
	Submarine	64	0	90	-
	Laugh	64	0	96	-
	Scream	64	0	97	-
	Punch	64	0	98	-
	Heartbeat	64	0	99	-
	FootSteps	64	0	100	-
	MachineGun	64	0	112	-
	LaserGun	64	0	113	-
	Explosion	64	0	114	-
	Firework	64	0	115	-

GM2 Voice

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

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
BASS	AcousticBass	121	0	32	-
	FingerBass	121	0	33	-
	FingerSlap	121	1	33	-
	PickBass	121	0	34	-
	FretlessBass	121	0	35	-
	SlapBass1	121	0	36	-
	SlapBass2	121	0	37	-
	SynthBass1	121	0	38	-
	WarmSyBass	121	1	38	-
	ResoSynhBass	121	2	38	-
	ClaviBass	121	3	38	-
	Hammer	121	4	38	-
	SynthBass2	121	0	39	-
	AttackBass	121	1	39	-
	RubberBass	121	2	39	-
	AttackPulse	121	3	39	-
STRINGS	Violin	121	0	40	-
	SlwAtkViolin	121	1	40	-
	Viola	121	0	41	-
	Cello	121	0	42	-
	Contrabass	121	0	43	-
	Trem.Strings	121	0	44	-
	PizzicatoStr	121	0	45	-
	Orch.Harp	121	0	46	-
	YangChin	121	1	46	-
	Timpani	121	0	47	-
ENSEMBLE	Strings1	121	0	48	-
	StringsBrass	121	1	48	-
	60'sStrings	121	2	48	-
	Strings2	121	0	49	-
	SynStrings1	121	0	50	-
	SynStrings3	121	1	50	-
	SynStrings2	121	0	51	-
	ChoirAahs	121	0	52	-
	ChoirAahs2	121	1	52	-
	VoiceOohs	121	0	53	-
	Humming	121	1	53	-
	SynthVoice	121	0	54	-
	AnalogVoice	121	1	54	-
	OrchestraHit	121	0	55	-
	BassHitPlus	121	1	55	-
	6thHit	121	2	55	-
	EuroHit	121	3	55	-
BRASS	Trumpet	121	0	56	-
	DarkTpSoft	121	1	56	-
	Trombone	121	0	57	-
	Trombone2	121	1	57	-
	BriteTrombon	121	2	57	-
	Tuba	121	0	58	-
	MutedTrumpet	121	0	59	-
	MuteTrumpet2	121	1	59	-
	FrenchHorn	121	0	60	-
	FrenchHorn2	121	1	60	-
	BrassSection	121	0	61	-
	BrassSect2	121	1	61	-
	SynthBrass1	121	0	62	-
	SynthBrass3	121	1	62	-
	AnaSynBrass1	121	2	62	-
	JumpBrass	121	3	62	-
	SynthBrass2	121	0	63	-
	SynthBrass4	121	1	63	-
	AnaSynBrass2	121	2	63	-
REED	SopranoSax	121	0	64	-
	AltoSax	121	0	65	-
	TenorSax	121	0	66	-
	BaritoneSax	121	0	67	-
	Oboe	121	0	68	-
	EnglishHorn	121	0	69	-
	Bassoon	121	0	70	-
	Clarinet	121	0	71	-
PIPE	Piccolo	121	0	72	-
	Flute	121	0	73	-
	Recorder	121	0	74	-
	PanFlute	121	0	75	-
	BlownBottle	121	0	76	-
	Shakuhachi	121	0	77	-
	Whistle	121	0	78	-
	Ocarina	121	0	79	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
SYNTH LEAD	SquareLead	121	0	80	-
	SquareLead2	121	1	80	-
	SineLead	121	2	80	-
	SawtoothLead	121	0	81	-
	SawtoothLd2	121	1	81	-
	SawPulseLead	121	2	81	-
	DoublSawLead	121	3	81	-
	Seq.Analog	121	4	81	-
	CalliopeLead	121	0	82	-
	ChiffLead	121	0	83	-
	CharangLead	121	0	84	-
	WireLead	121	1	84	-
	VoiceLead	121	0	85	-
	FifthsLead	121	0	86	-
	Bass&Lead	121	0	87	-
	SoftWhirl	121	1	87	-
SYNTH PAD	NewAgePad	121	0	88	-
	WarmPad	121	0	89	-
	SinePad	121	1	89	-
	PolySynthPad	121	0	90	-
	ChoirPad	121	0	91	-
	ItopiaPad	121	1	91	-
	BowedPad	121	0	92	-
	MetallicPad	121	0	93	-
	HaloPad	121	0	94	-
	SweepPad	121	0	95	-
SYNTH EFFECTS	Rain	121	0	96	-
	SoundTrack	121	0	97	-
	Crystal	121	0	98	-
	SynthMallet	121	1	98	-
	Atmosphere	121	0	99	-
	Brightness	121	0	100	-
	Goblins	121	0	101	-
	Echoes	121	0	102	-
	EchoBell	121	1	102	-
	EchoPan	121	2	102	-
	Sci-Fi	121	0	103	-
ETHNIC	Sitar	121	0	104	-
	Sitar2	121	1	104	-
	Banjo	121	0	105	-
	Shamisen	121	0	106	-
	Koto	121	0	107	-
	TaishoKoto	121	1	107	-
	Kalimba	121	0	108	-
	Bagpipe	121	0	109	-
	Fiddle	121	0	110	-
	Shanai	121	0	111	-
PERCUSSIVE	TinkleBell	121	0	112	-
	Agogo	121	0	113	-
	SteelDrums	121	0	114	-
	Woodblock	121	0	115	-
	Castanets	121	1	115	-
	TaikoDrum	121	0	116	-
	ConcertBD	121	1	116	-
	MelodicTom	121	0	117	-
	MelodicTom2	121	1	117	-
	SynthDrum	121	0	118	-
	RhythmBoxTom	121	1	118	-
	ElectricDrum	121	2	118	-
	Rev.Cymbal	121	0	119	-

Category	Voice Name	Bank Select		MIDI Program Number	Voice Type
		MSB	LSB		
SOUND EFFECTS	GtrFretNoise	121	0	120	-
	GtrCutNoise	121	1	120	-
	StringSlap	121	2	120	-
	BreathNoise	121	0	121	-
	Fl.KeyClick	121	1	121	-
	Seashore	121	0	122	-
	Rain	121	1	122	-
	Thunder	121	2	122	-
	Wind	121	3	122	-
	Stream	121	4	122	-
	Bubble	121	5	122	-
	BirdTweet	121	0	123	-
	Dog	121	1	123	-
	HorseGallop	121	2	123	-
	BirdTweet2	121	3	123	-
	TelephonRing	121	0	124	-
	TelRing2	121	1	124	-
	DoorCreaking	121	2	124	-
	Door	121	3	124	-
	Scratch	121	4	124	-
	WindChime	121	5	124	-
	Helicopter	121	0	125	-
	CarEngine	121	1	125	-
	CarStop	121	2	125	-
	CarPass	121	3	125	-
	CarCrash	121	4	125	-
	Siren	121	5	125	-
	Train	121	6	125	-
	Jetplane	121	7	125	-
	Starship	121	8	125	-
	BurstNoise	121	9	125	-
	Applause	121	0	126	-
	Laughing	121	1	126	-
	Screaming	121	2	126	-
	Punch	121	3	126	-
	HeartBeat	121	4	126	-
	Footsteps	121	5	126	-
	Gunshot	121	0	127	-
	MachineGun	121	1	127	-
	Lasergun	121	2	127	-
	Explosion	121	3	127	-
DRUM	StandardSet	120	0	0	Drums
	RoomSet	120	0	8	Drums
	PowerSet	120	0	16	Drums
	ElectroSet	120	0	24	Drums
	AnalogSet	120	0	25	Drums
	JazzSet	120	0	32	Drums
	BrushSet	120	0	40	Drums
	OrchestraSet	120	0	48	Drums
	SFXSet	120	0	56	Drums

MSB (0-127)		8			8			8			8			8		
LSB (0-127)		0			0			1			0			0		
Program Change (0-127)		1			2			2			3			4		
Voice Name		SteelGuitar			HiStringGtr			12StrGuitar			CleanGuitar			Overdrive		
Key Range		C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8
Key On Velocity Value	127	127 Harmonics 121	127	127	127	127	127	127	127	127	127 Pick Harmonics 121	127	127	127 Pick Harmonics 121	127	
	120	120 Slide 106			Hard			Hard			120 Slide 106			120		
	110															
	100	105 Hammer 91									105 Hammer 91					
	90	90 Mute 76			90			90			90 Mute 76			Mute		
	80				89			89								
	70	75 Dead 61	Strum Noise	Fret Noise		Strum Noise	Fret Noise		Strum Noise	Fret Noise	75 Dead 61	Strum Noise	Fret Noise		EFX	
	60	60 Open Hard 41									60 Slap 41			56		
	50				Soft			Soft						55		
	40	40 Open Medium 21									40 Open Hard 21			Open		
	20	20 Open Soft									20 Open Soft					
	10															
	1	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			0			0			0			0		
Program Change (0-127)		5			16			17			18			19		
Voice Name		Distortion			Aco.Bass			FingerBass			PickBass			Fretless		
Key Range		C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8	C-2–B5	C6–B7	C8–G8
Key On Velocity Value	127	127 Pick Harmonics 121	127		127 Harmonics 121	127		127 Slap 121	127		127 Harmonics 121	127		127 Harmonics 121	127	
	120	120			120 Dead 81			120 Dead 81			120 Dead 81			120 Dead 81		
	110															
	100															
	90	Mute														
	80				80 Open Hard 61			80 Open Hard 61			80 Mute 41			80 Open		
	70		EFX			EFX			EFX			EFX			EFX	
	60	56			60 Open Soft			60 Open Soft			40 Open					
	50	55														
	40															
	30	Open														
	20															
	10															
	1	1	1		1	1		1	1		1	1		1	1	

Panel Drum Kit

* Key Off: Keys marked "O" 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

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
MIDI		Keyboard Note	Key Off	Alternate Group	Line Out Group	Standard Kit 1	Standard Kit 2	Hit Kit	Room Kit	Rock Kit	Electro Kit
Note#	Note										
13	C# -1	(C#) 0		3	Latin Percussion	Surdo Mute					
14	D -1	(D) 0		3	Latin Percussion	Surdo Open					
15	D# -1	(D#) 0			Others	Hi Q					
16	E -1	(E) 0			Others	Whip Slap					
17	F -1	(F) 0		4	Others	Scratch H					
18	F# -1	(F#) 0		4	Others	Scratch L					
19	G -1	(G) 0			Others	Finger Snap					
20	G# -1	(G#) 0			Others	Click Noise					
21	A -1	(A) 0			Others	Metronome Click					
22	A# -1	(A#) 0			Others	Metronome Bell					
23	B -1	(B) 0			Others	Seq Click L					
24	C 0	C 1			Others	Seq Click H					
25	C# 0	C# 1			Snare Drum	Brush Tap					
26	D 0	D 1	O		Snare Drum	Brush Swirl					
27	D# 0	D# 1			Snare Drum	Brush Slap					
28	E 0	E 1	O		Snare Drum	Brush Tap Swirl					Reverse Cymbal
29	F 0	F 1	O		Snare Drum	Snare Roll					
30	F# 0	F# 1			Latin High Pitch	Castanet					Hi Q 2
31	G 0	G 1			Snare Drum	Snare Soft	Snare Soft 2	Snare Electro		Snare Noisy	Snare Snappy Electro
32	G# 0	G# 1			Others	Sticks					
33	A 0	A 1			Bass Drum	Kick Soft		Kick Tight L			Kick 3
34	A# 0	A# 1			Snare Drum	Open Rim Shot	Open Rim Shot H Short	Snare Pitched			
35	B 0	B 1			Bass Drum	Kick Tight		Kick Wet		Kick 2	Kick Gate
36	C 1	C 2			Bass Drum	Kick	Kick Short	Kick Tight H		Kick Gate	Kick Gate Heavy
37	C# 1	C# 2			Snare Drum	Side Stick	Side Stick Light	Stick Ambient			
38	D 1	D 2			Snare Drum	Snare	Snare Short	Snare Ambient	Snare Snappy	Snare Rock	Snare Noisy 2
39	D# 1	D# 2			Others	Hand Clap					
40	E 1	E 2			Snare Drum	Snare Tight	Snare Tight H	Snare Tight 2	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 3
41	F 1	F 2			Tom	Floor Tom L		Hybrid Tom 1	Tom Room 1	Tom Rock 1	Tom Electro 1
42	F# 1	F# 2		1	Hi Hat	Hi-Hat Closed		Hi-Hat Closed 2			
43	G 1	G 2			Tom	Floor Tom H		Hybrid Tom 2	Tom Room 2	Tom Rock 2	Tom Electro 2
44	G# 1	G# 2		1	Hi Hat	Hi-Hat Pedal		Hi-Hat Pedal 2			
45	A 1	A 2			Tom	Low Tom		Hybrid Tom 3	Tom Room 3	Tom Rock 3	Tom Electro 3
46	A# 1	A# 2		1	Hi Hat	Hi-Hat Open		Hi-Hat Open 2			
47	B 1	B 2			Tom	Mid Tom L		Hybrid Tom 4	Tom Room 4	Tom Rock 4	Tom Electro 4
48	C 2	C 3			Tom	Mid Tom H		Hybrid Tom 5	Tom Room 5	Tom Rock 5	Tom Electro 5
49	C# 2	C# 3			Crash Cymbal	Crash Cymbal 1					
50	D 2	D 3			Tom	High Tom		Hybrid Tom 6	Tom Room 6	Tom Rock 6	Tom Electro 6
51	D# 2	D# 3			Ride Cymbal	Ride Cymbal 1					
52	E 2	E 3			Cymbal	Chinese Cymbal					
53	F 2	F 3			Ride Cymbal	Ride Cymbal Cup					
54	F# 2	F# 3			Others	Tambourine		Tambourine Light			
55	G 2	G 3			Cymbal	Splash Cymbal					
56	G# 2	G# 3			Others	Cowbell					
57	A 2	A 3			Crash Cymbal	Crash Cymbal 2					
58	A# 2	A# 3			Others	Vibraslap					
59	B 2	B 3			Ride Cymbal	Ride Cymbal 2					
60	C 3	C 4			Latin Percussion	Bongo H					
61	C# 3	C# 4			Latin Percussion	Bongo L					
62	D 3	D 4			Latin Percussion	Conga H Mute					
63	D# 3	D# 4			Latin Percussion	Conga H Open					
64	E 3	E 4			Latin Percussion	Conga L					
65	F 3	F 4			Latin Percussion	Timbale H					
66	F# 3	F# 4			Latin Percussion	Timbale L					
67	G 3	G 4			Latin High Pitch	Agogo H					
68	G# 3	G# 4			Latin High Pitch	Agogo L					
69	A 3	A 4			Latin High Pitch	Cabasa					
70	A# 3	A# 4			Latin High Pitch	Maracas					
71	B 3	B 4	O		Latin High Pitch	Samba Whistle H					
72	C 4	C 5	O		Latin High Pitch	Samba Whistle L					
73	C# 4	C# 5			Latin High Pitch	Guiro Short					
74	D 4	D 5	O		Latin High Pitch	Guiro Long					
75	D# 4	D# 5			Latin High Pitch	Claves					
76	E 4	E 5			Latin High Pitch	Wood Block H					
77	F 4	F 5			Latin High Pitch	Wood Block L					
78	F# 4	F# 5			Latin High Pitch	Cuica Mute					Scratch H 2
79	G 4	G 5			Latin High Pitch	Cuica Open					Scratch L 2
80	G# 4	G# 5		2	Others	Triangle Mute					
81	A 4	A 5		2	Others	Triangle Open					
82	A# 4	A# 5			Latin High Pitch	Shaker					
83	B 4	B 5			Others	Jingle Bells					
84	C 5	C 6			Others	Bell Tree					
85	C# 5	(C#) 6									
86	D 5	(D) 6									
87	D# 5	(D#) 6									
88	E 5	(E) 6									
89	F 5	(F) 6									
90	F# 5	(F#) 6									
91	G 5	(G) 6									

: Same as Standard Kit 1

: No Sound

Bank Select MSB (0-127)						127	127	127	127	127	127
Bank Select LSB (0-127)						0	0	0	0	0	0
Program Change (0-127)						25	27	32	40	48	80 / 123
MIDI		Keyboard Note	Key Off	Alternate Group	Line Out Group	Analog Kit	Dance Kit	Jazz Kit	Brush Kit	Symphony Kit	Live! Standard Kit
Note#	Note										
13	C# -1	(C#) 0		3	Latin Percussion		Kick Dance 1				
14	D -1	(D) 0		3	Latin Percussion		Kick Dance 2				
15	D# -1	(D#) 0			Others						
16	E -1	(E) 0			Others						
17	F -1	(F) 0		4	Others		Scratch Dance 1				
18	F# -1	(F#) 0		4	Others		Scratch Dance 2				
19	G -1	(G) 0			Others						
20	G# -1	(G#) 0			Others						
21	A -1	(A) 0			Others		Dance Perc 1				
22	A# -1	(A#) 0			Others		Reverse Dance 1				
23	B -1	(B) 0			Others		Dance Perc 2				
24	C 0	C 1			Others		Hi Q Dance 1				
25	C# 0	C# 1			Snare Drum		Snare Analog 3				Brush Tap Stereo
26	D 0	D 1	O		Snare Drum		Vinyl Noise				Brush Swirl Stereo
27	D# 0	D# 1			Snare Drum		Snare Analog 4				Brush Slap Stereo
28	E 0	E 1	O		Snare Drum	Reverse Cymbal	Reverse Cymbal				Brush Tap Swirl Stereo
29	F 0	F 1	O		Snare Drum		Reverse Dance 2				Snare Roll Stereo
30	F# 0	F# 1			Latin High Pitch	Hi Q 2	Hi Q 2				
31	G 0	G 1			Snare Drum	Snare Noisy 4	Snare Techno	Snare Jazz H	Brush Slap 2		Snare L Stereo
32	G# 0	G# 1			Others		Snare Dance 1				
33	A 0	A 1			Bass Drum	Kick 3	Kick Techno Q			Kick Soft 2	Kick Soft Stereo
34	A# 0	A# 1			Snare Drum		Rim Gate		Open Rim Shot Light		Open Rim Shot Stereo
35	B 0	B 1			Bass Drum	Kick Analog Short	Kick Techno L			Gran Cassa	Kick Light Stereo
36	C 1	C 2			Bass Drum	Kick Analog	Kick Techno	Kick Jazz	Kick Jazz	Gran Cassa Mute	Kick Std Stereo
37	C# 1	C# 2			Snare Drum	Side Stick Analog	Side Stick Analog	Side Stick Light	Side Stick Light		Side Stick Stereo
38	D 1	D 2			Snare Drum	Snare Analog	Snare Clap	Snare Jazz L	Brush Slap 3	Band Snare	Snare M Stereo
39	D# 1	D# 2			Others		Dance Clap				
40	E 1	E 2			Snare Drum	Snare Analog 2	Snare Dry	Snare Jazz M	Brush Tap 2	Band Snare 2	Snare H Stereo
41	F 1	F 2			Tom	Tom Analog 1	Tom Analog 1		Tom Brush 1		Floor Tom L Stereo
42	F# 1	F# 2		1	Hi Hat	Hi-Hat Closed Analog	Hi-Hat Closed 3				Hi-Hat Closed Stereo
43	G 1	G 2			Tom	Tom Analog 2	Tom Analog 2		Tom Brush 2		Floor Tom H Stereo
44	G# 1	G# 2		1	Hi Hat	Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3				Hi-Hat Pedal Stereo
45	A 1	A 2			Tom	Tom Analog 3	Tom Analog 3		Tom Brush 3		Low Tom Stereo
46	A# 1	A# 2		1	Hi Hat	Hi-Hat Open Analog	Hi-Hat Open 3				Hi-Hat Open Stereo
47	B 1	B 2			Tom	Tom Analog 4	Tom Analog 4		Tom Brush 4		Mid Tom L Stereo
48	C 2	C 3			Tom	Tom Analog 5	Tom Analog 5		Tom Brush 5		Mid Tom H Stereo
49	C# 2	C# 3			Crash Cymbal	Crash Analog	Crash Analog			Hand Cymbal	Crash Cymbal 1 Stereo
50	D 2	D 3			Tom	Tom Analog 6	Tom Analog 6		Tom Brush 6		High Tom Stereo
51	D# 2	D# 3			Ride Cymbal					Hand Cymbal Short	Ride Cymbal 1 Stereo
52	E 2	E 3			Cymbal						Chinese Cymbal Stereo
53	F 2	F 3			Ride Cymbal						Ride Cymbal Cup Stereo
54	F# 2	F# 3			Others		Tambourine Analog				
55	G 2	G 3			Cymbal						Splash Cymbal Stereo
56	G# 2	G# 3			Others	Cowbell Analog	Cowbell Dance				
57	A 2	A 3			Crash Cymbal					Hand Cymbal 2	Crash Cymbal 2 Stereo
58	A# 2	A# 3			Others		Vbraslap Analog				
59	B 2	B 3			Ride Cymbal		Ride Analog			Hand Cymbal 2 Short	Ride Cymbal 2 Stereo
60	C 3	C 4			Latin Percussion		Bongo Analog H				
61	C# 3	C# 4			Latin Percussion		Bongo Analog L				
62	D 3	D 4			Latin Percussion	Conga Analog H	Conga Analog H				
63	D# 3	D# 4			Latin Percussion	Conga Analog M	Conga Analog M				
64	E 3	E 4			Latin Percussion	Conga Analog L	Conga Analog L				
65	F 3	F 4			Latin Percussion						
66	F# 3	F# 4			Latin Percussion						
67	G 3	G 4			Latin High Pitch						
68	G# 3	G# 4			Latin High Pitch						
69	A 3	A 4			Latin High Pitch						
70	A# 3	A# 4			Latin High Pitch	Maracas 2	Maracas 2				
71	B 3	B 4	O		Latin High Pitch						
72	C 4	C 5	O		Latin High Pitch						
73	C# 4	C# 5			Latin High Pitch						
74	D 4	D 5	O		Latin High Pitch						
75	D# 4	D# 5			Latin High Pitch	Claves 2	Claves 2				
76	E 4	E 5			Latin High Pitch		Dance Perc 3				
77	F 4	F 5			Latin High Pitch		Dance Perc 4				
78	F# 4	F# 5			Latin High Pitch	Scratch H 2	Dance Breath 1				
79	G 4	G 5			Latin High Pitch	Scratch L 2	Dance Breath 2				
80	G# 4	G# 5		2	Others						
81	A 4	A 5		2	Others						
82	A# 4	A# 5			Latin High Pitch						
83	B 4	B 5			Others						
84	C 5	C 6			Others						
85	C# 5	(C#) 6									
86	D 5	(D) 6									
87	D# 5	(D#) 6									
88	E 5	(E) 6									
89	F 5	(F) 6									
90	F# 5	(F#) 6									
91	G 5	(G) 6									

Panel Drum Kit

* Key Off: Keys marked "O" 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

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)						81 / 124	82	83 / 125	84 / 126	85	86
MIDI		Keyboard Note	Key Off	Alternate Group	Line Out Group	Live! Funk Kit	Live! Brush Kit	Live! Standard + Percussion Kit	Live! Funk + Percussion Kit	Live! Brush + Percussion Kit	Live! Studio Kit
Note#	Note										
13	C# -1	(C#) 0		3	Latin Percussion						
14	D -1	(D) 0		3	Latin Percussion						
15	D# -1	(D#) 0			Others						
16	E -1	(E) 0			Others						
17	F -1	(F) 0		4	Others						
18	F# -1	(F#) 0		4	Others						
19	G -1	(G) 0			Others						
20	G# -1	(G#) 0			Others						
21	A -1	(A) 0			Others						
22	A# -1	(A#) 0			Others						
23	B -1	(B) 0			Others						
24	C 0	C 1			Others						
25	C# 0	C# 1			Snare Drum	Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo	Brush Tap Stereo
26	D 0	D 1	O		Snare Drum	Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo	Brush Swirl Stereo
27	D# 0	D# 1			Snare Drum	Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo	Brush Slap Stereo
28	E 0	E 1	O		Snare Drum	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo	Brush Tap Swirl Stereo
29	F 0	F 1	O		Snare Drum	Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo	Snare Roll Stereo
30	F# 0	F# 1			Latin High Pitch						
31	G 0	G 1			Snare Drum	Snare Funk L Stereo	Brush Slap 2 Stereo	Snare L Stereo	Snare L Stereo	Brush Slap 2 Stereo	Snare Studio L Stereo
32	G# 0	G# 1			Others						
33	A 0	A 1			Bass Drum	Kick Soft Stereo	Kick Soft Stereo	Kick Soft Stereo	Kick Soft Stereo	Kick Soft Stereo	Kick Amb H Stereo
34	A# 0	A# 1			Snare Drum	Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo	Open Rim Shot Stereo
35	B 0	B 1			Bass Drum	Kick Std Stereo	Kick Std Stereo	Kick Light Stereo	Kick Std Stereo	Kick Std Stereo	Kick Amb L Stereo
36	C 1	C 2			Bass Drum	Kick Funk Stereo	Kick Funk Stereo	Kick Std Stereo	Kick Funk Stereo	Kick Funk Stereo	Kick Studio Stereo
37	C# 1	C# 2			Snare Drum	Side Stick Stereo	Side Stick Stereo	Side Stick Stereo	Side Stick Stereo	Side Stick Stereo	Side Stick Stereo
38	D 1	D 2			Snare Drum	Snare Funk M Stereo	Snare Brush M Stereo	Snare M Stereo	Snare Funk M Stereo	Snare Brush M Stereo	Snare Studio M Stereo
39	D# 1	D# 2			Others			Hand Clap Stereo	Hand Clap Stereo	Hand Clap Stereo	Hand Clap Stereo
40	E 1	E 2			Snare Drum	Snare Funk H Stereo	Snare Brush H Stereo	Snare H Stereo	Snare Funk H Stereo	Snare Brush H Stereo	Snare Studio L Stereo
41	F 1	F 2			Tom	Floor Tom L Stereo	Brush Floor Tom L Stereo	Floor Tom L Stereo	Floor Tom L Stereo	Brush Floor Tom L Stereo	Floor Tom L Stereo
42	F# 1	F# 2		1	Hi Hat	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo	Hi-Hat Closed Stereo
43	G 1	G 2			Tom	Floor Tom H Stereo	Brush Floor Tom H Stereo	Floor Tom H Stereo	Floor Tom H Stereo	Brush Floor Tom H Stereo	Floor Tom H Stereo
44	G# 1	G# 2		1	Hi Hat	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo	Hi-Hat Pedal Stereo
45	A 1	A 2			Tom	Low Tom Stereo	Brush Low Tom Stereo	Low Tom Stereo	Low Tom Stereo	Brush Low Tom Stereo	Low Tom Stereo
46	A# 1	A# 2		1	Hi Hat	Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo	Hi-Hat Open Stereo
47	B 1	B 2			Tom	Mid Tom L Stereo	Brush Mid Tom L Stereo	Mid Tom L Stereo	Mid Tom L Stereo	Brush Mid Tom L Stereo	Mid Tom L Stereo
48	C 2	C 3			Tom	Mid Tom H Stereo	Brush Mid Tom H Stereo	Mid Tom H Stereo	Mid Tom H Stereo	Brush Mid Tom H Stereo	Mid Tom H Stereo
49	C# 2	C# 3			Crash Cymbal	Crash Cymbal 1 Stereo	Brush Crash Cymbal 1 Stereo	Crash Cymbal 1 Stereo	Crash Cymbal 1 Stereo	Brush Crash Cymbal 1 Stereo	Crash Cymbal 1 Stereo
50	D 2	D 3			Tom	High Tom Stereo	Brush High Tom Stereo	High Tom Stereo	High Tom Stereo	Brush High Tom Stereo	High Tom Stereo
51	D# 2	D# 3			Ride Cymbal	Ride Cymbal 1 Stereo	Brush Ride Cymbal 1 Stereo	Ride Cymbal 1 Stereo	Ride Cymbal 1 Stereo	Brush Ride Cymbal 1 Stereo	Ride Cymbal 1 Stereo
52	E 2	E 3			Cymbal	Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo	Chinese Cymbal Stereo
53	F 2	F 3			Ride Cymbal	Ride Cymbal Cup Stereo	Brush Ride Cymbal Cup Stereo	Ride Cymbal Cup Stereo	Ride Cymbal Cup Stereo	Brush Ride Cymbal Cup Stereo	Ride Cymbal Cup Stereo
54	F# 2	F# 3			Others			Tambourine Stereo	Tambourine Stereo	Tambourine Stereo	Tambourine Stereo
55	G 2	G 3			Cymbal	Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo	Splash Cymbal Stereo
56	G# 2	G# 3			Others			Cowbell Stereo	Cowbell Stereo	Cowbell Stereo	Cowbell Stereo
57	A 2	A 3			Crash Cymbal	Crash Cymbal 2 Stereo	Brush Crash Cymbal 2 Stereo	Crash Cymbal 2 Stereo	Crash Cymbal 2 Stereo	Brush Crash Cymbal 2 Stereo	Crash Cymbal 2 Stereo
58	A# 2	A# 3			Others						
59	B 2	B 3			Ride Cymbal	Ride Cymbal 2 Stereo	Brush Ride Cymbal 2 Stereo	Ride Cymbal 2 Stereo	Ride Cymbal 2 Stereo	Brush Ride Cymbal 2 Stereo	Ride Cymbal 2 Stereo
60	C 3	C 4			Latin Percussion			Bongo H Stereo	Bongo H Stereo	Bongo H Stereo	Bongo H Stereo
61	C# 3	C# 4			Latin Percussion			Bongo L Srereo	Bongo L Srereo	Bongo L Srereo	Bongo L Srereo
62	D 3	D 4			Latin Percussion			Conga H Mute Stereo	Conga H Mute Stereo	Conga H Mute Stereo	Conga H Mute Stereo
63	D# 3	D# 4			Latin Percussion			Conga H Open Stereo	Conga H Open Stereo	Conga H Open Stereo	Conga H Open Stereo
64	E 3	E 4			Latin Percussion			Conga L Stereo	Conga L Stereo	Conga L Stereo	Conga L Stereo
65	F 3	F 4			Latin Percussion			Timbale H Stereo	Timbale H Stereo	Timbale H Stereo	Timbale H Stereo
66	F# 3	F# 4			Latin Percussion			Timbale L Stereo	Timbale L Stereo	Timbale L Stereo	Timbale L Stereo
67	G 3	G 4			Latin High Pitch						
68	G# 3	G# 4			Latin High Pitch						
69	A 3	A 4			Latin High Pitch			Cabasa Stereo	Cabasa Stereo	Cabasa Stereo	Cabasa Stereo
70	A# 3	A# 4			Latin High Pitch			Maracas Stereo	Maracas Stereo	Maracas Stereo	Maracas Stereo
71	B 3	B 4	O		Latin High Pitch						
72	C 4	C 5	O		Latin High Pitch						
73	C# 4	C# 5			Latin High Pitch			Guiro Short Stereo	Guiro Short Stereo	Guiro Short Stereo	Guiro Short Stereo
74	D 4	D 5	O		Latin High Pitch			Guiro Long Stereo	Guiro Long Stereo	Guiro Long Stereo	Guiro Long Stereo
75	D# 4	D# 5			Latin High Pitch						
76	E 4	E 5			Latin High Pitch						
77	F 4	F 5			Latin High Pitch						
78	F# 4	F# 5			Latin High Pitch			Cuica Mute Stereo	Cuica Mute Stereo	Cuica Mute Stereo	Cuica Mute Stereo
79	G 4	G 5			Latin High Pitch			Cuica Open Stereo	Cuica Open Stereo	Cuica Open Stereo	Cuica Open Stereo
80	G# 4	G# 5		2	Others			Triangle Mute Stereo	Triangle Mute Stereo	Triangle Mute Stereo	Triangle Mute Stereo
81	A 4	A 5		2	Others			Triangle Open Stereo	Triangle Open Stereo	Triangle Open Stereo	Triangle Open Stereo
82	A# 4	A# 5			Latin High Pitch			Shaker Stereo	Shaker Stereo	Shaker Stereo	Shaker Stereo
83	B 4	B 5			Others						
84	C 5	C 6			Others			Wind Chime Stereo	Wind Chime Stereo	Wind Chime Stereo	Wind Chime Stereo
85	C# 5	(C#) 6									
86	D 5	(D) 6									
87	D# 5	(D#) 6									
88	E 5	(E) 6									
89	F 5	(F) 6									
90	F# 5	(F#) 6									
91	G 5	(G) 6									

: Same as Standard Kit 1

: No Sound

Bank Select MSB (0-127)						126	126	126	126	126
Bank Select LSB (0-127)						0	0	0	0	0
Program Change (0-127)						35	0	1	40	43
MIDI		Keyboard Note	Key Off	Alternate Group	Line Out Group	Arabic Kit	SFX Kit 1	SFX Kit 2	Live! AfroCuban Kit	Live! PopLatin Kit
Note#	Note									
13	C# -1	(C#) 0		3	Latin Percussion					
14	D -1	(D) 0		3	Latin Percussion					
15	D# -1	(D#) 0			Others					
16	E -1	(E) 0			Others					
17	F -1	(F) 0		4	Others					
18	F# -1	(F#) 0		4	Others					Hand Clap Stereo
19	G -1	(G) 0			Others					
20	G# -1	(G#) 0			Others					
21	A -1	(A) 0			Others					
22	A# -1	(A#) 0			Others				Conga H Tip Stereo	Conga H Tip Stereo
23	B -1	(B) 0			Others				Conga H Heel Stereo	Conga H Heel Stereo
24	C 0	C 1			Others	Nakarazan Dom			Conga H Open Stereo	Conga H Open Stereo
25	C# 0	C# 1			Snare Drum	Cabasa			Conga H Mute Stereo	Conga H Mute Stereo
26	D 0	D 1	O		Snare Drum	Nakarazan Edge			Conga H Slap Open Stereo	Conga H Slap Open Stereo
27	D# 0	D# 1			Snare Drum	Hager Dom			Conga H Slap Stereo	Conga H Slap Stereo
28	E 0	E 1	O		Snare Drum	Hager Edge			Conga H Slap Mute Stereo	Conga H Slap Mute Stereo
29	F 0	F 1	O		Snare Drum	Bongo H			Conga L Tip Stereo	Conga L Tip Stereo
30	F# 0	F# 1			Latin High Pitch	Bongo L			Conga L Heel Stereo	Conga L Heel Stereo
31	G 0	G 1			Snare Drum	Conga H Mute			Conga L Open Stereo	Conga L Open Stereo
32	G# 0	G# 1			Others	Conga H Open			Conga L Mute Stereo	Conga L Mute Stereo
33	A 0	A 1			Bass Drum	Conga L			Conga L Slap Open Stereo	Conga L Slap Open Stereo
34	A# 0	A# 1			Snare Drum	Zagrouda H			Conga L Slap Stereo	Conga L Slap Stereo
35	B 0	B 1			Bass Drum	Zagrouda L			Conga L Slide Stereo	Conga L Slide Stereo
36	C 1	C 2			Bass Drum	Kick Soft	Cutting Noise	Phone Call	Bongo H Open 1 Finger Stereo	Bongo H Open 1 finger Stereo
37	C# 1	C# 2			Snare Drum	Side Stick	Cutting Noise 2	Door Squeak	Bongo H Open 3 Finger Stereo	Bongo H Open 3 finger Stereo
38	D 1	D 2			Snare Drum	Snare Soft		Door Slam	Bongo H Rim Stereo	Bongo H Rim Stereo
39	D# 1	D# 2			Others	Arabic Hand Clap	String Slap	Scratch Cut	Bongo H Tip Stereo	Bongo H Tip Stereo
40	E 1	E 2			Snare Drum	Snare		Scratch H 3	Bongo H Heel Stereo	Bongo H Heel Stereo
41	F 1	F 2			Tom	Floor Tom L		Wind Chime	Bongo H Slap Stereo	Bongo H Slap Stereo
42	F# 1	F# 2		1	Hi Hat	Hi-Hat Closed		Telephone Ring 2	Bongo L Open 1 Finger Stereo	Bongo L Open 1 finger Stereo
43	G 1	G 2			Tom	Floor Tom H			Bongo L Open 3 Finger Stereo	Bongo L Open 3 finger Stereo
44	G# 1	G# 2		1	Hi Hat	Hi-Hat Pedal			Bongo L Rim Stereo	Bongo L Rim Stereo
45	A 1	A 2			Tom	Low Tom			Bongo L Tip Stereo	Bongo L Tip Stereo
46	A# 1	A# 2		1	Hi Hat	Hi-Hat Open			Bongo L Heel Stereo	Bongo L Heel Stereo
47	B 1	B 2			Tom	Mid Tom L			Bongo L Slap Stereo	Bongo L Slap Stereo
48	C 2	C 3			Tom	Mid Tom H			Timbale L Open Stereo	Timbale L Open Stereo
49	C# 2	C# 3			Crash Cymbal	Crash Cymbal 1				
50	D 2	D 3			Tom	High Tom				
51	D# 2	D# 3			Ride Cymbal	Ride Cymbal 1				
52	E 2	E 3			Cymbal	Crash Cymbal 2	Flute Key Click	Car Engine Ignition		
53	F 2	F 3			Ride Cymbal	Duhulla Dom		Car Tires Squeal	Paila L Stereo	Paila L Stereo
54	F# 2	F# 3			Others	Tambourine		Car Passing	Timbale H Open Stereo	Timbale H Open Stereo
55	G 2	G 3			Cymbal	Duhulla Tak		Car Crash		
56	G# 2	G# 3			Others	Cowbell		Siren		
57	A 2	A 3			Crash Cymbal	Duhulla Sak		Train		
58	A# 2	A# 3			Others	Claves		Jet Plane		
59	B 2	B 3			Ride Cymbal	Doff Dom		Starship	Paila H Stereo	Paila H Stereo
60	C 3	C 4			Latin Percussion	Katem Dom		Burst	Cowbell Top Stereo	Cowbell Top Stereo
61	C# 3	C# 4			Latin Percussion	Katem Tak		Roller Coaster		
62	D 3	D 4			Latin Percussion	Katem Sak		Submarine		
63	D# 3	D# 4			Latin Percussion	Katem Tak				
64	E 3	E 4			Latin Percussion	Doff Tak			Guiro Short Stereo	Guiro Short Stereo
65	F 3	F 4			Latin Percussion	Tabla Dom			Guiro Long Stereo	Guiro Long Stereo
66	F# 3	F# 4			Latin Percussion	Tabla Tak1				
67	G 3	G 4			Latin High Pitch	Tabla Tik				
68	G# 3	G# 4			Latin High Pitch	Tabla Tak2	Shower	Laugh	Tambourine Stereo	Tambourine Stereo
69	A 3	A 4			Latin High Pitch	Tabla Sak	Thunder	Scream		
70	A# 3	A# 4			Latin High Pitch	Tabla Roll of Edge	Wind	Punch		
71	B 3	B 4	O		Latin High Pitch	Tabla Flam	Stream	Heart Beat		
72	C 4	C 5	O		Latin High Pitch	Sagat 1	Bubble	Foot Steps	Maracas Stereo	Maracas Stereo
73	C# 4	C# 5			Latin High Pitch	Tabel Dom	Feed		Shaker Stereo	Shaker Stereo
74	D 4	D 5	O		Latin High Pitch	Sagat 3			Cabasa Stereo	Cabasa Stereo
75	D# 4	D# 5			Latin High Pitch	Tabel Tak				Cuica Mute Stereo
76	E 4	E 5			Latin High Pitch	Sagat 2				Cuica Open Stereo
77	F 4	F 5			Latin High Pitch	Rik Dom				
78	F# 4	F# 5			Latin High Pitch	Rik Tak 2				
79	G 4	G 5			Latin High Pitch	Rik Finger 1				
80	G# 4	G# 5		2	Others	Rik Tak 1				
81	A 4	A 5		2	Others	Rik Finger 2				Triangle Mute Stereo
82	A# 4	A# 5			Latin High Pitch	Rik Brass Tremolo				Triangle Open Stereo
83	B 4	B 5			Others	Rik Sak				
84	C 5	C 6			Others	Rik Tik	Dog	Machine Gun		Wind Chime Stereo
85	C# 5	(C#) 6			Others		Horse	Laser Gun		
86	D 5	(D) 6			Others		Bird Tweet 2	Explosion		
87	D# 5	(D#) 6			Others			Firework		
88	E 5	(E) 6								
89	F 5	(F) 6								
90	F# 5	(F#) 6			Others		Ghost			
91	G 5	(G) 6			Others		Maou			

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
MIDI		Alternate Group for Standard Set - Brush Set	Line Out Group	Standard Set	Room Set	Power Set	Electronic Set	Analog Set
Note#	Note							
13	C# -1							
14	D -1							
15	D# -1							
16	E -1							
17	F -1							
18	F# -1							
19	G -1							
20	G# -1							
21	A -1							
22	A# -1							
23	B -1							
24	C 0							
25	C# 0							
26	D 0							
27	D# 0		Snare Drum	High Q				
28	E 0		Snare Drum	Slap				
29	F 0	7	Snare Drum	Scratch Push				
30	F# 0	7	Latin High Pitch	Scratch Pull				
31	G 0		Snare Drum	Sticks				
32	G# 0		Others	Square Click				
33	A 0		Bass Drum	Metronome Click				
34	A# 0		Snare Drum	Metronome Bell				
35	B 0		Bass Drum	Acoustic Bass Drum				
36	C 1		Bass Drum	Bass Drum 1		Power Kick Drum	Electric Bass Drum	Analog Bass Drum
37	C# 1		Snare Drum	Side Stick				Analog Rim Shot
38	D 1		Snare Drum	Acoustic Snare		Power Snare Drum	Electric Snare 1	Analog Snare 1
39	D# 1		Others	Hand Clap				
40	E 1		Snare Drum	Electric Snare			Electric Snare 2	
41	F 1		Tom	Low Floor Tom	Room Low Tom 2	Power Low Tom 2	Electric Low Tom 2	Analog Low Tom 2
42	F# 1	1	Hi Hat	Closed Hi-hat				Analog CHH 1
43	G 1		Tom	High Floor Tom	Room Low Tom 1	Power Low Tom 1	Electric Low Tom 1	Analog Low Tom 1
44	G# 1	1	Hi Hat	Pedal Hi-hat				Analog CHH 2
45	A 1		Tom	Low Tom	Room Mid Tom 2	Power Mid Tom 2	Electric Mid Tom 2	Analog Mid Tom 2
46	A# 1	1	Hi Hat	Open Hi-hat				Analog OHH
47	B 1		Tom	Low-Mid Tom	Room Mid Tom 1	Power Mid Tom 1	Electric Mid Tom 1	Analog Mid Tom 1
48	C 2		Tom	High Mid Tom	Room Hi Tom 2	Power Hi Tom 2	Electric Hi Tom 2	Analog Hi Tom 2
49	C# 2		Crash Cymbal	Crash Cymbal 1				Analog Cymbal
50	D 2		Tom	High Tom	Room Hi Tom 1	Power Hi Tom 1	Electric Hi Tom 1	Analog Hi Tom 1
51	D# 2		Ride Cymbal	Ride Cymbal 1				
52	E 2		Cymbal	Chinese Cymbal			Reverse Cymbal	
53	F 2		Ride Cymbal	Ride Bell				
54	F# 2		Others	Tambourine				
55	G 2		Cymbal	Splash Cymbal				
56	G# 2		Others	Cowbell				Analog Cowbell
57	A 2		Crash Cymbal	Crash Cymbal 2				
58	A# 2		Others	Vibra-slap				
59	B 2		Ride Cymbal	Ride Cymbal 2				
60	C 3		Latin Percussion	High Bongo				
61	C# 3		Latin Percussion	Low Bongo				
62	D 3		Latin Percussion	Mute Hi Conga				Analog High Conga
63	D# 3		Latin Percussion	Open Hi Conga				Analog Mid Conga
64	E 3		Latin Percussion	Low Conga				Analog Low Conga
65	F 3		Latin Percussion	High Timbale				
66	F# 3		Latin Percussion	Low Timbale				
67	G 3		Latin High Pitch	High Agogo				
68	G# 3		Latin High Pitch	Low Agogo				
69	A 3		Latin High Pitch	Cabasa				
70	A# 3		Latin High Pitch	Maracas				Analog Maracas
71	B 3	2	Latin High Pitch	Short Whistle				
72	C 4	2	Latin High Pitch	Long Whistle				
73	C# 4	3	Latin High Pitch	Short Guiro				
74	D 4	3	Latin High Pitch	Long Guiro				
75	D# 4		Latin High Pitch	Claves				Analog Claves
76	E 4		Latin High Pitch	Hi Wood Block				
77	F 4		Latin High Pitch	Low Wood Block				
78	F# 4	4	Latin High Pitch	Mute Cuica				
79	G 4	4	Latin High Pitch	Open Cuica				
80	G# 4	5	Others	Mute Triangle				
81	A 4	5	Others	Open Triangle				
82	A# 4		Latin High Pitch	Shaker				
83	B 4		Others	Jingle Bell				
84	C 5		Others	Bell Tree				
85	C# 5		Others	Castanets				
86	D 5	6	Others	Mute Surdo				
87	D# 5	6	Others	Open Surdo				
88	E 5							
89	F 5							
90	F# 5							
91	G 5							

: Same as Standard Set

: 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	
MIDI		Alternate Group for Standard Set - Brush Set	Line Out Group	Jazz Set	Brush Set	Alternate Group for Orchestral Set	Orchestra Set	Alternate Group for Orchestral Set	SFX Set
Note#	Note								
13	C# -1								
14	D -1								
15	D# -1								
16	E -1								
17	F -1								
18	F# -1								
19	G -1								
20	G# -1								
21	A -1								
22	A# -1								
23	B -1								
24	C 0								
25	C# 0								
26	D 0								
27	D# 0		Snare Drum			1	Closed Hi-hat 2		
28	E 0		Snare Drum			1	Pedal Hi-hat		
29	F 0	7	Snare Drum			1	Open Hi-hat 2		
30	F# 0	7	Latin High Pitch				Ride Cymbal 1		
31	G 0		Snare Drum						
32	G# 0		Others						
33	A 0		Bass Drum						
34	A# 0		Snare Drum						
35	B 0		Bass Drum	Jazz Kick 2	Jazz Kick 2		Concert BD 2		
36	C 1		Bass Drum	Jazz Kick 1	Jazz Kick 1		Concert BD 1		
37	C# 1		Snare Drum						
38	D 1		Snare Drum		Brush Tap		Concert SD		
39	D# 1		Others		Brush Slap		Castanets		High Q
40	E 1		Snare Drum		Brush Swirl		Concert SD		Slap
41	F 1		Tom				Timpani F	7	Scratch Push
42	F# 1	1	Hi Hat				Timpani F♯	7	Scratch Pull
43	G 1		Tom				Timpani G		Sticks
44	G# 1	1	Hi Hat				Timpani G♯		Square Click
45	A 1		Tom				Timpani A		Metronome Click
46	A# 1	1	Hi Hat				Timpani A♯		Metronome Bell
47	B 1		Tom				Timpani B		Guitar Fret
48	C 2		Tom				Timpani c		Guitar Cutting Noise Up
49	C# 2		Crash Cymbal				Timpani c♯		Guitar Cutting Noise Down
50	D 2		Tom				Timpani d		String Slap of Double Bass
51	D# 2		Ride Cymbal				Timpani d♯		Fl.Key Click
52	E 2		Cymbal				Timpani e		Laughing
53	F 2		Ride Cymbal				Timpani f		Scream
54	F# 2		Others						Punch
55	G 2		Cymbal						Heart Beat
56	G# 2		Others						Footsteps 1
57	A 2		Crash Cymbal				Concert Cymbal 2		Footsteps 2
58	A# 2		Others						Applause
59	B 2		Ride Cymbal				Concert Cymbal 1		Door Creaking
60	C 3		Latin Percussion						Door
61	C# 3		Latin Percussion						Scratch
62	D 3		Latin Percussion						Wind Chimes
63	D# 3		Latin Percussion						Car-Engine
64	E 3		Latin Percussion						Car-Stop
65	F 3		Latin Percussion						Car-Pass
66	F# 3		Latin Percussion						Car-Crash
67	G 3		Latin High Pitch						Siren
68	G# 3		Latin High Pitch						Train
69	A 3		Latin High Pitch						Jetplane
70	A# 3		Latin High Pitch						Helicopter
71	B 3	2	Latin High Pitch			2			Starship
72	C 4	2	Latin High Pitch			2			Gun Shot
73	C# 4	3	Latin High Pitch			3			Machine Gun
74	D 4	3	Latin High Pitch			3			Lasergun
75	D# 4		Latin High Pitch						Explosion
76	E 4		Latin High Pitch						Dog
77	F 4		Latin High Pitch						Horse-Gallop
78	F# 4	4	Latin High Pitch			4			Birds
79	G 4	4	Latin High Pitch			4			Rain
80	G# 4	5	Others			5			Thunder
81	A 4	5	Others			5			Wind
82	A# 4		Latin High Pitch						Seashore
83	B 4		Others						Stream
84	C 5		Others						Bubble
85	C# 5		Others						
86	D 5	6	Others			6			
87	D# 5	6	Others			6			
88	E 5		Others				Applause		
89	F 5								
90	F# 5								
91	G 5								

Category	Style Name
POP&ROCK	Live8Beat
	Cool8Beat
	8BeatModern
	60's8Beat
	70's8Beat
	60'sGuitarPop
	BubblegumPop
	BritPop
	BritPopSwing
	Unplugged1
	8Beat
	HeartBeat
	RockBallad
	SouthernRock
	CaribbeanRock
	JazzPop
	FusionShuffle
	PopShuffle1
	PopShuffle2
	GuitarPop
	60'sRock1
	60'sRock2
	60'sRock3
	SoftRock
	Unplugged2
	RockShuffle
	HardRock
	RootRock
	16BeatUptempo
	KoolShuffle
BALLAD	8BeatBallad
	EasyBallad
	PowerBallad
	OrganBallad
	ChartBallad
	6-8SlowRock1
	6-8SlowRock2
	6-8ModernBallad
	6-8Orchestral
	8BeatAdria
	16Beat
	PopBallad
	16BeatBallad1
	16BeatBallad2
	PopNewAge
	Chillout
	PianoBallad
	RomanticBallad
	LoveSong
	GuitarBallad
	GuitarSerenade
	AcousticBallad
	Slow&Easy
	AnalogBallad
	R&B
	PopWaltz
DANCE	Ibiza2002
	EuroTrance
	RetroPop
	ClubHouse
	FrenchHouse
	NewR&B
	LatinDJ's
	ClassicHipHop
	DreamDance
	DiscoTeens
	DiscoPhilly1
	70'sDiscoFunk
	70'sDisco1
	70'sDisco2
	70'sDisco3
	DiscoPhilly2
	DiscoChocolate
	SaturdayNight
	DiscoFunk
	TechnoParty
	Ibiza2000
	House
	USHipHop
	EuroHipHop
	HipHopLight
	ChartPop
	SwingHouse
	Clubdance
	ClubLatin
	USPop
	UKPop

Category	Style Name
	Garage1
	Garage2
	Groundbeat
	HipHopGroove
	TripHop
	CoolBlues
	HipHopPop
	6-8Trance
	80'sDance
SWING&JAZZ	OrchBigBand1
	OrchestraSwing
	ModernJazzBld
	Bebop
	Dixieland1
	OrchBigBand2
	AcousticJazz
	CoolJazzBallad
	MediumJazz
	FastJazz
	BigBandFast1
	BigBandMed1
	30'sBigBand
	Swingin'BigBand
	EasyListening
	BigBandFast2
	BigBandMed2
	40'sBigBand
	ClassicBigBand
	OrchJazzBallad
	Swing1
	Swing2
	JazzClub
	Five-Four
	AfroCuban
	CatGroove
	JumpJive
	BigBandBallad
	MidnightSwing
	MoonlightBallad
	Ragtime1
	SimpleShuffle
	BigBandShuffle
	GypsySwing
	Dixieland2
	JazzWaltzSlow
	JazzWaltzMed
	JazzWaltzFast
	LoungePiano
	ElectricJazz
	Ragtime2
	Charleston
R&B	BluesRock
	SlowBlues
	Rock&Roll1
	Rock&RollShfl
	FranklySoul
	GospelSwing
	GospelSisters
	GospelBrothers
	JazzFunk
	BluesShuffle
	Soul
	DetroitPop1
	MotorCity
	60'sRock&Roll
	Swingin'Boogie
	6-8Soul
	Twist
	CrocoTwist
	Rock&Roll2
	BoogieWoogie
	ModernR&B
	NewGospel
	KoolFunk
	SoulShuffle
	GospelFunk
	SoulBeat
	DetroitPop2
	ComboTwist
	Skiffle
	BluesBallad
	BlueberryBlues
	AmazingGospel
	LovelyShuffle
	ComboBoogie
	6-8Blues

Category	Style Name
COUNTRY	NewCountry
	ModCntryBld1
	ModCntryBld2
	CountryPop
	CountryRock
	Bluegrass
	Hoedown
	CntrySing-along
	CountrySwing1
	CountrySwing2
	ModCntryPop
	CountryBallad
	FingerPickin
	Country2-4
	CowboyBoogie
	CntryBrothers
	Country8Beat
	CntryTwoStep
	CountryShuffle
	SingrSongWriter
	CountryWaltz
LATIN	BrazilianSamba
	BossaNova1
	BossaNova2
	PopBossa1
	PopBossa2
	BigBandSamba
	BigBandMambo
	BigBandSalsa
	Tijuana
	Latin-a-GoGo
	PopLatin
	LatinDisco1
	LatinDisco2
	PopSamba
	RockChaCha
	FastBossa
	SlowBossa
	Mambo
	Salsa
	Montuno
	Calypso
	CubanBolero
	Merengue
	Beguine
	GypsyRumba
	RumbaFlamenca
	RumbaIsland
	PopRumba
	Carnival
	Caribbean
	HappyReggae
	SheriffReggae
	JumboReggae
BALLROOMPARTY	VienneseWaltz
	EnglishWaltz
	Slowfox
	Foxtrot
	Quickstep
	OrganQuickstep
	Tango1
	Tango2
	Swingfox
	Pasodoble
	Samba
	ChaCha
	Rumba
	Jive
	SimpleWaltz
	SimpleFoxtrot
	SimpleQuickstep
	SimpleRumba
	SimpleChaCha
	9-8Waltz
	TheatreOrgQStep
	TheatreOrgMrch
	SwingWaltz
	ClassicWaltz
	TraditionalWaltz
	PubPiano
	Schlager
	DiscoHands
	DiscoFox
	PolkaPop

Category	Style Name
MOVIE&SHOW	Sci-fiMarch
	WildWest
	SecretService
	TapDanceSwing
	ModBrdwayBld
	MovieBallad
	MovieSwing
	MovieDisco
	MoviePanther
	Showtune
	ChristmasSwing1
	ChristmasSwing2
	ChristmasWaltz
WORLD	Flamenco
	SpanishPaso
	GypsyPop
	FrenchMusette
	Tarantella
	IrishDance
	ScottishReel
	GayGordons
	Jig
	Hawaiian
	MexicanDance
	Norteno
	MariachiWaltz
	Zirtaki
	Casatschock
	USMarch
	6-8March
	GermanMarch1
	GermanMarch2
	OberPolka
	BandaPolka
	BandaVals
	OberWalzer
	LimboRock
	HullyGully
	Enka1
	Enka2
	JapaneseFolk
	FolkRock
	PopEnka

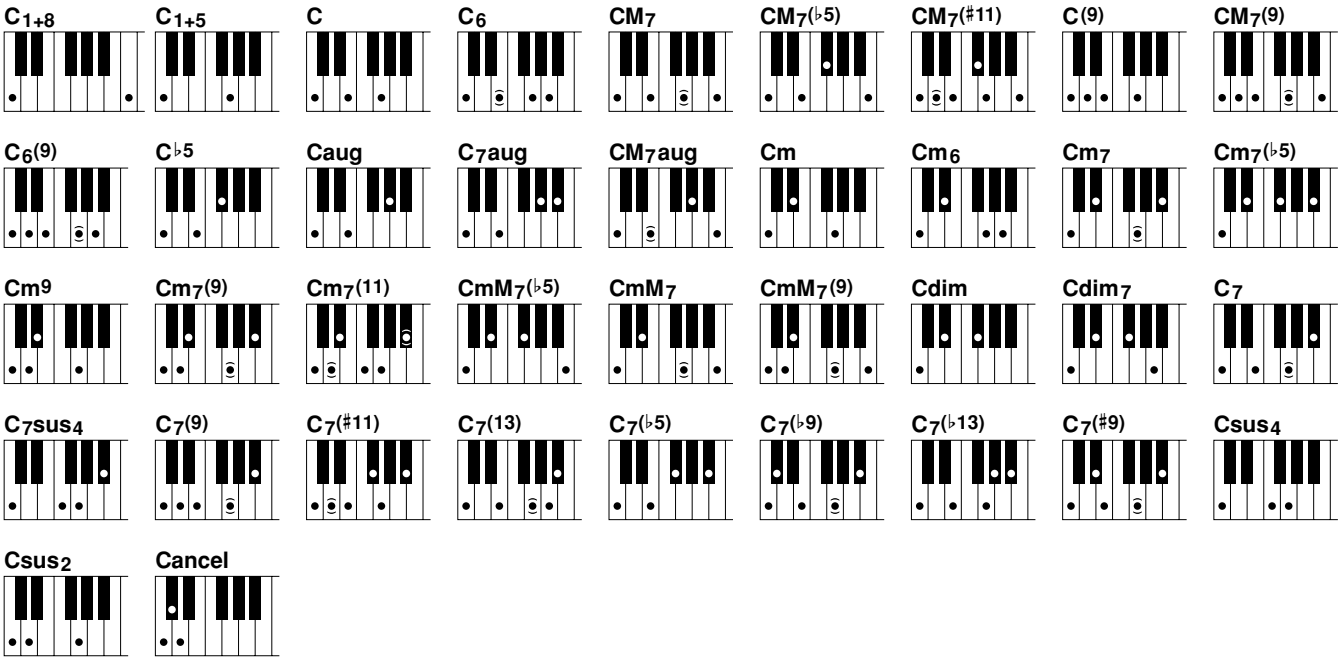
Order	Bank Name
1	HipHop1
2	HipHop2
3	New R&B
4	Rap Beat
5	Heavy Shuffle
6	Dancefloor
7	Garage
8	Add Groove
9	Drum'n'Bass
10	So 80's
11	Conga&Bongo1
12	Carnival de Rio
13	Latin Pop
14	Jungle Drums
15	Timbales Paila
16	Rumba 8Beat
17	Shaker&Tamb
18	Samba Perc
19	Soca
20	Conga&Bongo2
21	Steel Gtr Pick1
22	Steel Gtr Pick2
23	Steel Strum1
24	Steel Strum2
25	Steel Strum3
26	Gtr Cutting1
27	Gtr Cutting2
28	Rock'n'Roll
29	Clean Gtr Pick
30	Flamenco
31	Piano Arp1
32	Piano Arp2
33	Piano Gliss
34	Harpeggio
35	Heaven Arp
36	Montuno
37	Mallet Fills
38	Twinkle Arp
39	New Age
40	Harpist

Order	Bank Name
41	Brass Stab
42	Swingy Brass1
43	Brass Hit
44	Swingy Brass2
45	Synth Brs Slide
46	Moody Saxes
47	Swingy Brass3
48	Big Band
49	Orch Hit
50	Brass Fall
51	DJ Basic Set
52	DJ FX Set
53	DJ No Kick Lp
54	Break Beatz
55	DJ Fills
56	Synth Seq
57	House Loop
58	Scratch Bank
59	Rave Set
60	Acid Bank
61	Comedy
62	Fanfare
63	Classical
64	Attention
65	Spanish Gtr
66	Xmas1
67	Xmas2
68	Drum Endings
69	Boogie Man
70	Big Bells
71	Tom Flam
72	Live! Kit1
73	Live! Kit2
74	Dance Kit
75	Live! Crash
76	Latin Perc1
77	Latin Perc2
78	Gong&Chime
79	Arabic Perc1
80	Arabic Perc2

Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display			Refer to the following pages in the Owner's Manual
STYLE	ACMP	FUNCTION	STYLE SETTING/CHORD FINGERING	FINGERING SELECTION	108
	AUTO FILL IN				
	OTS LINK				
	BREAK	MIXING CONSOLE	EFFECT (STYLE)	DSP	135
	INTRO 1		VOL/VOICE (STYLE)	VOICE	135
	INTRO 2			PANPOT	135
	INTRO 3			VOLUME	135
	MAIN A		FILTER (STYLE)	HARMONIC CONTENT	135
	MAIN B			BRIGHTNESS	135
	MAIN C		EFFECT (STYLE)	REVERB	135
	MAIN D			CHORUS	135
	ENDING 1		EQ (STYLE)	EQ HIGH	135
	ENDING 2			EQ LOW	135
	ENDING 3		MASTER COMPRESSOR	-	-
	SYNC START	FUNCTION	STYLE SETTING/SPLIT POINT	SYNCSTOP WINDOW SETTING	112
	SYNC STOP				
	START/STOP				
	POP & ROCK	MIXING CONSOLE	VOL/VOICE (STYLE)	VOICE	135
	BALLAD			PANPOT	135
	DANCE			VOLUME	135
	SWING & JAZZ	FUNCTION	STYLE SETTING/SPLIT POINT	SPLIT POINT (STYLE) SETTING	112
	R & B	MIXING CONSOLE	FILTER (STYLE)	HARMONIC CONTENT	135
	COUNTRY			BRIGHTNESS	135
	LATIN		EFFECT (STYLE)	REVERB	135
	BALLROOM PARTY			CHORUS	135
	MOVIE & SHOW			DSP	135
	WORLD		MASTER EQ EDIT	-	139
	PRESET		EQ (STYLE)	EQ HIGH	135
	USER/DISK			EQ LOW	135
SONG	GUIDE	FUNCTION	SONG SETTING	GUIDE MODE SETTING	48
	SP1	MIXING CONSOLE	VOL/VOICE (SONG 1-8)	VOLUME	135
	SP2		FILTER (SONG 1-8)	HARMONIC CONTENT	135
	SP3		TUNE	-	135
	SP4		EFFECT (SONG 1-8)	-	135
	LOOP		EQ (SONG 1-8)	-	135
	FF		EQ (SONG 9-16)	-	135
	RW		EFFECT (SONG 9-16)	-	135
	START/STOP		TUNE	-	135
	TOP		FILTER (SONG 9-16)	HARMONIC CONTENT	135
	REC		VOL/VOICE (SONG 9-16)	VOLUME	135
	I	FUNCTION	SONG SETTING	GUIDE MODE SETTING	48
	II	MIXING CONSOLE	MASTER COMPRESSOR	-	140
	III				
	IV	FUNCTION	SONG SETTING	-	92
	V	MIXING CONSOLE	LINE OUT PANEL	-	140
	VI		LINE OUT PERCUSSION	-	140
(Other buttons)	TAP TEMPO	FUNCTION	UTILITY	TAP	156
	TEMPO +		MIDI	MIDI CLOCK	146
	TEMPO -				
	METRONOME START/STOP		UTILITY	METRONOME	156
	FADE IN/OUT			FADE IN/OUT	156
TRANSPOSE	TRANSPOSE +	MIXING CONSOLE	TUNE	TRANSPOSE SETTING	135
	TRANSPOSE -	FUNCTION	CONTROLLER	TRANSPOSE ASSIGN	154
UPPER OCTAVE	UPPER OCTAVE +	MIXING CONSOLE	TUNE	OCTAVE	135
	UPPER OCTAVE -				
MULTI PAD	STOP	DIGITAL RECORDING	MULTIPAD CREATOR	REPEAT/CHORD MATCH	124
	1	MULTIPAD	EDITING THE MULTIPAD	-	124
	2				
	3				
	4				
MENU	DEMO	FUNCTION	UTILITY	OWNER	158
	HELP			CONFIG 2	156
	FUNCTION		MIDI	MIDI	145
	SOUND CREATOR	FUNCTON	MASTER TUNE /SCALE TUNE	MASTER TUNING	150
	DIGITAL RECORDING		VIDEO OUT	-	151

Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display			Refer to the following pages in the Owner's Manual
MIXING CONSOLE		MIXING CONSOLE	MASTER EQ EDIT	-	139
BALANCE		MIXING CONSOLE	TUNE	OCTAVE	135
CHANNEL ON/OFF		FUNCTION	SCALE TUNE	-	150
DIRECT ACCESS		-	-	-	-
NEXT		-	-	-	-
BACK		-	-	-	-
ENTER		-	-	-	-
EXIT		MAIN display	-	-	-
VOICE	PART SELECT LEFT	FUNCTION	VOICE SET	LEFT	151
	PART SELECT R1			R1	151
	PART SELECT R2			R2	151
	PART SELECT R3			R3	151
	PART ON/OFF LEFT			LEFT	151
	PART ON/OFF R1			R1	151
	PART ON/OFF R2			R2	151
	PART ON/OFF R3			R3	151
	INITIAL TOUCH		CONTROLLER	KEYBOARD/PANEL (INITIAL TOUCH)	154
	SUSTAIN			AFTER TOUCH	154
	LEFT HOLD		STYLE SETTING/SPLIT POINT	SPLIT POINT (LEFT)	112
	DSP	MIXING CONSOLE	EFFECT	DSP DEPTH	135
	VARIATION			EFFECT TYPE SELECTION	138
	HARMONY ECHO	FUNCTION	HARMONY/ECHO	-	154
	POLY/MONO	MIXING CONSOLE	TUNE	PORTAMENTO TIME	
	PIANO	MIXING CONSOLE	VOL/VOICE	VOICE	135
	E.PIANO			PAN	135
	ORGAN			VOLUME	135
	STRINGS		TUNE	PORTAMENT TIME SETTING	135
	CHOIR		FILTER	HARMONIC CONTENT	135
	BRASS			BRIGHTNESS	135
	TRUMPET		TUNE	PITCHBEND RANGE	135
	SAXOPHONE			OCTAVE	135
	FLUTE/CLARINET			TUNING	135
	GUITAR		EFFECT	REVERB	135
	BASS			CHORUS	135
	PERC./DRUM KIT			DSP	135
	ACCORDION		MASTER EQ EDIT	-	139
	PAD		EQ	EQ HIGH	135
	SYNTH			EQ LOW	135
	ORGAN FLUTES			-	139
	CUSTOM VOICE	FUNCTION	UTILITY	CONFIG 2	156
	USER		VOICE SET	-	151
MUSIC FINDER		MUSIC FINDER	MUSIC FINDER SEARCH 1	-	41
ONE TOUCH SETTING	1	STYLE SETTING/SPLIT POINT	SPLIT POINT (S) SETTING	-	112
	2				
	3				
	4				
MIC.	VOCAL HARMONY	MIXING CONSOLE	EFFECT	MIC.REVERB	135
	TALK	VOCAL HARMONY	TALK SETTING	VOLUME	132
	EFFECT	MIXING CONSOLE	EFFECT	MIC.DSP	135
	VH TYPE SELECT	VOCAL HARMONY	VOCAL HARMONY EDIT	-	130
	MIC SETTING	MIXING CONSOLE	EFFECT	MIC.EFFECT TYPE SELECT	138
REGIST	REGIST BANK	FUNCTION	REGISTRATION SEQUENCE	-	128
	FREEZE		FREEZE	-	128
	MEMORY		REGISTRATION SEQUENCE	-	128
	1	REGISTRATION BANK	REGISTRATION EDIT	-	62
	2				
	3				
	4				
	5				
	6				
	7				
	8				
PEDAL	PEDAL 1	FUNCTION	CONTROLLER	PEDAL 1	152
	PEDAL 2			PEDAL 2	152
	PEDAL 3			PEDAL 3	152
WHEEL	MODULATION	FUNCTION	CONTROLLER	KEYBORD/PANEL	154
	PITCH BEND	MIXING CONSOLE	TUNE	PITCHBEND RANGE	135

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"	Note
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	Root position only
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)	
	1+2+3+♯4+(5)+7		
Add ninth [(9)]	1+2+3+5	C9	
Major seventh ninth [M7_9]	1+2+3+(5)+7	CM7(9)	
Sixth ninth [6_9]	1+2+3+(5)+6	C6(9)	Root position only
	3+6+2		
Flatted fifth [(♭5)]	1+3+♭5	C♭5	Except 2nd inversion
Augmented [aug]	1+3+♯5	Caug	Root position only
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	Root position only
Minor seventh [m7]	1+♭3+(5)+♭7	Cm7	Except 1st inversion
Minor seventh flatted fifth [m7♭5]	1+♭3+♭5+♭7	Cm7(♭5)	Except 1st inversion
Minor add ninth [m(9)]	1+2+♭3+5	Cm9	
Minor seventh ninth [m7(9)]	1+2+♭3+(5)+♭7	Cm7(9)	
	♭3+♭7+2		
Minor seventh eleventh [m7(11)]	1+(2)+♭3+4+5+(♭7)	Cm7(11)	Except 1st inversion
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	Root position only
Seventh [7]	1+(3)+5+♭7	C7	
	1+3+(5)+♭7		
Seventh suspended fourth [7sus4]	1+4+5+♭7	C7sus4	
Seventh ninth [7(9)]	1+2+3+(5)+♭7	C7(9)	
	3+♭7+2		
Seventh add sharp eleventh [7(♯11)]	1+(2)+3+♯4+5+♭7	C7(♯11)	
	1+2+3+♯4+(5)+♭7		
Seventh add thirteenth [7(13)]	1+3+(5)+6+♭7	C7(13)	
	3+6+♭7		
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	Root position only
One plus two plus five [sus2]	1+2+5	Csus2	Root position only
cancel	1+♭2+2	Cancel	

* Notes in parentheses can be omitted.

Reverb Block

Type	MSB	LSB
HALL 1	1	0
HALL 2	1	16
HALL 3	1	17
HALL 4	1	18
HALL 5	1	1
HALL M	1	6
HALL L	1	7
ROOM 1	2	16
ROOM 2	2	17
ROOM 3	2	18
ROOM 4	2	19
ROOM 5	2	0
ROOM 6	2	1
ROOM 7	2	2
ROOM S	2	5
ROOM M	2	6
ROOM L	2	7
STAGE 1	3	16
STAGE 2	3	17
STAGE 3	3	0
STAGE 4	3	1
PLATE 1	4	16
PLATE 2	4	17
PLATE 3	4	0
GM PLATE	4	7
WHITE ROOM	16	0
TUNNEL	17	0
CANYON	18	0
BASEMENT	19	0
LARGE HALL	1	2
MEDIUM HALL	1	3
WARM ROOM	2	3
WOODY ROOM	2	4
RICH PLATE	4	1
NO EFFECT	0	0

Chorus Block

Type	MSB	LSB
CHORUS 1	66	17
CHORUS 2	66	8
CHORUS 3	66	16
CHORUS 4	66	1
CHORUS 5	65	2
CHORUS 6	65	0
CHORUS 7	65	1
CHORUS 8	65	8
GM CHORUS 1	65	3
GM CHORUS 2	65	4
GM CHORUS 3	65	5
GM CHORUS 4	65	6
FB CHORUS	65	7
CELESTE 1	66	0
CELESTE 2	66	2
FLANGER 1	67	8
FLANGER 2	67	16
FLANGER 3	67	17
FLANGER 4	67	1
FLANGER 5	67	0
GM FLANGER	67	7
SYMPHONIC 1	68	16
SYMPHONIC 2	68	0
PHASER 1	72	0
ENS DETUNE	87	0
ROTARY SP 5	66	18
NO EFFECT	0	0

DSP1~6 Block

Panel Block Name	XG Block Name
DSP 1	XG Variation Block
DSP 2	XG Insertion 1 Block
DSP 3	XG Insertion 2 Block
DSP 4	XG Insertion 3 Block
DSP 5	XG Insertion 4 Block
DSP 6	XG Insertion 5 Block

Type		MSB	LSB
HALL 1		1	0
HALL 2		1	16
HALL 3		1	17
HALL 4		1	18
HALL 5		1	1
HALL M		1	6
HALL L		1	7
ROOM 1		2	16
ROOM 2		2	17
ROOM 3		2	18
ROOM 4		2	19
ROOM 5		2	0
ROOM 6		2	1
ROOM 7		2	2
ROOM S		2	5
ROOM M		2	6
ROOM L		2	7
STAGE 1		3	16
STAGE 2		3	17
STAGE 3		3	0
STAGE 4		3	1
PLATE 1		4	16
PLATE 2		4	17
PLATE 3		4	0
GM PLATE		4	7
WHITE ROOM		16	0
TUNNEL		17	0
CANYON		18	0
BASEMENT		19	0
CHORUS 1		66	17
CHORUS 2		66	8
CHORUS 3		66	16
CHORUS 4		66	1
CHORUS 5		65	2
CHORUS 6		65	0
CHORUS 7		65	1
CHORUS 8		65	8
GM CHORUS 1		65	3
GM CHORUS 2		65	4
GM CHORUS 3		65	5
GM CHORUS 4		65	6
FB CHORUS		65	7
CELESTE 1		66	0
CELESTE 2		66	2
SYMPHONIC 1		68	16
SYMPHONIC 2		68	0
ENS DETUNE	(Ensemble Detune)	87	0
KARAOKE 1		20	0
KARAOKE 2		20	1
KARAOKE 3		20	2
ER 1		9	0
ER 2		9	1
GATE REVERB		10	0
REVERS GATE		11	0
EQ DISCO		76	16
EQ TEL		76	17
2BAND EQ		77	0
3BAND EQ		76	0
HM ENHANCE 1	(Harmonic Enhancer 1)	81	16
HM ENHANCE 2	(Harmonic Enhancer 2)	81	0
FLANGER 1		67	8
FLANGER 2		67	16
FLANGER 3		67	17
FLANGER 4		67	1
FLANGER 5		67	0
GM FLANGER		67	7
V_FLANGER		104	0
T_FLANGER		107	0
DYN FLANGER		110	0
DELAY LCR 1		5	16
DELAY LCR 2		5	0
DELAY LR		6	0
ECHO		7	0
CROSS DELAY		8	0
TEMPO DELAY		21	0
TEMPO ECHO		21	8
TEMPO CROSS		22	0
DIST HEAVY	(Distortion Heavy)	73	0
ST DIST	(Stereo Distortion)	73	8

Type		MSB	LSB
COMP+DIST 1	(Compressor + Distortion 1)	73	16
COMP+DIST 2	(Compressor + Distortion 2)	73	1
OVERDRIVE		74	0
ST OD	(Stereo Overdrive)	74	8
DIST HARD	(Distortion Hard)	75	16
DIST HARD 2	(Distortion Hard 2)	75	22
DIST SOFT	(Distortion Soft)	75	17
DIST SOFT 2	(Distortion Soft 2)	75	23
ST DIST HARD	(Stereo Distortion Hard)	75	18
ST DIST SOFT	(Stereo Distortion Soft)	75	19
V_DIST HARD	(V Distortion Hard)	98	0
V_DIST SOFT	(V Distortion Soft)	98	2
AMP SIM 1	(Amp Simulator 1)	75	0
AMP SIM 2	(Amp Simulator 2)	75	1
ST AMP 1	(Stereo Amp Simulator 1)	75	20
ST AMP 2	(Stereo Amp Simulator 2)	75	21
ST AMP 3	(Stereo Amp Simulator 3)	75	8
DST+DELAY 1	(Distortion + Delay 1)	95	16
DST+DELAY 2	(Distortion + Delay 2)	95	0
OD+DELAY 1	(Overdrive + Delay 1)	95	17
OD+DELAY 2	(Overdrive + Delay 2)	95	1
CMP+DST+DLY 1	(Compressor + Distortion + Delay 1)	96	16
CMP+DST+DLY 2	(Compressor + Distortion + Delay 2)	96	0
CMP+OD+DLY 1	(Compressor + Overdrive + Delay 1)	96	17
CMP+OD+DLY 2	(Compressor + Overdrive + Delay 2)	96	1
V_DST H+DLY	(V Distortion Hard + Delay)	98	1
V_DST S+DLY	(V Distortion Soft + Delay)	98	3
DST+TDLY	(Distortion + Tempo Delay)	100	0
OD+TDLY	(Overdrive + Tempo Delay)	100	1
CMP+DST+TDL	(Compressor + Distortion + Tempo Delay)	101	0
CMP+OD+TDLY	(Compressor + Overdrive + Tempo Delay)	101	1
V_DST H+TDLY	(V Distortion Hard + Tempo Delay)	103	0
V_DST S+TDLY	(V Distortion Soft + Tempo Delay)	103	1
MBAND COMP		105	0
COMPRESSOR		83	0
NOISE GATE		84	0
VCE CANCEL	(Voice Cancel)	85	0
AMBIENCE		88	0
TALKING MOD	(Talking Modulation)	93	0
LO-FI		94	0
DYN FILTER		109	0
DYN RINGMOD		112	0
RING MOD		113	0
SLICE		114	0
ISOLATOR		115	0
LOW RESO		116	0
D TURNTABLE		117	0
D SCRATCH		118	0
PHASER 1		72	0
PHASER 2		72	8
EP PHASER 1		72	17
EP PHASER 2		72	18
EP PHASER 3		72	16
T_PHASER		108	0
DYN PHASER		111	0
PITCH CHG 1	(Pitch Change 1)	80	16
PITCH CHG 2	(Pitch Change 2)	80	0
PITCH CHG 3	(Pitch Change 3)	80	1
ROTARY SP 1	(Rotary Speaker 1)	69	16
ROTARY SP 2	(Rotary Speaker 2)	71	17
ROTARY SP 3	(Rotary Speaker 3)	71	18
ROTARY SP 4	(Rotary Speaker 4)	70	17
ROTARY SP 5	(Rotary Speaker 5)	66	18
ROTARY SP 6	(Rotary Speaker 6)	69	0
ROTARY SP 7	(Rotary Speaker 7)	71	22
2WAY ROT SP	(2way Rotary Speaker)	86	0
DST+ROT SP	(Distortion + Rotary Speaker)	69	1
DST+2ROT SP	(Distortion + 2way Rotary Speaker)	86	1
OD+ROT SP	(Overdrive + Rotary Speaker)	69	2
OD+2ROT SP	(Overdrive + 2way Rotary Speaker)	86	2
AMP+ROT SP	(Amp Simulator + Rotary Speaker)	69	3
AMP+2ROT SP	(Amp Simulator + 2way Rotary Speaker)	86	3
DUAL ROT SP 1	(Dual Rotor Speaker 1)	99	0
DUAL ROT SP 2	(Dual Rotor Speaker 2)	99	1
AUTO PAN 1		71	16
AUTO PAN 2		71	0
EP AUTOPAN		71	21
AUTO PAN 3		71	1
TREMOLO 1		70	16
TREMOLO 2		71	19
TREMOLO 3		70	0
EP TREMOLO		70	18
GT TREMOLO 1	(Guitar Tremolo 1)	71	20
GT TREMOLO 2	(Guitar Tremolo 2)	70	19
AUTO WAH 1		78	16
AUTO WAH 2		78	0

Type		MSB	LSB
AT WAH+DST 1	(Auto Wah + Distortion 1)	78	17
AT WAH+DST 2	(Auto Wah + Distortion 2)	78	1
AT WAH+OD 1	(Auto Wah + Overdrive 1)	78	18
AT WAH+OD 2	(Auto Wah + Overdrive 2)	78	2
TOUCH WAH 1		82	0
TOUCH WAH 2		82	8
TC WAH+DST 1	(Touch Wah + Distortion 1)	82	16
TC WAH+DST 2	(Touch Wah + Distortion 2)	82	1
TC WAH+OD 1	(Touch Wah + Overdrive 1)	82	17
TC WAH+OD 2	(Touch Wah + Overdrive 2)	82	2
CLAVI TC WAH	(Clavi Touch Wah)	82	18
EP TC WAH	(EP Touch Wah)	82	19
WH+DST+DLY 1	(Wah + Distortion + Delay 1)	97	16
WH+DST+DLY 2	(Wah + Distortion + Delay 2)	97	0
WH+DST+TDLY	(Wah + Distortion + Tempo Delay)	102	0
WH+OD+DLY 1	(Wah + Overdrive + Delay 1)	97	17
WH+OD+DLY 2	(Wah + Overdrive + Delay 2)	97	1
WH+OD+TDLY	(Wah + Overdrive + Tempo Delay)	102	1
NO EFFECT		0	0
THRU		64	0

Parameters marked with a ● in the "Control" column can be controlled from an AC1 (assignable cotroller1), etc. However, these only affect insertion type effects.

XG Effect Name — Type MSB (Type LSB)

HALL1,HALL2 — **MSB = 01, LSB = 0, 1, 6, 7, 16-**
ROOM1,ROOM2,ROOM3 — **MSB = 02, LSB = 0, 1, 2, 5, 6, 7, 16-**
STAGE1,STAGE2 — **MSB = 03**
PLATE (Reverb, Variation, Insertion block) — **MSB = 04, LSB = 0, 7, 16-**

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~99.3mS	0-63	table#5	
4	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k~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~99.3mS	0-63	table#5	
12	Density	0~4	0-4		
13	Er/Rev Balance	E63>R ~ E=R ~ E<R63	1-127		
14	High Damp	0.1~1.0	1-10		
15	Feedback Level	-63~+63	1-127	table#16	
16					

LARGE HALL, MEDIUM HALL — **MSB = 01, LSB = 2, 3**
WARM ROOM, WOODY ROOM — **MSB = 02, LSB = 3, 4**
RICH PLATE (Reverb block) — **MSB = 04, LSB = 1**

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~99.3mS	0-63	table#5	
4	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k~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 L,C,R (Variation, Insertion block) — **MSB = 05**

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 L,R (Variation, Insertion block) — **MSB = 06**

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 (Variation, Insertion block) — **MSB = 07**

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 (Variation, Insertion block) — **MSB = 08**

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		

EARLY REF1,EARLY REF2 (Variation, Insertion block) — **MSB = 09**

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5		
2	Room Size	0.1~7.0	0-44	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	1.0k~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**
REVERSE GATE (Variation, Insertion block) — **MSB = 11**

No.	Parameter	Display	Value	See Table	Control
1	Type	TypeA,TypeB	0-1		
2	Room Size	0.1~7.0	0-44	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	1.0k~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 (Reverb, Variation, Insertion block) — **MSB = 19**

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~99.3mS	0-63	table#5	
4	HPF Cutoff	Thru~8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0k~Thru	34-60	table#3	
6	Width	0.5~10.2m	0-37	table#11	
7	Heigt	0.5~20.2m	0-73	table#11	
8	Depth	0.5~30.2m	0-104	table#11	
9	Wall Vary	0~30	0-30		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127	table#15	●
11	Rev Delay	0.1mS~99.3mS	0-63	table#5	
12	Density	0~4	0-4		
13	Er/Rev Balance	E63>R ~ E=R ~ E<R63	1-127		
14	High Damp	0.1~1.0	1-10		
15	Feedback Level	-63~+63	1-127	table#16	
16					

KARAOKE1,2,3 (Variation, Insertion block) — **MSB = 20**

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	1.0k~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
TEMPO ECHO (Variation, Insertion block) — **MSB = 21**

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	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		

TEMPO CROSS (Variation, Insertion block) **MSB = 22**

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	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		

CHORUS1,2,3,4 **MSB = 65**
CELESTE1,2,3,4 (Chorus, Variation, Insertion block) **MSB = 66**

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	1.0~12.0	10-120		
14					
15	Input Mode	mono/stereo	0-1		
16					

FLANGER1,2,3 (Chorus, Variation, Insertion block) **MSB = 67**

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	1.0~12.0	10-120		
14	LFO Phase Difference	-180~+180deg(resolution=3deg.)	4-124		
15					
16					

SYMPHONIC (Chorus, Variation, Insertion block) **MSB = 68**

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	1.0~12.0	10-120		
14					
15					
16					

ROTARY SPEAKER (Variation, Insertion block) **MSB = 69, LSB = 0, 16**

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	1.0~12.0	10-120		
14					
15					
16					

DISTORTION+ROTARY SPEAKER **MSB = 69, LSB = 1**
OVERDRIVE+ROTARY SPEAKER (Variation, Insertion block) **MSB = 69, LSB = 2**

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0~39.7Hz	0-127	table#1	●
2	LFO Depth	0~127	0-127	table#19	
3					
4					
5					
6	EQ Low Frequency	32~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12 ~ +12dB	52-76		
8	EQ High Frequency	500 ~ 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 Cuttoff	1kHz~Thru	34-60	table#3	
16	Output Level	0~127	0-127	table#18	

AMP SIM.+ROTARY SPEAKER (Variation, Insertion block) **MSB = 69, LSB = 3**

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.0~39.7Hz	0-127	table#1	●
2	LFO Depth	0~127	0-127	table#19	
3	AMP Type	Off,Stack,Combo,Tube	0-3		
4					
5					
6	EQ Low Frequency	32~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12 ~ +12dB	52-76		
8	EQ High Frequency	500 ~ 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 Cuttoff	1kHz~Thru	34-60	table#3	
16	Output Level	0~127	0-127	table#18	

TREMOLO (Variation, Insertion block) **MSB = 70**

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	1.0~12.0	10-120		
14	LFO Phase Difference	-180~+180deg(resolution=3deg.)	4-124		
15	Input Mode	mono/stereo	0-1		
16					

AUTO PAN (Variation, Insertion block) **MSB = 71, LSB = 0, 16-22 (or 16-)**

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	1.0~12.0	10-120		
14					
15					
16					

AUTO PAN2 (Variation, Insertion block) **MSB = 71, LSB = 1**

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz~39.7Hz	0-127	table#1	●
2	L/R Depth	0~127	0-127		
3	F/R Depth	0~127	0-127		
4	PAN Direction	L<->R,L->R,L<-R,Lturn,Rturn,L/R	0-5		
5	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	1.0~12.0	10-120		
14					
15	Input Mode	Mono,Stereo	0-1		
16					

PHASER 1 (Chorus, Variation, Insertion block) **MSB = 72, LSB = 0, 16, 17, 18**

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					
15					
16					

PHASER 2 (Variation, Insertion block) **MSB = 72, LSB = 8**

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					

DISTORTION **MSB = 73, LSB = 0**
OVERDRIVE (Variation, Insertion block) **MSB = 74, LSB = 0**

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	1.0k~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	1.0~12.0	10-120		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127	table#15	
11	Edge(Clip Curve)	0~127	0-127	mild~sharp	
12					
13					
14					
15					
16					

COMP+DIST (Variation, Insertion block) **MSB = 73, LSB = 1, 16**

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	1.0k~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	1.0~12.0	10-120		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1-127	table#15	
11	Edge(Clip Curve)	0~127	0-127	mild~sharp	
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					

STEREO DISTORTION **MSB = 73, LSB = 8**
STEREO OVER DRIV (Variation, Insertion block) **MSB = 74, LSB = 8**

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

AMP SIMULATOR (Variation, Insertion block) **MSB = 75, LSB = 0, 16, 17, 22, 23**

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	1.0k~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	0-127	mild~sharp	
12					
13					
14					
15					
16					

AMP SIMULATOR2 (Variation, Insertion block) **MSB = 75, LSB = 1**

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	1.0k~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					

STEREO AMP SIMULATOR (Variation, Insertion block) **MSB = 75, LSB = 8, 18-21**

No.	Parameter	Display	Value	See Table	Control
1	Drive	0~127	0-127		●
2	AMP Type	Off,Stack,Combo,Tube	0-3		
3	LPF Cuttoff	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	0-127	mild~sharp	
12					
13					
14					
15					
16					

3BAND EQ(MONO) (Variation, Insertion block) **MSB = 76**

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	-12~+12dB	52-76		
2	EQ Mid Frequency	100Hz~10.0kHz	14-54	table#3	
3	EQ Mid Gain	-12~+12dB	52-76		
4	EQ Mid Width	1.0~12.0	10-120		
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(STEREO) (Variation, Insertion block) **MSB = 77**

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 WAH (Variation, Insertion block) **MSB = 78, LSB = 0, 16**

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					

AUTO WAH+DIST **MSB = 78, LSB = 1, 17**
AUTO WHA+ODRV (Variation, Insertion block) **MSB = 78, LSB = 2, 18**

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					

PITCH CHANGE 1 (Variation, Insertion block) **MSB = 80, LSB = 0, 16**

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 CHANGE 2 (Variation, Insertion block) **MSB = 80, LSB = 1**

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

HARMONIC ENHANCER (Variation, Insertion block) MSB = 81

No.	Parameter	Display	Value	See Table	Control
1	HPF Cutoff	500Hz~16.0kHz	28-58	table#3	
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 WAH 1 MSB = 82, LSB = 0
TOUCH WAH+DIST (Variation, Insertion block) MSB = 82, LSB = 1, 16

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	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 WAH 2 MSB = 82, LSB = 8
TOUCH WAH+ODRV (Variation, Insertion block) MSB = 82, LSB = 2, 17, 18, 19

No.	Parameter	Display	Value	See Table	Control
1	Sensitive	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 (Variation, Insertion block) MSB = 83

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 (Variation, Insertion block) MSB = 84

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					

VOICE CANCEL (Variation, Insertion block) MSB = 85

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 ROTARY SPEAKER (Variation, Insertion block) MSB = 86, LSB = 0

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					

DIST+2WAY ROTARY SPEAKER MSB = 86, LSB = 1
OD+2WAY ROTARY SPEAKER (Variation, Insertion block) MSB = 86, LSB = 2

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	32~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12 ~ +12dB	52-76		
8	EQ High Frequency	500 ~ 16.0kHz	28-58	table#3	
9	EQ High Gain	-12 ~ +12dB	52-76		
10					
11	Crossover Frequency	100 ~ 10.0kHz	14-54	table#3	
12	Mic L-R Angle	0 ~ 180deg (resolution=3deg.)	0-60		
13					
14	Drive	0~127	0-127		
15	LPF Cuttoff	1kHz~Thru	34-60	table#3	
16	Output Level	0~127	0-127	table#18	

AMP SIM.+2WAY ROTARY SP (Variation, Insertion block) MSB = 86, LSB = 3

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	32~2.0kHz	4-40	table#3	
7	EQ Low Gain	-12 ~ +12dB	52-76		
8	EQ High Frequency	500 ~ 16.0kHz	28-58	table#3	
9	EQ High Gain	-12 ~ +12dB	52-76		
10					
11	Crossover Frequency	100 ~ 10.0kHz	14-54	table#3	
12	Mic L-R Angle	0 ~ 180deg (resolution=3deg.)	0-60		
13	AMP Type	Off,Stack,Combo,Tube(AMPSIM only)	0-3		
14	Drive	0~127	0-127		
15	LPF Cuttoff	1kHz~Thru	34-60	table#3	
16	Output Level	0~127	0-127	table#18	

ENSEMBLE DETUNE (Chorus Variation, Insertion block) MSB = 87

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 (Variation, Insertion block) MSB = 88

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.0mS~50mS	0-127	table#2	
2	Output Phase	normal/invers	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 MODULATION (Variation, Insertion block) MSB = 93

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 (Variation, Insertion block) **MSB = 94**

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	0-1		
16					

DIST+DELAY
OVERDRIVE+DELAY (Variation, Insertion block) **MSB = 95**

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					

COMP+DIST+DELAY
COMP+OVERDRIVE+DELAY (Variation, Insertion block) **MSB = 96**

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					

WAH+DIST+DELAY
WAH+OVERDRIVE+DELAY (Variation, Insertion block) **MSB = 97**

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 Sensitive	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 DISTORTION HARD **MSB = 98, LSB = 0**
V DISTORTION SOFT (Variation, Insertion block) **MSB = 98, LSB = 2**

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

V DISTORTION HARD+DELAY **MSB = 98, LSB = 1**
V DISTORTION SOFT+DELAY (Variation, Insertion block) **MSB = 98, LSB = 3**

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

DUAL ROTOR SPEAKER1,2 (Variation, Insertion block) **MSB = 99**

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	32~2.0kH	4-40	table#3	
12	EQ Low Gain	-12 ~ +12dB	52-76		
13	EQ High Frequency	500 ~ 16.0kHz	28-58	table#3	
14	EQ High Gain	-12 ~ +12dB	52-76		
15	Mic L-R Angle	0 ~ 180deg (resolution=3deg.)	0-60		
16	Speed Control	Slow/Fast	0-1		●

DIST+TEMPO DELAY
OVERDRIVE+TEMPO DELAY (Variation, Insertion block) **MSB = 100**

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 High 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					

COMP+DIST+TEMPO DELAY
COMP+OD+TEMPO DELAY (Variation, Insertion block) **MSB = 101**

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 High 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					

WAH+DIST+TEMPO DELAY
WAH+OD+TEMPO DELAY (Variation, Insertion block) **MSB = 102**

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 High 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 Sensitive	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+TEMPO DELAY
V DIST SOFT+TEMPO DELAY (Variation, Insertion block) MSB = 103

No.	Parameter	Display	Value	See Table	Control
1	Overdrive	0~100%	0-100		
2	Device	Transister/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					
13					
14					
15					
16					

V-FLANGER (Variation, Insertion block) MSB = 104

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	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 ~ 36.2[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		

MULTI BAND COMP BASIC (Variation, Insertion block) MSB = 105

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					

TEMPO FLANGER (Variation, Insertion block) MSB = 107

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	16th ~ 4thx8	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	LFO Phase Reset	Off(free run)	0		
6	EQ Low Frequency	32[Hz] ~ 2.0[kHz]	4 - 40	table#3	
7	EQ Low Gain	-12 ~ +12[dB]	52 - 76		
8	EQ High Frequency	500[Hz] ~ 16.0[kHz]	28 - 58	table#3	
9	EQ High Gain	-12 ~ +12[dB]	52 - 76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1 - 127	table#15	●
11	EQ Mid Frequency	100[Hz] ~ 10.0[kHz]	14 - 54	table#3	
12	EQ Mid Gain	-12 ~ +12[dB]	52 - 76		
13	EQ Mid Width	1.0 ~ 12.0	10 - 120		
14	LFO Phase Difference	-180 ~ +180[deg] (resolution=3deg.)	4 - 124		
15					
16					

TEMPO PHASER (Variation, Insertion block) MSB = 108

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	16th ~ 4thx8	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	LFO Phase Reset	Off(free run)	0		
6	EQ Low Frequency	32[Hz] ~ 2.0[kHz]	4 - 40	table#3	
7	EQ Low Gain	-12 ~ +12[dB]	52 - 76		
8	EQ High Frequency	500[Hz] ~ 16.0[kHz]	28 - 58	table#3	
9	EQ High Gain	-12 ~ +12[dB]	52 - 76		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1 - 127	table#15	●
11	Stage	3~6	3 - 6		
12					
13	LFO Phase Difference	-180 ~ +180[deg] (resolution=3deg.)	4 - 124		
14					
15					
16					

DYNA FILTER (Variation, Insertion block) MSB = 109

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		

DYNA FLANGER (Variation, Insertion block) MSB = 110

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		

DYNA PHASER (Variation, Insertion block) MSB = 111

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	4~6	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		

DYNA RING MODULATOR (Variation, Insertion block) MSB = 112

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 ~ 127	0 - 127		●
2	HPF Cutoff	Thru(20[Hz])~8.0[kHz]	0 - 52	table#3	
3	LPF Cutoff	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 MODULATOR (Variation, Insertion block) MSB = 113

No.	Parameter	Display	Value	See Table	Control
1	Carrier Freq Course	0.7[Hz] ~ 5002.6Hz	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 Frequency	0.0 ~ 39.70[Hz]	0 - 127	table#1	
6	HPF Cutoff	Thru(20[Hz]) ~ 8.0[kHz]	0 - 52	table#3	
7	LPF Cutoff	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		

SLICE (Variation, Insertion block) MSB = 114

No.	Parameter	Display	Value	See Table	Control
1	Divide Type	16th ~ 4th	5 - 11	table#14	
2	Gate Time	0 ~ 100[%]	0 - 100		●
3	Pan Aeg Type	A ~ E	0 - 4		
4	Pan Aeg Min Level	0 ~ 127	0 - 127		
5	Pan Depth	-63 ~ +63	1 - 127		
6	Divide Min Level	0 ~ 127	0 - 127		
7	Pan Type	A ~ J	0 - 9		
8	Drive	0 ~ 127	0 - 127		
9	AEG Phase	0 ~ 15 (x16th note)	0 - 15		
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 (Variation, Insertion block) MSB = 115

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					

LOW RESOLUTION (Variation, Insertion block) **MSB = 116**

No.	Parameter	Display	Value	See Table	Control
1	Mod Depth	0 ~ 127	0 - 127		●
2	Mod Delay Offset	1 ~ 127	1 - 127		
3	Mod Feedback	-63 ~ +63	1 - 127		
4	Resolution	1,1/2 ~ 1/128	0 - 7		
5	Mod Mix Balance	0 ~ 127	0 - 127		
6	Phase Inverse R	Off,Wet,Wet+Dry	0 - 2		
7					
8					
9					
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1 - 127	table#15	
11					
12					
13					
14					
15					
16					

DIGITAL TURNTABLE (Variation, Insertion block) **MSB = 117**

No.	Parameter	Display	Value	See Table	Control
1	Click Density	0 ~ 5	0 - 5		●
2	Click Level	0 ~ 127	0 - 127		
3	Noise Tone	0 ~ 6	0 - 6		
4	Noise Mod Speed	0.00 ~ 39.7[Hz]	0 - 127	table#1	
5	Noise Mod Depth	0 ~ 127	0 - 127		
6	Dry Send to Noise	0 ~ 127	0 - 127		
7	Noise LPF Freq	1.0[kHz] ~ Thru(20.0[kHz])	34 - 60	table#3	
8	Noise LPF Q	1.0 ~ 12.0	10 - 120		
9	Noise Level	0 ~ 127	0 - 127		
10					
11	Dry Level	0 ~ 127	0 - 127		
12	Dry LPF Frequency	1.0[kHz] ~ Thru(20.0[kHz])	34 - 60	table#3	
13					
14					
15					
16					

DIGITAL SCRATCH (Variation, Insertion block) **MSB = 118**

No.	Parameter	Display	Value	See Table	Control
1	Input Level	0 ~ 127	0 - 127		●
2	Initial Delay	0.1 ~ 460.0[ms]	1 - 4600		
3	Scratch Speed	1 ~ 127	1 - 127		
4	Scratch Depth	0 ~ 127	0 - 127		
5	Auto Pan Speed	0.00 ~ 39.7[Hz]	0 - 127	table#1	
6	Auto Pan Depth	0 ~ 127	0 - 127		
7	EQ Frequency	100[Hz] ~ 10.0[kHz]	14 - 54	table#3	
8	EQ Gain	-12 ~ +12[dB]	52 - 76		
9	EQ Width	1.0 ~ 12.0	10 - 120		
10	Dry/Wet	D63>W ~ D=W ~ D<W63	1 - 127	table#15	
11	HPF Frequency	Thru(20Hz) ~ 8.0[kHz]	0 - 52	table#3	
12					
13					
14					
15					
16					

NO EFFECT **MSB = 0**

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

THRU (Variation, Insertion block) **MSB = 64**

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

Parameter 10 Dry/Wet only affects insertion type effects.

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
0	0.1	32	5.1
1	0.3	33	5.3
2	0.4	34	5.4
3	0.6	35	5.6
4	0.7	36	5.7
5	0.9	37	5.9
6	1.0	38	6.1
7	1.2	39	6.2
8	1.4	40	6.4
9	1.5	41	6.5
10	1.7	42	6.7
11	1.8	43	6.8
12	2.0	44	7.0
13	2.1		
14	2.3		
15	2.5		
16	2.6		
17	2.8		
18	2.9		
19	3.1		
20	3.2		
21	3.4		
22	3.5		
23	3.7		
24	3.9		
25	4.0		
26	4.2		
27	4.3		
28	4.5		
29	4.6		
30	4.8		
31	5.0		

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(%)	Data	Value(%)
1	-99.21	33	-48.82	65	1.57	97	51.97
2	-97.63	34	-47.24	66	3.15	98	53.54
3	-96.06	35	-45.67	67	4.72	99	55.11
4	-94.48	36	-44.09	68	6.30	100	56.69
5	-92.91	37	-42.52	69	7.87	101	58.26
6	-91.33	38	-40.94	70	9.45	102	59.84
7	-89.76	39	-39.37	71	11.02	103	61.41
8	-88.18	40	-37.79	72	12.60	104	62.99
9	-86.61	41	-36.22	73	14.17	105	64.56
10	-85.03	42	-34.64	74	15.75	106	66.14
11	-83.46	43	-33.07	75	17.32	107	67.71
12	-81.89	44	-31.49	76	18.90	108	69.29
13	-80.31	45	-29.92	77	20.47	109	70.86
14	-78.74	46	-28.35	78	22.05	110	72.44
15	-77.16	47	-26.77	79	23.62	111	74.01
16	-75.59	48	-25.20	80	25.20	112	75.59
17	-74.01	49	-23.62	81	26.77	113	77.16
18	-72.44	50	-22.05	82	28.34	114	78.74
19	-70.86	51	-20.47	83	29.92	115	80.31
20	-69.29	52	-18.90	84	31.49	116	81.88
21	-67.71	53	-17.32	85	33.07	117	83.46
22	-66.14	54	-15.75	86	34.64	118	85.03
23	-64.56	55	-14.17	87	36.22	119	86.61
24	-62.99	56	-12.60	88	37.79	120	88.18
25	-61.41	57	-11.02	89	39.37	121	89.76
26	-59.84	58	-9.45	90	40.94	122	91.33
27	-58.26	59	-7.87	91	42.52	123	92.91
28	-56.69	60	-6.30	92	44.09	124	94.48
29	-55.12	61	-4.72	93	45.67	125	96.06
30	-53.54	62	-3.15	94	47.24	126	97.63
31	-51.97	63	-1.57	95	48.82	127	99.21
32	-50.39	64	0	96	50.39		

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

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

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

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

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

STRUM
MULTI ASSIGN
ECHO
TREMOLO
TRILL

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	Karaoke Pitch	KaraokPich	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

Settings are saved/called up for each type.

Data Type	The data is saved...	The data is called up...	Saved Location
Setup	When you change settings in a display page and then exit from the page.	When you turn off the power and then turn on the power.	System area of the internal memory (Flash ROM)
UserEffect	When saving a User Effect.	When selecting a UserEffect.	
MusicFinder	When changing the property of the Music Finder or importing a Style file.	When selecting a Record of the Music Finder.	
Voice	When you change the settings in the Sound Creator or Mixing Console display and then save the data as a Voice file.	When you call up a voice.	VoiceFile
Song	When you save the recorded or edited (current) song as a Song file.	When you call up a song, play a song or move the song position.	SongFile
Style	When you save the recorded or edited data as a Style file.	When you call up a style.	StyleFile
OTS	When you memorize settings with the REGISTRATION buttons and then save the current style as a Style file.	When you call up an OTS by pressing one of OTS buttons.	
Regist	When you memorize settings with the REGISTRATION buttons and then save the data as a Registaration Bank File.	When you call up an Regist. by pressing one of REGISTRATION MEMORY buttons.	RegistBankFile

If parameters belonging to more than one type are set, the new settings take priority over the old.

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
Main Window															
Transpose	X	X	X	X	X	-	X	-	X	X	X	O	Tune/Trans	-	
Upper Octave	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Split Point (Style)	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Style	Split	
Split Point (Left)	O	X	X	X	X	-	X	-	X	X	X	O	Style	Split	
Song File	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Style File	X	X	X	O	X	-	X	-	X	X	X	O	Style	-	
Voice File	X	X	X	X	X	-	X	-	X	X	X	X	-	-	The data that is saved to Registration Memory/ OTS is not actual voice file, but Control Change, Bank MSB, Bank LSB, Program Change.
Multi Pad File	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Multi Pad	-	
Registration Bank File	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Part Select	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Part On Off (Right1/Right2/Right3)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Part On Off (Left)	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Balance Popup															
Song Volume	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Style Volume	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
M.Pad Volume	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Multi Pad	-	
Mic Volume	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	-	
Left Volume	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Right1 Volume	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Right2 Volume	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Right3 Volume	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Channel On Off Popup		X													
Channel On Off (Song)	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Channel On Off (Style)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
File System															
Character Select	X	X	X	X	X	-	X	-	X	X	X	X	-	-	One setting for all the Name related pop-up window
Voice															
Last Selected Voice	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Effect															
Initial Touch On Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Sustain	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Left Hold	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Dsp (Right1, Right2, Right3)	X	X	X	X	O	Effects	O	Keyboard Voice	X	O	X	O	Voice	-	
Dsp (Left)	X	X	X	X	O	Effects	O	Keyboard Voice	X	O	X	O	Style	-	
Variation (Right1, Right2, Right3)	X	X	X	X	O	Effects	O	Keyboard Voice	X	O	X	O	Voice	-	
Variation (Left)	X	X	X	X	O	Effects	O	Keyboard Voice	X	O	X	O	Style	-	
Harmony/Echo	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Harmony	-	
Poly/Mono (Right1, Right2, 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	-	
Master Volume/Fade															
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	-	-	
Registration															
Freeze On Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Regist Memory Popup Setting	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Filter settings when registering Registration.
Regist Number	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Regist Contents Name	X	X	X	X	X	-	X	-	X	X	X	O	-	-	
Menu -> Function															
Master Tune/Scale Tune															
Master Tune															
Master Tune	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	-	
Base Note	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Part Select	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Controller															
Foot Pedal															
Pedal Function	X	X	X	X	X	X	X	-	X	X	X	O	Pedal	-	
Pedal Settings	X	X	X	X	X	X	X	-	X	X	X	O	Pedal	-	
Pedal Function Default Setting	X	X	X	X	X	X	X	-	X	X	X	X	-	-	
Pedal Polarity	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 Touch Off Level	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 Curve	O	X	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
After Touch Part On Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Modulation Wheel Part On Off	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Transpose Assign	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Regist. Sequence/Freeze/Voice Set															
Registration Sequence															
Regist Sequence Data	X	X	X	X	X	-	X	-	X	X	X	O	-	-	Memorized as a single Registration Bank file.
Regist Sequence Enable	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	-	-	
Sequence End	X	X	X	X	X	-	X	-	X	X	X	O	-	-	Memorized as a single Registration Bank file.
Freeze															
Freeze Group Setting	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set															
Voice Set Left	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set Right1	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set Right2	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set Right3	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
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 (Included in Type)	X	O	X	O	Harmony	-	
Assign	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
Chord Note Only	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
Touch Limit	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-	
Utility															
Configuration															
Speaker	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Display Voice Number	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Metronome Volume	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Metronome Sound	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Time Signature	X	X	X	X	X	-	O	-	O	X	X	X	-	-	Set when the song/style is loaded.
Parameter Lock	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tap Percussion	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Tap Velocity	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Fade In Time	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Fade Out Time	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Fade Out Hold Time	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Disk															
Floppy Disk Song Auto Open	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
HD Sleep Time	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Owner															
Owner Name	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Language	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Main Picture	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Cannot be reset with Factory Reset.
System Reset															
Factory Reset Setting	X	X	X	X	X	-	X	-	X	X	-	X	-	-	
Video Out															
NTSC/PAL	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Cannot be reset with Factory Reset.
Screen Content	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Cannot be reset with Factory Reset.
Select View															
Select View Setup	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Memorized for each Open/Save display.
Song Path															
Song File Path	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Style File Path	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Lyric															
Back Ground (Panel Setting)	O	X	X	X	X	-	O	Lyrics Language	X	X	-	X	-	-	Cannot be reset with Factory Reset.
Back Ground (Song Setting)	X	X	X	X	X	-	O	Lyrics Language	X	X	-	X	-	-	Reset to the background selected last via the panel operation with Factory Reset.
Music Score															
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	-	-	
Note Name 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	-	-	
Key Signature	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	-	-	
Note Name	O	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Color Note	O	X	X	X	X	-	O	Score Setting	X	X	-	X	-	-	
Song															
SP1 - 4 Position Sw On/Off	X	X	X	X	X	-	O	-	X	X	X	X	-	-	
Loop Sw On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Synchro Start	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	Ignored during playback
Start Stop	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
A-B Repeat	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Guide On Off	X	X	X	X	X	-	O	Guide Setting	X	X	X	X	-	-	
Menu -> Function -> Song Setting															
Guide Mode	O	X	X	X	X	-	O	Guide Setting	X	X	-	X	-	-	Reset to its default setting when song data doesn't include this data.
Quick Start	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Channel Setting															
Right Channel	O	X	X	X	X	-	O	-	X	X	X	X	-	-	Set by recording. Different from one of the Left Channel
Left Channel	O	X	X	X	X	-	O	-	X	X	X	X	-	-	Set by recording. Different from one of the Right Channel
Vocal Harmony Channel →	Mic -> Mic Setting display -> VH Song Channel														
Auto Ch Set	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Phrase Mark	X	X	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
Lyrics Language	O	X	X	X	X	-	O	Lyrics Language	X	X	X	X	-	-	Specified from the song when set to Auto.
Repeat Mode	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Repeat Directory	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Menu -> Digital Recording -> Song Creator															
Rec Mode															
Rec Start	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Punch In At	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Rec Stop	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Punch Out At	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pedal Punch In/Out	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Quantize															
Track	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	-	-	
Track Delete	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
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 Transpose	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Set Up	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
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	-	-	
Accompaniment Filter	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo															
Tempo	X	X	X	O	X	-	O	Tempo	O	X	X	O	Tempo	-	
Transpose → Refer to Main Window.															
Upper Octave → Refer to Main Window.															
Multi Pad															
Multi Pad Contents Name	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Menu -> Digital Recording -> Multi Pad Creator															
Repeat	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Chord Match	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
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	-	-	
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	-	-	
Sys Ex Transmit	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Sys Ex Receive	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord Sys Ex Transmit	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord Sys Ex Receive	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Transmit															
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	-	-	
Receive															
Part (for each channel)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Filter (for each channel)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Root	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord Detect	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MIDI Template															
Template No.	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Template Name	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Menu -> Digital Recording -> 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															
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	-	-	
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	-	-	
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	-	-	
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	-	-	
Bar Copy															

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
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	-	-	
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	-	-	
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	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
RTR	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
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															
Song XG data							O								
SFF data									O						
Multi Pad data											O				
Menu -> Function -> MIDI -> MFC10															
MFC10															
MFC10 Receive Port	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Receive (Ch1-16)	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 SW Function (0 - 29)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Foot Function (0 - 4)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
MFC10 Foot Part (0 - 4)	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Style															
Accompaniment On Off	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	
Auto Fill In	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
OTS Link	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Section	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Synchro Start	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	Regist: Unavailable during style playback.
Synchro Stop	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Start Stop	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Menu -> Function -> Style Setting/Split Point/Chord Fingering															
Style Setting/Split Point															
Stop Acmp	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
OTS Link Timing	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Synchro Stop Window	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Style Touch	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Section Set	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Split Point (Style) → Main Window -> Split Point (Style)															
Split Point (Left) → Main Window -> Split Point (Left)															
Chord Fingering															
Fingering Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	Fingering	
Tutor Root	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tutor Type	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
OTS															
OTS Number	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Music Finder															
Sort Kind	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Sort Order	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo Lock	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Search 1/2 display															
Music	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Keyword	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Style	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Beat	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Search Area	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo	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	-	-	
Mic															
Vocal Harmony On Off	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic	
Talk On Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Effect On Off	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic	
VH Type	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic	
VH Parameters	X	X	O	X	X	-	O	Mic. Setting	X	X	X	X	-	Mic	Current VH type settings and type name
Mic Setting display															
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	-	-	
Compressow 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	-	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
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	
VH Song Channel	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic	
VH Keyboard	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic	
VH Balance	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	Mic	
VH Mode	X	X	X	X	X	-	X	-	X	X	X	O	Mic	Mic	
VH Chord Detect	X	X	X	X	X	-	X	-	X	X	X	O	Mic	Mic	
Mute	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Mic Vol →	Main Window -> Balance Popup -> Mic Volume														
Talk Setting															
Volume	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pan	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Reverb Depth	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Chorus Depth	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Total Volume Attenuator	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
DSP On Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
DSP Depth	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
DSP Type	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Menu -> Sound Creator															
Voice (Right1, Right2, 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	-	
Volume for Balance (Right1, Right2, 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 (Right1, Right2, Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Octave for Left	X	X	X	X	O	Voice	X	-	X	X	X	X	-	-	
Octave for Right1, Right2, Right3	X	X	X	X	O	Voice	X	-	X	X	X	X	-	-	
Mono/Poly →	Refer to Voice Effect.														
Portamento Time →	Refer to Mixing Console.														
Filter Brightness →	Refer to Mixing Console.														
Filter Harmonic Content →	Refer to Mixing Console.														
EG Attack (Right1, Right2, 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, Right2, 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, Right2, 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, Right2, 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, Right2, 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, Right2, 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	-	
MW Low Pass Filter Control (Right1, Right2, 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, Right2, Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Amp Litude Control (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW LFO PMOD Depth (Right1, Right2, 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, Right2, 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	-	
MW LFO AMOD Depth (Right1, Right2, 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, Right2, 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, Right2, 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, Right2, 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, Right2, 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, Right2, 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	-	
Reverb Depth →	Refer to Mixing Console.														
Chorus Depth →	Refer to Mixing Console.														
DSP On/Off →	Refer to Voice Effect.														
DSP Depth →	Refer to Mixing Console.														
Panel Sustain (Right1, Right2, 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, Right2, Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	Regist : When the DSP is turned off, the Voice Set value is loaded.
DSP Type (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	Regist : When the DSP is turned off, the Voice Set value is loaded.
LastSelected DSP	X	X	X	X	X	-	X	-	X	X	X	X	-	-	Memorized when the Sound Creator is call up.
DSP Variation →	Refer to Voice Effect.														
DSP Variation Value (Right1, Right2, Right3)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	Regist : When the DSP is turned off, the Voice Set value is loaded.

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
DSP Variation Value (Left)	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	Regist : When the DSP is turned off, the Voice Set value is loaded.
EQ Low Freq (Right1, Right2, 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 Low Gain →	Refer to Mixing Console.														
EQ High Freq (Right1, Right2, 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	-	
EQ High Gain →	Refer to Mixing Console.														
Harmony/Echo															
Type →	Menu -> Function -> Harmony/Echo -> Type														
Volume →	Menu -> Function -> Harmony/Echo -> Volume														
Speed →	Menu -> Function -> Harmony/Echo -> Speed														
Assign →	Menu -> Function -> Harmony/Echo -> Assign														
Chord Note Only →	Menu -> Function -> Harmony/Echo -> Chord Note Only														
Touch Limit →	Menu -> Function -> Harmony/Echo -> Touch Limit														
Organ Flutes Footage (Right1, Right2, 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, Right2, Right3)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Type (Left)	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Vib On/Off (Right1, Right2, 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	-	
Organ Vib Depth (Right1, Right2, 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, Right2, 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		
Organ Flutes Attack Footage (Right1, Right2, 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, Right2, 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, Right2, 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, Right2, 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, Right2, 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	-	
Mixing Console															
Auto Revoice															
On/Off	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Setup	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Volume															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Volume	X	X	X	X	-	-	
Right1, Right2, Right3 →	Main Window -> Balance Popup -> Right1 Volume/Right2 Volume/Right3 Volume														
Left →	Main Window -> Balance Popup -> Left Volume														
Style (Offset) →	Main Window -> Balance Popup -> Style Volume														
Song (Offset) →	Main Window -> Balance Popup -> Song Volume														
Multi Pad →	Main Window -> Balance Popup -> M. Pad Volume														
Mic →	Main Window -> Balance Popup -> Mic Volume														
Voice															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Voice	X	X	X	X	-	-	
Pan Pot															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Pan	X	X	X	X	-	-	
Right1, Right2, Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Multi Pad	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Mic	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	-	
Brightness															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-	
Right1, Right2, Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Harmonic Content															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-	
Right1, Right2, Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Octave															
Right1, Right2, Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Tune															
Right1, Right2, Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Portament Time															
Right1, Right2, Right3	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Pitch Bend Range															
Right1, Right2, Right3	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	

Parameter	System				Voice	Voice Set Group	Song		Style		Multi Pad	Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder			Song	Song SetUp Group	Style	OTS		Regist	Freeze Group		
Transpose															
Master	X	X	X	X	X	-	X	-	X	X	X	O	Tune Trans	-	
Song	X	X	X	X	X	-	X	-	X	X	X	O	Tune Trans	-	
Keyboard	X	X	X	X	X	-	X	-	X	X	X	O	Tune Trans	-	
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															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style		
Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-		
Right1, Right2, Right3	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice		
Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style		
Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Multi Pad	X	X	X	X	X	-	X	-	X	X		O	Multi Pad	-	
Mic	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	-	
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															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Right1, Right2, Right3	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Multi Pad	X	X	X	X	X	-	X	-	X	X		O	Multi Pad	-	
Mic	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	-	
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	
DSP2 Type	X	X	X	X	X	Effect	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP3 Type	X	X	X	X	X	Effect	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP4 Type	X	X	X	X	X	Effect	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP5 Type	X	X	X	X	X	Effect	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP6 Type	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Song/Mic	Mic. Setting	
DSP Depth															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	Effect	X	X	X		-	-	
Right1, Right2, Right3	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Mic	X	X	X	X	X	-	O	Mic. Setting	X	X	X	O	Mic	-	
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	O	X	X	X	-	-	
Master EQ Type	O	X	X	X	X	-	X	-	X	X	X	X	-	Master EQ	
Master EQ Parameter	X	X	O	X	X	-	X	-	X	X	X	X	-	Master EQ	
EQ Low Gain															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	
Right1, Right2, Right3	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Multi Pad	X	X	X	X	X	-	X	-	X	X		O	Multi Pad	-	
EQ High Gain															
Style Part	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	
Right1, Right2, Right3	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
Left	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
Style (Offset)	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Song (Offset)	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Multi Pad	X	X	X	X	X	-	X	-	X	X		O	Multi Pad	-	
Line Out															
Line Out	O	X	X	X	X	-	X	-	X	X	-	O	Line Out	-	
Master Compressor															
Master Cmpressor Type	O	X	X	X	X	-	X	-	X	X	-	X	-	-	
Basic Type	X	X	O	X	X	-	X	-	X	X	-	X	-	-	
Threshold Offset	X	X	O	X	X	-	X	-	X	X	-	X	-	-	
Low Gain Offset	X	X	O	X	X	-	X	-	X	X	-	X	-	-	
Mid Gain Offset	X	X	O	X	X	-	X	-	X	X	-	X	-	-	
High Gain Offset	X	X	O	X	X	-	X	-	X	X	-	X	-	-	
Master Cmpressor On/Off	O	X	X	X	X	-	X	-	X	X	-	X	-	-	

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 (respond/ignore)				MIDI Transmission (generated data)					PLAY		REC
	Status	Data	(HEX)	Parameter	Data	(HEX)	Parameter	Regular /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
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 62 63 64 120 121 126 127	(00H) (08H) (3EH) (3FH) (40H) (78H) (79H) (7EH) (7FH)	Normal Mega voice Custom Voice (Drum) Custom Voice (Normal) SFX voice GM2 Rhythm GM2 Normal SFX kit Drum kit	O	X	O	O	O (Right1)	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	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	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
		10	(0AH)	Panpot [GM1] [GM2]	0-127	(00H...7FH)	L64...C...R63	O	X	O	O	O (All Keyboard parts)	O	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 (Right1)	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	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
		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
		91	(5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127	(00H...7FH)	Data	O	X	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	X	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 Multi Recording

								[MIDI]												[Song Creator]		
MIDI Events	**Status byte**	**1st Data byte**			**2nd Data byte**			**Voice**		**MIDI Reception (respond/ignore)**					**MIDI Transmission (generated data)**					**PLAY**		**REC**
	Status	**Data**	**(HEX)**	**Parameter**	**Data**	**(HEX)**	**Parameter**	**Regular /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**
		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	●	●	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	●	●	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
		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	●	O	X	O	●	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 Sensing [GM2]	-	-	-	-	-	-	-	-	O					O					-	-	-
	FFH System Reset	-	-	-	-	-	-	-	-	X					X					-	-	-

● : Transmitted via panel operations and keyboard/controller performances.
About Mic/Vocal Harmony column:
The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Channel Parameter.

[GM1]...GM Leve1 Required Parameter
[GM2]...GM Leve2 Required Parameter

MIDI CHANNEL MESSAGE (2)

NRPN [MIDI] [Song Creator]

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ 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
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	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	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)		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)		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)		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)		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)		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)		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)		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)		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)		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)		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	X	X	X	X	X
31H	rrH	mmH	--	Drum EQ Treble Gain	rr : drum instrument note number mm : 00H-7FH (0...127)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	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	X	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	X	X	X	X	X

● : Transmitted via panel operations and keyboard/controller performances.
NRPN MSB: 14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.
Data Entry LSB: Ignored.

NRPN (VocalHarmony)

[MIDI] [Song Creator]

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ 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
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.
Data Entry LSB: Ignored.

RPN

[MIDI] [Song Creator]

RPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ 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 operations
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.
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 Leve1 Required Parameter
[GM2]...GM Leve2 Required Parameter

MIDI PARAMETER CHANGE TABLE

* Not received when Receive System Exclusive Message Parameters is set to off.
* Not transmitted when Transmit System Exclusive Message Parmeters 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 (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
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

MIDI Parameter Change table (SYSTEM INFORMATION)

Address (H)			Size (H)	Data (H)	Parameter	Description	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
							Regular/ 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
01	00	00	E	20-7F	Model Name 1	32...127(ASCII CHATACTER)	-		-					O (Available only when receiving requests via MIDI)					-	-	-
		...		...	...	...															
		0D		20-7F	Model Name 14	32...127(ASCII CHATACTER)															
		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 (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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 operations
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 6

● : Transmitted via panel operations

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		MIDI Reception (respond/ignore)						MIDI Transmission (generated data)					[Song Creator] PLAY		REC
								Regular/ 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
02	01	20	2	00-7F	CHORUS TYPE MSB	Refer to Effect Parameter List	41(=CHORUS1)	O	O			O						●			O	O	O
				00-7F	CHORUS TYPE LSB	Refer to Effect Parameter List	00																
		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 Reception (respond/ignore)						MIDI Transmission (generated data)					[Song Creator] PLAY		REC
								Regular/ 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
02	01	40	2	00-7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05(=DELAY L,C,R)	O	O			O						●			O	O	O
				00-7F	VARIATION TYPE LSB	Refer to Effect Parameter List	00																
		42	2	00-7F	VARIATION PARAMETER 1 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 1 LSB	Refer to Effect Parameter List																	
		44	2	00-7F	VARIATION PARAMETER 2 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 2 LSB	Refer to Effect Parameter List																	
		46	2	00-7F	VARIATION PARAMETER 3 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 3 LSB	Refer to Effect Parameter List																	
		48	2	00-7F	VARIATION PARAMETER 4 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 4 LSB	Refer to Effect Parameter List																	
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 5 LSB	Refer to Effect Parameter List																	
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 6 LSB	Refer to Effect Parameter List																	
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 7 LSB	Refer to Effect Parameter List																	
		50	2	00-7F	VARIATION PARAMETER 8 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 8 LSB	Refer to Effect Parameter List																	
		52	2	00-7F	VARIATION PARAMETER 9 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 9 LSB	Refer to Effect Parameter List																	
		54	2	00-7F	VARIATION PARAMETER 10 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O						●			O	O	O
				00-7F	VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List																	
		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 (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
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

MIDI Parameter Change table (MULTI EQ)

Address (H)			Size (H)	Data (H)	Parameter	Description	* The MULTI EQ Parameter cannot be reset to its factory setting with XG SYSTEM ON.	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic		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

MIDI Parameter Change table (EFFECT2)

Address (H)			Size (H)	Data (H)	Parameter	Description	* The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
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		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	* The EFFECT2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	[MIDI] Voice: Regular/ Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception (respond/ignore): Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	MIDI Transmission (generated data): Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	[Song Creator] PLAY: PLAY	REW	REC: From panel operations
		20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List		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		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

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

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

MIDI Parameter Change table (SPECIAL EFFECT)

Address (H)			Size (H)	Data (H)	Parameter	Description	* The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON.	[MIDI] Voice: Regular/ Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception (respond/ignore): Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	MIDI Transmission (generated data): Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	[Song Creator] PLAY: PLAY	REW	REC: From panel operations
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)		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	* The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON.	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
		08	1	00-7F	INSERTION EFFECT PARAMETER 7 Auto Lower Gender Threshold	0...12(0...12)		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

MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
8	nn	00	1	00-20	NOT USED			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		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	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

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)					[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
		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
		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...+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...+63[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	●	O	X	O	X	O	O	O
		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	●	O	X	O	X	O	O	O
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		53	1	28-58	PAT PITCH CONTROL	-24...0...+24	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	0	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	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 (respond/ignore)					MIDI Transmission (generated data)					[Song Creator] PLAY		REC
								Regular/ 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
		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
		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	X	O	X	O	O	O
		77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		78	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		79	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		7F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0A	nn	40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	O	X	X	O	O	O	X	O	X	O	O	O
		41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	O	X	X	O	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	O	O	X	O	X	O	O	O
		43	1	00-7F	PAT OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	O	X	X	O	X	X	X	O	X	O	O	X
		44	1	00-7F	AC1 OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	O	X	X	O	X	X	X	O	X	O	O	X
		45	1	00-7F	AC2 OFFSET LEVEL CONTROL	-100 - 100[%]	40	O	-	O	O	X	X	O	X	X	X	O	X	O	O	X

TOTAL SIZE 04

TOTAL SIZE 0C

● : Transmitted via panel operations

TOTAL SIZE 06

nn : PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.
- BANK SELECT LSB
- MONO/POLY MODE
- SCALE TUNING
- PORTAMENTO
- PITCH EG
- FILTER MODULATION DEPTH (FMOD DEPTH)
- AMPLITUDE MODULATION DEPTH (AMOD DEPTH)

MIDI Parameter Change table (A/D PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	* The A/D PART parameter cannot be reset to its factory setting with XG System On.	[MIDI] Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)					[Song Creator] PLAY		REC
								Regular/ 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
10	0n	00	1	00-01	INPUT GAIN	MIC, LINE		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

n : Channel Number
● : Transmitted via panel operations

MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI] Voice		[MIDI] MIDI Reception (respond/ignore)						[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
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 (respond/ignore)						[MIDI] MIDI Transmission (generated data)					[Song Creator] PLAY		[Song Creator] REC
								Regular/ 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
		20	1	00-7F	EQ BASS GAIN	-12...+12[dB]	40	X	X			X						X			X	X	X
		21	1	00-7F	EQ TREBLE GAIN	-12...+12[dB]	40	X	X			X						X			X	X	X
		22	1		NOT USED		-	-	-			-						-			-	-	-
		23	1		NOT USED		-	-	-			-						-			-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	X	X			X						X			X	X	X
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	X	X			X						X			X	X	X
		26	1		NOT USED		-	-	-			-						-			-	-	-
		27	1		NOT USED		-	-	-			-						-			-	-	-
		28	1		NOT USED		-	-	-			-						-			-	-	-
		29	1		NOT USED		-	-	-			-						-			-	-	-
		2A	1		NOT USED		-	-	-			-						-			-	-	-
		2B	1		NOT USED		-	-	-			-						-			-	-	-
		2C	1		NOT USED		-	-	-			-						-			-	-	-
		2D	1		NOT USED		-	-	-			-						-			-	-	-

TOTAL SIZE 0E

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

In the following cases, the TYROS will initialize all Drum Setups.
- XG SYSTEM ON received
- GM SYSTEM ON received
- GM LEVEL2 SYSTEM ON 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)

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

System Exclusive Messages (Universal Real Time Messages)

		[MIDI]												[Song Creator]		
MIDI Event	Data Format	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)					PLAY		REC
		Regular/ 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					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 (respond/ignore)					MIDI Transmission (generated data)					PLAY		REC
		Regular/ 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 Event	Data Format	[MIDI] Voice: Regular/Organ Voice	Voice: Mic/Vocal Harmony	MIDI Reception (respond/ignore): Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	MIDI Transmission (generated data): Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	[Song Creator] PLAY: PLAY	REW	REC: 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					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					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					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

[GM1]...GM Leve1 Required Parameter
[GM2]...GM Leve2 Required Parameter

SYSTEM EXCLUSIVE MESSAGES (2)

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

System Exclusive Messages (Style)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
		Regular/ 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 Chord Same as Chord root 127:No bass chord bt : Bass Chord Same as Chord type 127:No bass chord	-	-			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

System Exclusive Messages (XG)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
		Regular/ 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 Parameter Change Table.		O * Refer to Parameter Change Table.					O * Refer to 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 Parameter Change Table.		O * Refer to Parameter Change Table.					O * Refer to 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 Parameter Change Table.					O * Refer to 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 Parameter Change Table.					O * Refer to Parameter Change Table.				

System Exclusive Messages (Clavinova compliance)

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

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
		Regular/ 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	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-				O					X		
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-			O					X		
Organ Flutes data Bulk Dump	F0 43 73 01 06 0B 00 00 01 06 0n [Balk Data] sum F7 01H Model ID (Clavinova common ID) 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H,00H,01H,06H Data Length :16bytes 1st Channel No. 0nH 2nd Footage [1'] 00 - mmH mm : maximum 3rd [1 1/3'] 00 - mmH 4th [1 3/5'] 00 - mmH 5th [2'] 00 - mmH 6th [2 2/3'] 00 - mmH 7th [4'] 00 - mmH 8th [5 1/3'] 00 - mmH 9th [8'] 00 - mmH 10th [16'] 00 - mmH 11th [Attack 2'] 00 - mmH 12th [Attack 2 2/3'] 00 - mmH 13th [Attack 4'] 00 - mmH 14th Settings [Attack Length] 00 - mmH 15th [Response] 00 - mmH 16th [Attack Mode] 00 - 01H 00H: Each, 01H: First 17th [Wave Variation] 00 - 01H 00H: Sine, 01H: Tone Wheel 18th [Volume] 01 - vvH vv : maximum 19th [aux] 00H 20th [aux] 00H 21th [aux] 00H 22th [aux] 00H sum Check Sum = 0-sum(BULK DATA) TYROS mm=8 vv=9	O (Organ Flute)	X	O	O	X	X	O	●	X	X	O	X

● : Transmitted via panel operations

System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
		Regular/ 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 = Clavinova ID 00000001 01 = Model ID (Clavinova common 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 = Clavinova ID 00000001 01 = Model ID (Clavinova common 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 : Right3 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 = Clavinova ID 00000001 01 = Model ID (Clavinova common 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

System Exclusive Messages (Others)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
		Regular/ Organ Voice	Mic/Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
MIDI Master Tuning	F0 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n n= always 0(when transmit), n=0-F(when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	O	O			O					X		

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

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	
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 7C 11 00 16 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.

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

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 dd 08	Phrase Mark	dd Phrase mark 0hfccccc bit6(h) 0:Right, 1:Left Right hand/Left hand bit5(f) 0:Channel available, 1:Channel not available Flag for whether channel information (bit 4 - 0) is valid or not Phrases common to all channels assigned to 1 bit4-0(ccccc) CH(0:1ch~31:32ch) Channel information whose phrase mark is available	Used when performing the Phrase Mark repeat playback.
FF 7F 04 43 7B 04 dd	Phrase Max	Max Phrase Number	Used when performing the Phrase Mark repeat playback.
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	Sets the RIGHT CH and LEFT CH 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 (00H: Center, 01H: Tile) [Data]=File Path	Entered to the song from the [SONG CREATOR]->CHANNEL->SETUP display.

YAMAHA [Digital Workstation] Date:01-MAY-2002
Model TYROS MIDI Implementation Chart Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1 - 16	1 - 16	
	Changed	1 - 16	1 - 16	
Mode	Default	3	3	
	Messages	x	x	
	Altered	**********	x	
Note Number : True voice		0 - 127	0 - 127	
		**********	0 - 127	
Velocity	Note ON	o 9nH,v=1-127	o 9nH,v=1-127	
	Note OFF	x 9nH,v=0	x	
After Touch	Key's	x	o	
	Ch's	o	o	
Pitch Bend		o	o 0-24 semi	
Control Change	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	
	71-74	o	o	Sound Controller
	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
	120	x	o	ALL Sound Off
	121	x	o	Reset All Cntrls
Prog Change : True #		o 0 - 127	o 0 - 127	
		**********		
System Exclusive		o	o	
Common	: Song Pos.	x	x	
	: Song Sel.	x	x	
	: Tune	x	x	
System Real Time	: Clock	o	o	
	: Commands	o	o	
Aux	:All Sound OFF	x	o(120,126,127)	
	:Reset All Cntrls	x	o(121)	
	:Local ON/OFF	x	x	
	:All Notes OFF	x	o(123-125)	
Mes-sages	:Active Sense	o	o	
	: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

YAMAHA

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