



# PORTATONE

## PSR-3000 PSR-1500

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

## PSR-3000

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Piano	GrandPiano	0	113	1	Live!	
	BrightPiano	0	112	2	Regular	
	Harpsichord	0	112	7	Regular	
	GrandHarpsi	0	113	7	Regular	
	HonkyTonk	0	112	4	Regular	
	WarmGrand	0	114	1	Live!	
	MidiGrand	0	112	3	Regular	
	Oct.Piano1	0	113	4	Regular	
	Oct.Piano2	0	114	4	Regular	
	CP80	0	113	3	Regular	
E.Piano	GalaxyEP	0	114	5	Cool!	
	SuitcaseEP	0	118	5	Cool!	
	PolarisEP	0	115	5	Regular	
	JazzChorus	0	118	6	Regular	
	HyperTines	0	113	6	Regular	
	E.Piano	0	119	5	Cool!	
	PhaseEP	0	120	5	Regular	
	NewTines	0	116	6	Regular	
	FunkEP	0	112	5	Regular	
	DX Modern	0	112	6	Regular	
	VintageEP	0	116	5	Regular	
	VenusEP	0	114	6	Regular	
	ModernEP	0	115	6	Regular	
	TremoloEP	0	113	5	Regular	
	SuperDX	0	117	6	Regular	
	StageEP	0	117	5	Regular	
	Clavi	0	112	8	Regular	
WahClavi	0	113	8	Regular		
Strings	Strings	0	117	50	Live!	
	Allegro	0	122	50	Live!	
	Orchestra	0	116	50	Live!	
	Symphon.Str	0	114	49	Regular	
	Violin	0	113	41	Sweet!	
	Orch.Horns	0	118	50	Regular	
	Orch.Flute	0	119	50	Regular	
	Orch.Oboe	0	121	50	Regular	
	Tutti	0	120	50	Regular	
	Strings	0	112	49	Regular	
	OrchStrings	0	113	49	Regular	
	Str.Quartet	0	114	50	Regular	
	ConcertoStr	0	115	49	Regular	
	AnalogStrs	0	112	52	Regular	
	ChamberStrs	0	112	50	Regular	
	BowStrings	0	116	49	Regular	
	SlowStrings	0	113	50	Regular	
	TremoloStrs	0	112	45	Regular	
	MarcatoStrs	0	115	50	Regular	
	SynStrings1	0	112	51	Regular	
	SynStrings2	0	113	51	Regular	
	PizzStrings	0	112	46	Regular	
	Viola	0	112	42	Regular	
	Cello	0	112	43	Regular	
	Contrabass	0	112	44	Regular	
	Harp	0	112	47	Regular	
	Hackbrett	0	113	47	Regular	
	Fiddle	0	112	111	Regular	
	Banjo	0	112	106	Regular	
	Sitar	0	112	105	Regular	
	Koto	0	112	108	Regular	
	Shamisen	0	112	107	Regular	
	SoloViolin	0	112	41	Regular	
	Orch.Hit	0	112	56	Regular	
	Guitar&Bass	NylonGuitar	0	116	25	Live!
		JazzGuitar	0	115	27	Cool!
		Elec.Gtr	0	114	29	Cool!
		SteelGuitar	0	117	26	Live!
		DynoSteel1	0	118	26	Live!
		Mandolin	0	114	26	Sweet!
		FunkGuitar	0	116	29	Cool!
Stratsphere		0	117	29	Cool!	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Guitar&Bass	VintageLead	0	125	28	Cool!
	PowerLead	0	115	31	Cool!
	BluesGuitar	0	117	30	Cool!
	RockGuitar	0	116	30	Regular
	VintageStrum	0	126	28	Regular
	12StrGuitar	0	113	26	Live!
	DynoSteel2	0	116	26	Live!
	CleanGuitar	0	112	28	Cool!
	VoodooLead	0	116	31	Regular
	PowerChord	0	117	31	Regular
	CampfireGtr	0	115	26	Regular
	SolidGuitar	0	118	28	Regular
	VintageAmp	0	115	30	Regular
	AlohaGtr	0	118	27	Regular
	CrunchGtr	0	113	31	Regular
	SmoothLead	0	119	27	Regular
	60'sClean	0	117	28	Regular
	ClassicGtr	0	115	25	Live!
	VintageOpen	0	123	28	Regular
	FolkGuitar	0	112	26	Regular
	SolidChord	0	121	28	Regular
	VintageMute	0	115	29	Regular
	PedalSteel	0	115	28	Regular
	LeadGuitar	0	114	30	Regular
	ChorusGtr	0	124	28	Regular
	VintageTrem	0	120	28	Regular
	OctaveGtr	0	113	27	Regular
	DeepChorus	0	114	28	Regular
	TremoloGtr	0	113	28	Regular
	HeavyStack	0	114	31	Regular
	BrightClean	0	116	28	Regular
	WahGuitar	0	122	28	Regular
	Distortion	0	112	31	Regular
	Elec. 12Str	0	119	28	Regular
	FeedbackGtr	0	113	30	Regular
	18String	0	119	26	Regular
	MutedGuitar	0	112	29	Regular
	FunkGuitar	0	113	29	Regular
	Overdrive	0	112	30	Regular
	SteelGuitar	8	0	2	MegaVoice
	HiStringGtr	8	0	3	MegaVoice
	12StrGuitar	8	1	3	MegaVoice
	CleanGuitar	8	0	4	MegaVoice
	Overdrive	8	0	5	MegaVoice
	Distortion	8	0	6	MegaVoice
	FingerBass	0	114	34	Cool!
	Aco.Bass	0	112	33	Regular
	DynoPickBass	0	113	35	Cool!
	Fretless	0	112	36	Cool!
	SlapBass	0	112	37	Regular
	SubBass	0	114	40	Regular
	HardBass	0	114	39	Regular
	ResoBass	0	112	39	Regular
	RockBass	0	114	35	Regular
	SuperFretles	0	113	36	Regular
	PickBass	0	112	35	Regular
	FusionBass	0	113	37	Regular
	Bass&Cymbal	0	114	33	Regular
	AnalogBass	0	112	40	Regular
	DrySynBass	0	116	40	Regular
80'sSynBass	0	115	40	Regular	
HiQBass	0	113	39	Regular	
FunkBass	0	112	38	Regular	
MellowFinger	0	112	34	Regular	
ClickBass	0	115	39	Regular	
Aco.Bass	8	0	17	MegaVoice	
FingerBass	8	0	18	MegaVoice	
PickBass	8	0	19	MegaVoice	
Fretless	8	0	20	MegaVoice	

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Saxophone	TenorSax	0	117	67	Sweet!	
	AltoSax	0	114	66	Sweet!	
	SopranoSax	0	113	65	Sweet!	
	GrowlSax	0	118	67	Regular	
	BaritoneSax	0	112	68	Regular	
	SaxSection	0	116	67	Live!	
	SopranoSax	0	112	65	Regular	
	TenorSax	0	112	67	Regular	
	AltoSax	0	112	66	Regular	
	SaxSection Soft	0	121	67	Live!	
	SaxSection Hard	0	122	67	Live!	
	Flute&Woodwind	Flute	0	114	74	Sweet!
		Clarinet	0	114	72	Sweet!
PanFlute		0	113	76	Sweet!	
Oboe		0	113	69	Sweet!	
EnglishHorn		0	112	70	Regular	
Bassoon		0	112	71	Regular	
Class.Flute		0	115	74	Regular	
Piccolo		0	112	73	Regular	
EthnicFlute		0	112	76	Regular	
WoodwindEns		0	113	67	Regular	
Shakuhachi		0	112	78	Regular	
Clarinet		0	112	72	Regular	
Flute		0	112	74	Regular	
PanFlute		0	113	74	Regular	
Oboe		0	112	69	Regular	
Whistle		0	112	79	Regular	
Recorder		0	112	75	Regular	
Ocarina		0	112	80	Regular	
Bagpipe		0	112	110	Regular	
Organ		Organ	0	118	19	Cool!
		JazzOrgan	0	117	17	Cool!
	RotorOrgan	0	117	19	Cool!	
	FullRocker	0	115	19	Cool!	
	StadiumOrg	0	118	17	Regular	
	RotaryDrive	0	116	19	Regular	
	RockOrgan1	0	112	19	Regular	
	DanceOrgan	0	113	18	Regular	
	GospelOrg	0	119	17	Regular	
	JazzOrgan1	0	112	17	Regular	
	PurpleOrg	0	114	19	Regular	
	Elec.Organ	0	118	18	Regular	
	DrawbarOrg	0	115	17	Regular	
	JazzOrgan2	0	113	17	Regular	
	RockOrgan2	0	113	19	Regular	
	ClickOrgan	0	112	18	Regular	
	MellowDraw	0	115	18	Regular	
	BrightDraw	0	116	17	Regular	
	60'sOrgan	0	116	18	Regular	
	JazzOrgan3	0	120	17	Regular	
	Tibia 16+4	0	114	17	Regular	
	Tibia Full	0	114	18	Regular	
	ChapelOrgn1	0	113	20	Regular	
	ChapelOrgn2	0	114	20	Regular	
	ChapelOrgn3	0	115	20	Regular	
	PipeOrgan	0	112	20	Regular	
	ReedOrgan	0	112	21	Regular	
	OrganFlutes	JazzDraw!	0	126	17	Organ Flutes
BluesOrgan!		0	126	17	Organ Flutes	
SixteenOne!		0	126	17	Organ Flutes	
EvenBars!		0	126	17	Organ Flutes	
PopOrgan!		0	126	17	Organ Flutes	
RockingOrg!		0	126	17	Organ Flutes	
Percussive!		0	126	17	Organ Flutes	
GospelOrg!		0	126	17	Organ Flutes	
PadOrgan!		0	126	17	Organ Flutes	
FullRanks!		0	126	17	Organ Flutes	
Trumpet	Trumpet	0	115	57	Sweet!	
	Trombone	0	117	58	Sweet!	
	MutedTrump	0	114	60	Sweet!	

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Trumpet	FlugelHorn	0	118	57	Sweet!	
	JazzTrumpet	0	116	57	Regular	
	SoloTrumpet	0	112	57	Regular	
	Trombone	0	116	58	Regular	
	SoloTromb	0	112	58	Regular	
	SoftTromb	0	115	58	Regular	
	MellowTromb	0	114	58	Regular	
	MutedTrump	0	112	60	Regular	
	BaritonHorn	0	113	59	Regular	
	BaritonHit	0	114	59	Regular	
	AlpBass	0	113	34	Regular	
	FlugelHorn	0	113	57	Regular	
	Tuba	0	112	59	Regular	
	Brass	HyperBrass	0	118	63	Live!
		PopBrass	0	117	63	Live!
OctaveBrass		0	116	63	Live!	
FrenchHorns		0	112	61	Live!	
BrassCombo		0	115	67	Regular	
BrassSection		0	112	62	Regular	
NaturalBrass		0	124	62	Regular	
Sforzando		0	125	62	Regular	
BigBrass		0	121	62	Regular	
BallroomBrs		0	113	60	Regular	
BrightBrass		0	120	62	Regular	
MellowBrass		0	116	62	Regular	
80'sBrass		0	113	63	Regular	
SoftBrass		0	123	62	Regular	
FullHorns		0	114	62	Regular	
SmoothTromb		0	118	58	Regular	
HighBrass		0	115	62	Regular	
OberBrass		0	113	64	Regular	
TrumpetEns		0	122	62	Regular	
MellowHorns		0	119	62	Regular	
BigBandBrs		0	113	62	Regular	
PopBrass	0	118	62	Regular		
AnalogBrs	0	112	64	Regular		
Trb.Section	0	113	58	Regular		
SmallBrass	0	117	62	Regular		
SoftAnalog	0	114	64	Regular		
FunkyAnalog	0	115	63	Regular		
TechnoBrass	0	114	63	Regular		
SynthBrass	0	112	63	Regular		
Accodion& Harmonica	Musette	0	112	22	Regular	
	TuttiAccrd	0	113	22	Regular	
	SmallAccrd	0	115	22	Regular	
	Accordion	0	116	22	Regular	
	TangoAccrd	0	112	24	Regular	
	Steirisch	0	117	22	Regular	
	Bandoneon	0	113	24	Regular	
	SoftAccrd	0	114	22	Regular	
	Harmonica	0	112	23	Sweet!	
	ModernHarp	0	113	23	Regular	
	BluesHarp	0	114	23	Regular	
	Choir&Pad	Gospel	0	116	53	Live!
HahChoir		0	114	53	Regular	
SweetHeaven		0	118	89	Regular	
DreamHeaven		0	121	89	Regular	
GothicVox		0	113	54	Regular	
Choir		0	112	53	Regular	
AirChoir		0	112	55	Regular	
VoxHumana		0	112	54	Regular	
Voices		0	113	55	Regular	
Insomnia		0	113	95	Regular	
Skydiver		0	112	102	Regular	
NeoWarmPad		0	115	90	Regular	
CyberPad		0	113	100	Regular	
Wave2001		0	112	96	Regular	
FarEast		0	112	98	Regular	
Atmosphere	0	112	100	Regular		
XenonPad	0	112	92	Regular		

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

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Choir&Pad	Equinox	0	112	95	Regular
	GlassPad	0	114	94	Regular
	Fantasia	0	112	89	Regular
	DX Pad	0	112	93	Regular
	Symbiont	0	113	89	Regular
	Stargate	0	114	89	Regular
	Area51	0	112	90	Regular
	DarkMoon	0	113	90	Regular
	Ionosphere	0	115	95	Regular
	GoldenAge	0	115	89	Regular
	Solaris	0	114	95	Regular
	TimeTravel	0	116	89	Regular
	Millennium	0	117	89	Regular
	Dunes	0	114	90	Regular
Synth&FX	Oxygen	0	122	82	Regular
	Matrix	0	123	82	Regular
	WireLead	0	120	82	Regular
	HipLead	0	113	81	Regular
	HopLead	0	117	81	Regular
	FireWire	0	116	82	Regular
	Analogon	0	115	82	Regular
	Blaster	0	114	82	Regular
	SFXKit1	126	0	1	SFX Kit
	SFXKit2	126	0	2	SFX Kit
	Skyline	0	115	85	Regular
	SquareLead	0	112	81	Regular
	Saw.Lead	0	112	82	Regular
	TinyLead	0	118	81	Regular
	FunkyLead	0	121	82	Regular
	Paraglide	0	114	85	Regular
	Fargo	0	119	82	Regular
	Portatone	0	112	85	Regular
	BigLead	0	113	82	Regular
	Warp	0	117	82	Regular
	Adrenaline	0	113	85	Regular
	Stardust	0	112	99	Regular
	AeroLead	0	112	84	Regular
	MiniLead	0	114	81	Regular
	Impact	0	113	88	Regular
	SunBell	0	113	99	Regular
	UnderHeim	0	112	88	Regular
	HiBias	0	116	81	Regular
Vinylead	0	115	81	Regular	
Perc&Drum	Vibraphone	0	112	12	Regular
	JazzVibes	0	113	12	Regular
	Marimba	0	112	13	Regular
	Xylophone	0	112	14	Regular
	SteelDrums	0	112	115	Regular
	Celesta	0	112	9	Regular
	Glocken	0	112	10	Regular
	MusicBox	0	112	11	Regular
	TubularBell	0	112	15	Regular
	Kalimba	0	112	109	Regular
	Dulcimer	0	112	16	Regular
	Timpani	0	112	48	Regular
	StandardKit1	127	0	1	Drums
	StandardKit2	127	0	2	Drums
	JazzKit	127	0	33	Drums
	BrushKit	127	0	41	Drums
	HitKit	127	0	5	Drums
	RoomKit	127	0	9	Drums
	RockKit	127	0	17	Drums
	ElectroKit	127	0	25	Drums
	AnalogKit	127	0	26	Drums
	DanceKit	127	0	28	Drums
	SymphonyKit	127	0	49	Drums
CubanKit	126	0	41	SFX Kit	
PopLatinKit	126	0	44	SFX Kit	
ArabicKit	126	0	36	SFX Kit	
StudioKit	127	0	87	Drums	

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Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Piano	GrandPiano	0	112	1	Regular	
	BrightPiano	0	112	2	Regular	
	Harpischord	0	112	7	Regular	
	GrandHarpsi	0	113	7	Regular	
	HonkyTonk	0	112	4	Regular	
	RockPiano	0	114	3	Regular	
	MidiGrand	0	112	3	Regular	
	CP80	0	113	3	Regular	
	Oct.Piano1	0	113	4	Regular	
	Oct.Piano2	0	114	4	Regular	
E.Piano	GalaxyEP	0	114	5	Cool!	
	StageEP	0	117	5	Regular	
	PolarisEP	0	115	5	Regular	
	JazzChorus	0	118	6	Regular	
	HyperTines	0	113	6	Regular	
	E.Piano	0	119	5	Cool!	
	PhaseEP	0	120	5	Regular	
	NewTines	0	116	6	Regular	
	FunkEP	0	112	5	Regular	
	ModernEP	0	115	6	Regular	
	SuitcaseEP	0	118	5	Regular	
	DX Modern	0	112	6	Regular	
	VintageEP	0	116	5	Regular	
	VenusEP	0	114	6	Regular	
	TremoloEP	0	113	5	Regular	
	SuperDX	0	117	6	Regular	
	Clavi	0	112	8	Regular	
	WahClavi	0	113	8	Regular	
	Strings	Orchestra	0	116	50	Live!
		Strings	0	112	49	Regular
OrchStrings		0	113	49	Regular	
Symphon.Str		0	114	49	Regular	
SlowStrings		0	113	50	Regular	
SoloViolin		0	112	41	Regular	
AnalogStrs		0	112	52	Regular	
Orch.Brass		0	118	50	Regular	
Orch.Flute		0	119	50	Regular	
Orch.Oboe		0	121	50	Regular	
SoftViolin		0	113	41	Regular	
Fiddle		0	112	111	Regular	
Viola		0	112	42	Regular	
Cello		0	112	43	Regular	
Contrabass		0	112	44	Regular	
ChamberStrs		0	112	50	Regular	
Str.Quartet		0	114	50	Regular	
ConcertoStr		0	115	49	Regular	
BowStrings		0	116	49	Regular	
MarcatoStrs		0	115	50	Regular	
TremoloStrs		0	112	45	Regular	
PizzStrings		0	112	46	Regular	
SynStrings		0	112	51	Regular	
TechStrings		0	113	51	Regular	
Harp		0	112	47	Regular	
Hackbrett		0	113	47	Regular	
Banjo		0	112	106	Regular	
Sitar		0	112	105	Regular	
Koto		0	112	108	Regular	
Shamisen		0	112	107	Regular	
Orch.Hit		0	112	56	Regular	
Guitar&Bass		NylonGuitar	0	115	25	Regular
		E.Guitar	0	114	29	Cool!
		12StrGuitar	0	113	26	Regular
		SolidGuitar	0	118	28	Regular
	VintageAmp	0	115	30	Regular	
	PedalSteel	0	125	28	Regular	
	CrunchGtr	0	113	31	Regular	
	FunkGuitar	0	113	29	Regular	
	60'sClean	0	117	28	Regular	
	VintageOpen	0	123	28	Regular	
	FolkGuitar	0	112	26	Regular	
	SolidChord	0	121	28	Regular	
	VintageMute	0	115	29	Regular	
	LeadGuitar	0	114	30	Regular	
	ChorusGtr	0	124	28	Regular	
	VintageTrem	0	120	28	Regular	
	SpanishGtr	0	113	25	Regular	
	OctaveGtr	0	113	27	Regular	
	DeepChorus	0	114	28	Regular	
	CampfireGtr	0	115	26	Regular	
	SmoothNylon	0	114	25	Regular	
	TremoloGtr	0	113	28	Regular	
	HawaiianGtr	0	114	27	Regular	
	HeavyStack	0	114	31	Regular	

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Guitar&Bass	BrightClean	0	116	28	Regular	
	WahGuitar	0	122	28	Regular	
	ClassicGtr	0	112	25	Regular	
	Distortion	0	112	31	Regular	
	Elec.12Str	0	119	28	Regular	
	Mandolin	0	114	26	Regular	
	CleanGuitar	0	112	28	Regular	
	FeedbackGtr	0	113	30	Regular	
	MutedGuitar	0	112	29	Regular	
	JazzGuitar	0	112	27	Regular	
	Overdrive	0	112	30	Regular	
	FolkGw_pick1	0	116	26	Regular	
	FolkGw_pick2	0	117	26	Regular	
	FolkGw_pick3	0	118	26	Regular	
	FingerBass	0	112	34	Regular	
	UprightBass	0	113	33	Regular	
	PickBass	0	112	35	Regular	
	SuperFretles	0	113	36	Regular	
	SlapBass	0	112	37	Regular	
	AnalogBass	0	112	40	Regular	
	DrySynBass	0	116	40	Regular	
	TouchBass	0	115	40	Regular	
	HiQBass	0	113	39	Regular	
	FunkBass	0	112	38	Regular	
	Aco.Bass	0	112	33	Regular	
	Fretless	0	112	36	Regular	
	Bass&Cymbal	0	114	33	Regular	
	FusionBass	0	113	37	Regular	
	RaveBass	0	114	39	Regular	
	DanceBass	0	113	40	Regular	
	SynthBass	0	112	39	Regular	
	SnapBass	0	114	40	Regular	
	ClickBass	0	115	39	Regular	
	Saxophone	TenorSax	0	117	67	Sweet!
		AltoSax	0	114	66	Sweet!
		SopranoSax	0	113	65	Sweet!
		GrowlSax	0	118	67	Regular
		SaxSection	0	116	67	Regular
		BaritoneSax	0	112	68	Regular
		BreathTenor	0	114	67	Regular
BreathyAlto		0	113	66	Regular	
SopranoSax		0	112	65	Regular	
RockBari		0	113	68	Regular	
TenorSax		0	112	67	Regular	
AltoSax		0	112	66	Regular	
Flute&Woodwind		Flute	0	114	74	Sweet!
		Clarinet	0	114	72	Sweet!
		PanFlute	0	113	76	Sweet!
	Oboe	0	112	69	Regular	
	EnglishHorn	0	112	70	Regular	
	Bassoon	0	112	71	Regular	
	Class.Flute	0	115	74	Regular	
	Piccolo	0	112	73	Regular	
	EthnicFlute	0	112	76	Regular	
	WoodwindEns	0	113	67	Regular	
	Shakuhachi	0	112	78	Regular	
	Clarinet	0	112	72	Regular	
	Flute	0	112	74	Regular	
	PanFlute	0	113	74	Regular	
	MelClarinet	0	113	72	Regular	
Whistle	0	112	79	Regular		
Recorder	0	112	75	Regular		
Ocarina	0	112	80	Regular		
Bagpipe	0	112	110	Regular		
Organ	RotorOrgan	0	117	19	Cool!	
	FullRocker	0	115	19	Cool!	
	RotaryDrive	0	116	19	Regular	
	RockOrgan1	0	112	19	Regular	
	DanceOrgan	0	113	18	Regular	
	GospelOrg	0	119	17	Regular	
	DrawbarOrg	0	115	17	Regular	
	JazzOrgan1	0	112	17	Regular	
	RockOrgan2	0	113	19	Regular	
	PurpleOrg	0	114	19	Regular	
	Elec.Organ	0	118	18	Regular	
	JazzOrgan2	0	113	17	Regular	
	ClickOrgan	0	112	18	Regular	
	MellowDraw	0	115	18	Regular	
	BrightDraw	0	116	17	Regular	
60'sOrgan	0	116	18	Regular		
JazzOrgan3	0	120	17	Regular		
BluesOrgan	0	117	18	Regular		
16+1Organ	0	121	17	Regular		

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Organ	16+2Organ	0	122	17	Regular
	16+4Organ	0	123	17	Regular
	TheatreOrg1	0	114	17	Regular
	TheatreOrg2	0	114	18	Regular
	ChapelOrgn1	0	113	20	Regular
	ChapelOrgn2	0	114	20	Regular
	ChapelOrgn3	0	115	20	Regular
	PipeOrgan	0	112	20	Regular
ReedOrgan	0	112	21	Regular	
OrganFlutes	JazzDraw!	0	126	17	Organ Flutes
	BluesOrgan!	0	126	17	Organ Flutes
	SixteenOne!	0	126	17	Organ Flutes
	EvenBars!	0	126	17	Organ Flutes
	PopOrgan!	0	126	17	Organ Flutes
	RockingOrg!	0	126	17	Organ Flutes
	Percussive!	0	126	17	Organ Flutes
	GospelOrg!	0	126	17	Organ Flutes
	PadOrgan!	0	126	17	Organ Flutes
	FullRanks!	0	126	17	Organ Flutes
Trumpet	Trumpet	0	115	57	Sweet!
	Trombone	0	117	58	Sweet!
	MutedTrump	0	112	60	Regular
	FlugelHorn	0	113	57	Regular
	SoftTrumpet	0	114	57	Regular
	SoloTrumpet	0	112	57	Regular
	SoloTromb	0	112	58	Regular
	JazzTrumpet	0	116	57	Regular
	FrenchHorn	0	112	61	Regular
	AirTrumpet	0	117	57	Regular
	Trombone	0	116	58	Regular
	SoftTromb	0	115	58	Regular
	MellowTromb	0	114	58	Regular
	SmoothTromb	0	118	58	Regular
Tuba	0	112	59	Regular	
Brass	BrassSection	0	112	62	Regular
	MellowBrass	0	116	62	Regular
	BigBandBrs	0	113	62	Regular
	PopBrass	0	118	62	Regular
	BrassCombo	0	115	67	Regular
	BrightBrass	0	120	62	Regular
	SoftBrass	0	123	62	Regular
	FullHorns	0	114	62	Regular
	HighBrass	0	115	62	Regular
	TrumpetEns	0	122	62	Regular
	MellowHorns	0	119	62	Regular
	BallroomBrs	0	113	60	Regular
	Trb.Section	0	113	58	Regular
	SmallBrass	0	117	62	Regular
	BrassHit	0	126	62	Regular
	StepBrass	0	124	62	Regular
	OberBrass	0	113	64	Regular
	AnalogBrs	0	112	64	Regular
	SoftAnalog	0	114	64	Regular
	FunkyAnalog	0	115	63	Regular
	TechnoBrass	0	114	63	Regular
	SynthBrass	0	112	63	Regular
	80'sBrass	0	113	63	Regular
	Accodion& Harmonica	Musette	0	112	22
TuttiAccrd		0	113	22	Regular
SmallAccrd		0	115	22	Regular
Accordion		0	116	22	Regular
TangoAccrd		0	112	24	Regular
Bandoneon		0	113	24	Regular
SoftAccrd		0	114	22	Regular
ModernHarp		0	113	23	Regular
BluesHarp		0	114	23	Regular
Harmonica		0	112	23	Regular
Choir&Pad	HahChoir	0	114	53	Regular
	GothicVox	0	113	54	Regular
	VocalEnsbl	0	113	53	Regular
	VoxHumana	0	112	54	Regular
	Choir	0	112	53	Regular
	AirChoir	0	112	55	Regular
	SweetHeaven	0	118	89	Regular
	CyberPad	0	113	100	Regular
	Fantasia	0	112	89	Regular
	Insomnia	0	113	95	Regular
	Wave2001	0	112	96	Regular
	Atmosphere	0	112	100	Regular
	NeoWarmPad	0	115	90	Regular
	XenonPad	0	112	92	Regular
	Equinox	0	112	95	Regular
DX Pad	0	112	93	Regular	

Category	Voice Name	Voice Number			Voice Type
		MSB	LSB	PRG	
Choir&Pad	Symbiont	0	113	89	Regular
	Stargate	0	114	89	Regular
	Area51	0	112	90	Regular
	DarkMoon	0	113	90	Regular
	Ionosphere	0	115	95	Regular
	GoldenAge	0	115	89	Regular
	Solaris	0	114	95	Regular
	Millennium	0	117	89	Regular
	Transform	0	113	96	Regular
	Dunes	0	114	90	Regular
Synth&FX	Oxygen	0	122	82	Regular
	Matrix	0	123	82	Regular
	WireLead	0	120	82	Regular
	HipLead	0	113	81	Regular
	SquareLead	0	112	81	Regular
	Saw.Lead	0	112	82	Regular
	FireWire	0	116	82	Regular
	Analogon	0	115	82	Regular
	SFXKit1	126	0	1	SFX Kit
	SFXKit2	126	0	2	SFX Kit
	FunkyLead	0	121	82	Regular
	Fargo	0	119	82	Regular
	Portatone	0	112	85	Regular
	Blaster	0	114	82	Regular
	BigLead	0	113	82	Regular
	Warp	0	117	82	Regular
	Adrenaline	0	113	85	Regular
	TinyLead	0	118	81	Regular
	Stardust	0	112	99	Regular
	AeroLead	0	112	84	Regular
	MiniLead	0	114	81	Regular
	SynthFlute	0	119	81	Regular
	SubAqua	0	118	82	Regular
	SunBell	0	113	99	Regular
UnderHeim	0	112	88	Regular	
HiBias	0	116	81	Regular	
Vinylead	0	115	81	Regular	
Skyline	0	115	85	Regular	
Perc&Drum	Vibraphone	0	112	12	Regular
	JazzVibes	0	113	12	Regular
	Marimba	0	112	13	Regular
	Xylophone	0	112	14	Regular
	SteelDrums	0	112	115	Regular
	Celesta	0	112	9	Regular
	Glocken	0	112	10	Regular
	MusicBox	0	112	11	Regular
	TubularBell	0	112	15	Regular
	Kalimba	0	112	109	Regular
	Dulcimer	0	112	16	Regular
	Timpani	0	112	48	Regular
	StandardKit1	127	0	1	Drums
	StandardKit2	127	0	2	Drums
	RoomKit	127	0	9	Drums
	RockKit	127	0	17	Drums
	ElectroKit	127	0	25	Drums
	AnalogKit	127	0	26	Drums
	DanceKit	127	0	28	Drums
	JazzKit	127	0	33	Drums
BrushKit	127	0	41	Drums	
SymphonyKit	127	0	49	Drums	
ArabicKit	126	0	36	SFX Kit	
HitKit	127	0	5	Drums	

## GM &amp; XG

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

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Organ	ChurchOrgan2	0	35	20	Regular	
	NotreDame	0	40	20	Regular	
	OrganFlute	0	64	20	Regular	
	Trem.OrganFl	0	65	20	Regular	
	ReedOrgan	0	0	21	Regular	
	PuffOrgan	0	40	21	Regular	
	Accordion	0	0	22	Regular	
	AccordIt	0	32	22	Regular	
	Harmonica	0	0	23	Regular	
	Harmonica2	0	32	23	Regular	
	TangoAccordion	0	0	24	Regular	
	TangoAccordion2	0	64	24	Regular	
	Guitar	NylonGuitar	0	0	25	Regular
		NylonGuitar2	0	16	25	Regular
		NylonGuitar3	0	25	25	Regular
		VelGtrHarmo	0	43	25	Regular
		Ukulele	0	96	25	Regular
		SteelGuitar	0	0	26	Regular
		SteelGuitar2	0	16	26	Regular
		12StrGuitar	0	35	26	Regular
Nylon&Steel		0	40	26	Regular	
Steel&Body		0	41	26	Regular	
Mandolin		0	96	26	Regular	
JazzGuitar		0	0	27	Regular	
MellowGuitar		0	18	27	Regular	
JazzAmp		0	32	27	Regular	
CleanGuitar		0	0	28	Regular	
ChorusGuitar		0	32	28	Regular	
MutedGuitar		0	0	29	Regular	
FunkGuitar1		0	40	29	Regular	
MuteSteelGtr		0	41	29	Regular	
FunkGuitar2		0	43	29	Regular	
JazzMan		0	45	29	Regular	
Overdriven		0	0	30	Regular	
GuitarPinch		0	43	30	Regular	
Distortion		0	0	31	Regular	
FeedbackGtr		0	40	31	Regular	
FeedbackGtr2		0	41	31	Regular	
GtrHarmonics		0	0	32	Regular	
GtrFeedback		0	65	32	Regular	
GtrHarmonic2		0	66	32	Regular	
Bass		AcousticBass	0	0	33	Regular
		JazzRhythm	0	40	33	Regular
		VXUprghtBass	0	45	33	Regular
		FingerBass	0	0	34	Regular
	FingerDark	0	18	34	Regular	
	FlangeBass	0	27	34	Regular	
	Bass&DistEG	0	40	34	Regular	
	FingerSlap	0	43	34	Regular	
	FingerBass2	0	45	34	Regular	
	Mod.Bass	0	65	34	Regular	
	PickBass	0	0	35	Regular	
	MutePickBass	0	28	35	Regular	
	FretlessBass	0	0	36	Regular	
	Fretless2	0	32	36	Regular	
	Fretless3	0	33	36	Regular	
	Fretless4	0	34	36	Regular	
	Syn.Fretless	0	96	36	Regular	
	SmthFretless	0	97	36	Regular	
	SlapBass1	0	0	37	Regular	
	ResonantSlap	0	27	37	Regular	
	PunchThumb	0	32	37	Regular	
	SlapBass2	0	0	38	Regular	
	Velo.Sw.Slap	0	43	38	Regular	
	SynthBass1	0	0	39	Regular	
	SynBass1Dark	0	18	39	Regular	
	FastResoBass	0	20	39	Regular	
	AcidBass	0	24	39	Regular	
	ClaviBass	0	35	39	Regular	
	TechnoBass	0	40	39	Regular	
	Orbiter	0	64	39	Regular	
	SquareBass	0	65	39	Regular	
	RubberBass	0	66	39	Regular	
	Hammer	0	96	39	Regular	
SynthBass2	0	0	40	Regular		
MellowSyBass	0	6	40	Regular		
SequenceBass	0	12	40	Regular		
ClickSynBass	0	18	40	Regular		
SynBass2Dark	0	19	40	Regular		
SmoothSyBass	0	32	40	Regular		
ModulrSyBass	0	40	40	Regular		
DXBass	0	41	40	Regular		
XWireBass	0	64	40	Regular		



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

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Strings	Violin	0	0	41	Regular	
	SlwAtkViolin	0	8	41	Regular	
	Viola	0	0	42	Regular	
	Cello	0	0	43	Regular	
	Contrabass	0	0	44	Regular	
	Trem.Strings	0	0	45	Regular	
	SlwAtTremStr	0	8	45	Regular	
	SuspenseStr	0	40	45	Regular	
	PizzicatoStr	0	0	46	Regular	
	Orch.Harp	0	0	47	Regular	
	YangChin	0	40	47	Regular	
	Timpani	0	0	48	Regular	
	Ensemble	Strings1	0	0	49	Regular
		StereoStrngs	0	3	49	Regular
SlwAtkStrngs		0	8	49	Regular	
ArcoStrings		0	24	49	Regular	
60'sStrings		0	35	49	Regular	
Orchestra		0	40	49	Regular	
Orchestra2		0	41	49	Regular	
TremOrchestra		0	42	49	Regular	
Velo.Strings		0	45	49	Regular	
Strings2		0	0	50	Regular	
S.SlowStrngs		0	3	50	Regular	
LegatoStrngs		0	8	50	Regular	
WarmStrings		0	40	50	Regular	
Kingdom		0	41	50	Regular	
70'sStrings		0	64	50	Regular	
Strings3		0	65	50	Regular	
SynStrings1		0	0	51	Regular	
ResoStrings		0	27	51	Regular	
SynStrings4		0	64	51	Regular	
SynStrings5		0	65	51	Regular	
SynStrings2		0	0	52	Regular	
ChoirAahs		0	0	53	Regular	
StereoChoir		0	3	53	Regular	
ChoirAahs2		0	16	53	Regular	
MellowChoir		0	32	53	Regular	
ChoirStrings		0	40	53	Regular	
VoiceOohs		0	0	54	Regular	
SynthVoice		0	0	55	Regular	
SynthVoice2		0	40	55	Regular	
Choral		0	41	55	Regular	
AnalogVoice		0	64	55	Regular	
OrchestraHit		0	0	56	Regular	
OrchestrHit2		0	35	56	Regular	
Impact		0	64	56	Regular	
Brass		Trumpet	0	0	57	Regular
		Trumpet2	0	16	57	Regular
		BriteTrumpet	0	17	57	Regular
		WarmTrumpet	0	32	57	Regular
		Trombone	0	0	58	Regular
		Trombone2	0	18	58	Regular
		Tuba	0	0	59	Regular
		Tuba2	0	16	59	Regular
		MutedTrumpet	0	0	60	Regular
	FrenchHorn	0	0	61	Regular	
	Fr.HornSolo	0	6	61	Regular	
	FrenchHorn2	0	32	61	Regular	
	HornOrchestr	0	37	61	Regular	
	BrassSection	0	0	62	Regular	
	Tp&TbSection	0	35	62	Regular	
	BrassSect2	0	40	62	Regular	
	HighBrass	0	41	62	Regular	
	MellowBrass	0	42	62	Regular	
	SynthBrass1	0	0	63	Regular	
	QuackBrass	0	12	63	Regular	
	ResoSynBrass	0	20	63	Regular	
	PolyBrass	0	24	63	Regular	
	SynthBrass3	0	27	63	Regular	
	JumpBrass	0	32	63	Regular	
	AnaVelBrass1	0	45	63	Regular	
	AnalogBrass1	0	64	63	Regular	
	SynthBrass2	0	0	64	Regular	
	SoftBrass	0	18	64	Regular	
	SynthBrass4	0	40	64	Regular	
	ChoirBrass	0	41	64	Regular	
	AnaVelBrass2	0	45	64	Regular	
	AnalogBrass2	0	64	64	Regular	
	Reed	SopranoSax	0	0	65	Regular
		AltoSax	0	0	66	Regular
		SaxSection	0	40	66	Regular
		HyperAltoSax	0	43	66	Regular
		TenorSax	0	0	67	Regular

Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Reed	BreathyTenor	0	40	67	Regular	
	SoftTenorSax	0	41	67	Regular	
	TenorSax2	0	64	67	Regular	
	BaritoneSax	0	0	68	Regular	
	Oboe	0	0	69	Regular	
	EnglishHorn	0	0	70	Regular	
	Bassoon	0	0	71	Regular	
	Clarinet	0	0	72	Regular	
	Pipe	Piccolo	0	0	73	Regular
Flute		0	0	74	Regular	
Recorder		0	0	75	Regular	
PanFlute		0	0	76	Regular	
BlownBottle		0	0	77	Regular	
Shakuhachi		0	0	78	Regular	
Whistle		0	0	79	Regular	
Ocarina		0	0	80	Regular	
Synth.Lead		SquareLead	0	0	81	Regular
		SquareLead2	0	6	81	Regular
		LMSquare	0	8	81	Regular
		Hollow	0	18	81	Regular
		Shroud	0	19	81	Regular
		Mellow	0	64	81	Regular
	SoloSine	0	65	81	Regular	
	SineLead	0	66	81	Regular	
	SawtoothLead	0	0	82	Regular	
	SawtoothLd2	0	6	82	Regular	
	ThickSaw	0	8	82	Regular	
	DynamicSaw	0	18	82	Regular	
	DigitalSaw	0	19	82	Regular	
	BigLead	0	20	82	Regular	
	HeavySynth	0	24	82	Regular	
	WaspySynth	0	25	82	Regular	
	PulseSaw	0	40	82	Regular	
	Dr.Lead	0	41	82	Regular	
	VelocityLead	0	45	82	Regular	
	Seq.Analog	0	96	82	Regular	
	CalliopeLead	0	0	83	Regular	
	PurePad	0	65	83	Regular	
	ChiffLead	0	0	84	Regular	
	Rubby	0	64	84	Regular	
	CharangLead	0	0	85	Regular	
	DistortedLd	0	64	85	Regular	
	WireLead	0	65	85	Regular	
	VoiceLead	0	0	86	Regular	
	SynthAahs	0	24	86	Regular	
	VoxLead	0	64	86	Regular	
	FifthsLead	0	0	87	Regular	
	BigFive	0	35	87	Regular	
	Bass&Lead	0	0	88	Regular	
	Big&Low	0	16	88	Regular	
	Fat&Perky	0	64	88	Regular	
	SoftWhirl	0	65	88	Regular	
	Synth.Pad	NewAgePad	0	0	89	Regular
		Fantasy	0	64	89	Regular
		WarmPad	0	0	90	Regular
		ThickPad	0	16	90	Regular
		SoftPad	0	17	90	Regular
		SinePad	0	18	90	Regular
		HornPad	0	64	90	Regular
RotaryStrngs		0	65	90	Regular	
PolySynthPad		0	0	91	Regular	
PolyPad80		0	64	91	Regular	
ClickPad		0	65	91	Regular	
AnalogPad		0	66	91	Regular	
SquarePad		0	67	91	Regular	
ChoirPad		0	0	92	Regular	
Heaven		0	64	92	Regular	
Itopia		0	66	92	Regular	
CCPad		0	67	92	Regular	
BowedPad		0	0	93	Regular	
Glacier		0	64	93	Regular	
GlassPad		0	65	93	Regular	
MetallicPad		0	0	94	Regular	
TinePad		0	64	94	Regular	
PanPad		0	65	94	Regular	
HaloPad		0	0	95	Regular	
SweepPad		0	0	96	Regular	
Shwimmer		0	20	96	Regular	
Converge		0	27	96	Regular	
PolarPad		0	64	96	Regular	
Celestial		0	66	96	Regular	
Synth.Effect		Rain	0	0	97	Regular
		ClaviPad	0	45	97	Regular



Category	Voice Name	Voice Number			Voice Type	
		MSB	LSB	PRG		
Synth.Effect	HarmoRain	0	64	97	Regular	
	AfricanWind	0	65	97	Regular	
	Carib	0	66	97	Regular	
	SoundTrack	0	0	98	Regular	
	Prologue	0	27	98	Regular	
	Ancestral	0	64	98	Regular	
	Crystal	0	0	99	Regular	
	SynthDr.Comp	0	12	99	Regular	
	Popcorn	0	14	99	Regular	
	TinyBells	0	18	99	Regular	
	RoundGlocken	0	35	99	Regular	
	GlockenChime	0	40	99	Regular	
	ClearBells	0	41	99	Regular	
	ChorusBells	0	42	99	Regular	
	SynthMallet	0	64	99	Regular	
	SoftCrystal	0	65	99	Regular	
	LoudGlocken	0	66	99	Regular	
	ChristmasBel	0	67	99	Regular	
	VibeBells	0	68	99	Regular	
	DigitalBells	0	69	99	Regular	
	AirBells	0	70	99	Regular	
	BellHarp	0	71	99	Regular	
	Gamelimba	0	72	99	Regular	
	Atmosphere	0	0	100	Regular	
	WarmAtmos.	0	18	100	Regular	
	HollwRelease	0	19	100	Regular	
	NylonElPiano	0	40	100	Regular	
	NylonHarp	0	64	100	Regular	
	HarpVox	0	65	100	Regular	
	Atmos.Pad	0	66	100	Regular	
	Planet	0	67	100	Regular	
	Brightness	0	0	101	Regular	
	FantasyBells	0	64	101	Regular	
	Smokey	0	96	101	Regular	
	Goblins	0	0	102	Regular	
	GoblinsSynth	0	64	102	Regular	
	Creeper	0	65	102	Regular	
	RingPad	0	66	102	Regular	
	Ritual	0	67	102	Regular	
	ToHeaven	0	68	102	Regular	
	Night	0	70	102	Regular	
	Glisten	0	71	102	Regular	
	BellChoir	0	96	102	Regular	
	Echoes	0	0	103	Regular	
	Echoes2	0	8	103	Regular	
	EchoPan	0	14	103	Regular	
	EchoBells	0	64	103	Regular	
	BigPan	0	65	103	Regular	
	SynthPiano	0	66	103	Regular	
	Creation	0	67	103	Regular	
	StarDust	0	68	103	Regular	
	Reso&Panning	0	69	103	Regular	
	Sci-Fi	0	0	104	Regular	
Starz	0	64	104	Regular		
Ethnic	Sitar	0	0	105	Regular	
	DetunedSitar	0	32	105	Regular	
	Sitar2	0	35	105	Regular	
	Tambra	0	96	105	Regular	
	Tamboura	0	97	105	Regular	
	Banjo	0	0	106	Regular	
	MutedBanjo	0	28	106	Regular	
	Rabab	0	96	106	Regular	
	Gopichant	0	97	106	Regular	
	Oud	0	98	106	Regular	
	Shamisen	0	0	107	Regular	
	Koto	0	0	108	Regular	
	Taisho-kin	0	96	108	Regular	
	Kanoon	0	97	108	Regular	
	Kalimba	0	0	109	Regular	
	Bagpipe	0	0	110	Regular	
	Fiddle	0	0	111	Regular	
	Shanai	0	0	112	Regular	
	Shanai2	0	64	112	Regular	
	Pungi	0	96	112	Regular	
	Hichiriki	0	97	112	Regular	
	Percussive	TinkleBell	0	0	113	Regular
		Bonang	0	96	113	Regular
		Altair	0	97	113	Regular
		GamelanGongs	0	98	113	Regular
		StereoGamlan	0	99	113	Regular
		RamaCymbal	0	100	113	Regular
AsianBells		0	101	113	Regular	
Agogo	0	0	114	Regular		

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

**GM2**

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

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

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

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

# Mega Voice Map / Sound-Zuordnungen der Mega Voices / Carte des voix Mega / Mapa de Mega Voice (PSR-3000 only)

MSB (0-127)	8			8			8			8			8		
LSB (0-127)	0			0			0			0			0		
PRG (0-127)	1			2			3			4			5		
PRG (1-128)	2			3			4			5			6		
Voice Name	SteelGuitar			HiStringGtr			CleanGuitar			Overdrive			Distortion		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127	127	127	127	127	127	127	127	127	127	127	127	127	127	127
	<b>Harmonics</b>						<b>Pick Harmonics</b>			<b>Pick Harmonics</b>			<b>Pick Harmonics</b>		
120	121						121			121			121		
	120						120			120			120		
110	<b>Slide</b>						<b>Slide</b>								
106				<b>Hard</b>			106								
105							105								
100	<b>Hammer</b>						<b>Hammer</b>								
91							91								
90	90			90			90			<b>Mute</b>			<b>Mute</b>		
89				89											
80	<b>Mute</b>						<b>Mute</b>						<b>Mute</b>		
76							76								
75							75								
70	<b>Dead</b>						<b>Dead</b>								
61		<b>Strum Noise</b>	<b>Fret Noise</b>		<b>Strum Noise</b>	<b>Fret Noise</b>	61	<b>Strum Noise</b>	<b>Fret Noise</b>		<b>EFX</b>			<b>EFX</b>	
60	60						60								
56										56			56		
55	<b>Open Hard</b>						<b>Slap</b>			55			55		
50				<b>Soft</b>											
41							41								
40							40								
30	<b>Open Medium</b>						<b>Open Hard</b>						<b>Open</b>		<b>Open</b>
21							21								
20	20						20								
10	<b>Open Soft</b>						<b>Open Soft</b>								
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			1		
PRG (0-127)	16			17			18			19			2		
PRG (1-128)	17			18			19			20			3		
Voice Name	Aco.Bass			FingerBass			PickBass			Fretless			12StrGuitar		
Key Range	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8	below B5	above C6	above C8
127	127	127		127	127		127	127		127	127		127	127	127
	Harmonics			Slap			Harmonics			Harmonics					
	121			121			121			121					
120	120			120			120			120					
110													Hard		
100	Dead			Dead			Dead			Dead					
90													90		
													89		
80	81			81			81			81					
	80			80			80			80					
70	Open Hard			Open Hard											
60		EFX			EFX			EFX			EFX			Strum Noise	Fret Noise
	61			61			Mute								
	60			60											
50															
40							41						Soft		
							40			Open					
30	Open Soft			Open Soft											
20															
10															
1	1	1		1	1		1	1		1	1		1	1	1

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

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

- Key Off: Keys marked "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.

Same as Standard Kit 1

No Sound



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

Bank Select MSB (0-127)					127	127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0	0
Program Change (0-127)					25	27	27	32	40	48
Program Change (1-128)					26	28	28	33	41	49
MIDI		Key	Key	Alternate	Analog Kit	Dance Kit (PSR-3000)	Dance Kit (PSR-1500)	Jazz Kit	Brush Kit	Symphony Kit
Note#	Note	Note	Off	Group						
13	C#-1	(C#0)		3		Kick Dance 1				
14	D-1	(D0)		3		Kick Dance 2				
15	D#-1	(D#0)								
16	E-1	(E0)								
17	F-1	(F0)		4		Scratch Dance 1				
18	F#-1	(F#0)		4		Scratch Dance 2				
19	G-1	(G0)								
20	G#-1	(G#0)								
21	A-1	(A0)				Dance Perc 1				
22	A#-1	(A#0)				Reverse Dance 1				
23	B-1	(B0)				Dance Perc 2				
24	C0	C1				Hi Q Dance 1				
25	C#0	C#1				Snare Analog 3				
26	D0	D1	O			Vinyl Noise				
27	D#0	D#1				Snare Analog 4				
28	E0	E1	O		Reverse Cymbal	Reverse Cymbal	Reverse Cymbal			
29	F0	F1	O			Reverse Dance 2				
30	F#0	F#1			Hi Q 2	Hi Q 2	Hi Q 2			
31	G0	G1			Snare Noisy 4	Snare Techno	Snare Techno	Snare Jazz H	Brush Slap 2	
32	G#0	G#1				Snare Dance 1				
33	A0	A1			Kick 3	Kick Techno Q	Kick Techno Q			Kick Soft 2
34	A#0	A#1				Rim Gate	Rim Gate		Open Rim Shot Light	
35	B0	B1			Kick Analog Short	Kick Techno L	Kick Techno L			Gran Cassa
36	C1	C2			Kick Analog	Kick Techno	Kick Techno	Kick Jazz	Kick Jazz	Gran Cassa Mute
37	C#1	C#2			Side Stick Analog	Side Stick Analog	Side Stick Analog	Side Stick Light	Side Stick Light	
38	D1	D2			Snare Analog	Snare Clap	Snare Clap	Snare Jazz L	Brush Slap 3	Band Snare
39	D#1	D#2				Dance Clap	Dance Clap			
40	E1	E2			Snare Analog 2	Snare Dry	Snare Dry	Snare Jazz M	Brush Tap 2	Band Snare 2
41	F1	F2			Tom Analog 1	Tom Analog 1	Tom Analog 1		Tom Brush 1	
42	F#1	F#2		1	Hi-Hat Closed Analog	Hi-Hat Closed 3	Hi-Hat Closed 3			
43	G1	G2			Tom Analog 2	Tom Analog 2	Tom Analog 2		Tom Brush 2	
44	G#1	G#2		1	Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3	Hi-Hat Closed Analog 3			
45	A1	A2			Tom Analog 3	Tom Analog 3	Tom Analog 3		Tom Brush 3	
46	A#1	A#2		1	Hi-Hat Open Analog	Hi-Hat Open 3	Hi-Hat Open 3			
47	B1	B2			Tom Analog 4	Tom Analog 4	Tom Analog 4		Tom Brush 4	
48	C2	C3			Tom Analog 5	Tom Analog 5	Tom Analog 5		Tom Brush 5	
49	C#2	C#3			Crash Analog	Crash Analog	Crash Analog			Hand Cymbal
50	D2	D3			Tom Analog 6	Tom Analog 6	Tom Analog 6		Tom Brush 6	
51	D#2	D#3								Hand Cymbal Short
52	E2	E3								
53	F2	F3								
54	F#2	F#3				Tambourine Analog				
55	G2	G3								
56	G#2	G#3			Cowbell Analog	Cowbell Dance	Cowbell Analog			
57	A2	A3								Hand Cymbal 2
58	A#2	A#3				Vbraslap Analog				
59	B2	B3				Ride Analog				Hand Cymbal 2 Short
60	C3	C4				Bongo Analog H				
61	C#3	C#4				Bongo Analog L				
62	D3	D4			Conga Analog H	Conga Analog H	Conga Analog H			
63	D#3	D#4			Conga Analog M	Conga Analog M	Conga Analog M			
64	E3	E4			Conga Analog L	Conga Analog L	Conga Analog L			
65	F3	F4								
66	F#3	F#4								
67	G3	G4								
68	G#3	G#4								
69	A3	A4								
70	A#3	A#4			Maracas 2	Maracas 2	Maracas 2			
71	B3	B4	O							
72	C4	C5	O							
73	C#4	C#5								
74	D4	D5	O							
75	D#4	D#5			Claves 2	Claves 2	Claves 2			
76	E4	E5				Dance Perc 3				
77	F4	F5				Dance Perc 4				
78	F#4	F#5			Scratch H 2	Dance Breath 1	Scratch H 2			
79	G4	G5			Scratch L 2	Dance Breath 2	Scratch L 2			
80	G#4	G#5		2						
81	A4	A5		2						
82	A#4	A#5								
83	B4	B5								
84	C5	C6								
85	C#5	(C#6)								
86	D5	(D6)								
87	D#5	(D#6)								
88	E5	(E6)								
89	F5	(F6)								
90	F#5	(F#6)								
91	G5	(G6)								

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

Bank Select MSB (0-127)					127	126	126	126	126	126	126
Bank Select LSB (0-127)					0	0	0	0	0	0	0
Program Change (0-127)					86	35	0	1	40	43	
Program Change (1-128)					87	36	1	2	41	44	
MIDI Note#	Note	KeyBoard Note	Key Off	Alternate Group	Studio Kit (PSR-3000)	Arabic Kit	SFX Kit 1*	SFX Kit 2*	Cuban Kit (PSR-3000)	PopLatin Kit (PSR-3000)	
13	C#-1	(C#0)		3							
14	D-1	(D0)		3							
15	D#-1	(D#0)									
16	E-1	(E0)									
17	F-1	(F0)		4							
18	F#-1	(F#0)		4							Hand Clap
19	G-1	(G0)									
20	G#-1	(G#0)									
21	A-1	(A0)									
22	A#-1	(A#0)									
23	B-1	(B0)							Conga H Tip	Conga H Tip	
24	C0	C1				Nakarazan Dom			Conga H Heel	Conga H Heel	
25	C#0	C#1			Brush Tap	Cabasa			Conga H Open	Conga H Open	
26	D0	D1	O		Brush Swirl	Nakarazan Edge			Conga H Mute	Conga H Mute	
27	D#0	D#1			Brush Slap	Hager Dom			Conga H Slap Open	Conga H Slap Open	
28	E0	E1	O		Brush Tap Swirl	Hager Edge			Conga H Slap	Conga H Slap	
29	F0	F1	O		Snare Roll	Bongo H			Conga H Slap Mute	Conga H Slap Mute	
30	F#0	F#1				Bongo L			Conga L Tip	Conga L Tip	
31	G0	G1			Snare Studio L	Conga H Mute			Conga L Heel	Conga L Heel	
32	G#0	G#1				Conga H Open			Conga L Open	Conga L Open	
33	A0	A1			Kick Amb H	Conga L			Conga L Mute	Conga L Mute	
34	A#0	A#1			Open Rim Shot	Zagrouda H			Conga L Slap Open	Conga L Slap Open	
35	B0	B1			Kick Amb L	Zagrouda L			Conga L Slap	Conga L Slap	
36	C1	C2			Kick Studio	Kick Soft	Cutting Noise	Phone Call	Conga L Slide	Conga L Slide	
37	C#1	C#2			Side Stick	Side Stick	Cutting Noise 2	Door Squeak	Bongo H Open 1 Finger	Bongo H Open 1 finger	
38	D1	D2			Snare Studio M	Snare Soft		Door Slam	Bongo H Open 3 Finger	Bongo H Open 3 finger	
39	D#1	D#2			Hand Clap	Arabic Hand Clap	String Slap	Scratch Cut	Bongo H Rim	Bongo H Rim	
40	E1	E2			Snare Studio L	Snare		Scratch H 3	Bongo H Tip	Bongo H Tip	
41	F1	F2			Floor Tom L	Floor Tom L		Wind Chime	Bongo H Heel	Bongo H Heel	
42	F#1	F#2	1		Hi-Hat Closed	Hi-Hat Closed		Telephone Ring 2	Bongo H Slap	Bongo H Slap	
43	G1	G2			Floor Tom H	Floor Tom H			Bongo L Open 1 Finger	Bongo L Open 1 finger	
44	G#1	G#2	1		Hi-Hat Pedal	Hi-Hat Pedal			Bongo L Open 3 Finger	Bongo L Open 3 finger	
45	A1	A2			Low Tom	Low Tom			Bongo L Rim	Bongo L Rim	
46	A#1	A#2	1		Hi-Hat Open	Hi-Hat Open			Bongo L Tip	Bongo L Tip	
47	B1	B2			Mid Tom L	Mid Tom L			Bongo L Heel	Bongo L Heel	
48	C2	C3			Mid Tom H	Mid Tom H			Bongo L Slap	Bongo L Slap	
49	C#2	C#3			Crash Cymbal 1	Crash Cymbal 1			Timbale L Open	Timbale L Open	
50	D2	D3			High Tom	High Tom					
51	D#2	D#3			Ride Cymbal 1	Ride Cymbal 1					
52	E2	E3			Chinese Cymbal	Crash Cymbal 2	Flute Key Click	Car Engine Ignition			
53	F2	F3			Ride Cymbal Cup	Duhulla Dom		Car Tires Squeal	Paila L	Paila L	
54	F#2	F#3			Tambourine	Tambourine		Car Passing	Timbale H Open	Timbale H Open	
55	G2	G3			Splash Cymbal	Duhulla Tak		Car Crash			
56	G#2	G#3			Cowbell	Cowbell		Siren			
57	A2	A3			Crash Cymbal 2	Duhulla Sak		Train			
58	A#2	A#3				Claves		Jet Plane			
59	B2	B3			Ride Cymbal 2	Doff Dom		Starship	Paila H	Paila H	
60	C3	C4			Bongo H	Katem Dom		Burst	Cowbell Top	Cowbell Top	
61	C#3	C#4			Bongo L	Katem Tak		Roller Coaster			
62	D3	D4			Conga H Mute	Katem Sak		Submarine			
63	D#3	D#4			Conga H Open	Katem Tak					
64	E3	E4			Conga L	Doff Tak			Guiro Short	Guiro Short	
65	F3	F4			Timbale H	Tabla Dom			Guiro Long	Guiro Long	
66	F#3	F#4			Timbale L	Tabla Tak1					
67	G3	G4				Tabla Tik					
68	G#3	G#4				Tabla Tak2	Shower	Laugh	Tambourine	Tambourine	
69	A3	A4			Cabasa	Tabla Sak	Thunder	Scream			
70	A#3	A#4			Maracas	Tabla Roll of Edge	Wind	Punch			
71	B3	B4	O			Tabla Flam	Stream	Heart Beat			
72	C4	C5	O			Sagat 1	Bubble	Foot Steps	Maracas	Maracas	
73	C#4	C#5			Guiro Short	Tabel Dom	Feed		Shaker	Shaker	
74	D4	D5	O		Guiro Long	Sagat 3			Cabasa	Cabasa	
75	D#4	D#5				Tabel Tak					Cuica Mute
76	E4	E5				Sagat 2					Cuica Open
77	F4	F5				Rik Dom					
78	F#4	F#5			Cuica Mute	Rik Tak 2					
79	G4	G5			Cuica Open	Rik Finger 1					
80	G#4	G#5		2	Triangle Mute	Rik Tak 1					
81	A4	A5		2	Triangle Open	Rik Finger 2					Triangle Mute
82	A#4	A#5			Shaker	Rik Brass Tremolo					Triangle Open
83	B4	B5				Rik Sak					
84	C5	C6			Wind Chime	Rik Tik	Dog	Machine Gun			Wind Chime
85	C#5	(C#6)					Horse	Laser Gun			
86	D5	(D6)					Bird Tweet 2	Explosion			
87	D#5	(D#6)						Firework			
88	E5	(E6)									
89	F5	(F6)									
90	F#5	(F#6)					Ghost				
91	G5	(G6)					Maou				

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

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

## PSR-3000

Group	Style Name
Pop&Rock	Cool8Beat
	8BeatModern
	60's8Beat
	70's8Beat
	BubblegumPop
	60'sGuitarPop
	BritPopSwing
	Unplugged
	Rock
	RockShuffle
	SouthernRock
	SoftRock
	8Beat
	HeartBeat
	GuitarPop
	RockBallad
	HardRock
	FusionShuffle
	PopShuffle
	60'sRock1
	60'sRock2
	J-PopHit1
	J-PopHit2
	RootRock
Ballad	8BeatAdria
	8BeatBallad
	EasyBallad
	EPBallad
	LoveSong
	PowerBallad
	70'sPopBallad
	GuitarBallad
	AnalogBallad
	6-8SlowRock
	6-8Modern
	6-8Orchestral
	12-8Ballad
	Chillout
	NewR&BBallad
	ChartBallad
	Slow&Easy
	16Beat
	PopBallad
	16BeatBallad
OrganBallad	
PianoBallad	
GuitarSerenade	
Dance	Ibiza2004
	Ibiza2002
	EuroTrance
	RetroPop
	NewR&B
	NewHipHop
	ClassicHipHop
	LatinDJ's
	DiscoHouse
	DreamDance
	FrenchHouse
	TechnoParty
	DiscoPhilly
	70'sDiscoFunk
	70'sDisco1
	70'sDisco2
	80'sDisco
	DiscoChocolate
	USPop
	Clubdance
	ChartPop
	EuroHipHop
	House
	SwingHouse

Group	Style Name
Dance	Groundbeat
	Garage
	TripHop
	6-8Trance
Swing&Jazz	OrchBigBand1
	OrchestraSwing1
	ModernJazzBld
	Bebop
	OrchBigBand2
	AcousticJazz
	MediumJazz
	FastJazz
	MORSwing
	BigBandFast1
	BigBandMed1
	EasyListening
	BigBandFast2
	BigBandMed2
	40'sBigBand
	CoolJazzBallad
	Dixieland
	OrchestraSwing2
	JazzClub
	Five-Four
	JazzWaltzMed
	JazzWaltzFast
	MidnightSwing
	OrganGroove
JumpJive	
Ragtime	
GuitarSwing	
Charleston	
R&B	BluesRock
	SlowBlues
	FranklySoul
	JazzFunk
	KoolFunk
	GospelSwing
	GospelSisters
	WorshipSlow
	WorshipMed
	Rock&Roll1
	MotorCity
	6-8Soul
	Swingin'Boogie
	DetroitPop1
	DetroitPop2
	LovelyShuffle
	R&BBallad
	Soul
	SoulBeat
	SoulShuffle
	60'sRock&Roll
	Rock&Roll2
	Twist
	BluesBallad
	BlueberryBlues
	ComboBoogie
Country	NewCountry
	ModernCntryBld
	CountryBallad
	Country8Beat
	Bluegrass
	CountryPop
	CountryRock
	CntrySing-along
	CountrySwing
	Hoedown
	CountryTwoStep
	Country2-4
	FingerPickin

Group	Style Name
Country	CountryShuffle
	CountryWaltz
Latin	BrazilianSamba
	BossaNova
	PopBossa
	BigBandMambo
	Tijuana
	SlowBossa
	PopLatin
	LatinDisco1
	LatinDisco2
	RockChaCha
	Mambo
	Salsa
	Montuno
	Beguine
	Calypso
	CubanBolero
	GuitarRumba
	RumbaFlamenca
	Rumbalsland
	Caribbean
	HappyReggae
	SheriffReggae
	Ballroom
EnglishWaltz	
Slowfox	
Foxtrot	
Quickstep	
Tango	
Swingfox	
Pasodoble	
Samba	
ChaChaCha	
Rumba	
Jive	
OrganSwing	
OrganSamba	
OrganQuickstep	
9-8Waltz	
TraditionalWaltz	
Movie&Show	SecretService
	70'sTVTheme
	WildWest
	ModBrdwayBld
	MovieBallad
	MovieSwing
	MovieDisco
	SaturdayNight
	TapDanceSwing
	Showtune
	ChristmasSwing
	ChristmasWaltz
	Moonlight6-8
ClassicPianoBld	
Entertainer	DiscoFox
	6-8SchlagerBld
	SchlagerPolka
	AlpBallad1
	AlpBallad2
	ScandBugg
	ScandSlowRock
	ScandCountry
	PartyPolka
	SchlagerSamba
	SchlagerShuffle
	SchlagerRock
	SchlagerAlp
	SchlagerPop
	SchlagerBeat
PubPiano	

Group	Style Name
World	Flamenco
	SpanishPaso
	PopFlamenco
	FrenchMusette
	ItalianMazurka
	ItalianWaltz
	FrenchWaltz
	ScandWaltz
	MariachiWaltz
	ScottishReel
	GayGordons
	Hawaiian
	Sirtaki
	Tarantella
	OberPolka
	OberWalzer
	Norteno
	Zouk
	Cumbia
	USMarch
	6-8March
	GermanMarch
	BandaPolka
HullyGully	
Enka	
FolkRock	
PopEnka	

PSR-1500

Group	Style Name	
Pop&Rock	Cool8Beat	
	8BeatModern	
	60's8Beat	
	BubblegumPop	
	60'sGuitarPop	
	BritPopSwing	
	Unplugged	
	Rock	
	SoftRock	
	8Beat	
	HeartBeat	
	GuitarPop	
	HardRock1	
	PopShuffle	
	KoolShuffle	
	60'sRock1	
	60'sRock2	
	J-PopHit	
	RootRock	
	HardRock2	
16BtUtempo		
Ballad	8BeatAdria	
	EasyBallad	
	EPBallad	
	LoveSong	
	PowerBallad	
	70'sPopBallad	
	AnalogBallad	
	6-8SlowRock	
	6-8Modern	
	6-8Orchestral	
	Chillout	
	Slow&Easy	
	16Beat	
	PopBallad	
	16BeatBallad	
	OrganBallad	
	PianoBallad	
	GuitarSerenade	
R&B		
PopWaltz		
Dance	Ibiza2004	
	Ibiza2003	
	EuroTrance	
	RetroPop	
	LatinDJ's	
	DiscoHouse	
	DreamDance	
	USPop	
	UKPop	
	ChartPop	
	Ibiza2000	
	HipHopPop	
	HipHopLight	
	HipHopGroove	
	TechnoParty	
	DiscoPhilly	
	DiscoChocolate	
	70'sDisco1	
	70'sDisco2	
	80'sDisco	
	DiscoParty	
	Clubdance	
	SwingHouse	
	Garage1	
	Garage2	
	Swing&Jazz	BigBandFast1
		BigBandMed1
		OrchestraSwing1
ModernJazzBld		
Bebop		

Group	Style Name	
Swing&Jazz	Dixieland	
	AcousticJazz	
	MediumJazz	
	JazzBallad	
	MORSwing	
	Swing	
	OrchestraSwing2	
	EasyListening	
	OrganGroove	
	BigBandFast2	
	BigBandMed2	
	JazzClub	
	JazzWaltzFast	
	Ragtime	
	GuitarSwing	
	Charleston	
	R&B	BluesRock
		Rock&Roll1
FranklySoul		
DetroitPop1		
Swingin'Boogie		
GospelSwing		
WorshipSlow		
R&BBallad		
6-8Soul		
Soul		
SoulBeat		
SoulShuffle		
DetroitPop2		
ModernR&B		
60'sRock&Roll		
Rock&Roll2		
Twist		
6-8Blues		
Country	ModernCntryBld	
	CountryBallad	
	Country8Beat	
	CountrySwing	
	Bluegrass	
	Country2-4	
	CountryPop	
	CountryRock	
	CountryTwoStep	
	FingerPickin	
	Hoedown	
	CountryShuffle	
	CountryWaltz	
	Latin	BrazilianSamba
BossaNova		
SlowBossa		
PopBossa		
PopSamba		
BigBandMambo		
Tijuana		
LatinDisco1		
RockChaCha		
Mambo		
Salsa		
Beguine		
RumbaFlamenca		
Rumbalsland		
GuitarRumba		
LatinDisco2		
CubanBolero		
Espagnole		
Caribbean		
HappyReggae		
Ballroom	VienneseWaltz	
	EnglishWaltz	
	Slowfox	
	Foxtrot	

Group	Style Name
Ballroom	Quickstep
	Tango
	Swingfox
	Pasodoble
	Samba
	ChaChaCha
	Rumba
	Jive
	OrganSwing
	OrganSamba
	OrganQuickstep
	SwingWaltz
	TraditionalWaltz
	Movie&Show
WildWest	
MovieSwing	
MovieBallad	
SaturdayNight	
TapDanceSwing	
Showtune	
ChristmasSwing	
ChristmasWaltz	
ClassicPianoBld	
Entertainer	DiscoFox
	6-8SchlagerBld
	SchlagerSamba
	SchlagerShuffle
	SchlagerRock
	SchlagerAlp
	SchlagerPop
	SchlagerBeat
	PolkaPop
	PubPiano
World	FrenchMusette
	ItalianWaltz
	OberPolka
	OberWalzer
	ScottishReel
	Tarantella
	Hawaiian
	Cumbia
	MariachiWaltz
	USMarch
	6-8March
	GermanMarch
	HullyGully
	Enka
PopEnka	



# Multi Pad Bank List /Multi-Pad-Bank-Liste / Liste des banques multi-pads / Lista de bancos de Multi Pad

## PSR-3000

Bank Name	Bank Name
HipHop1	DJ Fills
HipHop2	Synth Seq
New R&B	House Loop
Rap Beat	Scratch Bank
Heavy Shuffle	Rave Set
Dancefloor	Acid Bank
Garage	Comedy
Add Groove	Fanfare
Drum'n'Bass	Classical
So 80's	Attention
Conga&Bongo1	Spanish Gtr
Carnival de Rio	Xmas1
Latin Pop	Xmas2
Jungle Drums	Drum Endings
Timbales Paila	Boogie Man
Rumba 8Beat	Big Bells
Shaker&Tamb	Tom Flam
Samba Perc	Live! Kit1
Soca	Live! Kit2
Conga&Bongo2	Dance Kit
Steel Gtr Pick1	Live! Crash
Steel Gtr Pick2	Latin Perc1
Steel Strum1	Latin Perc2
Steel Strum2	Gong&Chime
Steel Strum3	Arabic Perc1
Gtr Cutting1	Arabic Perc2
Gtr Cutting2	
Rock'n'Roll	
Clean Gtr Pick	
Flamenco	
Piano Arp1	
Piano Arp2	
Piano Gliss	
Harpeggio	
Heaven Arp	
Montuno	
Mallet Fills	
Twinkle Arp	
New Age	
Harpist	
Brass Stab	
Swingy Brass1	
Brass Hit	
Swingy Brass2	
Synth Brs Slide	
Moody Saxes	
Swingy Brass3	
Big Band	
Orch Hit	
Brass Fall	
DJ Basic Set	
DJ FX Set	
DJ No Kick Lp	
Break Beatz	

## PSR-1500

Bank Name
Tom Flam
Crash Kit
Drum Kit 1
Drum Kit 2
Drum Kit 3
ArabicPerc 1
ArabicPerc 2
Latin Perc 1
Latin Perc 2
Dance Kit
Attention 1
Attention 2
Fanfare 1
Fanfare 2
Swingy
Brassy 1
Brassy 2
SynBrass
Mallet Fills
Piano Man
Heaven Arp
Piano Arp
Harpeggio 1
Harpeggio 2
Arpeggio
Crystal Arp
Twinkle Arp
Piano Gliss
Xmas 1
Xmas 2
Guitar Cut 1
Guitar Cut 2
GuitarRiff 1
GuitarRiff 2
Guitar Strum
DrumFill
Limbo Dancer
DJ Set 1
DJ Set 2
OrchestraHit
Water SE
Horror SE
Night SE
Day SE
Car SE
Big Bells
Whistle
MagicBell SE
Classical
Flamenco Gtr
Salsa Piano
Samba Show1
Samba Show2
TimbalesRoll

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

Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display				
STYLE CONTROL	[ACMP ON/OFF]	STYLE SETTING/SPLIT POINT/CHORD FINGERING	CHORD FINGERING	-		
	[AUTO FILL IN]					
	[OTS LINK]	MIXING CONSOLE (STYLE PART)	EFFECT	DSP1		
	[BREAK]					
	INTRO [I]				VOL/VOICE	VOICE
	INTRO [II]					PANPOT
	INTRO [III]					VOLUME
	MAIN VARIATION [A]				FILTER	HARMONIC CONTENT
	MAIN VARIATION [B]					BRIGHTNESS
	MAIN VARIATION [C]					REVERB
	MAIN VARIATION [D]					CHORUS
	ENDING/rit. [I]				EFFECT	EQ HIGH
	ENDING/rit. [II]	EQ	EQ LOW			
	ENDING/rit. [III]	MIXING CONSOLE	EFFECT	-		
[SYNC START]	STYLE SETTING/SPLIT POINT/CHORD FINGERING	STYLE SETTING/SPLIT POINT	SYNCHRO STOP WINDOW			
[SYNC STOP]						
[START/STOP]						
STYLE	[POP & ROCK]	MIXING CONSOLE (STYLE PART)	VOL/VOICE	VOICE		
	[BALLAD]			PANPOT		
	[DANCE]			VOLUME		
	[SWING & JAZZ]	STYLE SETTING/SPLIT POINT/CHORD FINGERING	STYLE SETTING/SPLIT POINT	STYLE		
	[R & B]	MIXING CONSOLE (STYLE PART)	FILTER	HARMONIC CONTENT		
	[COUNTRY]			BRIGHTNESS		
	[LATIN]			REVERB		
	[BALLROOM]			CHORUS		
	[MOVIE & SHOW]	MIXING CONSOLE	EFFECT	DSP1		
	[ENTERTAINER]			-		
	[WORLD]	MIXING CONSOLE (STYLE PART)	EQ	EQ HIGH		
[USER]	EQ LOW					
SONG	[GUIDE]	SONG SETTING	-	GUIDE MODE		
	[PERFORMANCE ASSISTANT]	MICROPHONE SETTING	OVERALL SETTING	-		
	[SCORE]		TALK SETTING	-		
	[KARAOKE]	SONG SETTING	-	LYRICS LANGUAGE		
	[TRACK 1]			TRACK1		
	[TRACK 2]			TRACK2		
	[EXTRA TRACKS]			-		
	[REPEAT]	MIXING CONSOLE (SONG CH 1 - 8)	EQ	-		
	[FF]			EFFECT		
	[REW]	MIXING CONSOLE	TUNE	-		
	[PLAY/PAUSE]	MIXING CONSOLE (SONG CH 1 - 8)	FILTER	HARMONIC CONTENT		
	[STOP]			VOL/VOICE		
	[REC]			VOLUME		
	[SONG SELECT]	SONG SETTING	-	-		
[TAP TEMPO]	UTILITY	CONFIG 1	TAP			
TEMPO	[ + ]	MIDI	SYSTEM	CLOCK		
	[ - ]	UTILITY	CONFIG 1	-		
METRONOME	[ON/OFF]			-		
FADE IN/OUT	[ + ]	MIXING CONSOLE	TUNE	TRANSPOSE		
	[ - ]	CONTROLLER	KEYBOARD/PANEL	TRANSPOSE ASSIGN		
UPPER OCTAVE	[ + ]	MIXING CONSOLE	TUNE	OCTAVE		
	[ - ]	MULTI PAD CREATOR	RECORD	-		
[MULTI PAD SELECT]	-					
[1]	1					
[2]	2					
[3]	3					
MULTI PAD CONTROL	[4]	4				
	[STOP]	MULTI PAD CREATOR	RECORD	-		
	[DEMO]	UTILITY	OWNER	LANGUAGE		
	[HELP]	MIDI	CONFIG 2	LCD BRIGHTNESS		
[FUNCTION]	MASTER TUNE/SCALE TUNE	-	-			
[SOUND CREATOR]		MASTER TUNE	MASTER TUNE			
[DIGITAL RECORDING]	SCALE TUNE	-	-			
[MIXING CONSOLE]	MIXING CONSOLE	EQ	MASTER EQ EDIT			
[BALANCE]		TUNE	OCTAVE			
[CHANNEL ON/OFF]	MASTER TUNE/SCALE TUNE	SCALE TUNE	-			
[DIRECT ACCESS]	-	-	-			
TAB	[ ▶ ]	-	-	-		
	[ ◀ ]	-	-	-		
[ENTER]	-	-	-			
[EXIT]	MAIN	-	-			
[DATA ENTRY]	-	-	-			
VOICE	PART SELECT [LEFT]	REGIST SEQUECNE/FREEZE/VOICE SET	VOICE SET	LEFT		
	PART SELECT [RIGHT 1]			RIGHT1		
	PART SELECT [RIGHT 2]			RIGHT2		
	PART ON/OFF [LEFT]			LEFT		
	PART ON/OFF [RIGHT 1]			RIGHT1		
	PART ON/OFF [RIGHT 2]			RIGHT2		
	[LEFT HOLD]	STYLE SETTING/SPLIT POINT/CHORD FINGERING	STYLE SETTING / SPLIT POINT	SPLIT POINT (LEFT)		
	[VOICE EFFECT]	HARMONY/ECHO	-	-		
	[PIANO]	MIXING CONSOLE (PANEL PART)	VOL/VOICE	VOICE		
	[E.PIANO]			PANPOT		
	[STRINGS]			VOLUME		
	[GUITAR & BASS]			HARMONIC CONTENT		
	[SAXOPHONE]			BRIGHTNESS		
	[FLUTE WOODWIND]			PORTAMENTO TIME		
[ORGAN]	MIXING CONSOLE	TUNE	PITCH BEND RANGE			
[ORGAN FLUTES]			OCTAVE			
[TRUMPET]			TUNING			

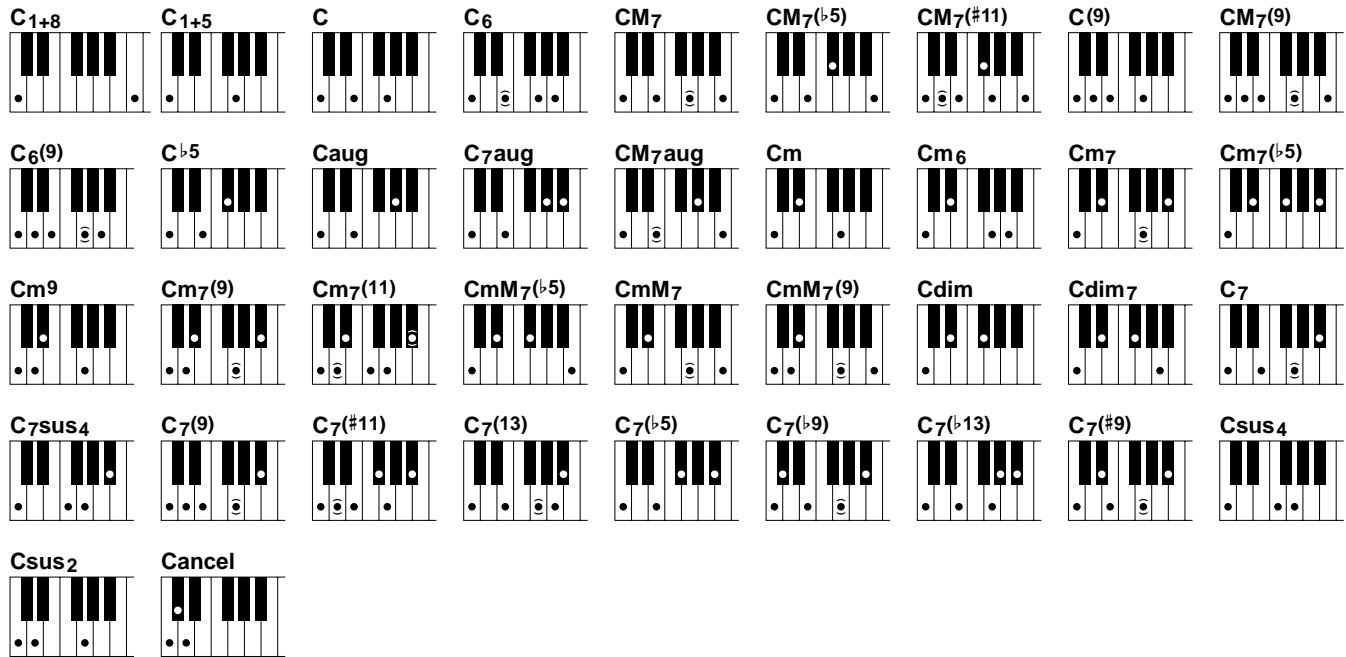
Operation: [DIRECT ACCESS] button + button listed below		Function of the accessed LCD display		
VOICE	[BRASS]	MIXING CONSOLE (PANEL PART)	EFFECT	REVERB *
	[ACCORDION & HARMONICA]			CHORUS *
	[CHOIR & PAD]	MIXING CONSOLE	EQ	DSP2-4 *
	[SYNTH. & FX]			-
	[PERC. & DRUM KIT]			EQ HIGH *
[USER]	MIXING CONSOLE (PANEL PART)	EQ	EQ LOW *	
[MUSIC FINDER]		MUSIC FINDER SEARCH 1	-	-
ONE TOUCH SETTING	[1]	STYLE SETTING/SPLIT POINT/CHORD FINGERING	STYLE SETTING/SPLIT POINT	SPLIT POINT (STYLE)
	[2]			
	[3]			
	[4]			
[MIC SETTING/VOCAL HARMONY]		VOCAL HARMONY TYPE	-	-
REGISTRATION MEMORY	[REGIST. BANK]	REGIST SEQUENCE/FREEZE/VOICE SET	REGISTRATION SEQUENCE	-
	[FREEZE]		FREEZE	GROUP SELECT
	[MEMORY]		REGISTRATION SEQUENCE	-
	[1]	REGISTRATION EDIT	-	(REGISTRATION1)
	[2]			(REGISTRATION2)
	[3]			(REGISTRATION3)
	[4]			(REGISTRATION4)
	[5]			(REGISTRATION5)
	[6]			(REGISTRATION6)
	[7]			(REGISTRATION7)
[8]	(REGISTRATION8)			
PEDAL	FOOT PEDAL 1	CONTROLLER	FOOT PEDAL	-
	FOOT PEDAL 2			
MODULATION		CONTROLLER	KEYBOARD/PANEL	MODULATION WHEEL
PITCH BEND		MIXING CONSOLE	TUNE	PITCH BEND RANGE

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

\*\* The cursor position differs depending on the current function assigned to the [TRANPOSE] button.

\*\*\* PSR-3000 only.

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



Chord Name [Abbreviation]	Normal Voicing	Display for root "C"
1+8	1+8	C1+8
1+5	1+5	C1+5
Major [M]	1+3+5	C
Sixth [6]	1+(3)+5+6	C6
Major seventh [M7]	1+3+(5)+7	CM7
Major seventh flatted fifth [M7b5]	1+3+b5+7	CM7(b5)
Major seventh add sharp eleventh [M7(#11)]	1+(2)+3+#4+5+7	CM7(#11)
Add ninth [(9)]	1+2+3+5	C9
Major seventh ninth [M7_9]	1+2+3+(5)+7	CM7(9)
Sixth ninth [6_9]	1+2+3+(5)+6	C6(9)
Flatted fifth [(b5)]	1+3+b5	Cb5
Augmented [aug]	1+3+#5	Caug
Seventh augmented [7aug]	1+3+#5+7	C7aug
Major seventh augmented [M7aug]	1+(3)+#5+7	CM7aug
Minor [m]	1+b3+5	Cm
Minor sixth [m6]	1+b3+5+6	Cm6
Minor seventh [m7]	1+b3+(5)+b7	Cm7
Minor seventh flatted fifth [m7b5]	1+b3+b5+b7	Cm7(b5)
Minor add ninth [m(9)]	1+2+b3+5	Cm9
Minor seventh ninth [m7(9)]	1+2+b3+(5)+b7	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+b3+4+5+(b7)	Cm7(11)
Minor major seventh flatted fifth [mM7b5]	1+b3+b5+7	CmM7(b5)
Minor major seventh [mM7]	1+b3+(5)+7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+b3+(5)+7	CmM7(9)
Diminished [dim]	1+b3+b5	Cdim
Diminished seventh [dim7]	1+b3+b5+6	Cdim7
Seventh [7]	1+3+(5)+b7	C7
Seventh suspended fourth [7sus4]	1+4+5+b7	C7sus4
Seventh ninth [7(9)]	1+2+3+(5)+b7	C7(9)
Seventh add sharp eleventh [7(#11)]	1+(2)+3+#4+5+b7	C7(#11)
Seventh add thirteenth [7(13)]	1+3+(5)+6+b7	C7(13)
Seventh flatted fifth [7b5]	1+3+b5+b7	C7(b5)
Seventh flatted ninth [7(b9)]	1+b2+3+(5)+b7	C7(b9)
Seventh add flatted thirteenth [7(b13)]	1+3+5+b6+b7	C7(b13)
Seventh sharp ninth [7(#9)]	1+#2+3+(5)+b7	C7(#9)
Suspended fourth [sus4]	1+4+5	Csus4
One plus two plus five [sus2]	1+2+5	Csus2
cancel	1+b2+2	Cancel

\* Notes in parentheses can be omitted.

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

## Reverb Block

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

## Chorus Block

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

## DSP1-4 Block

Panel Block Name	XG Block Name
DSP1	XG Variation Block
DSP2	XG Insertion1 Block
DSP3	XG Insertion2 Block
DSP4	XG Insertion3 Block

Type	Description	MSB	LSB	
HALL1	Reverb simulating the acoustics of a hall.	1	0	
HALL2		1	16	
HALL3		1	17	
HALL4		1	18	
HALL5		1	1	
HALL M		1	6	
HALL L	1	7		
ROOM1	Reverb simulating the acoustics of a room.	2	16	
ROOM2		2	17	
ROOM3		2	18	
ROOM4		2	19	
ROOM5		2	0	
ROOM6		2	1	
ROOM7		2	2	
ROOM S		2	5	
ROOM M		2	6	
ROOM L		2	7	
STAGE1	Reverb suitable for a solo instrument.	3	16	
STAGE2		3	17	
STAGE3		3	0	
STAGE4		3	1	
PLATE1	Reverb simulating a plate reverb unit.	4	16	
PLATE2		4	17	
PLATE3		4	0	
GM PLATE		4	7	
* WHITE ROOM	A unique short reverb with a bit of initial delay.	16	0	
* TUNNEL	Simulates a cylindrical space expanding to left and right.	17	0	
* CANYON	A hypothetical acoustic space which extends without limit.	18	0	
* BASEMENT	A bit of initial delay followed by reverb with a unique resonance.	19	0	
CHORUS1	Conventional chorus program with rich, warm chorusing.	66	17	
CHORUS2		66	8	
CHORUS3		66	16	
CHORUS4		66	1	
CHORUS5		65	2	
CHORUS6		65	0	
CHORUS7		65	1	
CHORUS8		65	8	
GM CHORUS1		65	3	
GM CHORUS2		65	4	
GM CHORUS3		65	5	
GM CHORUS4		65	6	
FB CHORUS		65	7	
CELESTE1		A 3-phase LFO adds modulation and spaciousness to the sound.	66	0
CELESTE2			66	2
SYMPHONIC1	Adds more stages to the modulation of Celeste.	68	16	
SYMPHONIC2		68	0	
ENS DETUNE (Ensemble Detune)	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0	
KARAOKE1	Echo for karaoke.	20	0	
KARAOKE2		20	1	
KARAOKE3		20	2	
* ER1	This effect isolates only the early reflection components of the reverb.	9	0	
* ER2		9	1	
* GATE REVERB	Simulation of gated reverb.	10	0	
* REVERS GATE	Simulation of gated reverb played back in reverse.	11	0	
EQ DISCO	Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.	76	16	
EQ TEL	Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver.	76	17	
2BAND EQ	A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.	77	0	
3BAND EQ	A mono EQ with adjustable LOW, MID, and HIGH equalizing.	76	0	
HM ENHANCE1 (Harmonic Enhancer 1)	Adds new harmonics to the input signal to make the sound stand out.	81	16	
HM ENHANCE2 (Harmonic Enhancer 2)		81	0	
ST 3BAND EQ	An EQ which allows equalization of low, mid and high bands.	76	18	
FLANGER1	Creates a sound reminiscent of a jet airplane.	67	8	
FLANGER2		67	16	
FLANGER3		67	17	
FLANGER4		67	1	
FLANGER5		67	0	
GM FLANGER		67	7	
* V_FLANGER	A simulation on an analog flanger effect. The LFO has a random setting.	104	0	
* T_FLANGER	Tempo-synchronized flanger.	107	0	
* DYN FLANGER	Dynamically controlled flanger.	110	0	
DELAY LCR1	Produces three delayed sounds: L, R and C (center).	5	16	
DELAY LCR2		5	0	
DELAY LR	Produces two delayed sounds: L and R. Two feedback delays are provided.	6	0	
ECHO	Two delayed sounds (L and R), and independent feedback delays for L and R.	7	0	
CROSS DELAY	The feedback of the two delayed sounds is crossed.	8	0	
TEMPO DELAY	Tempo-synchronized delay.	21	0	
TEMPO ECHO	Tempo-synchronized echo.	21	8	



Type	Description	MSB	LSB
TEMPO CROSS	Tempo-synchronized cross delay.	22	0
DIST HEAVY (Distortion Heavy)	Heavy distortion.	73	0
* ST DIST (Stereo Distortion)	Stereo distortion.	73	8
* COMP+DIST1 (Compressor + Distortion 1)	Since a Compressor is included in the first stage, steady distortion can be produced regardless of changes in input level.	73	16
* COMP+DIST2 (Compressor + Distortion 2)		73	1
OVERDRIVE	Adds mild distortion to the sound.	74	0
* ST OD (Stereo Overdrive)	Stereo Overdrive.	74	8
DIST HARD (Distortion Hard)	Hard-edge distortion.	75	16
DIST HARD2 (Distortion Hard 2)		75	22
DIST SOFT (Distortion Soft)	Soft, warm distortion.	75	17
DIST SOFT2 (Distortion Soft2)		75	23
* ST DIST HARD (Stereo Distortion Hard)	Hard-edge stereo distortion.	75	18
* ST DIST SOFT (Stereo Distortion Soft)	Soft, warm soft distortion.	75	19
* V_DIST HARD (V Distortion Hard)	Distortion which simulates vintage tube and fuzz sounds.	98	0
* V_DIST SOFT (V Distortion Soft)		98	2
AMP SIM1 (Amp Simulator 1)	A simulation of a guitar amp.	75	0
* AMP SIM2 (Amp Simulator 2)		75	1
* ST AMP1 (Stereo Amp Simulator 1)	Stereo amp simulator.	75	20
ST AMP2 (Stereo Amp Simulator 2)		75	21
* ST AMP3 (Stereo Amp Simulator 3)		75	8
* DST+DELAY1 (Distortion + Delay 1)	Distortion and Delay are connected in series.	95	16
* DST+DELAY2 (Distortion + Delay 2)		95	0
* OD+DELAY1 (Overdrive + Delay 1)	Overdrive and Delay are connected in series.	95	17
* OD+DELAY2 (Overdrive + Delay 2)		95	1
* CMP+DST+DLY1 (Compressor + Distortion + Delay 1)	Compressor, Distortion and Delay are connected in series.	96	16
* CMP+DST+DLY2 (Compressor + Distortion + Delay 2)		96	0
* CMP+OD+DLY1 (Compressor + Overdrive + Delay 1)	Compressor, Overdrive and Delay are connected in series.	96	17
* CMP+OD+DLY2 (Compressor + Overdrive + Delay 2)		96	1
* V_DIST H+DLY (V Distortion Hard + Delay)	V Distortion and Delay are connected in series.	98	1
* V_DIST S+DLY (V Distortion Soft + Delay)	Distortion and Tempo Delay are connected in series.	98	3
* DST+TDLY (Distortion + Tempo Delay)		100	0
* OD+TDLY (Overdrive + Tempo Delay)	Overdrive and Tempo Delay are connected in series.	100	1
* CMP+DST+TDL (Compressor + Distortion + Tempo Delay)	Compressor, Distortion and Tempo Delay are connected in series.	101	0
* CMP+OD+TDLY (Compressor + Overdrive + Tempo Delay)	Compressor, Overdrive and Tempo Delay are connected in series.	101	1
* V_DIST H+TDLY (V Distortion Hard + Tempo Delay)	V Distortion Hard and Tempo Delay are connected in series.	103	0
* V_DIST S+TDLY (V Distortion Soft + Tempo Delay)	V Distortion Soft and Tempo Delay are connected in series.	103	1
* MBAND COMP	Multi-band compressor that allows you to adjust the compression effect for individual frequency bands.	105	0
COMPRESSOR	Holds down the output level when a specified input level is exceeded. A sense of attack can also be added to the sound.	83	0
NOISE GATE	Gates the input when the input signal falls below a specified level.	84	0
* VCE CANCEL (Voice Cancel)	Attenuates the vocal part of a CD or other source.	85	0
* AMBIENCE	Blurs the stereo positioning of the sound to add spatial width.	88	0
* TALKING MOD (Talking Modulation)	Adds a vowel sound to the input signal.	93	0
* LO-FI	Degrades the audio quality of the input signal.	94	0
* DYN FILTER	Dynamically controlled filter.	109	0
* DYN RINGMOD	Dynamically controlled Ring Modulator.	112	0
* RING MOD	An effect that modifies the pitch by applying amplitude modulation to the frequency of the input.	113	0
* ISOLATOR	Controls the level of a specified frequency band of the input signal.	115	0
PHASER1	Cyclically modulates the phase to add modulation to the sound.	72	0
* PHASER2		72	8
EP PHASER1		72	17
EP PHASER2		72	18
EP PHASER3		72	16
* T_PHASER		108	0
* DYN PHASER		111	0
* PITCH CHG1 (Pitch Change 1)	Changes the pitch of the input signal.	80	16
* PITCH CHG2 (Pitch Change 2)		80	0
* PITCH CHG3 (Pitch Change 3)		80	1
ROTARY SP1 (Rotary Speaker 1)	Simulates a rotary speaker.	69	16
ROTARY SP2 (Rotary Speaker 2)		71	17
ROTARY SP3 (Rotary Speaker 3)		71	18
ROTARY SP4 (Rotary Speaker 4)		70	17
ROTARY SP5 (Rotary Speaker 5)		66	18
ROTARY SP6 (Rotary Speaker 6)		69	0
ROTARY SP7 (Rotary Speaker 7)		71	22
* 2WAY ROT SP (2-way Rotary Speaker)		86	0
* DST+ROT SP (Distortion + Rotary Speaker)	Distortion and rotary speaker connected in series.	69	1
* DST+2ROT SP (Distortion + 2-way Rotary Speaker)	Distortion and 2-way rotary speaker connected in series.	86	1
* OD+ROT SP (Overdrive + Rotary Speaker)	Overdrive and rotary speaker connected in series.	69	2
* OD+2ROT SP (Overdrive + 2-way Rotary Speaker)	Overdrive and 2-way rotary speaker connected in series.	86	2
* AMP+ROT SP (Amp Simulator + Rotary Speaker)	Amp simulator and rotary speaker connected in series.	69	3
* AMP+2ROT SP (Amp Simulator + 2-way Rotary Speaker)	Amp simulator and 2-way rotary speaker connected in series.	86	3
* DUAL ROT SP1 (Dual Rotor Speaker 1)	Rotary speaker simulation with speed switching.	99	0
* DUAL ROT SP2 (Dual Rotor Speaker 2)		99	1

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

Type	Description	MSB	LSB
AUTO PAN1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16
AUTO PAN2		71	0
EP AUTOPAN		71	21
* AUTO PAN3		71	1
TREMOLO1	Rich Tremolo effect with both volume and pitch modulation.	70	16
TREMOLO2		71	19
TREMOLO3		70	0
EP TREMOLO		70	18
GT TREMOLO1 (Guitar Tremolo 1)		71	20
GT TREMOLO2 (Guitar Tremolo 2)		70	19
VIBE VIBRATE	Vibraphone effect.	119	0
AUTO WAH1	Cyclically modulates the center frequency of a wah filter.	78	16
AUTO WAH2		78	0
* AT WAH+DST1 (Auto Wah + Distortion 1)	The output of an Auto Wah can be distorted by Distortion.	78	17
* AT WAH+DST2 (Auto Wah + Distortion 2)		78	1
* AT WAH+OD1 (Auto Wah + Overdrive 1)	The output of an Auto Wah can be distorted by Overdrive.	78	18
* AT WAH+OD2 (Auto Wah + Overdrive 2)		78	2
TOUCH WAH1	Changes the center frequency of a wah filter according to the input level.	82	0
TOUCH WAH2		82	8
* TC WAH+DST1 (Touch Wah + Distortion 1)	The output of an Touch Wah can be distorted by Distortion.	82	16
* TC WAH+DST2 (Touch Wah + Distortion 2)		82	1
* TC WAH+OD1 (Touch Wah + Overdrive 1)	The output of an Touch Wah can be distorted by Overdrive.	82	17
* TC WAH+OD2 (Touch Wah + Overdrive 2)		82	2
CLAVI TC WAH (Clavi Touch Wah)	Clavinet Touch Wah.	82	18
EP TC WAH (EP Touch Wah)	EP Touch Wah	82	19
* WH+DST+DLY1 (Wah + Distortion + Delay 1)	Wah, Distortion and Delay are connected in series.	97	16
* WH+DST+DLY2 (Wah + Distortion + Delay 2)		97	0
* WH+DST+TDLY (Wah + Distortion + Tempo Delay)	Wah, Distortion and Tempo Delay are connected in series.	102	0
* WH+OD+DLY1 (Wah + Overdrive + Delay 1)	Wah, Overdrive and Delay are connected in series.	97	17
* WH+OD+DLY2 (Wah + Overdrive + Delay 2)		97	1
* WH+OD+TDLY (Wah + Overdrive + Tempo Delay)	Wah, Overdrive and Tempo Delay are connected in series.	102	1
* NO EFFECT	No effect.	0	0
THRU	Bypass without applying an effect.	64	0

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

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

Parameters marked with a ● in the "Control" column can be controlled from an AC1 (assignable controller 1) etc. However, these only affect insertion type effects.

**Panel Effect Name**  
HALL1, 2, 3, 4, 5, HALLM, HALLL

**Type MSB (Type LSB)**  
MSB = 01,  
LSB = 0, 1, 6, 7, 16, 17, 18  
MSB = 0, 2,  
LSB = 0, 1, 2, 5, 6, 7, 16, 17, 18, 19  
MSB = 03  
MSB = 04, LSB = 0, 7, 16, 17

ROOM1, 2, 3, 4, 5, 6, 7, ROOMS, ROOMM, ROOML

STAGE1, 2, 3, 4

PLATE1, 2, 3, GM PLATE  
(Reverb, all the DSP blocks)

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

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

MSB = 01, LSB = 2, 3  
MSB = 02, LSB = 3, 4  
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 – 200.0mS	0 – 127	table#5	
4	HPF Cutoff	Thru – 8.0kHz	0 – 52	table#3	
5	LPF Cutoff	1.0kHz – Thru	34 – 60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13					
14	High Damp	0.1 – 1.0	1 – 10		
15					
16					

**DELAY LCR1, DELAY LCR2**  
(All the DSP blocks)

MSB = 05

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
2	Rch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
3	Cch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
4	Feedback Delay	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
5	Feedback Level	-63 – +63	1 – 127	(table#16)	
6	Cch Level	0 – 127	0 – 127	(table#18)	
7	High Damp	0.1 – 1.0	1 – 10		
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

**DELAY LR**  
(All the DSP blocks)

MSB = 06

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
2	Rch Delay	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
3	Feedback Delay 1	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
4	Feedback Delay 2	0.1 – 1638.3ms (*2)	1 – 16383		
		0.1 – 1486.0ms (*3)	1 – 14860		
5	Feedback Level	-63 – +63	1 – 127	(table#16)	
6	High Damp	0.1 – 1.0	1 – 10		
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

**ECHO**  
(All the DSP blocks)

MSB = 07

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1 – 1486.0ms (*2)	1 – 14860		
		0.1 – 743.0ms (*3)	1 – 7430		
2	Lch Feedback Level	-63 – +63	1 – 127	(table#16)	
3	Rch Delay1	0.1 – 1486.0ms (*2)	1 – 14860		
		0.1 – 743.0ms (*3)	1 – 7430		
4	Rch Feedback Level	-63 – +63	1 – 127	(table#16)	
5	High Damp	0.1 – 1.0	1 – 10		
6	Lch Delay2	0.1 – 1486.0ms (*2)	1 – 14860		
		0.1 – 743.0ms (*3)	1 – 7430		
7	Rch Delay2	0.1 – 1486.0ms (*2)	1 – 14860		
		0.1 – 743.0ms (*3)	1 – 7430		
8	Delay2 Level	0 – 127	0 – 127	(table#18)	
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

**CROSS DELAY**  
(All the DSP blocks)

MSB = 08

No.	Parameter	Display	Value	See Table	Control
1	L->R Delay	0.1 – 1486.0ms (*2)	1 – 14860		
		0.1 – 743.0ms (*3)	1 – 7430		
2	R->L Delay	0.1 – 1486.0ms (*2)	1 – 14860		
		0.1 – 743.0ms (*3)	1 – 7430		
3	Feedback Level	-63 – +63	1 – 127	(table#16)	
4	Input Select	L, R, L&R	0 – 2		
5	High Damp	0.1 – 1.0	1 – 10		
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4 – 40	table#3	
14	EQ Low Gain	-12 – +12dB	52 – 76		
15	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
16	EQ High Gain	-12 – +12dB	52 – 76		

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

ER1, ER2 (DSP1)

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 - 20.0	0 - 127	table#6	
3	Diffusion	0 - 10	0 - 10		
4	Initial Delay	0.1mS - 200.0mS	0 - 127	table#5	
5	Feedback Level	-63 - +63	1 - 127	(table#16)	
6	HPF Cutoff	Thru - 8.0kHz	0 - 52	table#3	
7	LPF Cutoff	1.0kHz - Thru	34 - 60	table#3	
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 127	(table#15)	●
11	Liveness	0 - 10	0 - 10		
12	Density	0 - 3	0 - 3		
13	High Damp	0.1 - 1.0	1 - 10		
14					
15					
16					

GATE REVERB REVERBS GATE (DSP1)

MSB = 10  
MSB = 11

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

WHITE ROOM TUNNEL CANYON BASEMENT (Reverb and DSP1)

MSB = 16  
MSB = 17  
MSB = 18  
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 - 200.0mS (*1) 0.1mS - 99.3mS (*2)	0 - 127 0 - 63	table#5	
4	HPF Cutoff	Thru - 8.0kHz	0 - 52	table#3	
5	LPF Cutoff	1.0kHz - Thru	34 - 60	table#3	
6	Width	0.5 - 30.2m (*1) 0.5 - 10.2m (*2)	0 - 104 0 - 37	table#11	
7	Height	0.5 - 30.2m (*1) 0.5 - 20.2m (*2)	0 - 104 0 - 73	table#11	
8	Depth	0.5 - 30.2m	0 - 104	table#11	
9	Wall Vary	0 - 30	0 - 30		
10	Dry/Wet	D63>W - D=W - D<W63	1 - 127	(table#15)	●
11	Rev Delay	0.1mS - 200.0mS (*1) 0.1mS - 99.3mS (*2)	0 - 127 0 - 63	table#5	
12	Density	0 - 4	0 - 4		
13	Er/Rev Balance	E63>R - E=R - E<R63	1 - 127		
14	High Damp	0.1 - 1.0	1 - 10		
15	Feedback Level	-63 - +63	1 - 127	(table#16)	
16					

KARAOKE1, 2, 3 (All the DSP blocks)

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	1.0kHz - Thru	34 - 60	table#3	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W - D=W - D<W63	1 - 127	(table#15)	●

No.	Parameter	Display	Value	See Table	Control
11	Density	0 - 3	0 - 3		
12					
13					
14					
15					
16					

TEMPO DELAY TEMPO ECHO (All the DSP blocks)

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		
14	EQ Low Gain	-12 - +12dB	52 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58		
16	EQ High Gain	-12 - +12dB	52 - 76		

TEMPO CROSS (All the DSP blocks)

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		
14	EQ Low Gain	-12 - +12dB	52 - 76		
15	EQ High Frequency	500Hz - 16.0kHz	28 - 58		
16	EQ High Gain	-12 - +12dB	52 - 76		

CHORUS1, 2, 3, 4, 5, 6, 7, 8, GMCHORUS1, 2, 3, 4 FB CHORUS, CELESTE1, 2, ROTARY SP5 (Chorus and all the DSP blocks)

MSB = 65  
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 (*4)	100Hz - 10.0kHz	14 - 54	table#3	
12	EQ Mid Gain (*4)	-12 - +12dB	52 - 76		
13	EQ Mid Width (*4)	0.1 - 12.0	1 - 120		
14					
15	Input Mode	mono/stereo	0 - 1		
16					

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

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

**AMP+ROT SP**  
(DSP1)

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	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W=63	1 – 127	(table#15)	
11					
12					
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60	table#3	
16	Output Level	0 – 127	0 – 127	(table#18)	

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

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 (*4)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*4)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*4)	0.1 – 12.0	1 – 120		
14					
15					
16					

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

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	(table#19)	
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 (*4)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*4)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*4)	0.1 – 12.0	1 – 120		
14	LFO Phase Difference	-180 – +180deg (resolution=3deg.)	4 – 124		
15	Input Mode	mono/stereo	0 – 1		
16					

**ROTARY SP1, 6**  
(All the DSP blocks)

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 (*4)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*4)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*4)	0.1 – 12.0	1 – 120		
14					
15					
16					

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

MSB = 71,  
LSB = 0,16,17,18,19, 20, 21, 22

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

**DST+ROT SP**  
**OD+ROT SP**  
(DSP1)

MSB = 69, LSB = 1  
MSB = 69, LSB = 2

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

**AUTO PAN3**  
(DSP1)

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 (*4)	100Hz – 10.0kHz	14 – 54	table#3	
12	EQ Mid Gain (*4)	-12 – +12dB	52 – 76		
13	EQ Mid Width (*4)	0.1 – 12.0	1 – 120		

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No.	Parameter	Display	Value	See Table	Control
14					
15	Input Mode	Mono, Stereo	0 – 1		
16					

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

**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 (*2) 4 – 12 (*3)	4 – 22 4 – 12		
12	Diffusion	mono/stereo	0 – 1		
13					
14					
15					
16					

**PHASER 2  
(DSP1)**

**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					

**DIST HEAVY  
OVERDRIVE  
(All the DSP blocks)**

**MSB = 73, LSB = 0  
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	1.0kHz – Thru	34 – 60	table#3	
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
8	EQ Mid Gain	-12 – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12					
13					
14					
15					
16					

**COMP+DIST1, 2  
(DSP1)**

**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	1.0kHz – Thru	34 – 60	table#3	
5	Output Level	0 – 127	0 – 127	(table#18)	
6					
7	EQ Mid Frequency	100Hz – 10.0kHz	14 – 54	table#3	
8	EQ Mid Gain	-12 – +12dB	52 – 76		
9	EQ Mid Width	0.1 – 12.0	1 – 120		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	

No.	Parameter	Display	Value	See Table	Control
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0 – 127		
12	Attack	1ms – 40ms	0 – 19	table#8	
13	Release	10ms – 680ms	0 – 15	table#9	
14	Threshold	-48dB – -6dB	79 – 121		
15	Ratio	1.0 – 20.0	0 – 7	table#10	
16					

**ST DIST  
ST OD  
(DSP1)**

**MSB = 73, LSB = 8  
MSB = 74, LSB = 8**

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

**AMP SIM1, DIST HARD, DIST HARD2, DIST SOFT,  
DIST SOFT2  
ST AMP2 (\*3)  
(All the DSP blocks)**

**MSB = 75, LSB = 0, 16, 17, 22, 23  
MSB = 75, LSB = 21 (\*3)**

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

**AMP SIM2  
(DSP1)**

**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	1.0kHz – Thru	34 – 60	table#3	
4	Output Level	0 – 127	0 – 127	(table#18)	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13					
14					
15					
16					

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ST AMP1, 3, ST DIST HARD, ST DIST SOFT  
ST AMP2 (\*2)  
(DSP1)

MSB = 75, LSB = 8, 18, 19, 20  
MSB = 75, LSB = 21 (\*2)

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

AT WAH+DST1, 2, AT WAH+OD1, 2  
(DSP1)

MSB = 78, LSB = 1, 2, 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	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					

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

MSB = 76

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

PITCH CHG1, 2  
(DSP1)

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					

2BAND EQ  
(All the DSP blocks)

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					

PITCH CHG3  
(DSP1)

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					

AUTO WAH1, 2  
(All the DSP blocks)

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 (*4)	0 – 127	0 – 127		
12					
13					
14					
15					
16					

HM ENHANCER1, 2  
(All the DSP blocks)

MSB = 81

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



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**TOUCH WAH1**  
(All the DSP blocks)

MSB = 82, LSB = 0

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

**COMPRESSOR**  
(All the DSP blocks)

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					

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

MSB = 82, LSB = 1, 16

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

**NOISE GATE**  
(All the DSP blocks)

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					

**TOUCH WAH2, CLAVI TC WAH, EP TC WAH**  
(All the DSP blocks)

MSB = 82, LSB = 8, 18, 19

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

**VCE CANCEL**  
(DSP1)

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					

**TC WAH+OD1, 2**  
(DSP1)

MSB = 82, LSB = 2, 17

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

**2WAY ROT SP**  
(DSP1)

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					



**DST+2ROT SP  
OD+2ROT SP  
(DSP1)**

**MSB = 86, LSB = 1  
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	32Hz – 2.0kHz	4 – 40	table#3	
7	EQ Low Gain	-12 – +12dB	52 – 76		
8	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
9	EQ High Gain	-12 – +12dB	52 – 76		
10					
11	Crossover Frequency	100Hz – 10.0kHz	14 – 54	table#3	
12	Mic L-R Angle	0 – 180deg	0 – 60		
13					
14	Drive	0 – 127	0 – 127		
15	LPF Cutoff	1kHz – Thru	34 – 60		
16	Output Level	0 – 127	0 – 127	(table#18)	

**TALKING MOD  
(DSP1)**

**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					

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

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

**LO-FI  
(DSP1)**

**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			
16					

**ENS DETUNE**

(Chorus and all the DSP blocks)

**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					

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

**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					

**AMBIENCE  
(DSP1)**

**MSB = 88**

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

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

**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					

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**WH+DST+DLY1, 2, WH+OD+DLY1, 2 (DSP1)** **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 Sensitivity	0 – 127	0 – 127		
12	Wah Cutoff Freq Offset	0 – 127	0 – 127		
13	Wah Resonance	1.0 – 12.0	10 – 120		
14	Wah Release	10 – 680ms	52 – 67	table#12	
15					
16					

**V\_DIST HARD** **MSB = 98, LSB = 0**  
**V\_DIST SOFT** **MSB = 98, LSB = 2**  
**(DSP1)**

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

**V\_DST H+DLY** **MSB = 98, LSB = 1**  
**V\_DST S+DLY** **MSB = 98, LSB = 3**  
**(DSP1)**

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

**DUAL ROT SP1, 2 (DSP1)** **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	32Hz – 2.0kH	4 – 40	table#3	
12	EQ Low Gain	-12 – +12dB	52 – 76		

No.	Parameter	Display	Value	See Table	Control
13	EQ High Frequency	500Hz – 16.0kHz	28 – 58	table#3	
14	EQ High Gain	-12 – +12dB	52 – 76		
15	Mic L-R Angle	0 – 180deg	0 – 60		
16	Speed Control	Slow/Fast	0/1		●

**DST+TDLY, OD+TDLY (DSP1)** **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					

**CMP+DST+TDL, CMP+OD+TDLY (DSP1)** **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					

**WH+DST+TDL, WH+OD+TDLY (DSP1)** **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 Sensitivity	0 – 127	0 – 127		
12	Wah Cutoff Freq Offset	0 – 127	0 – 127		
13	Wah Resonance	1.0 – 12.0	10 – 120		
14	Wah Release	10 – 680mS	52 – 67	table#12	
15					
16					

**V\_DST H+TDLY, V\_DST S+TDLY (DSP1)** **MSB = 103**

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

No.	Parameter	Display	Value	See Table	Control
11	Delay Mix	0 – 127	0 – 127		
12	Feedback High Dump	0.1 – 1.0	1 – 10		
13					
14					
15					
16					

**V\_FLANGER (DSP1) MSB = 104**

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

**MBAND COMP (DSP1) 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					

**T\_FLANGER (DSP1) MSB = 107**

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	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	0.1 – 12.0	1 – 120		
14	LFO phase difference	-180 – +180[deg]	4 – 124		
15					
16					

**T\_PHASER (DSP1) MSB = 108**

No.	Parameter	Display	Value	See Table	Control
1	LFO Freq	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	

No.	Parameter	Display	Value	See Table	Control
7	EQ Low Gain	-12 – +12[dB]	52 – 76		
8	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
9	EQ High Gain	-12 – +12[dB]	52 – 76		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	●
11	Stage	3 – 11	3 – 11		
12					
13	LFO phase difference	-180 – +180[deg]	4 – 124		
14					
15					
16					

**DYN FILTER (DSP1) 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[ms]	0 – 127	table#21	
7	Release Curve	0 – 127	0 – 127		
8	Direction	Up, Down	0 – 1		
9	Dyna Threshold Level	0 – 127	0 – 127		
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11					
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +12[dB]	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

**DYN FLANGER (DSP1) 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[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 – +12[dB]	52 – 76		
15	EQ High Frequency	500[Hz] – 16.0[kHz]	28 – 58	table#3	
16	EQ High Gain	-12 – +12[dB]	52 – 76		

**DYN PHASER (DSP1) 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[ms]	0 – 127	table#21	
6	Release Curve	0 – 127	0 – 127		
7	Direction	Up, Down	0 – 1		
8	Dyna Threshold Level	0 – 127	0 – 127		
9					
10	Dry/Wet	D63>W – D=W – D<W63	1 – 127	(table#15)	
11	Stage	4, 5, 6	4 – 6		
12					
13	EQ Low Frequency	32[Hz] – 2.0[kHz]	4 – 40	table#3	
14	EQ Low Gain	-12 – +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		

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**DYN RINGMOD  
(DSP1)**

MSB = 112

No.	Parameter	Display	Value	See Table	Control
1	Sensitivity	0 – 127	0 – 127		●
2	HPF Cutoff Frequency	Thru (20[Hz]) – 8.0[kHz]	0 – 52	table#3	
3	LPF Cutoff Frequency	1.0[kHz] – Thru (20.0[kHz])	34 – 60	table#3	
4	Attack Time	0.3 – 227[ms]	0 – 127	table#20	
5	Release Time	2.6 – 2171[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		

**NO EFFECT  
(Reverb, Chorus and DSP1)**

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					

**RING MOD  
(DSP1)**

MSB = 113

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

**THRU  
(All the DSP blocks)**

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					

**ISOLATOR  
(DSP1)**

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					

Parameter 10 Dry/Wet only affects insertion type effects.

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

**VIBE VIBRATE  
(All the DSP blocks)**

MSB = 119

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

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

**table#1**  
LFO Frequency

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

**table#4**  
Reverb time

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

**table#7**  
Delay Time (0.1 – 400.0 [ms])

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

**table#12**  
Wah Release Time

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

**table#2**  
Modulation Delay Offset

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

**table#5**  
Delay Time (0.1 – 200.0 [ms])

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

**table#8**  
Compressor  
Attack Time

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



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

Data	Value (%)	Data	Value (%)	Data	Value (%)
1	-99.20654297	44	-31.49414063	87	36.21826172
2	-97.63183594	45	-29.91943359	88	37.79296875
3	-96.05712891	46	-28.34472656	89	39.36767578
4	-94.48242188	47	-26.77001953	90	40.94238281
5	-92.90771484	48	-25.1953125	91	42.51708984
6	-91.33300781	49	-23.62060547	92	44.09179688
7	-89.75830078	50	-22.04589844	93	45.66650391
8	-88.18359375	51	-20.47119141	94	47.24121094
9	-86.60886872	52	-18.89648438	95	48.81591797
10	-85.03417969	53	-17.32177734	96	50.390625
11	-83.45947266	54	-15.74707031	97	51.96533203
12	-81.88476563	55	-14.17236328	98	53.54003906
13	-80.31005859	56	-12.59765625	99	55.11474609
14	-78.73535156	57	-11.02294922	100	56.68945313
15	-77.16064453	58	-9.448242188	101	58.26416016
16	-75.5859375	59	-7.873535156	102	59.83886719
17	-74.01123047	60	-6.29828125	103	61.41357422
18	-72.43652344	61	-4.724121094	104	62.98828125
19	-70.86181641	62	-3.149414063	105	64.56298828
20	-69.28710938	63	-1.574707031	106	66.13769531
21	-67.71240234	64	0	107	67.71240234
22	-66.13769531	65	1.574707031	108	69.28710938
23	-64.56298828	66	3.149414063	109	70.86181641
24	-62.98828125	67	4.724121094	110	72.43652344
25	-61.41357422	68	6.29828125	111	74.01123047
26	-59.83886719	69	7.873535156	112	75.5859375
27	-58.26416016	70	9.448242188	113	77.16064453
28	-56.68945313	71	11.02294922	114	78.73535156
29	-55.11474609	72	12.59765625	115	80.31005859
30	-53.54003906	73	14.17236328	116	81.88476563
31	-51.96533203	74	15.74707031	117	83.45947266
32	-50.390625	75	17.32177734	118	85.03417969
33	-48.81591797	76	18.89648438	119	86.60886872
34	-47.24121094	77	20.47119141	120	88.18359375
35	-45.66650391	78	22.04589844	121	89.75830078
36	-44.09179688	79	23.62060547	122	91.33300781
37	-42.51708984	80	25.1953125	123	92.90771484
38	-40.94238281	81	26.77001953	124	94.48242188
39	-39.36767578	82	28.34472656	125	96.05712891
40	-37.79296875	83	29.91943359	126	97.63183594
41	-36.21826172	84	31.49414063	127	99.20654297
42	-34.64355469	85	33.06884766		
43	-33.06884766	86	34.64355469		

table#17

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

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	-4.60
2	-72.11	34	-22.89	66	-11.37	98	-4.58
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

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		

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

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

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

STRUM
MULTI ASSIGN
ECHO
TREMOLO
TRILL

## Vocal Harmony Type List / Liste der Vocal-Harmony-Effekttypen / Liste des types d'harmonie vocale / Lista de tipos de armonía (PSR-3000 only)

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

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

Parameter	PSR-1500		System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note	
	PSR-3000	Setup	MIDI Setup	User Effect	Music Finder	Song Setup Group			Style	OTS	Multi Pad	Regist	Freeze Group				
<b>Main</b>																	
SongFile	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
StyleFile	O	O	X	X	X	O	X	-	X	-	X	X	X	O	Style	-	
Right1 VoiceFile	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Right2 VoiceFile	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Left VoiceFile	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Right1 PartSelect	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Right2 PartSelect	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Left PartSelect	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PartOnOff (Right1)	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PartOnOff (Right2)	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
PartOnOff (Left)	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
RegistrationBankFile	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>File System</b>																	
CharacterSelect	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	One setting for all the Name related pop-up window.
<b>Song</b>																	
Track1, 2 On/Off	O	O	X	X	X	X	X	-	O	Guide Setting	X	X	X	X	-	-	Setting is linked to Channel on/off.
ExtraTracks On/Off	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	Setting is linked to Channel on/off.
Synchro Start	O	O	X	X	X	X	X	-	X	-	X	X	X	O	SONG	-	Ignored during playback.
StartStop	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
A-B Repeat	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Menu &gt; Function &gt; SongSetting</b>																	
Guide Mode	O		O	X	X	X	X	-	O	Guide Setting	X	X	-	X	-	-	Reset to its default setting when song data doesn't include this data.
Guide Mode		O	O	X	X	X	X	-	O	Guide Setting	X	X	-	X	-	-	Reset to its default setting when song data doesn't include this data.
Repeat Mode	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Phrase Mark	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Track1 Channel	O	O	O	X	X	X	X	-	O	-	X	X	X	X	-	-	Set by recording. Different from one of the Track2.
Track2 Channel	O	O	O	X	X	X	X	-	O	-	X	X	X	X	-	-	Set by recording. Different from one of the Track1.
Vocal Harmony Channel		O	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	Set by recording. Different from one of the Track1.
Auto Ch Set	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-I	-	
Lyrics Language	O	O	O	X	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	Specified from the song when set to Auto.
QuickStart	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Tempo</b>																	
Song Tempo	O	O	X	X	X	X	X	-	O	TEMPO	O	X	X	O	Tempo	-	
<b>DigitalStudio &gt; DigitalRecording &gt; Song Creator</b>																	
<b>REC Mode</b>																	
Rec Start	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PunchInAt	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Rec End	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
PunchOutAt	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pedal Punch In/Out	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Quantize</b>																	
Channel	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Size	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Strength	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Track Delete</b>																	
Track Delete	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Track Mix</b>																	
Source1	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source2	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Destination	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Channel Transpose</b>																	
CHANNEL TRANSPOSE	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>REC Mode &gt; Channel &gt; Setup</b>																	
Setup Select	O		O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Setup Select		O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Chd/1~16/SysEx./Lyric &gt; Filter</b>																	
Main Filter	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Accompaniment Filter	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Lyric (KARAOKE) SW</b>																	
BackGround (Panel Setting)		O	O	X	X	X	X	-	X	Lyrics Language	X	X	-	X	-	-	Cannot be reset with Factory Reset.



Parameter			System							Song		Style		Registration		Param Lock Group	Note	
	PSR-1500	PSR-3000	SetUp	MIDI Setup	User Effect	Music Finder	Voice	Voice Set Group			Song Setup Group	Style	OTS	Multi Pad	Regist			Freeze Group
<b>SCORE SW</b>																		
Left on/off	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Right on/off	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Lyric on/off	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Chord on/off	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
NoteName on/off	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Size	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Left ch.	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Right ch.	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
KeySignature	0	0	X	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
Quantize	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
NoteName	0	0	0	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-		
ColorNote		0	0	X	X	X	X	-	0	Score Setting	X	X	-	X	-	-		
<b>Recording Data</b>																		
Song XG data	0	0							0									
<b>Style</b>																		
AccompanimentOnOff	0	0	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-		
OTSLink	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
AutoFillIn	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-		
Section	0	0	X	X	X	X	X	-	X	-	X	X	X	O	Style	-		
SynchroStart	0	0	X	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	Regist: Unavailable during style playback.	
SynchroStop	0	0	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	Regist: Unavailable during style playback.	
StartStop	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Menu &gt; Function &gt; StyleSetting/SplitPoint/Chord Fingering</b>																		
<b>Style Setting/SplitPoint</b>																		
StopAcmp	0	0	0	X	X	X	X	-	X	-	X	X	X	O	Style	-		
OTSLinkTiming	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-		
SynchroStopWindow	0	0	0	X	X	X	X	-	X	-	X	X	X	O	Style	-		
StyleTouch	0	0	0	X	X	X	X	-	X	-	X	X	X	O	Style	-		
SectionSet	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-		
SplitPoint (Style)	0	0	0	X	X	X	X	-	0	Guide Setting	X	X	X	O	Style	Split Point		
SplitPoint (Left)	0	0	0	X	X	X	X	-	X	-	X	X	X	O	Style	Split Point		
<b>Chord Fingering</b>																		
FingeringType	0	0	0	X	X	X	X	-	X	-	X	X	X	O	Style	Fingering		
Chord Root Note	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Chord Root Type	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>DigitalStudio &gt; DigitalRecording &gt; Style Creator</b>																		
<b>BASIC</b>																		
Section	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Pattern Length	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-		
Tempo	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-		
Beat	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-		
<b>Assembly</b>																		
Source Pattern	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Section	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Play Type	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Groove &gt; Groove</b>																		
Original Beat	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Beat Converter	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Swing	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Fine	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Groove &gt; Dynamics</b>																		
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Accent Type	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Strength	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Expand/Comp.	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Boost/Cut	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Channel &gt; Quantize</b>																		
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Size	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Strength	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-		

Parameter	PSR-1500		PSR-3000		System				Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder	Voice	Song Setup Group	Style	OTS		Multi Pad	Regist	Freeze Group					
<b>Channel &gt; Velocity Change</b>																	
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Boost/Cut	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Bar Copy</b>																	
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Top	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Last	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Destination	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Bar Clear</b>																	
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Top	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Last	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Channel &gt; Remove Event</b>																	
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Event	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Parameter</b>																	
Channel	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Source Root	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
Source Chord	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
NTR	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
NTT	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
NTT BASS	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
High Key	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
Note Limit Low	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
Note Limit High	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
RTR	0	0	X	X	X	X	X	-	X	-	0	X	X	X	-	-	
<b>Edit &gt; Filter</b>																	
Main Filter	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>MusicFinder</b>																	
SortBy	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
SortOrder	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
TempoLock	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Search 1/2 display</b>																	
Music	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Keyword	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Style (FileNumber)	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Beat	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
SearchArea	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo (From)	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo (To)	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Genre	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Search Result	0	0	X	X	X	0	X	-	X	-	X	X	X	X	-	-	
Record (=Property settings)	0	0	X	X	X	0	X	-	X	-	X	X	X	X	-	-	
Record (=Property settings)	0	0	X	X	X	0	X	-	X	-	X	X	X	X	-	-	
<b>Recording data</b>																	
SFF data	0	0									0						
<b>MultiPad</b>																	
Multi Pad ContentsName	0	0	X	X	X	X	X	-	X	-	X	X	0	X	-	-	
<b>DigitalStudio &gt; DigitalRecording &gt; Multi Pad Creator</b>																	
<b>Record</b>																	
Repeat	0	0	X	X	X	X	X	-	X	-	X	X	0	X	-	-	
Chord Match	0	0	X	X	X	X	X	-	X	-	X	X	0	X	-	-	
<b>Edit &gt; Filter</b>																	
Main Filter	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	0	0	0	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Recording data</b>																	
Multi Pad data	0	0										0					
<b>Voice</b>																	
LastSelectedVoice	0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
LeftHold	0	0	X	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Style	-	
<b>VoiceEffect</b>																	
Initial Touch On Off	0	0	X	X	X	X	X	-	X	-	X	X	X	0	Voice	-	
Harmony/Echo	0	0	X	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Harmony	-	
Mono/Poly (Right1)	0	0	X	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-	
Mono/Poly (Right2)	0	0	X	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-	
Mono/Poly (Left)	0	0	X	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-	
Panel Sustain	0	0	X	X	X	X	X	-	X	-	X	X	X	0	Voice	-	
DSP (Right1)	0	0	X	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-	
DSP (Right2)	0	0	X	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-	

Parameter	PSR-1500	PSR-3000	System				Voice	Voice Set Group	Song		Style			Registration		Param Lock Group	Note
			SetUp	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group			
DSP (Left)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Variation (Right1)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Variation (Right2)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Variation (Left)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
<b>DigitalStudio &gt; SoundCreator</b>																	
Voice (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Right2)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice (Left)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
<b>COMMON</b>																	
Volume for Balance (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume for Balance (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume for Balance (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Touch Sense (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Octave for Right1	O	O	X	X	X	X	O	Voice	X	-	X	X	X	X	-	-	
Octave for Right2	O	O	X	X	X	X	O	Voice	X	-	X	X	X	X	-	-	
Octave for Left	O	O	X	X	X	X	O	Voice	X	-	X	X	X	X	-	-	
<b>CONTROLLER</b>																	
MW Low Pass Filter Control (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Low Pass Filter Control (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Low Pass Filter Control (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW Amplitude Control (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW Amplitude Control (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW AmpLitude Control (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW LFO PMOD Depth (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO PMOD Depth (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO PMOD Depth (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW LFO FMOD Depth (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO FMOD Depth (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO FMOD Depth (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
MW LFO AMOD Depth (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO AMOD Depth (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
MW LFO AMOD Depth (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
<b>SOUND</b>																	
EG Attack (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG Decay (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG Release (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Depth (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	

Parameter			System				Voice	Voice Set Group	Song		Style			Registration		Param Lock Group	Note
	PSR-1500	PSR-3000	SetUp	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group			
Vibrato Depth (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Speed (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Delay (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
<b>EFFECT/EQ</b>																	
Panel Sustain (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
DSP Type (Right1)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Type (Right2)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Type (Left)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
LastSelectedDSP	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
DSP Variation Value (Right1)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Variation Value (Right2)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Variation Value (Left)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
EQ Low Freq (Right1)	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq (Right2)	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq (Left)	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ High Freq (Right1)	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq (Right2)	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq (Left)	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
<b>OrganFlute &gt; Footage</b>																	
Organ Flutes Footage (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Footage (Right2)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Footage (Left)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Type (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Type (Right2)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Type (Left)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Vib On/Off (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib On/Off (Right2)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib On/Off (Left)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Vib Depth (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Depth (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Depth (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Vib Speed (Right1)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Speed (Right2)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Vib Speed (Left)	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
<b>OrganFlute &gt; Footage</b>																	
Organ Flutes Attack Footage (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Footage (Right2)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Organ Flutes Attack Footage (Left)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flutes Attack Mode (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	

Parameter	System							Voice	Voice Set Group	Song				Style			Registration		Param Lock Group	Note
	PSR-1500	PSR-3000	SetUp	MIDI Setup	User Effect	Music Finder	Voice			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group					
Organ Flutes Attack Mode (Right2)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Attack Mode (Left)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Style	-				
Organ Flutes Attack length (Right1)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Attack length (Right2)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Attack length (Left)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Style	-				
Organ Flutes Response (Right1)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Response (Right2)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Response (Left)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Style	-				
Organ Flutes Volume (Right1)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Volume (Right2)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Voice	-				
Organ Flutes Volume (Left)	0	0	X	X	X	X	0	-	0	Keyboard Voice	X	0	X	0	Style	-				
<b>Mic</b>																				
VocalHarmonyOnOff		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
TalkOnOff		0	X	X	X	X	X	-	X	-	X	X	X	X	-	-				
Mic EffectOnOff		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
VHType		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
VHParameters		0	X	X	0	X	X	-	0	Mic.Setting	X	X	X	X	-	Mic.Setting				
<b>Main &gt; Mic Setting</b>																				
<b>Mic Setting &gt; OverAll Setting</b>																				
EQ Low Freq.		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
EQ Low Gain		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
EQ Mid Freq.		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
EQ Mid Gain		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
EQ High Freq.		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
EQ High Gain		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Noise Gate SW		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Noise Gate TH		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Compressor SW		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Compressor TH		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Compressor RAT		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Compressor OUT		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
VH Song Channel Mute		0	X	X	X	X	X	-	X	-	X	X	X	0	Mic	Mic.Setting				
VH Song Channel		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
VH Keyboard		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
VH Balance		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
VH Mode		0	X	X	X	X	X	-	X	-	X	X	X	0	Mic	Mic.Setting				
VH Chord Detect		0	X	X	X	X	X	-	X	-	X	X	X	0	Mic	Mic.Setting				
Mute		0	X	X	X	X	X	-	X	-	X	X	X	X	-	-				
MicVolume		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
<b>Mic Setting &gt; Talk Setting</b>																				
Talk Setting Volume		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting Pan		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting ReverbDepth		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting ChorusDepth		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting TotalVolumeAttenuator		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting DSPOnOff		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting DSPDepth		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
Talk Setting DSPTType		0	0	X	X	X	X	-	X	-	X	X	X	X	-	-				
<b>Main &gt; Mixing Console &gt; Voice</b>																				
<b>Volume</b>																				
Offset Volume Song		0	0	X	X	X	X	X	-	X	-	X	X	X	0	Song	-			
Offset Volume Style		0	0	X	X	X	X	X	-	X	-	X	X	X	0	Style	-			
Volume M.Pad		0	0	X	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	MultiPad	-			
Volume Mic		0	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting				
Volume Left		0	0	X	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Style	-			
Volume Right1		0	0	X	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Voice	-			
Volume Right2		0	0	X	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Voice	-			
Part Volume Song		0	0	X	X	X	X	X	-	0	Volume	X	X	X	X	-	-			
Part Volume Style		0	0	X	X	X	X	X	-	X	-	0	X	X	0	Style	-			
<b>PanPot</b>																				
Offset PanPot Song		0	0	X	X	X	X	X	-	X	-	X	X	X	X	-	-			
Offset PanPot Style		0	0	X	X	X	X	X	-	X	-	X	X	X	0	Style	-			
PanPot M.Pad		0	0	X	X	X	X	X	-	X	-	X	X	X	0	Multi Pad	-			
PanPot Mic		0	X	X	X	X	X	X	-	0	Mic.Setting	X	X	X	0	Mic	Mic.Setting			

Parameter	PSR-1500		PSR-3000		System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	SetUp	MIDI Setup	User Effect	Music Finder	Song Setup Group	Style	OTS	Multi Pad			Regist	Freeze Group						
PanPot Left	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-		
PanPot Right1	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-		
PanPot Right2	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Part PanPot Song	O	O	X	X	X	X	X	-	O	Pan	X	X	X	X	-	-		
Part PanPot Style	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-		
<b>Voice</b>																		
Voice (Right1)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Voice (Right2)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Voice (Left)	O	O	X	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-		
Voice (Style Part)	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-		
Voice (Song Part)	O	O	X	X	X	X	X	-	O	Voice	X	X	X	X	-	-		
<b>Auto Revoice</b>																		
Auto Revoice On/Off	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
Auto Revoice Setup	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Main &gt; Mixing Console &gt; Filter</b>																		
<b>Brightness</b>																		
Brightness Song Part	O	O	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-		
Brightness Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-		
Brightness Right1	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Brightness Right2	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Brightness Left	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Harmonic Content</b>																		
Harmonic Content Song Part	O	O	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-		
Harmonic Content Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-		
Harmonic Content Right1	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Harmonic Content Right2	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Harmonic Content Left	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Main &gt; Mixing Console &gt; Tune</b>																		
<b>Octave</b>																		
Octave Right1	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Octave Right2	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Octave Left	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Tune</b>																		
Tune Right1	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Tune Right2	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Tune Left	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Portamento Time</b>																		
Portamento Time Right1	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Portamento Time Right2	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-		
Portamento Time Left	O	O	X	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Pitch Bend Range</b>																		
Pitch Bend Range Right1	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Pitch Bend Range Right2	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-		
Pitch Bend Range Left	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Transpose</b>																		
Master Transpose	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-		
Song Transpose	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-		
Keyboard Transpose	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-		
<b>Main &gt; Mixing Console &gt; LineOut</b>																		
MasterEQ Type	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	Master EQ		
MasterEQ Parameter	O	O	X	X	O	X	X	-	X	-	X	X	X	X	-	Master EQ		
<b>Main &gt; Mixing Console &gt; EQ</b>																		
<b>EQ Low Gain</b>																		
EQ Low Gain Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-		
EQ Low Gain Song Part	O	O	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-		
EQ Low Gain Right1	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-		

Parameter	PSR-1500		PSR-3000		System			Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note
	PSR-1500	PSR-3000	SetUp	MIDI Setup	User Effect	Music Finder	Voice			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group		
EQ Low Gain Right2	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Gain Left	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ Low Gain Style (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
EQ Low Gain Song (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ Low Gain Multi Pad	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
<b>EQ High Gain</b>																	
EQ High Gain Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
EQ High Gain Song Part	O	O	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	
EQ High Gain Right1	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Gain Right2	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Gain Left	O	O	X	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ High Gain Style (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
EQ High Gain Song (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ High Gain Multi Pad	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
<b>Main &gt; Mixing Console &gt; Effect</b>																	
<b>Reverb Type</b>																	
Reverb Type	O	O	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Reverb Type	
Reverb Return Level	O	O	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Reverb Return Level	
<b>Reverb Depth</b>																	
Reverb Depth Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Reverb Depth Song Part	O	O	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Reverb Depth Right1	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth Right2	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth Left	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Reverb Depth Style (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Reverb Depth Song (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Reverb Depth Multi Pad	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Reverb Depth Mic			O	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
<b>Chorus Type</b>																	
Chorus Type	O	O	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	-	
Chorus Return Level	O	O	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Chorus Return Level	
<b>Chorus Depth</b>																	
Chorus Depth Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Chorus Depth Song Part	O	O	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Chorus Depth Right1	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth Right2	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth Left	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Chorus Depth Style (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Chorus Depth Song (Offset)	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Chorus Depth Multi Pad	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Chorus Depth Mic			O	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
<b>DSP Type</b>																	
DSP1 (Variation) Type	O	O	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	-	
DSP1 (Variation) Return Level	O	O	X	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	DSP1 Return Level	
DSP2Type	O	O	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP3Type	O	O	X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
DSP4Type			O	X	X	X	X	-	O	Effect/Mic	X	X	X	O	Voice/Style/Song/Mic	Mic.Setting	
DSP4Type	O		X	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Style/Song	-	
<b>DSP Depth</b>																	
DSP Depth Style Part	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
DSP Depth Song Part	O	O	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
DSP Depth Right1	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Depth Right2	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
DSP Depth Left	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
DSP Depth Mic			O	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	-	

Parameter	PSR-1500	PSR-3000	System				Voice	Voice Set Group	Song		Style		Registration		Param Lock Group	Note	
			SetUp	MIDI Setup	User Effect	Music Finder			Song Setup Group	Style	OTS	Multi Pad	Regist	Freeze Group			
<b>InsertionType</b>																	
Ins.Type (Right1)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Ins.Type (Right2)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Ins.Type (Left)	O	O	X	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Ins.Type (Song)	O	O	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Ins.Type (Mic)		O	X	X	X	X	X	-	O	Mic.Setting	X	X	X	O	Mic	Mic.Setting	
Effect Parameter (Reverb/Chorus/DSP1~4)	O		X	X	O	X	X	-	O	Effect	X	X	X	X	-	-	
Effect Parameter (Reverb/Chorus/DSP1~3)		O	X	X	O	X	X	-	O	Effect	X	X	X	X	-	-	
Effect Parameter (DSP4)		O	X	X	O	X	X	-	O	Mic.Setting	X	X	X	X	-	Mic.Setting	
<b>Main &gt; Channel &gt; Channel OnOffPopUp</b>																	
ChannelOnOff (Song)	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Song	-	
ChannelOnOff (Style)	O	O	X	X	X	X	X	-	X	-	O	X	X	O	Style	-	
<b>MIDI</b>																	
<b>MIDI Template</b>																	
Template No.	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Preset Template Name	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Menu &gt; Function &gt; MIDI</b>																	
<b>System</b>																	
Local Control	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Clock	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Transmit Clock	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Receive Transpose	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Receive Start/Stop	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
SysEx Transmit	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
SysEx Receive	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord SysEx Transmit	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chord SysEx Receive	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Transmit</b>																	
Part Select	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Ch (for each part)	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Filter (for each part)	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Receive</b>																	
CH Select	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Part Select	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
Filter (for each channel)	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Root</b>																	
Root	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Chord Detect</b>																	
Chord Detect	O	O	X	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Menu &gt; Function &gt; Master Tune/Scale Tune</b>																	
<b>Master Tune</b>																	
MasterTune	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Scale Tune</b>																	
Scale	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Tune	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
BaseNote	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
Part Select (Right1/Right2, Left, Style, Multi Pad)	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Scale	-	
<b>Menu &gt; Function &gt; Controller</b>																	
<b>Foot Pedal</b>																	
PedalFunction	O	O	X	X	X	X	X	X	X	X	X	X	X	O	Pedal	-	
PedalSettings	O	O	X	X	X	X	X	X	X	X	X	X	X	O	Pedal	-	
PedalPolarity	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Keyboard/Panel</b>																	
Initial Touch	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Initial TouchOffLevel	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Initial Touch Part OnOff	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
ModulationWheelPartOnOff	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
TransposeAssign	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Menu &gt; Function &gt; Regist.Sequence/Freeze/VoiceSet</b>																	
<b>Regist Sequence</b>																	
RegistSequenceData	O	O	X	X	X	X	X	-	X	-	X	X	X	O	-	-	Memorized as a single Registration Bank file.
RegistSequenceEnable	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Memorized as a single Registration Bank file.
Regist(+)/Pedal	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
Regist(-)/Pedal	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	
SequenceEnd	O	O	X	X	X	X	X	-	X	-	X	X	X	O	-	-	Memorized as a single Registration Bank file.
<b>Freeze Group</b>																	
FreezeGroupSetting	O		O	X	X	X	X	-	X	-	X	X	X	X	-	-	
FreezeGroupSetting		O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	



Parameter			System					Voice	Voice Set Group	Song		Style			Registration		Param Lock Group	Note
	PSR-1500	PSR-3000	SetUp	MIDI Setup	User Effect	Music Finder	Song Setup Group			Style	OTS	Multi Pad	Regist	Freeze Group				
<b>VoiceSet</b>																		
VoiceSet Group Right1 OnOff	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
VoiceSet Group Right2 OnOff	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
VoiceSet Group Left OnOff	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Menu &gt; Function &gt; Harmony/Echo</b>																		
Type	O	O	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-		
Volume	O	O	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-		
Speed	O	O	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-		
Assign	O	O	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-		
ChordNoteOnly	O	O	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-		
TouchLimit	O	O	X	X	X	X	O	Harmony	O	Keyboard Voice	X	O	X	O	Harmony	-		
<b>Menu &gt; Function &gt; VideoOut</b>																		
NTSC/PAL		O	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Cannot be reset with Factory Reset.	
ScreenContent		O	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Cannot be reset with Factory Reset.	
<b>Menu &gt; Function &gt; Utility</b>																		
<b>Configuration1</b>																		
FadeInTime	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
FadeOutTime	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
FadeOutHoldTime	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
MetronomeVolume	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
MetronomeSound	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
TimeSignature	O	O	X	X	X	X	X	-	O	-	O	X	X	X	-	-	Set when the song/style is loaded.	
ParameterLock	O		O	X	X	X	X	-	X	-	X	X	X	X	-	-		
ParameterLock		O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
TapCountPercussion	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-		
TapCountVelocity	O	O	X	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-		
<b>Configuration2</b>																		
LCD Brightness	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.	
DisplayVoiceNumber	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Disk</b>																		
SongAutoOpen	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-		
Format	O	O													-	-		
Property	O	O													-	-		
<b>Owner</b>																		
Language	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.	
OwnerName	O	O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.	
MainPicture		O	O	X	X	X	X	-	X	-	X	X	-	X	-	-	Cannot be reset with Factory Reset.	
<b>SystemReset</b>																		
FactoryResetSetting	O		X	X	X	X	X	-	X	-	X	X	-	X	-	-	Language, and Owner Name are not reset.	
FactoryResetSetting		O	X	X	X	X	X	-	X	-	X	X	-	X	-	-	Language, Owner Name, Main Picture BackGround, Lyric Picture BackGround, and Video Out related parameters are not reset.	
<b>Registration</b>																		
FreezeOnOff	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
RegistMemory Contents	O		O	X	X	X	X	-	X	-	X	X	X	X	-	-	Filter settings when registering Registration.	
RegistMemory Contents		O	O	X	X	X	X	-	X	-	X	X	X	X	-	-	Filter settings when registering Registration.	
RegistNumber	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
RegistContentsName	O	O	X	X	X	X	X	-	X	-	X	X	X	O	-	-		
<b>OTS</b>																		
OTSNumber	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Menu &gt; Demo</b>																		
None	O	O																
<b>Menu &gt; Help</b>																		
None	O	O																
<b>Power</b>																		
None	O	O																
<b>Master Volume Fade In/Out</b>																		
Fade in/out	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Metronome</b>																		
Start/Stop	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Transpose</b>																		
Transpose	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Transpose	-		
<b>Upper Octave</b>																		
UpperOctave	O	O	X	X	X	X	X	-	X	-	X	X	X	O	Voice	-		
<b>PAT</b>																		
PAT On/Off	O	O	X	X	X	X	X	-	X	-	X	X	X	X	-	-	Set to OFF when a song is selected. Set to ON if the selected song has the Sys Ex at the top of the data.	

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

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. 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/1001 0000-1001 1111(binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/ 1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexadecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

MIDI CHANNEL MESSAGE (1)

MIDI Events	[MIDI]																			[Song Creator]				
	Status byte	1st Data byte				2nd Data byte				Voice		MIDI Reception					MIDI Transmission					PLAY		REC
	Status	Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)				
Key Off [GM1] [GM2]	8nH (n: Channel Number)	kk	Key no. (0-127)	vv	Velocity (0-127)	O	O (Harmony Channel/Melody Channel)	O	O	O	O	X	X	O	O	X	O	X	X	X				
Key On [GM1] [GM2]	9nH (n: Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	O	O (Harmony Channel/Melody Channel)	O	O	O	O	●	O	O	O	●	O	X	O	O				
Control Change	BnH	0 (00H)	Bank Select MSB [GM2]	0 8 64 118 119 120 121 126 127	00H 08H 40H 76H 77H 78H 79H 7EH 7FH	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	O			
		5 (05H)	Portamento Time [GM2]	0-127 (00H...7FH)	Data	O (Except Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	O	O	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	O	O		
		7 (07H)	Main Volume [GM1] [GM2]	0-127 (00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O		
		10 (0AH)	Panpot [GM1] [GM2]	0-127 (00H...7FH)	L64...C...R63	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	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	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	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	X	O		
		64 (40H)	Sustain (Dampener) [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	O	O		
		65 (41H)	Portamento [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O (Except Natural Piano, Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O		
		66 (42H)	Sostenuto [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O		
		67 (43H)	Soft Pedal [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O	O	O		
		71 (47H)	Harmonic Content [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O		
		72 (48H)	Release Time [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O	O	O		
		73 (49H)	Attack Time [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O	O	O		
		74 (4AH)	Brightness [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O	O	O		
		75 (4BH)	Decay Time [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	X	O		
		76 (4CH)	Vibrato Rate [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	O	X		
		77 (4DH)	Vibrato Depth [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	O	X		
78 (4EH)	Vibrato Delay [GM2]	0-127 (00H...7FH)	-64...0...+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	O	O	X				
84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	O	X	O	O	X	O	O	O	O	●	O	X	O	X	O	X	O				
91 (5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127 (00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O	O	O				
93 (5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127 (00H...7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O	O	O				
94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	O	O	●	●	X	O	O	O	O	X Multi Recording				

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

MIDI Events	Status byte	[MIDI]															[Song Creator]				
		1st Data byte		2nd Data byte			Voice		MIDI Reception					MIDI Transmission					PLAY		REC
		Status	Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)
		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	
		121 (79H)	Reset All Controllers [GM1][GM2]	0 (00H)	Data		O	X	O	X	X	X	X	X	O	X	O	X	O	X	
		122 (7AH)	Local Control	0 127 (00H (7FH)	OFF ON	-	-			O				X	X	X	X	X	X	X	
		123 (7BH)	All Note Off [GM1][GM2]	0 (00H)	Data		O	O (Harmony Channel/Melody Channel)	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	
		124 (7CH)	Omni Off [GM2]	0 (00H)	Data		O	X	O	X	X	X	X	X	O	X	O	X	O	X	
		125 (7DH)	Omni On [GM2]	0 (00H)	Data		O	X	O	X	X	X	X	X	O	X	O	X	O	X	
		126 (7EH)	Mono [GM2]	0-16 (00H...10H)	Data		O	X	O	X	X	X	X	X	O	X	O	X	O	X	
		127 (7FH)	Poly [GM2]	0 (00H)	Data		O	X	O	X	X	X	X	X	O	X	O	X	O	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	
Channel After Touch [GM1][GM2]	DnH (n: Channel Number)	vv (00H...7FH)	Data	-	-	-	O	X	O	O	O (All Keyboard parts)	X	O	X	O	X	O	X	O		
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	O	X	O	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	
Realtime Message	F8H MIDI Clock	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)	O (Transmitted when the Clock is set to Internal and the Transmit Clock is set to on.)	-	-	-								
	FAH Start	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)	O (Transmitted when the Transmit Clock is set to on.)	-	-	-								
	FBH Continue	-	-	-	-	-	-	-	X	X	-	-	-								
	FCH Stop	-	-	-	-	-	-	-	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)	O (Transmitted when the Transmit Clock is set to on.)	-	-	-								
	FEH Active Sense [GM2]	-	-	-	-	-	-	-	O	O	-	-	-								
	FFH System Reset	-	-	-	-	-	-	-	X	X	-	-	-								

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

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

Mic./Vocal Harmony

PSR-1500	X
PSR-3000	O

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

MIDI CHANNEL MESSAGE (2)

NRPN

[MIDI]

[Song Creator]

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

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

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

NRPN (Vocal Harmony)

[MIDI]

[Song Creator]

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

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

Data Entry LSB: Ignored.

RPN				[MIDI]										[Song Creator]					
RPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception				MIDI Transmission				PLAY		REC	
MSB	LSB	MSB	LSB			Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1] [GM2]	mm: 00H-18H (0...+24[semitones])	O	O	O	O	O	O	●	O	O	O	X	O	O	O
00H	01H	mmH	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	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	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	O	X	O	X	X
7FH	7FH	--	--	Null [GM2]	-	O	O	O	O	O	O	X	O	O	O	X	O	X	X

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

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

Mic./Vocal Harmony

PSR-1500	X
PSR-3000	O

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

## XG PARAMETER CHANGE TABLE

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

### MIDI Parameter Change table (XG SYSTEM)

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

TOTAL SIZE 07

●: Transmitted via panel operations O: Available

### MIDI Parameter Change table (SYSTEM INFORMATION)

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

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)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC
Regular/ Drum/ Natural/ Organ Voice		Mic/ Vocal Harmony	Song						Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Left)	
02	01	00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Parameter List	01 (=HALL1) 00	O	O	O	O	O	O	O	●	O	O	O			
		02	1	00-7F	REVERB PARAMETER 1	-	Depends on Reverb Type	O	O	O	O	O	O	O	●	O	O	O			
		03	1	00-7F	REVERB PARAMETER 2	-	Depends on Reverb Type	O	O	O	O	O	O	O	●	O	O	O			
		04	1	00-7F	REVERB PARAMETER 3	-	Depends on Reverb Type	O	O	O	O	O	O	O	●	O	O	O			
		05	1	00-7F	REVERB PARAMETER 4	-	Depends on Reverb Type	O	O	O	O	O	O	O	●	O	O	O			
		06	1	00-7F	REVERB PARAMETER 5	-	Depends on Reverb Type	O	O	O	O	O	O	O	●	O	O	O			
		07	1	00-7F	REVERB PARAMETER 6	-	Depends on Reverb Type	O	O	O	O	O	O	O	●	O	O	O			

													[MIDI]					[Song Creator]				
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)		
		08	1	00-7F	REVERB PARAMETER 7	Refer to Effect Parameter List	Depends on Reverb Type	0	0									●		0	0	0
		09	1	00-7F	REVERB PARAMETER 8	-	Depends on Reverb Type	0	0									●		0	0	0
		0A	1	00-7F	REVERB PARAMETER 9	-	Depends on Reverb Type	0	0									●		0	0	0
		0B	1	00-7F	REVERB PARAMETER 10	-	Depends on Reverb Type	0	0									●		0	0	0
		0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB (0...64...127)	40	0	0									●		0	0	0
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	0	0									0		0	0	X
TOTAL SIZE		0E																				

02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	0	0									●		0	0	0
		11	1	00-7F	REVERB PARAMETER 12	-	Depends on Reverb Type	0	0									●		0	0	0
		12	1	00-7F	REVERB PARAMETER 13	-	Depends on Reverb Type	0	0									●		0	0	0
		13	1	00-7F	REVERB PARAMETER 14	-	Depends on Reverb Type	0	0									●		0	0	0
		14	1	00-7F	REVERB PARAMETER 15	-	Depends on Reverb Type	0	0									●		0	0	0
		15	1	00-7F	REVERB PARAMETER 16	-	Depends on Reverb Type	0	0									●		0	0	0
TOTAL SIZE		06																				

● Transmitted via panel operations O: Available

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

02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	0	0									●		0	0	0
		31	1	00-7F	CHORUS PARAMETER 12	-	Depends on Chorus Type	0	0									●		0	0	0
		32	1	00-7F	CHORUS PARAMETER 13	-	Depends on Chorus Type	0	0									●		0	0	0
		33	1	00-7F	CHORUS PARAMETER 14	-	Depends on Chorus Type	0	0									●		0	0	0
		34	1	00-7F	CHORUS PARAMETER 15	-	Depends on Chorus Type	0	0									●		0	0	0
		35	1	00-7F	CHORUS PARAMETER 16	-	Depends on Chorus Type	0	0									●		0	0	0
TOTAL SIZE		06																				

													[MIDI]					[Song Creator]				
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)		
02	01	40	2	00-7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05 (=DELAY L, C, R)	0	0									●		0	0	0
				00-7F	VARIATION TYPE LSB	-	00															
		42	2	00-7F	VARIATION PARAMETER 1 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 1 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		44	2	00-7F	VARIATION PARAMETER 2 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 2 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		46	2	00-7F	VARIATION PARAMETER 3 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 3 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		48	2	00-7F	VARIATION PARAMETER 4 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 4 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 5 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 6 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 7 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		50	2	00-7F	VARIATION PARAMETER 8 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 8 LSB	-	Depends on Variation Type	0	0									●		0	0	0
		52	2	00-7F	VARIATION PARAMETER 9 MSB	-	Depends on Variation Type	0	0									●		0	0	0
				00-7F	VARIATION PARAMETER 9 LSB	-	Depends on Variation Type	0	0									●		0	0	0

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

													[MIDI]				[Song Creator]				
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission					PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)	
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List	Depends on Variation Type	0	0								●		0	0	0
		56	1	00-7F	VARIATION RETURN	-->dB...0dB...+6dB (0...64...127)	40	0	0								●		0	0	0
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	0	0								0		0	0	X
		58	1	00-7F	SEND VARIATION TO REVERB	-->dB...0dB...+6dB (0...64...127)	00	0	0								0		0	0	X
		59	1	00-7F	SEND VARIATION TO CHORUS	-->dB...0dB...+6dB (0...64...127)	00	0	0								0		0	0	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	0	0								●		0	0	0
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F	0	0								●		0	0	0
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	0	0								0		0	0	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	0	0								0		0	0	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	0	0								0		0	0	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	0	0								0		0	0	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	0	0								0		0	0	X
TOTAL SIZE		21																			

	02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type	0	0								●		0	0	0
			71	1	00-7F	VARIATION PARAMETER 12	-	Depends on Variation Type	0	0								●		0	0	0
			72	1	00-7F	VARIATION PARAMETER 13	-	Depends on Variation Type	0	0								●		0	0	0
			73	1	00-7F	VARIATION PARAMETER 14	-	Depends on Variation Type	0	0								●		0	0	0
			74	1	00-7F	VARIATION PARAMETER 15	-	Depends on Variation Type	0	0								●		0	0	0
			75	1	00-7F	VARIATION PARAMETER 16	-	Depends on Variation Type	0	0								●		0	0	0
TOTAL SIZE		06																				

●: Transmitted via panel operations. ○: Available

MIDI Parameter Change table (MULTI EQ)

													[MIDI]				[Song Creator]						
Address (H)	Size (H)	Data (H)	Parameter	Description		Voice		MIDI Reception				MIDI Transmission					PLAY		REC				
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)			
02	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic	*The MULTI EQ Parameter cannot be reset to its factory setting with XG SYSTEM ON.	0	0									0	X	X			
		01	1	34-4C	EQ GAIN1	-12...0...+12[dB]		0	0									●		0	X	X	
		02	1	04-28	EQ FREQUENCY1	32...2.0k[Hz]		0	0									●		0	X	X	
		03	1	01-78	EQ Q1	0.1...12.0		0	0										●		0	X	X
		04	1	00-01	EQ SHAPE1	shelving, peaking		0	0										●		0	X	X
		05	1	34-4C	EQ GAIN2	-12...0...+12[dB]		0	0										●		0	X	X
		06	1	0E-36	EQ FREQUENCY2	100...10.0k[Hz]		0	0										●		0	X	X
		07	1	01-78	EQ Q2	0.1...12.0		0	0										●		0	X	X
		08	1		NOT USED			-	-										-	-	-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12[dB]		0	0										●		0	X	X
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k[Hz]		0	0										●		0	X	X
		0B	1	01-78	EQ Q3	0.1...12.0		0	0										●		0	X	X
		0C	1		NOT USED			-	-										-	-	-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12[dB]		0	0										●		0	X	X
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k[Hz]	0	0										●		0	X	X	
		0F	1	01-78	EQ Q4	0.1...12.0	0	0										●		0	X	X	
		10	1		NOT USED		-	-										-	-	-	-	-	
		11	1	34-4C	EQ GAIN5	-12...0...+12[dB]	0	0										●		0	X	X	
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k[Hz]	0	0										●		0	X	X	
		13	1	01-78	EQ Q5	0.1...12.0	0	0										●		0	X	X	
		14	1	00-01	EQ SHAPE5	shelving, peaking	0	0										0		0	X	X	
TOTAL SIZE		15																					

●: Transmitted via panel operations. ○: Available

MIDI Parameter Change table (EFFECT2)

													[MIDI]				[Song Creator]						
Address (H)	Size (H)	Data (H)	Parameter	Description		Voice		MIDI Reception				MIDI Transmission					PLAY		REC				
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)			
03	n	00	2	00-7F 00-7F	INSERTION EFFECT TYPE MSB INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List	*The EFFECT 2 Parameter cannot be reset to its factory setting with XG SYSTEM ON.	0	0									●		0	0	0	
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	-		0	0										●		0	0	0
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	-		0	0										●		0	0	0
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	-		0	0										●		0	0	0
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	-		0	0										●		0	0	0
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	-		0	0										●		0	0	0
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	-		0	0										●		0	0	0
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	-		0	0										●		0	0	0
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	-		0	0										●		0	0	0
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	-		0	0										●		0	0	0
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	-		0	0										●		0	0	0



Address (H)	Size (H)	Data (H)	Parameter	Description	[MIDI]										[Song Creator]					
					Voice		MIDI Reception				MIDI Transmission				PLAY		REC			
					Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)	
	0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	0	0			0							●	0	0	0
	0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63	0	0			0							0	0	0	X
	0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63	0	0			0							0	0	0	X
	0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63	0	0			0							0	0	0	X
	10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63	0	0			0							0	0	0	X
	11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63	0	0			0							0	0	0	X
TOTAL SIZE		12																		

	20	1	00-7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List	0	0			0							●	0	0	0
	21	1	00-7F	INSERTION EFFECT PARAMETER 12	-	0	0			0							●	0	0	0
	22	1	00-7F	INSERTION EFFECT PARAMETER 13	-	0	0			0							●	0	0	0
	23	1	00-7F	INSERTION EFFECT PARAMETER 14	-	0	0			0							●	0	0	0
	24	1	00-7F	INSERTION EFFECT PARAMETER 15	-	0	0			0							●	0	0	0
	25	1	00-7F	INSERTION EFFECT PARAMETER 16	-	0	0			0							●	0	0	0
TOTAL SIZE		6																		

	30	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 1 MSB INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List	0	0			0							●	0	0	0
	32	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 2 MSB INSERTION EFFECT PARAMETER 2 LSB	-	0	0			0							●	0	0	0
	34	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 3 MSB INSERTION EFFECT PARAMETER 3 LSB	-	0	0			0							●	0	0	0
	36	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 4 MSB INSERTION EFFECT PARAMETER 4 LSB	-	0	0			0							●	0	0	0
	38	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 5 MSB INSERTION EFFECT PARAMETER 5 LSB	-	0	0			0							●	0	0	0
	3A	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 6 MSB INSERTION EFFECT PARAMETER 6 LSB	-	0	0			0							●	0	0	0
	3C	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 7 MSB INSERTION EFFECT PARAMETER 7 LSB	-	0	0			0							●	0	0	0
	3E	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 8 MSB INSERTION EFFECT PARAMETER 8 LSB	-	0	0			0							●	0	0	0
	40	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 9 MSB INSERTION EFFECT PARAMETER 9 LSB	-	0	0			0							●	0	0	0
	42	2	00-7F 00-7F	INSERTION EFFECT PARAMETER 10 MSB INSERTION EFFECT PARAMETER 10 LSB	-	0	0			0							●	0	0	0
TOTAL SIZE		14																		

●: Transmitted via panel operations O: Available

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

PSR-1500	n = 0-2
PSR-3000	n = 0-2

For effect types that do not require MSB, the Parameters for Address 02-0B will be received and the Parameters for Address 30-42 will not be received.  
For effect types that require MSB, the Parameters for Address 30-42 will be received and the Parameters for Address 02-0B will not be received.

When Bulk Dumps that include Effect Type data are transmitted, the Parameters for 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]							[Song Creator]				
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC	
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)	
	19	1	00-7F	FILTER RESONANCE	-64...+63	40	0	X	0	0	X	0	0	X	X	X	0	X	0	0	X
	1A	1	00-7F	EG ATTACK TIME	-64...+63	40	0	X	0	0	X	0	0	X	X	X	0	X	0	0	X
	1B	1	00-7F	EG DECAY TIME	-64...+63	40	0	X	0	0	X	0	0	X	X	X	0	X	0	0	X
	1C	1	00-7F	EG RELEASE TIME	-64...+63	40	0	X	0	0	X	0	0	X	X	X	0	X	0	0	X
	1D	1	28-58	MW PITCH CONTROL	-24...+24[semitones]	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...+9450[cent]	40	0	X	0	0	X	X	0	●	0	X	0	X	0	0	0
	1F	1	00-7F	MW AMPLITUDE CONTROL	-100...+100[%]	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	0	X	0	0	X	X	0	●	0	X	0	X	0	0	0
	21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	0	X	0	0	X	X	0	●	0	X	0	X	0	0	0
	22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	0	X	0	0	X	X	0	●	0	X	0	X	0	0	0
	23	1	28-58	BEND PITCH CONTROL	-24...+24[semitones]	42	0	X	0	0	X	0	0	X	X	X	0	X	0	X	X
	24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...+9450[cent]	40	0	X	0	0	X	0	0	X	X	X	0	X	0	X	X
	25	1	00-7F	BEND AMPLITUDE CONTROL	-100...+100[%]	40	0	X	0	0	X	0	0	X	X	X	0	X	0	X	X
	26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	0	X	0	0	X	0	0	X	X	X	0	X	0	X	X
	27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	0	X	0	0	X	0	0	X	X	X	0	X	0	X	X
	28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	0	X	0	0	X	0	0	X	X	X	0	X	0	X	X

TOTAL SIZE 29

										[MIDI]							[Song Creator]				
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC	
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)	
	30	1	00-01	Rcv PITCH BEND	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	36	1	00-01	Rcv RPN	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	37	1	00-01	Rcv NRPN	OFF, ON	XGmode=01, GMmode=00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	38	1	00-01	Rcv MODULATION	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	39	1	00-01	Rcv VOLUME	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	3A	1	00-01	Rcv PAN	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	3C	1	00-01	Rcv HOLD1	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	40	1	00-01	Rcv BANK SELECT	OFF, ON	01	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	41	1	00-7F	SCALE TUNING C	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	42	1	00-7F	SCALE TUNING C#	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	43	1	00-7F	SCALE TUNING D	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	44	1	00-7F	SCALE TUNING D#	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	45	1	00-7F	SCALE TUNING E	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	46	1	00-7F	SCALE TUNING F	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	47	1	00-7F	SCALE TUNING F#	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	48	1	00-7F	SCALE TUNING G	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	49	1	00-7F	SCALE TUNING G#	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	4A	1	00-7F	SCALE TUNING A	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	4B	1	00-7F	SCALE TUNING A#	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	4C	1	00-7F	SCALE TUNING B	-64...+63[cent]	40	0	X	0	0	X	0	0	●	X	●	0	X	0	0	0
	4D	1	28-58	CAT PITCH CONTROL	-24...+24[semitones]	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...+9450[cent]	40	0	X	0	0	X	X	0	X	0	X	0	X	0	0	0
	4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...+100[%]	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	0	X	0	0	X	X	0	X	0	X	0	X	0	0	0
	51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	0	X	0	0	X	X	0	X	0	X	0	X	0	0	0
	52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	0	X	0	0	X	X	0	X	0	X	0	X	0	0	0
	53	1	28-58	PAT PITCH CONTROL	-24...+24[semitones]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...+9450[cent]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	55	1	00-7F	PAT AMPLITUDE CONTROL	-100...+100[%]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	5A	1	28-58	AC1 PITCH CONTROL	-24...+24[semitones]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...+9450[cent]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...+100[%]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	61	1	28-58	AC2 PITCH CONTROL	-24...+24[semitones]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...+9450[cent]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...+100[%]	40	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X
	67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	0	X	0	0	X	X	0	X	X	X	0	X	0	0	X
	68	1	00-7F	PORTAMENTO TIME	0...127	00	0	X	0	0	X	X	0	X	X	X	0	X	0	0	X
	69	1	00-7F	PITCH EG INITIAL LEVEL	-64...+63	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	6A	1	00-7F	PITCH EG ATTACK TIME	-64...+63	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...+63	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X
	6C	1	00-7F	PITCH EG RELEASE TIME	-64...+63	40	0	X	0	0	X	X	0	X	X	X	0	X	0	X	X

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

											[MIDI]						[Song Creator]			
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception				MIDI Transmission				PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)
	6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	O	X	O	O	X	X	O	X	X	X	O	X	X	X
	6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	O	X	O	O	X	X	O	X	X	X	O	X	X	X

TOTAL SIZE 3F

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

TOTAL SIZE 04

	74	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	75	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	76	1	04-2B	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	O	X	O	O	X	X	O	●	O	X	O	X	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
	78	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	79	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TOTAL SIZE 0C

● Transmitted via panel operations O: Available

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

TOTAL SIZE 06

● Transmitted via panel operations O: Available

nn = PART NUMBER

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

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

MIDI Parameter Change table (A/D PART)

PSR-1500	X
PSR-3000	O

											[MIDI]						[Song Creator]			
Address (H)	Size (H)	Data (H)	Parameter	Description		Voice		MIDI Reception				MIDI Transmission				PLAY		REC		
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/Right2/Left	Keyboard	Style	Extra	Right1/Right2/Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/Right2/Left)
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: A/D Part Number (0)





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

**System Exclusive Messages (Universal Non-Real Time Messages)**

MIDI Event	Data Format	Voice		MIDI Reception				MIDI Transmission					PLAY		REC	
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel operations
<b>GM1 System On [GM1] [GM2]</b>	<b>F0 7E XN 09 01 F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxxxx XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000001 01 = Sub-ID #2 = General MIDI On 11110111 F7 = End of Exclusive	O	-			O					O			O	X	O
<b>GM2 System On [GM2]</b>	<b>F0 7E XN 09 03 F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxxxx XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000111 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive	O	-			O				O			O	X	X	
<b>General MIDI System Off [GM1] [GM2]</b>	<b>F0 7E XN 09 02 F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxxxx XN = When N is received N = 0-F, whichever is received. X = ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000010 02 = Sub-ID #2 = General MIDI Off 11110111 F7 = End of Exclusive	O	-			O				O			O	X	X	
<b>Scale/Octave Tuning [GM2]</b>	<b>F0 7E XN 08 08 JJ GG MM SS ... F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxxxx XN = When N is received N=0-F, whichever is received. X=ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 1byte form 0jjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte2 - bits0 to 6 = channel 8 to 14 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				O			O	X	X	

## System Exclusive Messages (2)

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

### System Exclusive Messages (Style)

MIDI Event	Data Format	[MIDI]											
		Voice		MIDI Reception				MIDI Transmission					
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
Section Control	<b>F0 43 7E 00 ss dd F7</b> 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  0ddddd dd = Switch On/Off 00H (Off) 7FH (On) 11110111 F7 = End of Exclusive	-	-			O							●
Tempo Control	<b>F0 43 7E 01 t4 t3 t2 t1 F7</b> 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111	-	-			O							●
Chord Control	<b>F0 43 7E tt d1 d2 d3 d4 F7</b> Type1 (tt=02) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddd d1 = chord root (cr) 0ddddd d2 = chord type (ct) 0ddddd d3 = bass note (bn) 0ddddd d4 = bass type (bt) 11110111 F7 = End of Exclusive  cr: Chord Root Offnnnn fff: b or #, nnnn: note (root) 000nnnn 0n bbb 0fff0000 x0 reserved 000nnnn 1n bb 0fff0001 x1 C 0010nnnn 2n b 0fff0010 x2 D 001mmnn 3n natural 0fff0011 x3 E 0100nnnn 4n # 0fff0100 x4 F 0101nnnn 5n ## 0fff0101 x5 G 0110nnnn 6n ### 0fff0110 x6 A 0fff0111 x7 B  ct: Chord Type 0 - 34, 127 0000000 00 0 Maj 00010010 12 18 dim7 00000001 01 1 Maj6 00010011 13 19 7th 00000010 02 2 Maj7 00010100 14 20 7sus4 00000011 03 3 Maj7(#11) 00010101 15 21 7b5 00000100 04 4 Maj7(9) 00010110 16 22 7(9) 00000101 05 5 Maj7(9) 00010111 17 23 7(#11) 00000110 06 6 Maj6(9) 00011000 18 24 7(13) 00000111 07 7 aug 00011001 19 25 7(b9) 00010000 08 8 min 00011010 1A 26 7 b13) 00010001 09 9 min6 00011011 1B 27 7(#9) 00010100 0A 10 min7 00011100 1C 28 Maj7aug 00010101 0B 11 min7b5 00011101 1D 29 7aug 00011000 0C 12 min(9) 00011110 1E 30 1+8 00011001 0D 13 min7(9) 00011111 1F 31 1+5 00011100 0E 14 min7(11) 00100000 20 32 sus4 00011111 0F 15 minMaj7 00100001 21 33 1+2+5 00010000 10 16 minMaj7(9) 00100010 22 34 cc 00010001 11 17 dim  bn: On Bass Note Same as Chord root 127: No bass chord  bt: Bass Chord Same as Chord type 127: No bass chord  * Not received when Chord System Exclusive Message Parameters is set to off. * Not received when Transmit Chord System Exclusive Message Parameters is set to off.	-	-			O						●	
	Type2 (tt=03) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddd dd = note1 0ddddd dd = note2 0ddddd dd = note3 : : 0ddddd dd = note10 11110111 F7 = End of Exclusive	-	-			O							X

● Transmitted via panel operations



**System Exclusive Messages (XG)**

MIDI Event	Data Format	[MIDI]											
		Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	M.Pad	Style	Song	Upper Lower
XG Parameter Changes	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data : : 11110111 F7 = End of Exclusive	-	-	-	-	0	-	-	-	0	-	-	-
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 000nnnnn 0n = Device Number n=always 0 (when transmit), n=0-F (when receive) 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 0ddddd dd = Data : : 0ddddd dd = Data 0ccccc cc = Checksum 11110111 F7 = End of Exclusive	-	-	-	-	0	-	-	-	0	-	-	
XG Parameter Request	F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 001nnnnn 3n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	-	0	-	-	-	0	-	-	
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n = always 0 (when transmit), n = 0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	-	0	-	-	-	0	-	-	

**System Exclusive Messages (Clavinova compliance)**

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

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

●: Transmitted via panel operations

**System Exclusive Messages (Special Operators)**

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

**System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)**

Vocal Harmony

PSR-1500	X
PSR-3000	O

MIDI Event	Data Format	[MIDI]											
		Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	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. 00000000 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. 00000000 dd = data 00H: Right1 01H: Right2 02H: Left 03H: (not used) 04H: Upper 11110111 F7=End of Exclusive	X	O					O					●
Vocal Harmony Vocoder Part (Harmony Part (Panel))	F0 43 73 01 11 0n 50 10 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = 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. 00000000 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 Event	Data Format	[MIDI]											
		Voice		MIDI Reception					MIDI Transmission				
		Regular/Drum/ Natural/Organ Voice	Mic/Vocal Harmony	Song	Right1/ Right2/ Left	Keyboard	Style	Extra	Right1/ Right2/ Left	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 demorceaux / Lista de mensajes exclusivos del sistema de canciones

Data Format	Parameter	Description	Note
<b>Guide</b>			
F0 43 73 01 1F 00 cc dd F7	Guide Mode	ccH = Part Select No 00H (TRACK1=ON, TRACK2=ON) 01H (TRACK1=OFF, TRACK2=ON) 02H (TRACK1=ON, TRACK2=OFF) 03H (TRACK1=OFF, TRACK2=OFF) ddH = Mode 00H=Guide OFF 01H=Follow Lights 02H=Any Key 03H=Karao-Key 04H=Vocal CueTIME (Vocal Cue Time is not available on the PSR-1500.)	Entered to the song from the [SONG CREATOR] -> CHANNEL -> SETUP display.
<b>Score</b>			
F0 43 73 01 50 12 00 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON	Entered to the song from the [SONG CREATOR] -> CHANNEL -> SETUP display.
F0 43 73 01 50 12 00 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 05 dd F7	Size designation	00H: SMALL, 02H: LARGE	
F0 43 73 01 50 12 00 06 dd F7	Left Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 07 dd F7	Right Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO	
F0 43 73 01 50 12 00 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON	
F0 43 73 01 50 12 00 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second	
F0 43 73 01 50 12 00 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo	
F0 43 73 01 50 12 00 0B dd F7	Color Note	00H: OFF, 7FH: ON	
<b>Style</b>			
F0 43 73 01 51 00 00 03 10 00 dd F7	STYLE SPLIT POINT	dd=STYLE SPLIT POINT (Note Number)	Entered to the song from the [SONG CREATOR] -> CHANNEL -> SETUP display.
F0 43 73 01 51 05 00 03 04 00 00 dd dd F7	STYLE 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 métaévénements des morceaux / Lista de meta-eventos de canciones

Data Format	Parameter	Description	Note
FF 05 len [Data]	Lyrics	len = Data length, [Data] = Lyrics Data	
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 =Tempo value B7 1B 00~01 D4 C0 (Tempo 5~500)	Entered when recording.
FF 58 04 nn dd cc bb	Beat	nn = Numerator dd = Denominator (2n) cc = MIDI clock per metronome click bb = Number of thirty-second notes in MIDI quarter note	Entered when recording.
FF 59 02 sf mi	Key Signature	sf = -7~7 mi = 0: Major key, 1: Minor key	Entered from the [Score] -> SETUP display.
<b>YAMAHA META EVENT</b>			
FF 7F 06 43 73 0A 00 07 dd	Score Start Bar	ddH: Start form this measure dd= -100~1, 1~100	Same as ScBar entered from the [SONG CREATOR] -> SYS/EX. Display
FF 7F len 43 73 0D 01 [Data]	Keyboard Voice	Voice settings for the RIGHT1~3 and LEFT	Entered to the song from the [SONG CREATOR] -> CHANNEL -> SETUP display.
<b>YAMAHA XF META EVENT</b>			
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 0hfcxxx 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 (cccc) 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 TRACK1 and TRACK2 parameters on the [FUNCTION] -> [SONG SETTING] display. rr = TRACK1 (0: OFF, 1:1CH~16:16CH) ll = TRACK2 (0: OFF, 1:1CH~16:16CH)	Entered when recording.

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

YAMAHA [ Portable Keyboard ]  
Model PSR-1500/3000 MIDI Implementation Chart

Date : 21-Jan-2004  
Version : 1.00

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

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

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

O : Yes  
X : No

# MEMO



**Yamaha PK CLUB (Portable Keyboard Home Page, English only)**

<http://www.yamahaPKclub.com/>

**Yamaha Manual Library**

<http://www2.yamaha.co.jp/manual/english/>