



Clavinova[®]

CSP-170

CSP-150

Data List

Daten-Liste

Liste des données

Lista de datos

This data list includes the information about all parameters which can be changed on this instrument (including changes from received MIDI messages). Note that some of these parameters cannot be changed on the instrument or application.

Diese Datenliste enthält die Informationen über alle Parameter, die sich bei diesem Instrument ändern lassen (einschließlich Änderungen durch empfangene MIDI-Meldungen).

Beachten Sie, dass einige dieser Parameter sich nicht von diesem Instrument oder einer App aus ändern lassen.

Cette liste de données comprend les informations relatives à tous les paramètres modifiables sur cet instrument (y compris les modifications des messages MIDI reçus).

Sachez toutefois que certains de ces paramètres ne peuvent pas être modifiés sur l'instrument ou sur l'application.

Esta lista de datos incluye la información relativa a todos los parámetros que se pueden modificar con este instrumento (incluidos los cambios de los mensajes MIDI recibidos).

Tenga en cuenta que algunos de estos parámetros no se pueden modificar en el instrumento o en la aplicación.



EN DE FR ES

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Piano Types in the Piano Room / Klaviermodelle im Piano Room / Types de piano dans Piano Room / Tipos de pianos de Piano Room

Voice Name
CFX Grand
Bösendorfer
Studio Grand
Upright Piano
Honky Tonk Upright

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

Main Category: Piano

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Grand Piano	CFX Grand	108	0	1	VRM
	Bösendorfer	108	6	1	VRM
	Pop Grand	108	17	2	VRM
	Mellow Piano	108	18	1	VRM
	Studio Grand	108	1	3	VRM
	Themic Grand	108	6	2	VRM
	Bright Piano	108	16	2	VRM
	Ambient Piano	108	27	4	VRM
	Rock Piano	108	16	3	VRM
	Stage Piano	108	31	1	VRM
	Grand Piano 1octave	108	22	2	VRM
	Grand Piano 2octaves	108	23	2	VRM
	Cocktail Piano	108	28	4	VRM
	Upright Piano	Upright Piano	108	5	3
Pop Upright		104	13	2	Natural!
70s Ballad Piano		104	14	1	Natural!
Chill Out Piano		104	15	1	Natural!
Honky Tonk Upright		104	13	4	Natural!
Saloon Upright		104	14	2	Natural!
Upright 1octave		104	14	4	Natural!
Upright 2octaves		104	15	4	Natural!
Piano Layer	Superstar Grand	108	25	5	Natural!
	Imperial Ballad	108	26	5	Natural!
	MIDI Grand	104	2	3	Natural!
	MIDI Grand Pad	104	3	3	Natural!
	Bright Grand Pad	104	8	1	Natural!
	Grand Pad Layer	108	32	3	Natural!
	Piano & EP	108	25	3	Natural!
	Grand Piano & Strings	108	23	1	Natural!
Grand Piano & Orchestra	104	12	1	Natural!	
Electric Piano	Suitcase EP	0	118	5	Cool!
	Vintage EP	0	116	5	Regular
	Electric Piano 1	0	119	5	Cool!
	Electric Piano 2	0	122	5	Natural!
	Stage EP	0	117	5	Regular
	Funky EP	0	123	5	Natural!
	Tremolo Suitcase EP	0	113	5	Cool!
	Tremolo Stage EP	0	124	5	Natural!
	Smooth Tine	0	119	6	Regular
	CP80 Stage	0	113	3	Regular
Magnetics	104	0	5	Regular	
FM E.Piano	Studio Ballad DX	104	9	6	Regular
	Sparkle Stack	0	121	6	Cool!
	Sweet DX	104	0	6	Cool!
	Ballad DX	0	124	6	Cool!
	DX Dynamics	0	123	6	Cool!
	Ballad Bells	104	2	6	Cool!
	Galaxy EP	0	114	5	Cool!
	DX7 EP	0	122	6	Natural!
	Dream DX	104	3	6	Cool!
	Midnight DX	104	1	6	Cool!
	Piano Sweeper	104	3	100	Regular
	Pianosphere	104	19	89	Regular
	Clavi	Clavi Bright	0	112	8
Wah Clavi		0	113	8	Regular
Phase Clavi		0	115	8	Regular
Harpsichord	Harpsichord 1	0	122	7	Natural!
	Harpsichord 2	8	32	113	S.Art!
	Harpsichord Coupler	0	123	7	Natural!
	Grand Harpsichord	0	113	7	Live!
	Harpsichord & Strings	0	124	7	Natural!

Main Category: Organ

Sub Category 1	Voice Name	Voice Number			Voice Type	
		MSB	LSB	Prg		
Tonewheel Organ	Whiter Bars	8	32	30	S.Art!	
	Curved Bars	0	121	17	Cool!	
	All Bars Out	8	32	31	S.Art!	
	Even Bars	0	111	17	Cool!	
	Jazz Rotary	8	32	114	S.Art!	
	Vintage Fast	0	127	17	Cool!	
	Classic Bars	8	34	30	S.Art!	
	Scanner Jazz	0	118	19	Cool!	
	Rock Rotary	8	33	114	S.Art!	
	Organ-a-Go-Go	104	0	17	Cool!	
	Prog Rock Organ	8	33	30	S.Art!	
	R&B Tremolo	0	111	19	Cool!	
	Classic Jazz	0	117	17	Cool!	
	Hold It Fast	0	111	18	Cool!	
	Full Rocker	0	115	19	Cool!	
	Organ Accomp 1	0	108	18	Regular	
	Organ Accomp 2	0	107	18	Regular	
	Organ Accomp 3	0	106	18	Regular	
	Organ Accomp 4	0	105	18	Regular	
	Organ Accomp 5	0	104	18	Regular	
	Whiter Bars Slow	104	1	18	Cool!	
	Whiter Bars Fast	104	0	18	Cool!	
	Jazz Organ Slow	0	126	18	Cool!	
	Jazz Organ Fast	0	127	18	Cool!	
	All Bars Out Slow	104	1	19	Cool!	
	All Bars Out Fast	104	0	19	Cool!	
	All Bars Phase	104	2	19	Cool!	
	Rotor Organ	0	117	19	Cool!	
	Mellow Drawbar	0	115	18	Regular	
	Two Channels Organ	0	109	18	Cool!	
	Transistor Organ	60s Combo 1	104	32	17	Cool!
		60s Combo 2	104	33	17	Cool!
60s Combo 3		104	34	17	Cool!	
60s Combo 4		104	35	17	Cool!	
Euro Organ		0	118	17	Regular	
Classical Pipe	Pipe Organ Principal	0	123	20	Natural!	
	Chapel Organ	0	113	20	Regular	
	Full Organ	0	112	20	Regular	
	Hymn Organ	0	114	20	Regular	
	Pipe Organ Tutti	0	122	20	Natural!	
	Church Organ	0	115	20	Regular	
Theatre Pipe	Full Theatre	0	127	19	Regular	
	Sweet Theatre	0	126	19	Regular	
	Ballroom Organ	0	115	4	Regular	
	Tibia 8'	104	6	18	Regular	
	Tibia 8'&4'	104	9	17	Regular	
	Tibia 16'&4'	104	8	17	Regular	
	Tibia Chorus	104	5	18	Regular	
	Vox Humana 8'	104	7	18	Regular	
	Vox Humana & Tibia	104	10	17	Regular	
	Theatre Kinura 8'	0	123	17	Regular	
	Theatre Trumpet 8'	0	124	17	Regular	
	Theatre Trumpet & Kinura	0	125	18	Regular	
	Theatre Trumpet 16'&8'	0	124	18	Regular	
Organ Flutes	Organ Flutes	10	0	9	OrganFlutes	
	USD Smile	10	1	9	OrganFlutes	
	Reggae Bars	10	2	9	OrganFlutes	
	Warm Theatre	10	3	9	OrganFlutes	
	Organ Pops	10	4	9	OrganFlutes	
	Rock Organ	10	5	9	OrganFlutes	
	Soul Percussion	10	6	9	OrganFlutes	
	Gospel Truth	10	7	9	OrganFlutes	
	Pad Organ	10	8	9	OrganFlutes	
	Full Organ	10	9	9	OrganFlutes	
	String Bars	10	0	10	OrganFlutes	
	Latin Spin	10	1	10	OrganFlutes	
	Shady Bars	10	2	10	OrganFlutes	

Main Category: Organ

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Organ Flutes	Funk Organ	10	3	10	OrganFlutes
	Ballad Organ	10	4	10	OrganFlutes
	Rich Bars	10	5	10	OrganFlutes
	Trumpet Bars	10	6	10	OrganFlutes
	Soul Bars	10	7	10	OrganFlutes
	Clari Bars	10	8	10	OrganFlutes
	Jazz Squabble	10	9	10	OrganFlutes
	Euro Perc	10	0	11	OrganFlutes
	Ballad Euro	10	1	11	OrganFlutes
	Euro Reeds	10	2	11	OrganFlutes
	Even Warmth	10	3	11	OrganFlutes
	Bright Euro	10	4	11	OrganFlutes
	Full Euro	10	6	11	OrganFlutes
	Euro Pops	10	5	11	OrganFlutes
	Euro Accomp 1	10	7	11	OrganFlutes
	Euro Accomp 2	10	8	11	OrganFlutes
Euro Accomp 3	10	9	11	OrganFlutes	
Harmonica	Harmonica	0	112	23	Sweet!
	Modern Harp	0	113	23	Regular
	Blues Harp	0	114	23	Regular
Accordion	Full Accordion Register	104	2	22	Regular
	French Musette Acc.	0	119	22	Regular
	Master Accordion	0	118	22	Regular
	Steirische	0	117	22	Regular
	Jazz Accordion	0	120	22	Regular
	Cassotto	104	0	22	Regular
	Cajun	104	3	22	Regular
	Accordion Clarinet	104	1	22	Regular
	Bandoneon	0	113	24	Regular
	Tango Accordion	0	114	24	Regular
	Full Register Bass	104	5	22	Regular
	Musette Bass	0	123	22	Regular
	Master Bass	0	122	22	Regular
	Cajun Bass	104	6	22	Regular
	Accordion Bass	0	121	22	Regular
	Tango Bass	0	115	24	Regular

Main Category: Guitar & Bass

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Nylon Acoustic	Concert Guitar	8	32	1	S.Art!
	Dynamic Nylon	0	116	25	Live!
	Flamenco Guitar	8	33	1	S.Art!
	Hard Flamenco	0	118	25	Live!
	Nylon Guitar	8	34	1	S.Art!
	Classical Guitar	0	115	25	Live!
	Slide Nylon	0	117	25	Live!
	Nylon Mute	0	119	25	Live!
	Electro Acoustic Guitar	8	35	1	S.Art!
Steel Acoustic	Steel Guitar	8	32	2	S.Art!
	Slide Steel	0	118	26	Live!
	Folk Guitar Harmonics	8	33	2	S.Art!
	Dynamic Steel	0	116	26	Live!
	Steel Guitar Strum	0	117	26	Live!
	Steel Guitar Mute	0	120	26	Live!
	12String Guitar	0	113	26	Live!
	Clean Solid	Bright Chorus	8	45	4
Vintage Slap		8	48	4	S.Art!
Ballad Delay		8	46	4	S.Art!
Vintage Pure		8	47	4	S.Art!
Finger Bright		8	50	4	S.Art!
Cool Wah Guitar		104	4	28	Regular
Semi Acoustic		8	33	7	S.Art!
Jazz Vintage		8	38	7	S.Art!
Jazz Artist		8	39	7	S.Art!
Smooth Jazz Guitar		8	35	7	S.Art!
Shadowed Guitar		8	56	4	S.Art!

Main Category: Guitar & Bass

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Clean Solid	Finger Chorus	8	42	4	S.Art!
	Vintage Spring	8	54	4	S.Art!
	Light Chorus	8	53	4	S.Art!
	Country Pick	8	44	4	S.Art!
	Finger Slap Slide	8	51	4	S.Art!
	Warm Solid	8	33	4	S.Art!
	Warm Electric	8	32	4	S.Art!
	Clean Solid	8	34	4	S.Art!
	Clean Electric	8	35	4	S.Art!
	Slap Solid	0	108	28	Cool!
	Lounge Guitar	104	1	27	Regular
	Funk Slap	8	49	4	S.Art!
	Single Coil Clean	8	39	4	S.Art!
	70s Solid Guitar	8	38	4	S.Art!
	Pure Vintage	8	42	6	S.Art!
	Vintage Open	0	123	28	Regular
	Chorus Solid	0	107	28	Cool!
	Clean Guitar	0	112	28	Cool!
	Jazz Clean	8	32	7	S.Art!
	Slide Clean	0	117	29	Cool!
	Muted Guitar	0	119	29	Cool!
	Slide Solid	0	110	28	Cool!
	Dynamic Mute	0	118	29	Cool!
	Slide Pick	104	7	28	Cool!
	Vintage Muted Guitar	104	0	29	Cool!
	Slide Finger	104	5	28	Cool!
	Vintage Muted Echo	0	115	29	Regular
	Slide Warm	104	6	28	Cool!
	Slide Jazz	104	0	27	Cool!
	Funk Guitar	0	116	29	Cool!
	Vintage Strum	0	126	28	Regular
	Tremolo Solid	0	111	28	Cool!
	Ballad Solid	0	109	28	Cool!
Jazz Guitar	0	115	27	Cool!	
Jazz Solo Guitar	0	116	27	Cool!	
Octave Guitar	0	113	27	Regular	
Electric Guitar	0	114	29	Cool!	
60s Clean	0	117	28	Regular	
Distortion Solid	Rock Hero	8	35	6	S.Art!
	Overdrive Wah	8	39	6	S.Art!
	Vintage Rock	8	36	6	S.Art!
	Vintage Blues	8	37	6	S.Art!
	Stage Lead	8	38	6	S.Art!
	Blues Slap Slide	8	36	5	S.Art!
	Heavy Rock	8	32	5	S.Art!
	Blues Bright	8	35	5	S.Art!
	Classic Stack	8	41	6	S.Art!
	Blues Warm	8	34	5	S.Art!
	Guitar Hero	8	32	6	S.Art!
	Vintage Amp	8	41	4	S.Art!
	Feedbacker	8	33	5	S.Art!
	Finger Amp	8	43	4	S.Art!
	Rock Legend	8	34	6	S.Art!
	Slide Pick Amp	104	8	28	Cool!
	Crunch Guitar	8	33	6	S.Art!
	Bluesy Night	8	55	4	S.Art!
	Stereo Rock	104	2	31	Cool!
	Half Drive	8	37	4	S.Art!
	Blues Guitar	0	117	30	Cool!
	Grunge Guitar	8	40	6	S.Art!
	Metal Master	0	120	31	Regular
	World	Pedal Steel Amp	8	52	4
Mandolin		0	114	26	Sweet!
Pedal Steel		8	36	4	S.Art!
Banjo		104	0	106	Regular
Zither 1		104	1	16	Regular
Zither 2		104	0	16	Regular

Main Category: Guitar & Bass

Sub Category 1	Voice Name	Voice Number			Voice Type	
		MSB	LSB	Prg		
World	Shamisen	0	112	107	Regular	
	Dulcimer	0	112	16	Regular	
	Koto	0	112	108	Regular	
	Hackbrett	104	2	47	Regular	
	Aloha Guitar	0	118	27	Regular	
	Sitar	104	0	105	Regular	
	Pedal Steel	0	115	28	Regular	
Bass	Vintage Round Bass	8	32	18	S.Art!	
	Acoustic Bass	8	32	17	S.Art!	
	Vintage Flatwound Bass	8	33	18	S.Art!	
	Soft Acoustic Bass	8	33	17	S.Art!	
	Vintage Mute Bass	8	32	19	S.Art!	
	Fretless Bass	8	32	20	S.Art!	
	Soft Acoustic Bass	104	2	33	Regular	
	Acoustic Bass	104	1	33	Regular	
	Ballroom Bass	104	0	33	Regular	
	Vintage Round Bass	104	1	34	Cool!	
	Vintage Flatwound Bass	104	2	34	Cool!	
	Acoustic Bass & Cymbal	0	114	33	Regular	
	Vintage Mute Bass	104	3	34	Cool!	
	Fusion Bass	0	113	37	Regular	
	Vintage Pick Bass	104	1	35	Regular	
	Vintage Dyno Bass	104	2	35	Cool!	
	Fretless Bass	0	112	36	Cool!	
	Slap Bass	0	112	37	Regular	
	Rock Bass	0	114	35	Regular	
	Mellow Finger Bass	0	112	34	Regular	
	Pick Bass	0	112	35	Regular	
	Pick Dyno Bass	0	113	35	Cool!	
	Electric Bass	0	114	34	Cool!	
	Half Mute Bass	0	115	34	Cool!	
	Super Fretless Bass	0	113	36	Regular	
	Vintage Pick Mute Bass	104	0	35	Cool!	
	Funk Bass	0	112	38	Regular	
	Synth Bass	Lo Bass	104	0	40	Regular
		Fat Pulse	104	2	40	Regular
		Dark Bass	104	1	40	Regular
		Wazzo Saw	104	3	81	Regular
		Moon Bass	104	0	39	Regular
Deep Point		104	3	39	Regular	
Kick Bass		104	1	39	Regular	
Tight Bass		104	3	40	Regular	
Club Bass		104	2	39	Regular	
Competitor		104	4	39	Regular	
1o1 Sub		104	5	39	Regular	
Trance Bass		104	9	39	Regular	
Little Bass Synth		104	6	39	Regular	
Sub Cut Bass		104	5	40	Regular	
Tekno Bass		104	7	39	Regular	
Dyno Acid Bass		104	10	39	Regular	
Perc Punch		104	8	39	Regular	
Mini Sub		104	6	40	Regular	
Square Bass		104	4	40	Regular	
Fat Sine Resonance		104	11	39	Regular	
Ballad Bass		104	7	40	Regular	
House Bass		0	116	39	Regular	
Velo Master		104	17	82	Regular	
Big Drone		0	118	39	Regular	
Sub Bass		0	114	40	Regular	
Hard Bass		0	114	39	Regular	
Resonance Bass		0	112	39	Regular	
TB Bass		0	117	40	Regular	

Main Category: Strings & Vocal

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
String Solo	Violin	0	113	41	Sweet!
	Solo Violin	0	112	41	Regular
	Viola	0	112	42	Regular
	Fiddle	0	112	111	Regular
	Cello	0	112	43	Regular
	Contrabass	0	112	44	Regular
String Ensemble	Real Strings	8	33	50	S.Art!
	Classical Strings	8	36	49	S.Art!
	Concert Strings	8	32	50	S.Art!
	Theatre Strings	8	37	49	S.Art!
	Pizzicato	0	113	46	Live!
	Lush Strings	8	41	49	S.Art!
	Real Tremolo Strings	104	0	45	Live!
	Ballroom Strings	8	35	50	S.Art!
	Real Spiccato	104	6	49	Live!
	Studio Strings	8	32	49	S.Art!
	Movie Strings	0	123	49	Live!
	Ballad Strings	8	34	50	S.Art!
	Disco Strings 1	0	123	50	Live!
	Disco Strings 2	0	124	50	Live!
	Warm Strings	8	39	49	S.Art!
	Tremolo Strings	0	113	45	Live!
	Big Strings	8	40	49	S.Art!
	Strings	0	117	50	Live!
	Real Strings f	8	40	50	S.Art!
	Allegro	0	122	50	Live!
	Real Strings mf	8	41	50	S.Art!
	Dynamic Strings	0	124	49	Live!
	Real Strings p	8	42	50	S.Art!
	Chamber Strings	0	112	50	Regular
	Real Tremolo Sforzando	104	1	45	Live!
	Tremolo Bowing	8	34	49	S.Art!
	Spiccato	8	33	49	S.Art!
	Spiccato	0	120	49	Live!
	Real Strings f	104	4	50	Live!
	Strings f	0	119	49	Live!
Real Strings mf	104	5	50	Live!	
Strings mf	0	118	49	Live!	
Real Strings p	104	6	50	Live!	
Strings p	0	117	49	Live!	
Orchestral Layers	Tutti	0	120	50	Regular
	Theatre Orchestra	104	1	50	Regular
	Symphonic Unison	104	0	50	Regular
	Pizzicato Glocken	0	115	46	Live!
Choir	Boys Choir Aah	8	33	52	S.Art!
	Boys Choir Ooh	8	32	52	S.Art!
	Boys Choir Aah	104	8	53	Live!
	Boys Choir Ooh	104	8	54	Live!
	Soft Choir Ooh	8	35	52	S.Art!
	Soft Choir Aah	8	36	52	S.Art!
	Boys Choir Oh-Ah (Pedal)	8	34	52	S.Art!
	Boys Choir Oh-Ah	8	49	56	S.Art!
	Gothic Vox	0	113	54	Regular
	Gospel Voices	0	116	53	Live!
	Humming	0	118	53	Live!
	Hah Choir	0	114	53	Regular
	Mmh	0	117	53	Live!

Main Category: Brass & Woodwind

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Brass Solo	Bright Trumpet	8	32	65	S.Art!
	Cornet	0	119	57	Sweet!
	Silver Trumpet	8	33	65	S.Art!
	Muted Trumpet	0	114	60	Sweet!
	Golden Trumpet	8	34	65	S.Art!
	Flugel Horn	0	118	57	Sweet!
	Big Band Trumpet	8	37	65	S.Art!
	Trombone	0	117	58	Sweet!
	Trumpet Fall	8	38	65	S.Art!
	Trumpet	0	115	57	Sweet!
	Trumpet Shake	8	35	65	S.Art!
	Mellow Trumpet	0	120	57	Sweet!
	Silver Trumpet	0	121	57	Sweet!
	Muted Cornet	104	0	60	Sweet!
	Golden Trumpet	0	122	57	Sweet!
	Baritone Horn	0	113	59	Regular
	Tuba	104	0	59	Regular
	Bright Trombone	104	0	58	Sweet!
	Baritone Hit	0	114	59	Regular
	Alp Bass	0	113	34	Regular
Brass Ensemble	Horns	104	0	61	Live!
	Big Band Brass	8	37	57	S.Art!
	Soft Horns	8	32	61	S.Art!
	Smooth Brass	8	36	57	S.Art!
	Dynamic Brass	0	127	62	Live!
	Symphony Horns 1	104	1	61	Live!
	Symphony Horns 2	104	2	61	Live!
	Power Brass	0	121	63	Live!
	Warm Horns	8	33	61	S.Art!
	Accent Brass	0	109	62	Live!
	Stopped Horns	104	3	61	Live!
	Brass Falls f	8	34	57	S.Art!
	Muted Horns	8	34	61	S.Art!
	Brass Falls mf	8	35	57	S.Art!
	Brass f	0	108	62	Live!
	Brass Band	0	123	57	Live!
	Brass mf	0	110	62	Live!
	Soft Horns	0	117	61	Live!
	Brass p	0	111	62	Live!
	Soft Trombones	0	118	61	Live!
	Brass Shake	8	32	57	S.Art!
	Pop Brass	0	117	63	Live!
	Accent Falls	8	38	57	S.Art!
	Hyper Brass	0	118	63	Live!
	Sforzando	0	105	62	Live!
	Small Brass	0	120	61	Live!
	Sforzando Fall	0	107	62	Live!
	Ballroom Brass	0	113	60	Regular
	Brass Dynamics	0	106	62	Live!
	Octave Brass	0	116	63	Live!
Sax Solo	Saxophone	8	32	83	S.Art!
	Alto Sax	8	32	67	S.Art!
	Big Band Sax	8	35	83	S.Art!
	Soft Alto Sax	8	34	67	S.Art!
	Rock Sax	8	33	83	S.Art!
	Growl Sax	0	111	67	Sweet!
	Soprano Sax	0	113	65	Sweet!
	Pop Tenor Sax	0	127	67	Sweet!
	Pop Alto Sax	104	0	66	Sweet!
	Ballad Tenor Sax	0	126	67	Sweet!
	Breathy Tenor Sax	0	117	67	Sweet!
	Jazz Tenor Sax	0	125	67	Sweet!
	Baritone Sax	104	0	68	Regular
	Sax Ensemble	Sax Section	8	36	83
Big Band Octave		0	108	67	Live!
Sax Section Unison		8	38	83	S.Art!
Big Band Unison		0	109	67	Live!

Main Category: Brass & Woodwind

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Sax Ensemble	Sax Section Fast Attack	0	116	67	Live!
	Big Band Saxes	0	110	67	Live!
	Sax Section Octave	8	37	83	S.Art!
	Ballad Section	0	119	67	Regular
	Soft Saxes	8	39	83	S.Art!
	Sax Appeal	0	123	67	Live!
	Sax Section Hard	0	122	67	Live!
	Moonlight	0	115	72	Regular
	Sax Section Soft	0	121	67	Live!
	Woodwind Solo	Orchestral Flute	8	32	74
Jazz Flute		0	114	74	Sweet!
Orchestral Oboe		8	32	69	S.Art!
Classical Oboe		0	113	69	Sweet!
Orchestral Clarinet		104	0	72	Live!
Jazz Clarinet		0	114	72	Sweet!
Orchestral Bassoon		104	0	71	Sweet!
Bassoon		0	112	71	Regular
German Clarinet		104	2	72	Regular
Classical Flute		0	115	74	Sweet!
Woodwind Ens	Piccolo	0	112	73	Regular
	Oboe	0	112	69	Regular
	Clarinet	0	112	72	Regular
	English Horn	0	112	70	Regular
	Flutes & Oboes	104	2	74	Regular
	Orchestral Woodwind	104	1	71	Regular
	Clarinet & Flutes	104	1	72	Regular
	Alto Flutes	104	1	74	Regular
	Clarinet & Oboe	104	1	69	Regular
	Flute Ensemble	0	116	74	Regular
Woodwind World	Oboe & Bassoon	104	2	69	Regular
	Ballad Pan Flute	0	113	76	Sweet!
	Chiff Pan Flute	0	113	74	Regular
	Celtic Duo	0	120	74	Regular
	Ethnic Flute	0	112	76	Regular
	Bagpipe	0	112	110	Regular
	Ocarina	0	112	80	Regular
	Recorder	0	112	75	Regular
	Shakuhachi	0	112	78	Regular
	Whistle	0	112	79	Regular

Main Category: Perc & Drums

Sub Category 1	Voice Name	Voice Number			Voice Type	
		MSB	LSB	Prg		
Chromatic Perc	Vibraphone	104	1	12	Sweet!	
	Xylophone	104	0	14	Regular	
	Jazz Vibraphone	0	113	12	Regular	
	Marimba	104	0	13	Regular	
	Tremolo Vibraphone	0	124	12	Natural!	
	Vibraphone	0	122	12	Natural!	
	Vibraphone & JazzGt	8	33	12	S.Art!	
	Glockenspiel	104	0	10	Regular	
	Vibraphone & Flutes	0	114	12	Regular	
	Steel Drums	0	112	115	Regular	
	Music Box	0	112	11	Regular	
	Kalimba	0	112	109	Regular	
	Orchestral Perc	Orchestral Harp	104	1	47	Regular
		Tubular Bells	0	112	15	Regular
Mellow Harp		104	0	47	Regular	
Timpani		0	112	48	Regular	
Orchestra Hit		0	112	56	Regular	
Celesta		0	112	9	Regular	
Drum Kits	Real Drums	127	0	92	Live!Drums	
	Real Brushes	127	0	42	Live!Drums	
	Power Kit 1	127	0	88	Live!Drums	
	Power Kit 2	127	0	89	Live!Drums	
	Acoustic Kit	127	0	90	Live!Drums	
House Kit	127	0	61	Drums		

Main Category: Perc & Drums

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Drum Kits	Rock Kit	127	0	91	Live!Drums
	Drum Machine	127	0	62	Drums
	Studio Kit	127	0	87	Live!Drums
	Analog T8 Kit	127	0	59	Drums
	Analog T9 Kit	127	0	60	Drums
	Jazz Kit	127	0	33	Drums
	Break Kit	127	0	58	Drums
	Hit Kit	127	0	5	Drums
	Hip Hop Kit	127	0	57	Drums
	Room Kit	127	0	9	Drums
	Dance Kit	127	0	28	Drums
	Electro Kit	127	0	25	Drums
	Analog Kit	127	0	26	Drums
	Symphony Kit	127	0	49	Live!Drums
	Brush Kit	127	0	41	Live!Drums
World Perc Kits	Turkish Kit	126	0	68	Live!SFX
	Cuban Kit	126	0	41	Live!SFX
	Pop Latin Kit	126	0	44	Live!SFX
SFX	New SFX Kit 1	126	0	3	Live!SFX
	New SFX Kit 2	126	0	4	Live!SFX
	Helicopter	104	0	126	Live!
	Noises Kit	126	0	9	SFX
	Applause 1	104	0	127	Live!
	Applause 2	104	1	127	Live!
	Sea Shore	104	0	123	Live!
	Gun Shot	104	0	128	Live!
	SFX Kit 1	126	0	1	SFX
	SFX Kit 2	126	0	2	SFX
	Magic Bell	8	32	121	S.Art!

Main Category: Synth

Sub Category 1	Voice Name	Voice Number			Voice Type	
		MSB	LSB	Prg		
Synth Lead	Sub Lead	104	0	81	Regular	
	Wire Lead	0	120	82	Regular	
	Soft Saw	104	16	82	Regular	
	Soft R&B	0	119	81	Regular	
	Fusion Lead	104	15	82	Regular	
	Early Lead	0	118	82	Regular	
	Oxygen	0	122	82	Regular	
	Soft Square	104	5	81	Regular	
	Matrix	0	123	82	Regular	
	Detuned Vintage	104	1	85	Regular	
	PWM Lead	104	1	82	Regular	
	Hipa Lead	0	118	85	Regular	
	Brassy Lead	104	5	63	Regular	
	Punchy Hook	0	127	82	Regular	
	Punch Lead	104	7	82	Regular	
	Crying Lead	0	114	88	Regular	
	Flange Filter	104	2	82	Regular	
	Hip Lead	0	113	81	Regular	
	Mouth Lead	104	0	82	Regular	
	Hop Lead	0	117	81	Regular	
	Tech Lead	0	117	85	Regular	
	Analogon	0	115	82	Regular	
	Tekkline	0	116	85	Regular	
	Skyline	0	115	85	Regular	
	Soft Mini	0	124	81	Regular	
	Bleep Lead	104	0	85	Regular	
	Fire Wire	0	116	82	Regular	
	Orbit Sine	0	126	81	Regular	
	Synth Perc	New Heaven	104	10	89	Regular
		Heaven Pad	104	3	92	Regular
		Fantasy Bells	104	11	89	Regular
		Breath Bells	104	15	89	Regular
		Itopia Bells	104	13	89	Regular
Next Generation	104	9	52	Regular		

Main Category: Synth

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Synth Perc	Sinesphere	104	18	89	Regular
	Organ Bells	104	12	89	Regular
	Spectrum Theme	104	14	89	Regular
	Sky Bells	104	16	89	Regular
	Flying Harmonics	104	1	100	Regular
	Nylon Heaven	104	2	100	Regular
	Airy Harp	104	17	89	Regular
	Nylon Pad	104	0	100	Regular
	Simple Comp	104	12	82	Regular
	Bellsphere	104	5	89	Regular
	Ballad Comp	104	6	89	Regular
	Perc Pad	104	0	102	Regular
	Heaven Bell	104	0	101	Regular
	Mediterrain	0	114	100	Regular
	Bright Pad Bell	104	7	89	Regular
	Lektro Codes	104	2	85	Regular
	Wild PWM	104	4	81	Regular
	Resonant Clavi	104	2	91	Regular
	Resonance Comp	104	4	63	Regular
	Perc Sequence FM 1	104	7	88	Regular
	Perc Sequence FM 2	104	8	88	Regular
	Digital Sequenced	104	2	88	Regular
	Synth Sticks	104	0	107	Regular
	Analog Sequenced	104	3	88	Regular
	Saz Feeze	104	0	98	Regular
	Perc Sequence FS	104	6	88	Regular
	Eastern Air	104	1	98	Regular
	Xtune	104	1	88	Regular
	Nomad	104	1	105	Regular
	Perc Sequence Saw	104	11	82	Regular
	Stack Bell	104	8	89	Regular
	Attack	104	4	82	Regular
Nice Bell	104	9	89	Regular	
PWM Percussion	104	6	82	Regular	
Synth Strings	Synth Strings 1	0	112	51	Regular
	Synth Strings 2	0	113	51	Regular
	Butter Strings	104	2	51	Regular
	Bright Saw Pad	0	113	91	Regular
	Light Pad	104	2	52	Regular
	Ober Strings	0	113	52	Regular
	Hipa Strings	0	114	96	Regular
	80s Pad	104	1	52	Regular
	Octave Strings	104	4	51	Regular
	Bright Pop Pad	104	3	51	Regular
	Medium Tune Pad	104	0	51	Regular
	Doux Flange	104	3	96	Regular
	Premium Pad	104	0	52	Regular
	Bright Pad Classic	104	3	91	Regular
	Soft Ensemble	104	1	51	Regular
Synth Brass	Analog Brass	0	112	64	Regular
	1984 Synth	104	20	82	Regular
	Fat Synth Brass	0	116	64	Regular
	80s Brass	0	113	63	Regular
	Thin Brass	104	0	63	Regular
	Funky Analog	0	115	63	Regular
	Brass Profit	104	1	63	Regular
	Techno Brass	0	114	63	Regular
	Ober Brass	0	113	64	Regular
	Ober Horns	0	115	64	Regular
	Slow PWM Brass	104	2	63	Regular
	Soft Velo Brass	0	120	63	Regular
	Fast PWM Brass	104	6	63	Regular
	Soft Analog	0	114	64	Regular
	Synth Pad	All or Nothing	104	6	102
Whisper Gallery		104	0	93	Regular
Digsweeper		104	7	102	Regular
Hybrid Lines		104	4	92	Regular

Main Category: Synth

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Synth Pad	Spectrum Pad	104	5	95	Regular
	Midnight Special	104	3	102	Regular
	Hybrid Pad	104	22	89	Regular
	Atmo 5th	104	6	90	Regular
	Deep Motion	104	4	96	Regular
	Pad Voices	104	6	96	Live!
	Skydiver	0	112	102	Regular
	Aerosphere	104	1	95	Regular
	Cross Phase	104	1	102	Regular
	New Atmosphere	104	4	90	Regular
	Galaxy Pad	104	3	89	Regular
	VP Soft	104	0	90	Regular
	Night Motion	104	4	89	Regular
	Hot Swell	104	2	96	Regular
	Morning Dew	104	0	95	Regular
	Dark Fat Saw	104	2	90	Regular
	Vapor Pad	104	1	90	Regular
	Dark Light	104	3	90	Regular
	Space Rider	104	1	96	Regular
	Ambient Pad	104	0	89	Regular
	Pearls Pad	104	2	89	Regular
	Bright Fat Saw	104	5	91	Regular
	Breath Pad	104	0	92	Regular
	Early Digital	104	0	94	Regular
	Noble Man	104	1	89	Regular
	Super Dark Pad	0	119	90	Regular
	Analog Pad	0	120	90	Regular
	Analog Swell	0	119	96	Regular
	Dark Angel Pad	0	121	90	Regular
	Big Octave Pad	0	115	91	Regular
	Lite Pad	0	122	90	Regular
	Golden Age	0	115	89	Regular
	Pop Pad	0	112	91	Regular
	Solaris	0	114	95	Regular
	Glorious Phase	0	114	91	Regular
	Insomnia	0	113	95	Regular
	Ober Sweep	0	115	96	Regular
	Neo Warm Pad	0	115	90	Regular
	Time Travel	0	116	89	Regular
	Cyber Pad	0	113	100	Regular
	Bubblespace	0	113	102	Regular
	Bright Ober	0	113	96	Regular
	Mellow Pad	0	117	96	Regular
Dark Pad	0	118	96	Regular	
Synth Dance	Ana Dayz	104	3	52	Regular
	HPF Dance	104	0	91	Regular
	Bright Pad Trance	104	4	91	Regular
	Detuned Saw Octave	104	8	82	Regular
	Chillin Chords	104	6	52	Regular
	Dancy Hook	104	9	82	Regular
	Trance (Pedal)	104	0	96	Regular
	Vinalog Saw	104	3	82	Regular
	Club Lead	104	3	63	Regular
	Talk Mod Lead	104	0	88	Regular
	Trance Perc	104	5	82	Regular
	Chorus Saw Lead	104	10	82	Regular
	Chordmaster	104	13	82	Regular
	Faaat Comp	104	4	52	Regular
	Fat Saw Hook	104	7	52	Regular
	Tech Glide	104	14	82	Regular
	Trance Sequence 1	104	4	88	Regular
	Trance Sequence 2	104	5	88	Regular
	Trance Sequence 3	104	1	91	Regular
	Dance Chords	104	5	52	Regular
	Dance Hook	0	112	87	Regular
	Trance Lead	0	121	81	Regular
	Octave Hook	0	113	87	Regular

Main Category: Synth

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
Synth Effects	Water Games	104	4	102	Regular
	Spectralis	104	4	95	Regular
	My Generation	104	5	102	Regular
	Metallic Rain	104	8	102	Regular
	Rainy Day	104	5	90	Regular
	Ambient Theme	104	20	89	Regular
	Warped Waves	104	2	95	Regular
	Reflecting Zone	104	21	89	Regular
	Sound Pictures	104	3	95	Regular
	The Fog	104	9	102	Regular
	Mystic Pad	104	6	95	Regular
	Randomizer	104	10	102	Regular
	Atlantis	104	11	102	Regular
	Tric-Trac	104	2	98	Regular
	Sixth Sense	104	2	102	Regular
	Perc Sequence Hipa	104	9	88	Regular
	Pitch Fall	104	0	104	Regular

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
MegaVoices	A. Guitar	Nylon Guitar	8	0	1	MegaVoice	
		Steel Guitar	8	0	2	MegaVoice	
		12String Guitar	8	1	3	MegaVoice	
		Hi String Guitar	8	0	3	MegaVoice	
	E. Guitar	Finger Guitar	8	4	4	MegaVoice	
		Finger Slap Guitar	8	5	4	MegaVoice	
		Vintage Pick Guitar	8	6	4	MegaVoice	
		Vintage Slap Guitar	8	7	4	MegaVoice	
		Slap Amp Guitar	8	8	4	MegaVoice	
		Single Coil Guitar	8	3	4	MegaVoice	
		Solid Guitar 1	8	1	4	MegaVoice	
		Solid Guitar 2	8	2	4	MegaVoice	
		Clean Guitar	8	0	4	MegaVoice	
		Jazz Guitar	8	0	7	MegaVoice	
		Overdrive Guitar	8	0	5	MegaVoice	
		Distortion Guitar	8	0	6	MegaVoice	
	Bass	Vintage Round	8	1	18	MegaVoice	
		Vintage Flat	8	2	18	MegaVoice	
		Vintage Pick	8	1	19	MegaVoice	
		Electric Bass	8	0	18	MegaVoice	
		Pick Bass	8	0	19	MegaVoice	
		Acoustic Bass	8	0	17	MegaVoice	
		Fretless Bass	8	0	20	MegaVoice	
	Strings	Classical Strings	8	1	49	MegaVoice	
		Real Strings	8	1	50	MegaVoice	
		Large Strings	8	0	50	MegaVoice	
		Small Strings	8	0	49	MegaVoice	
	Brass	Trumpet	8	0	65	MegaVoice	
		Brass	8	0	57	MegaVoice	
	Woodwind	Tenor Sax	8	0	83	MegaVoice	
	GM&XG	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	
EI.Piano1	0	0	5	Regular			

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type
			MSB	LSB	Prg	
GM&XG	Piano	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
		Harpichord	0	0	7	Regular
		Harpsi.KSP	0	1	7	Regular
		Harpichord2	0	25	7	Regular
		Harpichord3	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
		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	
	Cymbalom	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

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
GM&XG	Organ	ChurchOrgan3	0	32	20	Regular	
		ChurchOrgan2	0	35	20	Regular	
		NotreDame	0	40	20	Regular	
		OrganFlute	0	64	20	Regular	
		Trem.OrganFl	0	65	20	Regular	
		ReedOrgan	0	0	21	Regular	
		PuffOrgan	0	40	21	Regular	
		Accordion	0	0	22	Regular	
		AccordIt	0	32	22	Regular	
		Harmonica	0	0	23	Regular	
		Harmonica2	0	32	23	Regular	
		TangoAccord	0	0	24	Regular	
		TangoAccord2	0	64	24	Regular	
		Guitar	NylonGuitar	0	0	25	Regular
			NylonGuitar2	0	16	25	Regular
			NylonGuitar3	0	25	25	Regular
			VelGtrHarmo	0	43	25	Regular
			Ukulele	0	96	25	Regular
			SteelGuitar	0	0	26	Regular
			SteelGuitar2	0	16	26	Regular
			12StrGuitar	0	35	26	Regular
			Nylon&Steel	0	40	26	Regular
			Steel&Body	0	41	26	Regular
			Mandolin	0	96	26	Regular
			JazzGuitar	0	0	27	Regular
		MellowGuitar	0	18	27	Regular	
		JazzAmp	0	32	27	Regular	
		CleanGuitar	0	0	28	Regular	
		ChorusGuitar	0	32	28	Regular	
		MutedGuitar	0	0	29	Regular	
		FunkGuitar1	0	40	29	Regular	
		MuteSteelGtr	0	41	29	Regular	
		FunkGuitar2	0	43	29	Regular	
		JazzMan	0	45	29	Regular	
		Overdriven	0	0	30	Regular	
		GuitarPinch	0	43	30	Regular	
		Distortion	0	0	31	Regular	
		FeedbackGtr	0	40	31	Regular	
		FeedbackGtr2	0	41	31	Regular	
		GtrHarmonics	0	0	32	Regular	
		GtrFeedback	0	65	32	Regular	
		GtrHarmonic2	0	66	32	Regular	
	Bass	AcousticBass	0	0	33	Regular	
		JazzRhythm	0	40	33	Regular	
		VXUprghtBass	0	45	33	Regular	
		FingerBass	0	0	34	Regular	
		FingerDark	0	18	34	Regular	
		FlangeBass	0	27	34	Regular	
		Bass&DistEG	0	40	34	Regular	
		FingerSlap	0	43	34	Regular	
		FingerBass2	0	45	34	Regular	
		Mod.Bass	0	65	34	Regular	
		PickBass	0	0	35	Regular	
		MutePickBass	0	28	35	Regular	
		FretlessBass	0	0	36	Regular	
		Fretless2	0	32	36	Regular	
		Fretless3	0	33	36	Regular	
		Fretless4	0	34	36	Regular	
		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	

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
GM&XG	Bass	FastResoBass	0	20	39	Regular	
		AcidBass	0	24	39	Regular	
		ClaviBass	0	35	39	Regular	
		TechnoBass	0	40	39	Regular	
		Orbiter	0	64	39	Regular	
		SquareBass	0	65	39	Regular	
		RubberBass	0	66	39	Regular	
		Hammer	0	96	39	Regular	
		SynthBass2	0	0	40	Regular	
		MellowSyBass	0	6	40	Regular	
		SequenceBass	0	12	40	Regular	
		ClickSynBass	0	18	40	Regular	
		SynBass2Dark	0	19	40	Regular	
		SmoothSyBass	0	32	40	Regular	
		ModulrSyBass	0	40	40	Regular	
		DXBass	0	41	40	Regular	
	XWireBass	0	64	40	Regular		
	Strings	Violin	0	0	41	Regular	
		SlwAtkViolin	0	8	41	Regular	
		Viola	0	0	42	Regular	
		Cello	0	0	43	Regular	
		Contrabass	0	0	44	Regular	
		Trem.Strings	0	0	45	Regular	
		SlwAtTremStr	0	8	45	Regular	
		SuspenseStr	0	40	45	Regular	
		PizzicatoStr	0	0	46	Regular	
		Orch.Harp	0	0	47	Regular	
		YangQin	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		

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type
			MSB	LSB	Prg	
GM&XG	Brass	Trombone	0	0	58	Regular
		Trombone2	0	18	58	Regular
		Tuba	0	0	59	Regular
		Tuba2	0	16	59	Regular
		MutedTrumpet	0	0	60	Regular
		FrenchHorn	0	0	61	Regular
		Fr.HornSolo	0	6	61	Regular
		FrenchHorn2	0	32	61	Regular
		HornOrchestr	0	37	61	Regular
		BrassSection	0	0	62	Regular
		Tp&TbSection	0	35	62	Regular
		BrassSect2	0	40	62	Regular
		HighBrass	0	41	62	Regular
		MellowBrass	0	42	62	Regular
		SynthBrass1	0	0	63	Regular
		QuackBrass	0	12	63	Regular
		ResoSynBrass	0	20	63	Regular
		PolyBrass	0	24	63	Regular
		SynthBrass3	0	27	63	Regular
		JumpBrass	0	32	63	Regular
		AnaVelBrass1	0	45	63	Regular
		AnalogBrass1	0	64	63	Regular
		SynthBrass2	0	0	64	Regular
		SoftBrass	0	18	64	Regular
	SynthBrass4	0	40	64	Regular	
	ChoirBrass	0	41	64	Regular	
	AnaVelBrass2	0	45	64	Regular	
	AnalogBrass2	0	64	64	Regular	
	Reed	SopranoSax	0	0	65	Regular
		AltoSax	0	0	66	Regular
		SaxSection	0	40	66	Regular
		HyperAltoSax	0	43	66	Regular
		TenorSax	0	0	67	Regular
		BreathyTenor	0	40	67	Regular
		SoftTenorSax	0	41	67	Regular
		TenorSax2	0	64	67	Regular
		BaritoneSax	0	0	68	Regular
		Oboe	0	0	69	Regular
		EnglishHorn	0	0	70	Regular
		Bassoon	0	0	71	Regular
	Pipe	Clarinet	0	0	72	Regular
		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	
Synth.Lead	Ocarina	0	0	80	Regular	
	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		

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type
			MSB	LSB	Prg	
GM&XG	Synth.Lead	VelocityLead	0	45	82	Regular
		Seq.Analog	0	96	82	Regular
		CalliopeLead	0	0	83	Regular
		PureLead	0	65	83	Regular
		ChiffLead	0	0	84	Regular
		Rubby	0	64	84	Regular
		CharangLead	0	0	85	Regular
		DistortedLd	0	64	85	Regular
		WireLead	0	65	85	Regular
		VoiceLead	0	0	86	Regular
		SynthAahs	0	24	86	Regular
		VoxLead	0	64	86	Regular
		FifthsLead	0	0	87	Regular
		BigFive	0	35	87	Regular
		Bass&Lead	0	0	88	Regular
		Big&Low	0	16	88	Regular
		Fat&Perky	0	64	88	Regular
		SoftWhiri	0	65	88	Regular
		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	
	Rain	0	0	97	Regular	
	ClaviPad	0	45	97	Regular	
	HarmoRain	0	64	97	Regular	
	AfricanWind	0	65	97	Regular	
	Carib	0	66	97	Regular	
	SoundTrack	0	0	98	Regular	
	Prologue	0	27	98	Regular	
	Ancestral	0	64	98	Regular	
	Crystal	0	0	99	Regular	
	SynthDr.Comp	0	12	99	Regular	
	Popcorn	0	14	99	Regular	
	TinyBells	0	18	99	Regular	
	RoundGlocken	0	35	99	Regular	
	GlockenChime	0	40	99	Regular	
	ClearBells	0	41	99	Regular	
	ChorusBells	0	42	99	Regular	
	SynthMallet	0	64	99	Regular	
	SoftCrystal	0	65	99	Regular	
	LoudGlocken	0	66	99	Regular	
	ChristmasBel	0	67	99	Regular	

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
GM&XG	Synth.Effect	VibeBells	0	68	99	Regular	
		DigitalBells	0	69	99	Regular	
		AirBells	0	70	99	Regular	
		BellHarp	0	71	99	Regular	
		Gamelimba	0	72	99	Regular	
		Atmosphere	0	0	100	Regular	
		WarmAtmos.	0	18	100	Regular	
		HollwRelease	0	19	100	Regular	
		NylonElPiano	0	40	100	Regular	
		NylonHarp	0	64	100	Regular	
		HarpVox	0	65	100	Regular	
		Atmos.Pad	0	66	100	Regular	
		Planet	0	67	100	Regular	
		Brightness	0	0	101	Regular	
		FantasyBells	0	64	101	Regular	
		Smokey	0	96	101	Regular	
		Goblins	0	0	102	Regular	
		GoblinsSynth	0	64	102	Regular	
		Creepier	0	65	102	Regular	
		RingPad	0	66	102	Regular	
		Ritual	0	67	102	Regular	
		ToHeaven	0	68	102	Regular	
		Night	0	70	102	Regular	
		Glisten	0	71	102	Regular	
		BellChoir	0	96	102	Regular	
		Echoes	0	0	103	Regular	
		Echoes2	0	8	103	Regular	
		EchoPan	0	14	103	Regular	
		EchoBells	0	64	103	Regular	
		BigPan	0	65	103	Regular	
		SynthPiano	0	66	103	Regular	
		Creation	0	67	103	Regular	
		StarDust	0	68	103	Regular	
		Reso&Panning	0	69	103	Regular	
		Sci-Fi	0	0	104	Regular	
		Starz	0	64	104	Regular	
		Ethnic	Sitar	0	0	105	Regular
		DetunedSitar	0	32	105	Regular	
		Sitar2	0	35	105	Regular	
		Tambra	0	96	105	Regular	
		Tamboura	0	97	105	Regular	
		Banjo	0	0	106	Regular	
		MutedBanjo	0	28	106	Regular	
		Rabab	0	96	106	Regular	
		Gopichant	0	97	106	Regular	
		Oud	0	98	106	Regular	
		Shamisen	0	0	107	Regular	
		Koto	0	0	108	Regular	
		Taisho-kin	0	96	108	Regular	
		Kanoon	0	97	108	Regular	
	Kalimba	0	0	109	Regular		
	Bagpipe	0	0	110	Regular		
	Fiddle	0	0	111	Regular		
	Shanai	0	0	112	Regular		
	Shanai2	0	64	112	Regular		
	Pungi	0	96	112	Regular		
	Hichiriki	0	97	112	Regular		
	Percussive	TinkleBell	0	0	113	Regular	
	Bonang	0	96	113	Regular		
	Altair	0	97	113	Regular		
	GamelanGongs	0	98	113	Regular		
	StereoGamlan	0	99	113	Regular		
	RamaCymbal	0	100	113	Regular		
	AsianBells	0	101	113	Regular		
	Agogo	0	0	114	Regular		
	SteelDrums	0	0	115	Regular		
	GlassPerc.	0	97	115	Regular		

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
GM&XG	Percussive	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	
	CarTiresSqel		64	0	82	Regular	
	CarPassing		64	0	83	Regular	
	CarCrash		64	0	84	Regular	
	Siren		64	0	85	Regular	
	Train		64	0	86	Regular	
	JetPlane		64	0	87	Regular	
	Starship		64	0	88	Regular	
	Burst		64	0	89	Regular	
	RollrCoaster		64	0	90	Regular	
	Submarine		64	0	91	Regular	
	Laugh		64	0	97	Regular	
	Scream		64	0	98	Regular	
	Punch		64	0	99	Regular	
	Heartbeat		64	0	100	Regular	
	FootSteps	64	0	101	Regular		
	MachineGun	64	0	113	Regular		
	LaserGun	64	0	114	Regular		
	Explosion	64	0	115	Regular		
	Firework	64	0	116	Regular		
	GM2	Piano	GrandPiano	121	0	1	Regular
			GrandPianoW	121	1	1	Regular
			GrandPianoD	121	2	1	Regular
			BrightPiano	121	0	2	Regular

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type		
			MSB	LSB	Prg			
GM2	Piano	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		
		EI.Piano1	121	0	5	Regular		
		DetunedEP1	121	1	5	Regular		
		EP1VeloMix	121	2	5	Regular		
		60'sEI.Piano	121	3	5	Regular		
		EI.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		
		Chromatic Perc	Celesta	121	0	9	Regular	
			Glockenspiel	121	0	10	Regular	
			MusicBox	121	0	11	Regular	
			Vibraphone	121	0	12	Regular	
			VibraphoneW	121	1	12	Regular	
			Marimba	121	0	13	Regular	
			MarimbaW	121	1	13	Regular	
			Xylophone	121	0	14	Regular	
			TubularBells	121	0	15	Regular	
			ChurchBells	121	1	15	Regular	
			Carillon	121	2	15	Regular	
			Dulcimer	121	0	16	Regular	
			Organ	DrawbarOrgan	121	0	17	Regular
				DetDrawOrgan	121	1	17	Regular
				It60'sOrgan	121	2	17	Regular
	DrawbarOrg2	121		3	17	Regular		
	Perc.Organ	121		0	18	Regular		
	DetPercOrgan	121		1	18	Regular		
	Perc.Organ2	121		2	18	Regular		
	RockOrgan	121		0	19	Regular		
	ChurchOrgan	121		0	20	Regular		
	ChrchrOrgOctM	121		1	20	Regular		
	DetChurchOrg	121		2	20	Regular		
	ReedOrgan	121		0	21	Regular		
	PuffOrgan	121		1	21	Regular		
	Accordion	121		0	22	Regular		
	Accordion2	121		1	22	Regular		
	Harmonica	121	0	23	Regular			
	TangoAccordion	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			

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type
			MSB	LSB	Prg	
GM2	Guitar	Overdriven	121	0	30	Regular
		GuitarPinch	121	1	30	Regular
		Distortion	121	0	31	Regular
		FeedbackGtr	121	1	31	Regular
		DstRhythmGtr	121	2	31	Regular
		GtrHarmonics	121	0	32	Regular
	GtrFeedback	121	1	32	Regular	
	Bass	AcousticBass	121	0	33	Regular
		FingerBass	121	0	34	Regular
		FingerSlap	121	1	34	Regular
		PickBass	121	0	35	Regular
		FretlessBass	121	0	36	Regular
		SlapBass1	121	0	37	Regular
		SlapBass2	121	0	38	Regular
		SynthBass1	121	0	39	Regular
		WarmSyBass	121	1	39	Regular
		ResoSynhBass	121	2	39	Regular
		ClaviBass	121	3	39	Regular
		Hammer	121	4	39	Regular
		SynthBass2	121	0	40	Regular
		AttackBass	121	1	40	Regular
		RubberBass	121	2	40	Regular
		AttackPulse	121	3	40	Regular
		Strings	Violin	121	0	41
	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
	YangQin		121	1	47	Regular
	Timpani		121	0	48	Regular
	Ensemble	Strings1	121	0	49	Regular
		StringsBrass	121	1	49	Regular
		60'sStrings	121	2	49	Regular
		Strings2	121	0	50	Regular
		SynStrings1	121	0	51	Regular
		SynStrings3	121	1	51	Regular
		SynStrings2	121	0	52	Regular
		ChoirAahs	121	0	53	Regular
		ChoirAahs2	121	1	53	Regular
		VoiceOohs	121	0	54	Regular
		Humming	121	1	54	Regular
		SynthVoice	121	0	55	Regular
		AnalogVoice	121	1	55	Regular
		OrchestraHit	121	0	56	Regular
		BassHitPlus	121	1	56	Regular
		6thHit	121	2	56	Regular
		EuroHit	121	3	56	Regular
	Brass	Trumpet	121	0	57	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	

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
GM2	Brass	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	
		DoublSawLead	121	3	82	Regular	
		Seq.Analog	121	4	82	Regular	
		CalliopeLead	121	0	83	Regular	
		ChiffLead	121	0	84	Regular	
		CharangLead	121	0	85	Regular	
		WireLead	121	1	85	Regular	
	Synth.Pad	VoiceLead	121	0	86	Regular	
		FifthsLead	121	0	87	Regular	
		Bass&Lead	121	0	88	Regular	
		SoftWhirl	121	1	88	Regular	
		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	
		ltopiaPad	121	1	92	Regular	
	Synth.Effect	BowedPad	121	0	93	Regular	
		MetallicPad	121	0	94	Regular	
		HaloPad	121	0	95	Regular	
		SweepPad	121	0	96	Regular	
		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	
	Ethnic	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	
		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	
	Percussive	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	
		TinkleBell	121	0	113	Regular	
		Agogo	121	0	114	Regular	

Main Category: Others

Sub Category 1	Sub Category 2	Voice Name	Voice Number			Voice Type	
			MSB	LSB	Prg		
GM2	Percussive	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	
	Punch		121	3	127	Regular	
	HeartBeat		121	4	127	Regular	
	Footsteps		121	5	127	Regular	
	Gunshot		121	0	128	Regular	
	MachineGun		121	1	128	Regular	
	LaserGun		121	2	128	Regular	
	Explosion		121	3	128	Regular	
	Drum		StandardSet	120	0	1	Drums
			RoomSet	120	0	9	Drums
		PowerSet	120	0	17	Drums	
		ElectroSet	120	0	25	Drums	
		AnalogSet	120	0	26	Drums	
		JazzSet	120	0	33	Drums	
		BrushSet	120	0	41	Drums	
		OrchestraSet	120	0	49	Drums	
	SFXSet	120	0	57	SFX		

Main Category: Others

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
GS	Piano1	119	0	1	GS Normal
	Piano1W	119	8	1	GS Normal
	Piano1D	119	16	1	GS Normal
	Piano2	119	0	2	GS Normal
	Piano2W	119	8	2	GS Normal
	Piano3	119	0	3	GS Normal
	Piano3W	119	8	3	GS Normal
	Honkytonk	119	0	4	GS Normal
	HonkytonkW	119	8	4	GS Normal
	E.Piano1	119	0	5	GS Normal
	DetunedEP1	119	8	5	GS Normal
	E.Piano1W	119	16	5	GS Normal
	60'sE.Piano	119	24	5	GS Normal
	E.Piano2	119	0	6	GS Normal
	DetunedEP2	119	8	6	GS Normal
	E.Piano2W	119	16	6	GS Normal
	Harpsichord	119	0	7	GS Normal
	CoupledHps.	119	8	7	GS Normal
	Harpsi.W	119	16	7	GS Normal
	Harpsi.O	119	24	7	GS Normal
	Clav.	119	0	8	GS Normal
	Celesta	119	0	9	GS Normal
	Glockenspiel	119	0	10	GS Normal
	MusicBox	119	0	11	GS Normal
	Vibraphone	119	0	12	GS Normal
	VibraphoneW	119	8	12	GS Normal
	Marimba	119	0	13	GS Normal
	MarimbaW	119	8	13	GS Normal
	Xylophone	119	0	14	GS Normal
	TubularBells	119	0	15	GS Normal
	ChurchBells	119	8	15	GS Normal
	Carillon	119	9	15	GS Normal
	Santur	119	0	16	GS Normal
	Organ1	119	0	17	GS Normal
	DetunedOr1	119	8	17	GS Normal
	60'sOrgan1	119	16	17	GS Normal
	Organ4	119	32	17	GS Normal
	Organ2	119	0	18	GS Normal
	DetunedOr2	119	8	18	GS Normal
	Organ5	119	32	18	GS Normal
	Organ3	119	0	19	GS Normal
	ChurchOrg1	119	0	20	GS Normal
	ChurchOrg2	119	8	20	GS Normal
	ChurchOrg3	119	16	20	GS Normal
	ReedOrgan	119	0	21	GS Normal
	AccordionFr	119	0	22	GS Normal
	AccordionIt	119	8	22	GS Normal
	Harmonica	119	0	23	GS Normal
	Bandoneon	119	0	24	GS Normal
	NylonGuitar	119	0	25	GS Normal
	Ukulele	119	8	25	GS Normal
	NylonGt.O	119	16	25	GS Normal
NylonGuitar2	119	32	25	GS Normal	
SteelGuitar	119	0	26	GS Normal	
12StrGuitar	119	8	26	GS Normal	
Mandolin	119	16	26	GS Normal	
JazzGuitar	119	0	27	GS Normal	
HawaiianGtr	119	8	27	GS Normal	
CleanGuitar	119	0	28	GS Normal	
ChorusGuitar	119	8	28	GS Normal	
MutedGuitar	119	0	29	GS Normal	
FunkGuitar	119	8	29	GS Normal	
FunkGuitar2	119	16	29	GS Normal	
Overdriven	119	0	30	GS Normal	
Distortion	119	0	31	GS Normal	
FeedbackGtr	119	8	31	GS Normal	
GtrHarmonics	119	0	32	GS Normal	

Main Category: Others

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
GS	GtrFeedback	119	8	32	GS Normal
	AcousticBass	119	0	33	GS Normal
	FingerBass	119	0	34	GS Normal
	PickBass	119	0	35	GS Normal
	FretlessBass	119	0	36	GS Normal
	SlapBass1	119	0	37	GS Normal
	SlapBass2	119	0	38	GS Normal
	SynthBass1	119	0	39	GS Normal
	SynthBass101	119	1	39	GS Normal
	SynthBass3	119	8	39	GS Normal
	SynthBass2	119	0	40	GS Normal
	SynthBass4	119	8	40	GS Normal
	RubberBass	119	16	40	GS Normal
	Violin	119	0	41	GS Normal
	SlowViolin	119	8	41	GS Normal
	Viola	119	0	42	GS Normal
	Cello	119	0	43	GS Normal
	Contrabass	119	0	44	GS Normal
	Trem.Strings	119	0	45	GS Normal
	PizzicatoStr	119	0	46	GS Normal
	Harp	119	0	47	GS Normal
	Timpani	119	0	48	GS Normal
	Strings	119	0	49	GS Normal
	Orchestra	119	8	49	GS Normal
	SlowStrings	119	0	50	GS Normal
	SynStrings1	119	0	51	GS Normal
	SynStrings3	119	8	51	GS Normal
	SynStrings2	119	0	52	GS Normal
	ChoirAahs	119	0	53	GS Normal
	ChoirAahs2	119	32	53	GS Normal
	VoiceOohs	119	0	54	GS Normal
	SynthVox	119	0	55	GS Normal
	OrchestraHit	119	0	56	GS Normal
	Trumpet	119	0	57	GS Normal
	Trombone	119	0	58	GS Normal
	Trombone2	119	1	58	GS Normal
	Tuba	119	0	59	GS Normal
	MutedTrumpet	119	0	60	GS Normal
	FrenchHorn	119	0	61	GS Normal
	FrenchHorn2	119	1	61	GS Normal
	BrassSection	119	0	62	GS Normal
	BrassSect2	119	8	62	GS Normal
	SynthBrass1	119	0	63	GS Normal
	SynthBrass3	119	8	63	GS Normal
	AnalogBrass1	119	16	63	GS Normal
	SynthBrass2	119	0	64	GS Normal
	SynthBrass4	119	8	64	GS Normal
	AnalogBrass2	119	16	64	GS Normal
	SopranoSax	119	0	65	GS Normal
	AltoSax	119	0	66	GS Normal
	TenorSax	119	0	67	GS Normal
	BaritoneSax	119	0	68	GS Normal
	Oboe	119	0	69	GS Normal
	EnglishHorn	119	0	70	GS Normal
	Bassoon	119	0	71	GS Normal
	Clarinet	119	0	72	GS Normal
	Piccolo	119	0	73	GS Normal
	Flute	119	0	74	GS Normal
	Recorder	119	0	75	GS Normal
	PanFlute	119	0	76	GS Normal
	BottleBlow	119	0	77	GS Normal
	Shakuhachi	119	0	78	GS Normal
	Whistle	119	0	79	GS Normal
	Ocarina	119	0	80	GS Normal
	SquareWave	119	0	81	GS Normal
	Square	119	1	81	GS Normal
	SineWave	119	8	81	GS Normal

Main Category: Others

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
GS	SawWave	119	0	82	GS Normal
	Saw	119	1	82	GS Normal
	DoctorSolo	119	8	82	GS Normal
	SynCalliope	119	0	83	GS Normal
	ChifferLead	119	0	84	GS Normal
	CharangLead	119	0	85	GS Normal
	SoloVox	119	0	86	GS Normal
	5thSawWave	119	0	87	GS Normal
	Bass&Lead	119	0	88	GS Normal
	Fantasia	119	0	89	GS Normal
	WarmPad	119	0	90	GS Normal
	PolySynthPad	119	0	91	GS Normal
	SpaceVoice	119	0	92	GS Normal
	BowedGlass	119	0	93	GS Normal
	MetalPad	119	0	94	GS Normal
	HaloPad	119	0	95	GS Normal
	SweepPad	119	0	96	GS Normal
	IceRain	119	0	97	GS Normal
	SoundTrack	119	0	98	GS Normal
	Crystal	119	0	99	GS Normal
	SynthMallet	119	1	99	GS Normal
	Atmosphere	119	0	100	GS Normal
	Brightness	119	0	101	GS Normal
	Goblins	119	0	102	GS Normal
	EchoDrops	119	0	103	GS Normal
	EchoBell	119	1	103	GS Normal
	EchoPan	119	2	103	GS Normal
	StarTheme	119	0	104	GS Normal
	Sitar	119	0	105	GS Normal
	Sitar2	119	1	105	GS Normal
	Banjo	119	0	106	GS Normal
	Shamisen	119	0	107	GS Normal
	Koto	119	0	108	GS Normal
	TaishoKoto	119	8	108	GS Normal
	Kalimba	119	0	109	GS Normal
	Bagpipe	119	0	110	GS Normal
	Fiddle	119	0	111	GS Normal
	Shanai	119	0	112	GS Normal
	TinkleBell	119	0	113	GS Normal
	Agogo	119	0	114	GS Normal
	SteelDrums	119	0	115	GS Normal
	Woodblock	119	0	116	GS Normal
	Castanets	119	8	116	GS Normal
	TaikoDrum	119	0	117	GS Normal
	ConcertBD	119	8	117	GS Normal
	MelodicTom1	119	0	118	GS Normal
	MelodicTom2	119	8	118	GS Normal
	SynthDrum	119	0	119	GS Normal
	808Tom	119	8	119	GS Normal
	ElectricDrum	119	9	119	GS Normal
	Rev.Cymbal	119	0	120	GS Normal
	GtrFretNoise	119	0	121	GS Normal
	GtrCutNoise	119	1	121	GS Normal
	StringSlap	119	2	121	GS Normal
	BreathNoise	119	0	122	GS Normal
	Fl.KeyClick	119	1	122	GS Normal
	Seashore	119	0	123	GS Normal
	Rain	119	1	123	GS Normal
	Thunder	119	2	123	GS Normal
	Wind	119	3	123	GS Normal
	Stream	119	4	123	GS Normal
	Bubble	119	5	123	GS Normal
	BirdTweet	119	0	124	GS Normal
	Dog	119	1	124	GS Normal
	HorseGallop	119	2	124	GS Normal
	BirdTweet2	119	3	124	GS Normal
	TelephonRing	119	0	125	GS Normal

Main Category: Others

Sub Category 1	Voice Name	Voice Number			Voice Type
		MSB	LSB	Prg	
GS	TelRing2	119	1	125	GS Normal
	DoorCreaking	119	2	125	GS Normal
	Door	119	3	125	GS Normal
	Scratch	119	4	125	GS Normal
	WindChime	119	5	125	GS Normal
	Helicopter	119	0	126	GS Normal
	CarEngine	119	1	126	GS Normal
	CarStop	119	2	126	GS Normal
	CarPass	119	3	126	GS Normal
	CarCrash	119	4	126	GS Normal
	Siren	119	5	126	GS Normal
	Train	119	6	126	GS Normal
	Jetplane	119	7	126	GS Normal
	Starship	119	8	126	GS Normal
	BurstNoise	119	9	126	GS Normal
	Applause	119	0	127	GS Normal
	Laughing	119	1	127	GS Normal
	Screaming	119	2	127	GS Normal
	Punch	119	3	127	GS Normal
	HeartBeat	119	4	127	GS Normal
	Footsteps	119	5	127	GS Normal
	Gunshot	119	0	128	GS Normal
	MachineGun	119	1	128	GS Normal
	Lasergun	119	2	128	GS Normal
	Explosion	119	3	128	GS Normal
	StandardSet	118	0	1	GS Drums
	RoomSet	118	0	9	GS Drums
	PowerSet	118	0	17	GS Drums
	ElectroSet	118	0	25	GS Drums
	AnalogSet	118	0	26	GS Drums
	JazzSet	118	0	33	GS Drums
	BrushSet	118	0	41	GS Drums
	OrchestraSet	118	0	49	GS Drums
SFXSet	118	0	57	GS Drums	

Mega Voice Map / Sound-Zuordnungen der Mega Voices / Carte des voix Mega / Mapa de Mega Voice

MSB	LSB	PC#(1)	Voice Name	Velocity Switch Points (under BS)												above C6	above C8
				1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75		
8	0	1	Mega NylonGuitar	open soft	open med	open hard	dead	mute	hammer	slide	harmonics	strum noise	fret noise	1-127	1-127		
8	0	2	Mega SteelGuitar	open soft	open med	open hard	dead	mute	hammer	slide	harmonics	strum noise	fret noise	1-127	1-127		
8	0	3	Mega HiStringGtr		1-89	soft								1-127	1-127		
8	1	3	Mega 12StringGtr Element1(Steel) Element2(HiString)		1-71	soft		72-115	med		116-127	hard		1-127	1-127		
8	0	4	Mega CleanGuitar	open soft	open hard	slap	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	1	4	Mega SolidGuitar1	open soft	open hard	slap	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	2	4	Mega SolidGuitar2	open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	3	4	Mega SingleCoil	open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	4	4	Mega FingerGtr	open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	5	4	Mega FingerSlapGtr	open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	6	4	Mega VintagePickGtr	open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	7	4	Mega VintageSlapGtr	open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	8	4	Mega SlapAmpGtr	open soft	open med	open hard	dead mp	dead mf	dead mf	dead mf	dead mf	dead mf	dead mf	dead mf	dead mf		
8	0	5	Mega OverdriveGtr		1-55	open		56-120	mute		121-127	pick harmonics		1-127	1-127		
8	0	6	Mega DistortionGtr		1-55	open		56-120	mute		121-127	pick harmonics		1-127	1-127		
8	0	7	Mega JazzGuitar	open soft	open med	open hard	dead soft	dead hard	hammer	slide	pick harmonics	strum noise	fret noise	1-127	1-127		
8	0	17	Mega AcousticBass		1-60	open soft	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard		
8	0	18	Mega ElectricBass		1-60	open soft	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard		
8	1	18	Mega VintageRound		1-60	open soft	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard		
8	2	18	Mega VintageFlat		1-60	open soft	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard	open hard		
8	0	19	Mega PickBass		1-40	open	41-80	mute									

MSB	LSB	PC#(1)	Voice Name	Velocity Switch Points (under B5)										above C6	above C8
				1-40	41-80	81-120	121-127	1-80	81-120	121-127	1-127	1-127	1-127		
8	1	18	Mega VintagePick	1-40	41-80	81-120	121-127	1-80	81-120	121-127	1-127	1-127	1-127	1-127	1-127
				open	mute	dead	harmonics	open	dead	harmonics	EFX	EFX	EFX	EFX	EFX
8	0	20	Mega FretlessBass	1-40	41-80	81-120	121-127	1-80	81-120	121-127	1-127	1-127	1-127	1-127	1-127
				open	mute	dead	harmonics	open	dead	harmonics	EFX	EFX	EFX	EFX	EFX
8	0	49	Mega SmallStrings	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	1-127	1-127	1-127	1-127
				p	mf	f	legato	spicato f	spicato ff	tremolo	glissando down	glissando down	glissando down	glissando down	glissando down
8	1	49	Mega ClassicalStrings	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	1-127	1-127	1-127	1-127
				p	mf	f	legato	spicato f	spicato ff	tremolo	glissando down	glissando down	glissando down	glissando down	glissando down
8	0	50	Mega LargeStrings	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	1-127	1-127	1-127	1-127
				p	mf	f	legato	spicato f	spicato ff	tremolo	glissando down	glissando down	glissando down	glissando down	glissando down
8	1	50	Mega ReatStrings	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	1-127	1-127	1-127	1-127
				p	mf	f	legato	spicato f	spicato ff	tremolo	glissando down	glissando down	glissando down	glissando down	glissando down
8	0	52	Mega MaleVoiceChoir	1-15	16-30	31-45	46-60	61-75	76-90	91-105	106-127	1-127	1-127	1-127	1-127
				Ooh p	Ooh p legato	Ooh mf	Ooh mf legato	Aah p	Aah p legato	Aah mf	Aah mf legato	Aah mf	Aah mf	Aah mf	Aah mf legato
8	0	55	Mega GospelChoir	1-15	16-30	31-45	46-60	61-75	76-90	91-105	106-127	1-127	1-127	1-127	1-127
				Himm	Hmm legato	Wow	Wow legato	Hey	Hey legato	Aaa	Aaa legato	Aaa	Aaa	Aaa	Ad libs EFX
8	0	57	Mega Brass	1-20	21-40	41-60	61-80	81-90	91-100	101-110	111-120	121-127	1-127	1-127	1-127
				p	mf	f	attack	scoops	shake	falls fast mf	falls fast f	glissando up	glissando up	glissando up	glissando up
8	0	65	Mega Trumpet	1-20	21-40	41-60	61-80	81-100	101-110	111-120	121-127	1-127	1-127	1-127	1-127
				mf	f	ff	legato	straight	shake	shake	falls	glissando up	glissando up	glissando up	glissando up
8	0	83	Mega TenorSax	1-20	21-40	41-60	61-80	81-100	101-110	111-120	121-127	1-127	1-127	1-127	1-127
				mp	mf	f	legato	growl	growl	growl	falls	falls	falls	falls	falls
8	0	101	PopHaa	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	110-127
				Haa p	Aa p legato	Haa vib p	Aa vib p legato	Haa f	Aa f legato	Haa vib f	Aa vib f legato	Waa p	Waa vib p	Waa f	Waa vib f
8	0	102	PopDaa	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	110-127
				Daa p	Aa p legato	Daa vib p	Aa vib p legato	Daa f	Aa f legato	Daa vib f	Aa vib f legato	Waa p	Waa vib p	Waa f	Waa vib f
8	0	103	PopBaa	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	110-127
				Baa p	Aa p legato	Baa vib p	Aa vib p legato	Baa f	Aa f legato	Baa vib f	Aa vib f legato	Yaa p	Yaa vib p	Yaa f	Yaa vib f
8	0	106	PopHoo	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	110-127
				Hoo p	Oo p legato	Hoo vib p	Oo vib p legato	Hoo f	Oo f legato	Hoo vib f	Oo vib f legato	Yoo p	Yoo vib p	Yoo f	Yoo vib f

MSB	LSB	PC#(1)	Voice Name	Velocity Switch Points (under B5)																above C6	above C8
				1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	110-127	C6 - D#6: 1-60, 61-127	E6 - B6: 1-30, 31-60, 61-90, 91-127				
8	0	107	PopDoo	Doo p	Oo p legato	Doo vib p	Oo vib p legato	Doo f	Oo f legato	Doo vib f	Oo vib f legato	Yoo p	Yoo vib p	Yoo f	Yoo vib f	110-127	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127	breath noise			
8	0	104	PopShoo	Shoo p	Oo p legato	Shoo vib p	Oo vib p legato	Shoo f	Oo f legato	Shoo vib f	Oo vib f legato	Yoo p	Yoo vib p	Yoo f	Yoo vib f	110-127	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127	breath noise			
8	0	111	PopHee	Hee vib p	Ee vib p legato	Hee vib p	Ee vib p legato	Hee vib p	Ee vib p legato	Hee vib p	Ee vib p legato	81-90	91-100	101-110	110-127	vocal breath	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127				
8	0	108	PopBee	Bee vib p	Ee vib p legato	Bee vib p	Ee vib p legato	Bee vib p	Ee vib p legato	Bee vib p	Ee vib p legato	81-90	91-100	101-110	110-127	breath noise	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127				
8	0	116	PopHaa L2	Haa p	Aa p legato2	Haa vib p	Aa vib p legato2	Haa f	Aa f legato2	Haa vib f	Aa vib f legato2	Waa p	Waa vib p	Waa vib f	110-127	breath noise	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127				
8	0	121	PopHoo L2	Hoo p	Oo p legato2	Hoo vib p	Oo vib p legato2	Hoo f	Oo f legato2	Hoo vib f	Oo vib f legato2	Yoo p	Yoo vib p	Yoo vib f	110-127	breath noise	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127				
8	0	126	PopHee L2	Hee vib p	Ee vib p legato2	Hee vib p	Ee vib p legato2	Hee vib p	Ee vib p legato2	Hee vib p	Ee vib p legato2	81-90	91-100	101-110	110-127	breath noise	C6 - D#6: 1-60, 61-127 E6 - B6: 1-30, 31-60, 61-90, 91-127				
8	1	2	SteelAcoustic	pick p	pick p	pick mf	pick f	pick f	pick f	dead p	dead f	76-83	84-90	91-105	106-120	121-127	pick noise	1-127			
8	2	2	SteelAcGtrSlap	pick p	pick p	pick mf	slap soft	slap hard	slap hard	dead p	dead f	76-83	84-90	91-105	106-120	121-127	pick noise	1-127			
8	3	1	FlamencoGuitar	finger soft	finger soft	finger soft/med	finger med	finger med	finger med	finger hard	finger hard	81-90	91-100	101-110	111-120	121-127	pick noise	1-45	46-90	91-127	
8	4	1	SpanishMedium	finger soft	finger soft	finger soft/med	finger med	finger med	finger med	dead	dead	76-90	91-105	106-120	121-127	strum noise	1-127				
8	5	1	SpanishHard	finger soft/med	finger soft/med	finger med	finger hard	finger hard	finger hard	dead	dead	76-90	91-105	106-120	121-127	strum noise	1-127				

Drum/SFX Kit List / Drum/SFX-Kit-Liste / Liste des kits de batterie/SFX / Lista de conjuntos de percusión/efectos especiales

Note#	MSB-LSB-PC#		Standard Kit 1 127-0-1			Standard Kit 2 127-0-2			Hit Kit 127-0-5			Room Kit 127-0-9			Rock Kit 127-0-17		
	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1	Surdo Mute		3												
14	D-1	D1	Surdo Open		3												
15	D#-1	D#1	Hi O														
16	E-1	E1	Whip Slap														
17	F-1	F1	Scratch H		4												
18	F#-1	F#1	Scratch L		4												
19	G-1	G1	Finger Snap														
20	G#-1	G#1	Click Noise														
21	A-1	A1	Metronome Click														
22	A#-1	A#1	Metronome Bell														
23	B-1	B1	Seq Click L														
24	C0	C2	Seq Click H														
25	C#0	C#2	Brush Tap														
26	D0	D2	Brush Swirl	•													
27	D#0	D#2	Brush Slap														
28	E0	E2	Brush Tap Swirl	•													
29	F0	F2	Snare Roll	•													
30	F#0	F#2	Castanet														
31	G0	G2	Snare Soft			Snare Soft 2			Snare Electro						Snare Noisy		
32	G#0	G#2	Sticks														
33	A0	A2	Kick Soft						Kick Tight L								
34	A#0	A#2	Open Rim Shot			Open Rim Shot H Short			Snare Pitched								
35	B0	B2	Kick Tight						Kick Wet								
36	C1	C3	Kick			Kick Short			Kick Tight H						Kick 2		
37	C#1	C#3	Side Stick			Side Stick Light			Stick Ambient								
38	D1	D3	Snare			Snare Short			Snare Ambient					Snare Snappy		Snare Rock	
39	D#1	D#3	Hand Clap														
40	E1	E3	Snare Tight			Snare Tight H			Snare Tight 2					Snare Tight Snappy		Snare Rock Tight	
41	F1	F3	Floor Tom L						Hybrid Tom 1					Tom Room 1		Tom Rock 1	
42	F#1	F#3	Hi-Hat Closed		1				Hi-Hat Closed 2		1						
43	G1	G3	Floor Tom H						Hybrid Tom 2					Tom Room 2		Tom Rock 2	
44	G#1	G#3	Hi-Hat Pedal		1				Hi-Hat Pedal 2		1						
45	A1	A3	Low Tom						Hybrid Tom 3					Tom Room 3		Tom Rock 3	
46	A#1	A#3	Hi-Hat Open		1				Hi-Hat Open 2		1						
47	B1	B3	Mid Tom L						Hybrid Tom 4					Tom Room 4		Tom Rock 4	
48	C2	C4	Mid Tom H						Hybrid Tom 5					Tom Room 5		Tom Rock 5	
49	C#2	C#4	Crash Cymbal 1														
50	D2	D4	High Tom						Hybrid Tom 6					Tom Room 6		Tom Rock 6	
51	D#2	D#4	Ride Cymbal 1														
52	E2	E4	Chinese Cymbal														
53	F2	F4	Ride Cymbal Cup														
54	F#2	F#4	Tambourine						Tambourine Light								
55	G2	G4	Splash Cymbal														
56	G#2	G#4	Cowbell														
57	A2	A4	Crash Cymbal 2														
58	A#2	A#4	Vibraslap														
59	B2	B4	Ride Cymbal 2														
60	C3	C5	Bongo H														
61	C#3	C#5	Bongo L														
62	D3	D5	Conga H Mute														
63	D#3	D#5	Conga H Open														
64	E3	E5	Conga L														
65	F3	F5	Timbale H														
66	F#3	F#5	Timbale L														
67	G3	G5	Agogo H														
68	G#3	G#5	Agogo L														
69	A3	A5	Cabasa														
70	A#3	A#5	Maracas														
71	B3	B5	Samba Whistle H	•													
72	C4	C6	Samba Whistle L	•													
73	C#4	C#6	Guiro Short														
74	D4	D6	Guiro Long	•													
75	D#4	D#6	Claves														
76	E4	E6	Wood Block H														
77	F4	F6	Wood Block L														
78	F#4	F#6	Cuica Mute														
79	G4	G6	Cuica Open														
80	G#4	G#6	Triangle Mute		2												
81	A4	A6	Triangle Open		2												
82	A#4	A#6	Shaker														
83	B4	B6	Jingle Bells														
84	C5	C7	Bell Tree														
85	C#5	(C#7)															
86	D5	(D7)															
87	D#5	(D#7)															
88	E5	(E7)															
89	F5	(F7)															
90	F#5	(F#7)															
91	G5	(G7)															

Same as StandardKit 1

*1 Key Off: Keys marked "•" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

No Sound

Kit Name			Electro Kit			Analog Kit			Dance Kit			Jazz Kit			Brush Kit		
MSB-LSB-PC#			127-0-25			127-0-26			127-0-28			127-0-33			127-0-41		
Note#	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1							Kick Dance 1								
14	D-1	D1							Kick Dance 2								
15	D#-1	D#1															
16	E-1	E1															
17	F-1	F1							Scratch Dance 1	•							
18	F#-1	F#1							Scratch Dance 2	•							
19	G-1	G1															
20	G#-1	G#1															
21	A-1	A1							Dance Perc 1								
22	A#-1	A#1							Reverse Dance 1								
23	B-1	B1							Dance Perc 2								
24	C0	C2							Hi Q Dance 1								
25	C#0	C#2							Snare Analog 3								
26	D0	D2							Vinyl Noise	•							
27	D#0	D#2							Snare Analog 4								
28	E0	E2	Reverse Cymbal	•		Reverse Cymbal	•		Reverse Cymbal	•							
29	F0	F2							Reverse Dance 2	•							
30	F#0	F#2	Hi Q 2			Hi Q 2			Hi Q 2								
31	G0	G2	Snare Snappy Electro			Snare Noisy 4			Snare Techno			Snare Jazz H			Brush Slap 2		
32	G#0	G#2							Snare Dance 1								
33	A0	A2	Kick 3			Kick 3			Kick Techno Q								
34	A#0	A#2							Rim Gate								
35	B0	B2	Kick Gate			Kick Analog Short			Kick Techno L								
36	C1	C3	Kick Gate Heavy			Kick Analog			Kick Techno			Kick Jazz			Kick Jazz		
37	C#1	C#3				Side Stick Analog			Side Stick Analog			Side Stick Light			Side Stick Light		
38	D1	D3	Snare Noisy 2			Snare Analog			Snare Clap			Snare Jazz L			Brush Slap 3		
39	D#1	D#3							Dance Clap								
40	E1	E3	Snare Noisy 3			Snare Analog 2			Snare Dry			Snare Jazz M			Brush Tap 2		
41	F1	F3	Tom Electro 1			Tom Analog 1			Tom Dance 1						Tom Brush 1		
42	F#1	F#3				Hi-Hat Closed Analog	1		Hi-Hat Closed 3		1						
43	G1	G3	Tom Electro 2			Tom Analog 2			Tom Dance 2						Tom Brush 2		
44	G#1	G#3				Hi-Hat Closed Analog 2	1		Hi-Hat Closed Analog 3		1						
45	A1	A3	Tom Electro 3			Tom Analog 3			Tom Dance 3						Tom Brush 3		
46	A#1	A#3				Hi-Hat Open Analog	1		Hi-Hat Open 3		1						
47	B1	B3	Tom Electro 4			Tom Analog 4			Tom Dance 4						Tom Brush 4		
48	C2	C4	Tom Electro 5			Tom Analog 5			Tom Dance 5						Tom Brush 5		
49	C#2	C#4				Crash Analog			Crash Analog								
50	D2	D4	Tom Electro 6			Tom Analog 6			Tom Dance 6						Tom Brush 6		
51	D#2	D#4															
52	E2	E4															
53	F2	F4															
54	F#2	F#4							Tambourine Analog								
55	G2	G4															
56	G#2	G#4				Cowbell Analog			Cowbell Dance								
57	A2	A4															
58	A#2	A#4							Vibraslap Analog								
59	B2	B4							Ride Analog								
60	C3	C5							Bongo Analog H								
61	C#3	C#5							Bongo Analog L								
62	D3	D5							Conga Analog H								
63	D#3	D#5							Conga Analog M								
64	E3	E5							Conga Analog L								
65	F3	F5															
66	F#3	F#5															
67	G3	G5															
68	G#3	G#5															
69	A3	A5															
70	A#3	A#5						Maracas 2	Maracas 2								
71	B3	B5															
72	C4	C6															
73	C#4	C#6															
74	D4	D6															
75	D#4	D#6						Claves 2	Claves 2								
76	E4	E6							Dance Perc 3								
77	F4	F6							Dance Perc 4	•							
78	F#4	F#6	Scratch H 2			Scratch H 2			Dance Breath 1								
79	G4	G6	Scratch L 2			Scratch L 2			Dance Breath 2	•							
80	G#4	G#6															
81	A4	A6															
82	A#4	A#6															
83	B4	B6															
84	C5	C7															
85	C#5	(C#7)															
86	D5	(D7)															
87	D#5	(D#7)															
88	E5	(E7)															
89	F5	(F7)															
90	F#5	(F#7)															
91	G5	(G7)															

Same as StandardKit 1

*1 Key Off: Keys marked "•" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

No Sound

Kit Name			Real Brushes			Symphony Kit			Hip Hop Kit			Break Kit			Analog T8 Kit		
MSB-LSB-PC#			127-0-42			127-0-49			127-0-57			127-0-58			127-0-59		
Note#	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1															
14	D-1	D1															
15	D#-1	D#1															
16	E-1	E1															
17	F-1	F1															
18	F#-1	F#1															
19	G-1	G1							Hi-Hat Closed T8 2		4				Snare Hammer		
20	G#-1	G#1							Tom T8 3			Snare Break 8			Kick Zap Hard		
21	A-1	A1							Hi-Hat Open T8 2		4	Snare Break 9			Snare Garg L		
22	A#-1	A#1							Tom T8 6			Hi-Hat Closed Break 1	●		Kick Tek Power		
23	B-1	B1	Vintage Tip						Crash T8			Hi-Hat Closed Break 2	●		Kick Slimy		
24	C0	C2	Vintage Swirl 1	●					Triangle Mute		1	Kick Break Deep			Kick T8 4		
25	C#0	C#2	Vintage Slap 1						Triangle Open		1	Snare Hip			Snare Analog CR		
26	D0	D2	Vintage Swirl 2	●					Wind Chime			Snare Lo-Fi			Snare T8 7		
27	D#0	D#2	Vintage Slap 2						Tambourine Light 2			Snare Clappy			Snare Clap Analog		
28	E0	E2	Vintage Tap Swirl	●					Tambourine Light 1			Snare LdwH Mono			Snare T8 6		
29	F0	F2	Vintage Slap Swirl	●					Kick HipHop 9			Snare Rock Roll	●		Tom T8 5		
30	F#0	F#2	Vintage Swirl 3	●					Hi-Hat Closed Tek		3	Snare Gate 1			Snare T8 5		
31	G0	G2	Vintage Slap 3						Kick Gate			Snare Mid			Kick T8 3		
32	G#0	G#2							Hi-Hat Open Lo-Fi		3	Snare Break Rim			Snare T8 4		
33	A0	A2	Kick Soft L			Kick Soft 2			Kick Gran Casa Open			Kick Break Heavy			Kick T8 2		
34	A#0	A#2	Open Rim Shot Real Brushes						Hi-Hat Reverse Drum&Bass			Snare Hip Rim 4			Snare T8 3		
35	B0	B2	Kick Soft H			Gran Cassa			Kick HipHop 1			Kick Break 2			T8 Kick Bass		
36	C1	C3	Kick Jazz Ambience			Gran Cassa Mute			Kick Analog CR			Kick Break 1			Kick T8 1		
37	C#1	C#3	Side Stick Real Brushes						Snare Analog Sm Rim			Snare Hip Rim 1			Snare T8 Rim		
38	D1	D3	Vintage Slap 4			Band Snare			Snare HipHop 1			Snare Break 3			Snare T8 2		
39	D#1	D#3	Clap Power						Snare Clappy			Snare Break 1			Clap T9		
40	E1	E3	Vintage Slap 5			Band Snare 2			Snare HipHop 2			Snare Break 2			Snare T8 1		
41	F1	F3	Tom Real Brushes 1									Tom Break 1			Tom T8 1		
42	F#1	F#3	Hi-Hat Closed Real Brushes		1				Hi-Hat Closed HipHop		2	Hi-Hat Closed Rock Soft		1	Hi-Hat Closed T8		1
43	G1	G3	Tom Real Brushes 2						Low Tom			Tom Break 2			Tom T8 2		
44	G#1	G#3	Hi-Hat Pedal Real Brushes		1				Hi-Hat Pedal HipHop		2	Hi-Hat Pedal Rock		1	Hi-Hat Pedal T8		1
45	A1	A3	Tom Real Brushes 3						Mid Tom L			Tom Break 3			Tom T8 3		
46	A#1	A#3	Hi-Hat Open Real Brushes		1				Hi-Hat Open HipHop		2	Hi-Hat Half Open Rock		1	Hi-Hat Open T8		1
47	B1	B3	Tom Real Brushes 4						High Tom			Tom Break 4			Tom T8 4		
48	C2	C4	Tom Real Brushes 5						Ride Cymbal 3			Tom Break 5			Tom T8 6		
49	C#2	C#4	Crash Cymbal Real Brushes 1			Hand Cymbal			Crash Cymbal 3						Crash Cymbal T8		
50	D2	D4	Tom Real Brushes 6						Shaker 2			Tom Break 6			Tom T8 7		
51	D#2	D#4	Ride Cymbal Real Brushes			Hand Cymbal Short			Scratch Bass Drum Forward			Ride Cymbal 3			Ride Cymbal T9		
52	E2	E4	China Cymbal Real Brushes						Scratch Bass Drum Reverse			China Cymbal 2			China Cymbal 2		
53	F2	F4	Ride Cup Real Brushes 1						Kick HipHop 2			Ride Cymbal Cup 2			Ride Cymbal Cup 2		
54	F#2	F#4							Snare HipHop Rim 2			Tambourine 1 Hit			Tambourine RX5		
55	G2	G4	Splash Cymbal Real Brushes						HipHop Clap 2			Splash Cymbal 2					
56	G#2	G#4							HipHop Snap 1			Cowbell 1			Cowbell T8		
57	A2	A4	Crash Cymbal Real Brushes 2			Hand Cymbal 2			Snare HipHop 3						Crash Cymbal 4		
58	A#2	A#4							Electric Clap 2			Cowbell RX11					
59	B2	B4	Ride Cup Real Brushes 2			Hand Cymbal Short 2			Kick Hip Deep						Ride Cymbal 3		
60	C3	C5							Kick HipHop 3						Conga T8 5		
61	C#3	C#5							Snare HipHop Rim 3						Conga T8 4		
62	D3	D5							Snare HipHop 5			Conga H Tip			Conga T8 3		
63	D#3	D#5							Electric Clap 1			Conga H Open Slap			Conga T8 2		
64	E3	E5							Handbell H			Conga H Open			Conga T8 1		
65	F3	F5							Kick HipHop 4			Bongo 2 H					
66	F#3	F#5							HipHop Clap 3			Bongo 2 L					
67	G3	G5							HipHop Snap 2			Conga Open			Glass H		
68	G#3	G#5							Snare HipHop Rim 5						Glass L		
69	A3	A5							HipHop Flex 1								
70	A#3	A#5							HipHop Flex 2			Maracas Slur			Maracas T8		
71	B3	B5							Shaker 2			Timbale H			Fx Gun 2	●	
72	C4	C6							Kick HipHop 5			Timbale L			Fx Gun 1	●	
73	C#4	C#6							Snare HipHop Rim 4			Scratch H 3	●		Analog Shaker H	●	
74	D4	D6							Snare HipHop 6			Scratch Down	●		Analog Shaker L	●	
75	D#4	D#6							Snare HipHop 11						Claves T8		
76	E4	E6							Kick HipHop 10						Hi Q 1		
77	F4	F6							Snare HipHop 7						Hi Q 2		
78	F#4	F#6							HipHop Clap 5			Scratch H 2			Scratch H 2		
79	G4	G6							Conga H Tip			Scratch L 2			Scratch L 2		
80	G#4	G#6							Conga H Heel								
81	A4	A6							Conga H Open								
82	A#4	A#6							Conga L Open 1			Kick Break 3			Analog Shaker		
83	B4	B6							Conga L Open 2			Kick Break 4			Sleigh Bells		
84	C5	C7	Wind Chime						Kick HipHop 8			Kick Break 5	●		Wind Chime		
85	C#5	(C#7)							HipHop Clap 6			Kick Break 6			Snare Hip 1		
86	D5	(D7)							Snare T8 1			Kick Break 7			Snare Hip 2		
87	D#5	(D#7)							Snare T8 1 H			Hi-Hat Closed Break 3			Snare Hip Gate		
88	E5	(E7)							HipHop Clap 7			Snare Break 4			Snare Break 1		
89	F5	(F7)							Tom T8 1			Snare Break 5			Kick Blip		
90	F#5	(F#7)							Hi-Hat Closed T8 2			Snare Break 6			Snare Fx 1		
91	G5	(G7)							Tom T8 2			Snare Break 7			Kick Fx Hammer		

Same as StandardKit 1

*1 Key Off: Keys marked "●" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

No Sound

CSP-170/CSP-150 Data List / Daten-Liste / Liste des données / Lista de datos

Drum/SFX Kit List / Drum/SFX-Kit-Liste / Liste des kits de batterie/SFX / Lista de conjuntos de percusión/efectos especiales

Kit Name			Analog T9 Kit			House Kit			Drum Machine			Studio Kit			Power Kit 1		
MSB-LSB-PC#			127-0-60			127-0-61			127-0-62			127-0-87			127-0-88		
Note#	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1				W Kick	●										
14	D-1	D1				Disco Fx	●										
15	D#-1	D#1				White Noise Down 1	●										
16	E-1	E1				Pink Noise Down 1	●										
17	F-1	F1				White Noise Down 2	●	4									
18	F#-1	F#1				Pink Noise Down 2	●	4									
19	G-1	G1	Snare Drum&Bass 1			White Noise Up 2	●		Snare Drum&Bass 1								
20	G#-1	G#1	Kick Break 2			White Noise Up 1	●		Kick Break 2								
21	A-1	A1	Snare Distortion			Pink Noise Up	●		Snare Distortion								
22	A#-1	A#1	Kick Tek Power			White Noise Up Release	●		Kick Tek Power								
23	B-1	B1	Kick Distortion RM			Pink Noise Up Release	●		Kick Distortion RM								
24	C0	C2	Kick T9 2			Kick T9 4			Bass Drum Hard Long								
25	C#0	C#2	Snare Analog CR			Snare T8 Rim			Bass Drum Tek Power								
26	D0	D2	Snare T9 5			Snare T8 5			Bass Drum Distortion 5								
27	D#0	D#2	Clap Analog Sm			Hand Clap			Bass Drum Distortion 3								
28	E0	E2	Snare T9 Gate 1			Snare Garg L			Bass Drum Distortion 1	●							
29	F0	F2	Snare Rock Roll	●					Bass Drum Drum&Bass 1								
30	F#0	F#2	Snare T9 3			Snare T9 3			Bass Drum Blip								
31	G0	G2	Snare T9 4			Snare T8 1			Bass Drum Analog Sm			Snare Studio 2			Snare Soft Power 1		
32	G#0	G#2	Snare T9 Gate 2			Snare T9 5			Kick T8 2								
33	A0	A2	Kick T9 4			Kick T9 1			Kick T8 3			Kick Ambience H			Kick Ambient+		
34	A#0	A#2	Snare T9 6			Snare T9 Gate			Kick T9 HD 3						Open Rim Power 1		
35	B0	B2	Kick T9 1			Kick T9 2			Kick T9 2			Kick Ambience L			Kick Power Open		
36	C1	C3	Kick T9 3			Kick T9 5			Kick T9 4			Kick Studio			Kick Power Mute		
37	C#1	C#3	Snare T9 Rim			Snare T9 Rim			Snare T9 Rim						Side Stick Power		
38	D1	D3	Snare T9 1			Snare T9 1			Snare T9 1			Snare Studio M			Snare Power 1		
39	D#1	D#3	Clap T9			Clap T9			Clap T9						Hand Clap Power		
40	E1	E3	Snare T9 2			Snare T9 2			Snare T9 4			Snare Studio L			Snare Rough		
41	F1	F3	Tom T9 1			Tom T9 1			Tom T9 1						Tom Power 1		
42	F#1	F#3	Hi-Hat Closed T9		1	Hi-Hat Closed T8		1	Hi-Hat Closed T9		1				Hi-Hat Closed Power		1
43	G1	G3	Tom T9 2			Tom T9 2			Tom T9 2						Tom Power 2		
44	G#1	G#3	Hi-Hat Pedal T9		1	Hi-Hat Pedal T9		1	Hi-Hat Pedal T9		1				Hi-Hat Pedal Power		1
45	A1	A3	Tom T9 3			Tom T9 3			Tom T9 3						Tom Power 3		
46	A#1	A#3	Hi-Hat Open T9		1	Hi-Hat Open T9		1	Hi-Hat Open T9		1				Hi-Hat Open Power		1
47	B1	B3	Tom T9 4			Tom T9 4			Tom T9 4						Tom Power 4		
48	C2	C4	Tom T9 5			Tom T9 5			Tom T9 5						Tom Power 5		
49	C#2	C#4	Crash Cymbal T9			Crash Cymbal T9			Crash Cymbal T9						Crash Cymbal Acoustic 1		
50	D2	D4	Tom T9 6			Tom T9 6			Conga T8 1						Tom Power 6		
51	D#2	D#4	Ride Cymbal T9			Ride Cymbal T9			Ride Cymbal T9						Ride Cymbal Acoustic 1		
52	E2	E4	China Cymbal 2			Crash Cymbal 4			Conga T8 2						China Cymbal Acoustic		
53	F2	F4	Ride Cymbal Cup 2			Ride Cymbal Cup 2			Analog Click						Ride Cymbal Cup Acoustic		
54	F#2	F#4	Tambourine RX5			Tambourine Hit			Claves T8 1								
55	G2	G4	Splash Cymbal 2			Splash Cymbal 2			Maracas T8						Splash Cymbal Acoustic		
56	G#2	G#4	Cowbell 1			Cowbell 1			Tambourine Analog CR								
57	A2	A4	Crash Cymbal 4						Analog Shaker						Crash Cymbal Acoustic 2		
58	A#2	A#4	Cowbell T8			Cowbell T8			Cowbell T8								
59	B2	B4	Ride Cymbal 3			Ride Cymbal 3			Cowbell Analog CR						Ride Cymbal Acoustic 2		
60	C3	C5	Conga T8 5			Bongo H Open One Finger			Snare T8 1								
61	C#3	C#5	Conga T8 4			Bongo L Open Three Finger			Snare T8 2								
62	D3	D5	Conga Tip			Conga H Tip			Snare T8 3								
63	D#3	D#5	Conga Open Slap			Conga H Slap Open			Snare Analog CR								
64	E3	E5	Conga Open			Conga H Open 2			Snare Jungle 1								
65	F3	F5							Snare Drum&Bass 2								
66	F#3	F#5							Snare Hip 1								
67	G3	G5	Analog Click						Snare R&B 1								
68	G#3	G#5	Conga T8 1						Snare R&B 2								
69	A3	A5							Snare Hip 1								
70	A#3	A#5	Maracas Slur 2			Maracas Slur 2			Snare Wood								
71	B3	B5	Fx Gun 2	●		Vox Drum L			Snare Timbre								
72	C4	C6	Fx Gun 1	●		Vox Drum H			Hi-Hat Closed T8 1		5						
73	C#4	C#6	Scratch H 3	●					Hi-Hat Open T8 1		5						
74	D4	D6	Scratch Down	●					Hi-Hat Closed T8 2		6						
75	D#4	D#6	Hi Q 3						Hi-Hat Open T8 2		6						
76	E4	E6	Hi Q 1						Hi-Hat Pedal Acoustic		7						
77	F4	F6	Hi Q 2						Hi-Hat Closed Acoustic		7						
78	F#4	F#6	Scratch H 2			Cuica H			Hi-Hat Open Acoustic		7						
79	G4	G6	Scratch L 2			Cuica L			Hi-Hat Closed Lo-Fi		2						
80	G#4	G#6							Hi-Hat Open Lo-Fi		2						
81	A4	A6							Hi-Hat Closed Syn		8						
82	A#4	A#6	Analog Shaker			Analog Shaker			Hi-Hat Open Syn		8						
83	B4	B6							Analog Shaker 2								
84	C5	C7	Wind Chime			Wind Chime			Tambourine RX5 2						Wind Chime		
85	C#5	(C#7)	Snare Piccolo			Snare Break Roll			Tambourine 1 Hit								
86	D5	(D7)	Snare T8 7			Noise Burst			Electric Cowbell								
87	D#5	(D#7)	SnareRockRollDist			Vox Bell			Conga T8 3								
88	E5	(E7)	Snare Brush Mute			Snare R&B 1			ElectricTriangle								
89	F5	(F7)	Kick Blip Hard			Vox Alk			Claves T8 2								
90	F#5	(F#7)	Snare Jungle 1			Udu High			Analog Shaker 3								
91	G5	(G7)	Kick Sustain			Filter Kick			Electric Clap 1								

Same as StandardKit 1

*1 Key Off: Keys marked "●" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

No Sound

Kit Name			Power Kit 2			Acoustic Kit			Rock Kit			Real Drums		
MSB-LSB-PC#			127-0-89			127-0-90			127-0-91			127-0-92		
Note#	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1												
14	D-1	D1												
15	D#-1	D#1												
16	E-1	E1												
17	F-1	F1												
18	F#-1	F#1												
19	G-1	G1												
20	G#-1	G#1												
21	A-1	A1												
22	A#-1	A#1												
23	B-1	B1												
24	C0	C2												
25	C#0	C#2												
26	D0	D2										Brush Tap Swirl	●	
27	D#0	D#2												
28	E0	E2												
29	F0	F2				Snare Roll Acoustic	●		Snare Roll Rock	●		Snare Roll Rock	●	
30	F#0	F#2												
31	G0	G2	Snare Soft Power 2			Snare Soft Acoustic			Snare Soft Rock			Snare Tight		
32	G#0	G#2												
33	A0	A2	Kick Ambient+			Kick Soft Acoustic			Kick Soft Rock			Kick Genuine		
34	A#0	A#2	Open Rim Power 2			Rim Acoustic			Rim Rock			Rim Real		
35	B0	B2	Kick Power Open			Kick Mute Acoustic			Kick Rock Heavy			Kick Real 1		
36	C1	C3	Kick Power Mute			Kick Open Acoustic			Kick Rock			Kick Real 2		
37	C#1	C#3	Side Stick Power			Stick Acoustic			Stick Rock			Stick Real		
38	D1	D3	Snare Power 2			Snare Acoustic			Snare Rock			Snare Real 1		
39	D#1	D#3	Hand Clap Power			Hand Clap Power			Hand Clap Power			Clap Power		
40	E1	E3	Snare Loose			Snare Rough Acoustic			Snare Dry Rock			Snare Real 2		
41	F1	F3	Tom Power 1			Tom Acoustic 1			Tom Rock 1			Tom Real 1		
42	F#1	F#3	Hi-Hat Closed Power+Edge		1	Hi-Hat Closed Acoustic		1	Hi-Hat Closed Rock		1	Hi-Hat Closed Real		1
43	G1	G3	Tom Power 2			Tom Acoustic 2			Tom Rock 2			Tom Real 2		
44	G#1	G#3	Hi-Hat Pedal Power		1	Hi-Hat Pedal Acoustic		1	Hi-Hat Pedal Rock		1	Hi-Hat Pedal Real		1
45	A1	A3	Tom Power 3			Tom Acoustic 3			Tom Rock 3			Tom Real 3		
46	A#1	A#3	Hi-Hat Open Power		1	Hi-Hat Open Acoustic		1	Hi-Hat Open Rock		1	Hi-Hat Open Real		1
47	B1	B3	Tom Power 4			Tom Acoustic 4			Tom Rock 4			Tom Real 4		
48	C2	C4	Tom Power 5			Tom Acoustic 5			Tom Rock 5			Tom Real 5		
49	C#2	C#4	Crash Cymbal Acoustic 1			Crash Cymbal Acoustic 1			Crash Cymbal Acoustic 1			Crash Cymbal Real 1		
50	D2	D4	Tom Power 6			Tom Acoustic 6			Tom Rock 6			Tom Real 6		
51	D#2	D#4	Ride Cymbal Acoustic 1			Ride Cymbal Acoustic 1			Ride Cymbal Acoustic 1			Ride Cymbal Real 1		
52	E2	E4	China Cymbal Acoustic			China Cymbal Acoustic			China Cymbal Acoustic			China Cymbal Real		
53	F2	F4	Ride Cymbal Cup Acoustic			Ride Cymbal Cup Acoustic			Ride Cymbal Cup Acoustic			Ride Cymbal Cup Real		
54	F#2	F#4												
55	G2	G4	Splash Cymbal Acoustic			Splash Cymbal Acoustic			Splash Cymbal Acoustic			Splash Cymbal Real		
56	G#2	G#4												
57	A2	A4	Crash Cymbal Acoustic 2			Crash Cymbal Acoustic 2			Crash Cymbal Acoustic 2			Crash Cymbal Real 2		
58	A#2	A#4												
59	B2	B4	Ride Cymbal Acoustic 2			Ride Cymbal Acoustic 2			Ride Cymbal Acoustic 2			Ride Cymbal Real 2		
60	C3	C5												
61	C#3	C#5												
62	D3	D5												
63	D#3	D#5												
64	E3	E5												
65	F3	F5												
66	F#3	F#5												
67	G3	G5												
68	G#3	G#5												
69	A3	A5												
70	A#3	A#5												
71	B3	B5												
72	C4	C6												
73	C#4	C#6												
74	D4	D6												
75	D#4	D#6												
76	E4	E6												
77	F4	F6												
78	F#4	F#6												
79	G4	G6												
80	G#4	G#6												
81	A4	A6												
82	A#4	A#6												
83	B4	B6												
84	C5	C7	Wind Chime			Wind Chime			Wind Chime			Wind Chime		
85	C#5	(C#7)												
86	D5	(D7)												
87	D#5	(D#7)												
88	E5	(E7)												
89	F5	(F7)												
90	F#5	(F#7)												
91	G5	(G7)												

Same as StandardKit 1

*1 Key Off: Keys marked "●" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

No Sound

CSP-170/CSP-150 Data List / Daten-Liste / Liste des données / Lista de datos

Kit Name			SFX Kit 1			SFX Kit 2			New SFX Kit 1			New SFX Kit 2			Noises Kit		
MSB-LSB-PC#			126-0-1			126-0-2			126-0-3			126-0-4			126-0-9		
Note#	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1															
14	D-1	D1															
15	D#-1	D#1															
16	E-1	E1															
17	F-1	F1															
18	F#-1	F#1															
19	G-1	G1															
20	G#-1	G#1															
21	A-1	A1															
22	A#-1	A#1															
23	B-1	B1															
24	C0	C2															
25	C#0	C#2															
26	D0	D2															
27	D#0	D#2															
28	E0	E2															
29	F0	F2															
30	F#0	F#2															
31	G0	G2															
32	G#0	G#2															
33	A0	A2															
34	A#0	A#2															
35	B0	B2															
36	C1	C3	Cutting Noise 1	•		Phone Call	•		Cutting Noise 1	•		Phone Call 2	•		White Noise	•	
37	C#1	C#3	Cutting Noise 2	•		Door Squeak	•		Cutting Noise 2	•		Door Squeak 2	•		Pink Noise	•	
38	D1	D3				Door Slam	•					Door Slam 2	•		White Noise Down 1	•	
39	D#1	D#3	String Slap	•		Scratch Cut	•		String Slap	•		Scratch Cut	•		Pink Noise Down 1	•	
40	E1	E3				Scratch Split	•					Scratch Split	•		White Noise Down 2	•	
41	F1	F3				Wind Chime	•					Wind Chime	•		Pink Noise Down 2	•	
42	F#1	F#3				Telephone Ring	•					Telephone Ring 2	•		White Noise Up 2	•	
43	G1	G3													White Noise Up 1	•	
44	G#1	G#3													Pink Noise Up	•	
45	A1	A3													White Noise Up Release	•	
46	A#1	A#3													Pink Noise Up Release	•	
47	B1	B3													White Noise Up LFO	•	
48	C2	C4													Pink Noise Up LFO	•	
49	C#2	C#4															
50	D2	D4															
51	D#2	D#4															
52	E2	E4	Flute Key Click	•		Car Engine Ignition	•		Flute Key Click	•		Car Engine Ignition	•				
53	F2	F4				Car Tires Squeal	•					Car Tires Squeal	•				
54	F#2	F#4				Car Passing	•					Car Passing	•				
55	G2	G4				Car Crash	•					Car Crash	•				
56	G#2	G#4				Siren	•					Siren 2	•				
57	A2	A4				Train	•					Train 2	•				
58	A#2	A#4				Jet Plane	•					Jet Plane 2	•				
59	B2	B4				Starship	•					Starship	•				
60	C3	C5				Burst	•					Burst	•				
61	C#3	C#5				Roller Coaster	•					Roller Coaster	•				
62	D3	D5				Submarine	•					Submarine	•				
63	D#3	D#5															
64	E3	E5															
65	F3	F5															
66	F#3	F#5															
67	G3	G5															
68	G#3	G#5	Shower	•		Laugh	•		Shower 2	•		Laugh	•				
69	A3	A5	Thunder	•		Scream	•		Thunder 2	•		Scream 2	•				
70	A#3	A#5	Wind	•		Punch	•		Wind 2	•		Punch 2	•				
71	B3	B5	Stream	•		Heart Beat	•		Stream 2	•		Heart Beat	•				
72	C4	C6	Bubble	•		Foot Steps	•		Bubble 2	•		Foot Steps 2	•				
73	C#4	C#6	Feed	•					Feed	•							
74	D4	D6															
75	D#4	D#6															
76	E4	E6															
77	F4	F6															
78	F#4	F#6															
79	G4	G6															
80	G#4	G#6															
81	A4	A6															
82	A#4	A#6															
83	B4	B6															
84	C5	C7	Dog	•		Machine Gun	•		Dog	•		Machine Gun 2	•				
85	C#5	(C#7)	Horse	•		Laser Gun	•		Horse	•		Laser Gun	•				
86	D5	(D7)	Bird Tweet	•		Explosion	•		Bird Tweet	•		Explosion 2	•				
87	D#5	(D#7)				Firework	•					Firework	•				
88	E5	(E7)															
89	F5	(F7)															
90	F#5	(F#7)	Ghost	•					Ghost	•							
91	G5	(G7)	Maou	•					Maou	•							

No Sound

*1 Key Off: Keys marked "•" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

Kit Name			Arabic Kit			Cuban Kit			Pop Latin Kit			Turkish Kit		
MSB-LSB-PC#			126-0-36			126-0-41			126-0-44			126-0-68		
Note#	MIDI Note	Keyboard Note	Full Name	Key Off (*1)	Alt Grp (*2)	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp	Full Name	Key Off	Alt Grp
13	C#-1	C#1							Cajon Low			Asma Davul Left Side		
14	D-1	D1							Cajon Slap			Asma Davul Right Side		
15	D#-1	D#1							Cajon Tip			Asma Davul Side Body		
16	E-1	E1							Claves High			Asma Davul Both Sides		
17	F-1	F1							Claves Low			Koltuk Davul Flam		
18	F#-1	F#1							Hand Clap			Koltuk Davul Teke		
19	G-1	G1										Koltuk Davul Tek		
20	G#-1	G#1							Finger Snap			Koltuk Davul Dum		
21	A-1	A1							Castanet			Bendir Teke Flam		
22	A#-1	A#1							Conga H Tip			Bendir Teke Dead		
23	B-1	B1							Conga H Heel			Bendir Tek Dead		
24	C0	C2	Nakarazan Dom						Conga H Open			Bendir Teke		
25	C#0	C#2	Cabasa						Conga H Mute			Bendir Tek		
26	D0	D2	Nakarazan Edge						Conga H Slap Open			Bendir Slap		2
27	D#0	D#2	Hager Dom						Conga H Slap			Bendir Dum		2
28	E0	E2	Hager Edge						Conga H Slap Mute			Zil Right Close		3
29	F0	F2	Bongo H						Conga L Tip			Zil Right Open		3
30	F#0	F#2	Bongo L						Conga L Heel			Zil Left Close		4
31	G0	G2	Conga H Mute						Conga L Open			Zil Left Open		4
32	G#0	G#2	Conga H Open						Conga L Mute			Tef Teke Flam		5
33	A0	A2	Conga L						Conga L Slap Open			Tef Tek Mute		5
34	A#0	A#2	Zagrouda H						Conga L Slap			Tef Teke Damped		
35	B0	B2	Zagrouda L	●					Conga L Slide	●		Tef Tek Mute Medium		
36	C1	C3	Kick Soft						Bongo H Open One Finger			Tef Dum Mute		
37	C#1	C#3	Side Stick						Bongo H Open Three Finger			Tef Cymbal		9
38	D1	D3	Snare Soft						Bongo H Rim			Tef Cymbal Mute		9
39	D#1	D#3	Arabic Hand Clap						Bongo H Tip			Tef Tremolo	●	
40	E1	E3	Snare Drum						Bongo H Heel			Tef Shake 1		
41	F1	F3	Floor Tom L						Bongo H Slap			Tef Shake 2		
42	F#1	F#3	Hi-Hat Closed		1				Bongo L Open One Finger			Tef Tek Flam		
43	G1	G3	Floor Tom H						Bongo L Open Three Finger			Tef Full Open		
44	G#1	G#3	Hi-Hat Pedal		1				Bongo L Rim			Tef Teke Open Short		
45	A1	A3	Low Tom						Bongo L Tip			Tef Tek Open Short		
46	A#1	A#3	Hi-Hat Open		1				Bongo L Heel			Tef Tek Open		
47	B1	B3	Mid Tom L						Bongo L Slap			Tef Dum Open		
48	C2	C4	Mid Tom H						Timbale L			Hollo Finger Dead		
49	C#2	C#4	Crash Cymbal 1									Hollo Slap		
50	D2	D4	High Tom									Hollo Dum		
51	D#2	D#4	Ride Cymbal 1									Kasik		1
52	E2	E4	Crash Cymbal 2									Kasik Flam		1
53	F2	F4	Duhulla Dom					Paila L				Bass Darbuka Tek Dead		
54	F#2	F#4	Tambourine					Timbale H				Bass Darbuka Tek Flam		
55	G2	G4	Duhulla Tak									Bass Darbuka Teke		
56	G#2	G#4	Cowbell									Bass Darbuka Teke Other Finger		
57	A2	A4	Duhulla Sak									Bass Darbuka Teke Index Finger		
58	A#2	A#4	Claves									Bass Darbuka Tek		
59	B2	B4	Doff Dom					Paila H				Bass Darbuka Slap		
60	C3	C5	Katam Dom					Cowbell Top				Bass Darbuka Slap Medium		7
61	C#3	C#5	Katam Tak						Cowbell 1			Bass Darbuka Dum		7
62	D3	D5	Katam Sak						Cowbell 2			Darbuka Roll Close	●	6
63	D#3	D#5	Katam Tak						Cowbell 3			Darbuka Roll Open	●	6
64	E3	E5	Doff Tak					Guiro Short				Darbuka Teke Damped Flam		
65	F3	F5	Tabla Dom					Guiro Long	●			Darbuka Tek Dead		
66	F#3	F#5	Tabla Tak 1						Metal Guiro Short			Darbuka Tek Damped		
67	G3	G5	Tabla Tik						Metal Guiro Long	●		Darbuka Teke Open Flam		
68	G#3	G#5	Tabla Tak 2					Tambourine				Darbuka Teke Open		
69	A3	A5	Tabla Sak						Tambourin Open			Darbuka Teke Other Finger 1		
70	A#3	A#5	Tabla Roll Edge	●					Tambourin Mute			Darbuka Teke Index Finger 1		
71	B3	B5	Tabla Flam						Tambourin Tip			Darbuka Tek 1		
72	C4	C6	Sagat 1					Maracas				Darbuka Teke Other Finger 2		
73	C#4	C#6	Tabel Dom					Shaker				Darbuka Teke Index Finger 2		
74	D4	D6	Sagat 3					Cabasa				Darbuka Tek 2		
75	D#4	D#6	Tabel Tak						Cuica Mute			Darbuka Slap Medium		
76	E4	E6	Sagat 2						Cuica Open			Darbuka Slap		8
77	F4	F6	Rik Dom						Cowbell High 1			Darbuka Dum		8
78	F#4	F#6	Rik Tak 2						Cowbell High 2			Bongo Tek Roll	●	
79	G4	G6	Rik Finger 1						Shekere			Bongo Flam		
80	G#4	G#6	Rik Tak 1						Shekere Tone			Bongo Tek Flam		
81	A4	A6	Rik Finger 2						Triangle Mute		1	Bongo Tek		
82	A#4	A#6	Rik Brass Tremolo	●					Triangle Open		1	Bongo Slap		
83	B4	B6	Rik Sak									Bongo Flam Hi		
84	C5	C7	Rik Tik						Wind Chime			Bongo Dum		
85	C#5	(C#7)												
86	D5	(D7)												
87	D#5	(D#7)												
88	E5	(E7)												
89	F5	(F7)												
90	F#5	(F#7)												
91	G5	(G7)												

No Sound

*1 Key Off: Keys marked "●" stop sounding the instant they are released.

*2 Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

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

Category	Sub Category	Style Name	
Pop & Rock	Pop	Contemp Gtr Pop	
		Standard 8Beat	
		West Coast Beat	
		Cool 8Beat	
		80s American Pop	
		Live 8Beat	
		80s Guitar Pop	
		Classic 8Beat	
		80s Pop	
		Chart Piano Shuffle	
		Chart Rock Shuffle	
		80s Boy Band	
		Chart Guitar Pop	
		90s Guitar Pop	
		Easy Pop	
		Chart Pop	
		Straight 8 Pop	
		Scand Pop Shuffle	
		Uptempo 8Beat	
		Brit Pop	
		8Beat Modern	
		Brit Pop Swing	
		West Coast Pop	
		8Beat Guitar Pop	
		Classic 16Beat	
		8Beat	
		Rock	Standard Rock
			80s Power Rock
			Contemp Rock
			80s Pop Rock
	Funk Pop Rock		
	80s Synth Rock		
	Acoustic Rock		
	Brit Rock Pop		
	Soft Rock		
	Slow Rock		
	70s Pop&Rock		70s Piano Hit
			70s Piano Rock
			70s Pop Duo
			70s Glam Piano
		70s Swing Piano	
		Glam Piano Rock	
		70s 8Beat	
		70s Rock	
		Vintage Guitar Pop	
		60s Pop&Rock	60s Big Hit
	60s Rising Pop		
60s Guitar Pop			
60s Vintage Pop			
60s Chart Swing			
60s Piano Pop			
60s Rock & Roll			
60s Pop Rock			
Bubblegum Pop			
60s Vintage Rock			
60s 8Beat			
50s Rock&Roll	Vintage R&R		
	Oldies R&R		
	Rock & Roll 1		
	Rock & Roll 2		
	Skiffle		
	Piano R&R		
	Rock & Roll Shfl		
Pop&Rock Ballad	Easy 8Beat 1		
	Easy 8Beat 2		
	6-8 Soul Ballad		
	6-8 Ballad Rock		
	90s Piano Ballad		
Standard Piano Bld			

Category	Sub Category	Style Name	
Pop & Rock	Pop&Rock Ballad	Smooth Ballad	
		70s Piano Pop Bld	
		Mod 6-8 Piano Bld	
		Orch Rock Ballad	
		Pop Ballad	
		Pop Guitar Ballad	
		Epic Ballad	
		Modern Pop Ballad	
		70s Chart Ballad	
		80s Movie Ballad	
		80s Synth Piano	
		80s Smooth Ballad	
		90s Cool Ballad	
		80s Analog Ballad	
		90s Rock Ballad	
		80s EP Ballad	
		Power Ballad 1	
		Power Ballad 2	
		8Beat Ballad 1	
		8Beat Ballad 2	
		MOR 16Beat	
		Acoustic Gtr Ballad	
		Easy Acoustic Bld	
		Organ Ballad	
		Pop Piano Ballad	
		EP Ballad	
		16Beat Pop	
		Contemp Rock Bld	
		16Beat Ballad	
		Modern 16Bt Ballad	
	Contemp Pop Bld		
	Acoustic Ballad		
	6-8 Modern		
	Love Song		
	Pop Waltz		
	Slow Orch Ballad		
	Piano Ballad		
	8Beat Piano Ballad		
	Worship	Worship Slow	
		Worship 6-8	
		Worship Medium	
		Worship Fast	
		Worship Power Bld	
	Soul & R&B	Soul	Funky Shuffle
			Detroit Pop 1
			Detroit Pop 2
70s Cool Shuffle			
70s Chart Soul			
Motor City			
Frankly Soul			
Live Soul Band			
Kool Funk			
Soul			
Kool Shuffle			
Soul Shuffle			
Lovely Shuffle			
Soul Beat			
Modern R&B		Modern Hip Hop	
		R&B Soul Ballad	
		Euro Hip Hop	
		New R&B Ballad	
		Soul R&B	
		Classic Hip Hop	
Dance	Dance	Chart R&B	
		New R&B	
		Analog Ballad	
		Global DJ's	
		Clubdance 1	
		Clubdance 2	

Category	Sub Category	Style Name	
Dance	Dance	Ibiza 2010	
		Club House	
		Dream Dance	
		Electronica	
		Retro Pop	
		Funky House	
		Dancefloor	
		Disco	Funk Disco
			70s Disco 1
			70s Disco 2
			80s Disco
			90s Disco
			Disco Philly
			70s Disco Funk
			Disco House
			Saturday Night
			Synth Pop
	Disco Fox Rock		
	80s Synth Disco		
	Movie Disco		
	Disco Chocolate		
	Chill Out		Chillout 1
		Chillout 2	
		Coudy Bay	
		Night Walk	
		Chillout Cafe	
		Play 4 Sofa	
		Ethereal Synth	
	Angel Sun		
	Trance	Celtic Trance	
		6-8 Trance	
		Euro Trance	
	Country & Blues	Modern Country	Easy Country Pop
			70s Country Pop
			Country Blues
			70s Chart Country
			Modern Pickin'
			New Country
			Country Strum
			Modern Bluegrass
			Country Hits
			Country Brothers
			Country 8Beat
			Modern Cntry Pop
			Country Pop
			Country Rock
			Hully Gully
Trad Country		70s Country Swing	
		Country Swing	
		Pickin' Swing	
		Easy Country	
		Country Shuffle	
		Bluegrass	
		Country Sing-along	
		Hoedown	
		Standard Swing	
		Country 2-4	
		Country Two Step	
		Folk Pop	
Country Ballad	Slow Country Pop		
	Mod Country Bld 1		
	Mod Country Bld 2		
	Country Rock Bld		
	Country Waltz		
	Country Pop Ballad		
Blues	The Blues		
	Modern Shuffle		
	Slow Blues		
	Shuffle Blues		

Category	Sub Category	Style Name	
Country & Blues	Blues	6-8 Rock	
		Blueberry Blues	
		6-8 Soul	
		Blues Rock	
		Piano Blues 1	
		Piano Blues 2	
	Gospel	Gospel Funk	
	Gospel Brothers		
	Gospel Sisters		
	Gospel Swing		
	Southern Gospel		
Standards & Jazz	Jazz Combo	Cool Jazz Club	
		Jazz Guitar Club	
		Slow Jazz Ballad	
		Instrumental Jazz	
		Swing Medium	
		Fast Jazz	
		Trad Piano Jazz	
		Acoustic Jazz	
		Trad Piano Ballad	
		Cool Piano Jazz	
		French Jazz	
		Modern Jazz Bld 1	
		Modern Jazz Bld 2	
		Organ Combo	
		Piano Boogie	
		Jazz Club	
		Bebop	
		Boogie Woogie	
		Piano Swing 1	
		Piano Swing 2	
		Jazz Ballad	
		2Beat Swing	
		Big Band	Big Band Jazz
			Orch Big Band 1
			Orch Big Band 2
			Modern Big Band
			Mod Big Band Shfl
			Big Band Fast 1
	Big Band Fast 2		
	Mod Big Band Bld		
	Classic Big Band		
	Afro Cuban		
	Jump Jive		
	40s Big Band		
	Moonlight Ballad		
	Orchestra Swing		Easy Swing
			Orchestra Swing 1
			Orchestra Swing 2
			MOR Swing
			Easy Listening
		Cool Jazz Ballad	
		Midnight Swing	
		Organ Groove	
	Jazz Waltz	Cool Jazz Waltz	
		Easy Waltz	
		Jazz Waltz Slow	
		MOR Waltz	
		Jazz Waltz Medium	
		Five-Four	
		Jazz Waltz	
Jazz Waltz Fast 1			
Jazz Waltz Fast 2			
Dixie&Trad Jazz	Ragtime 1		
	Ragtime 2		
	Piano Rag 1		
	Piano Rag 2		
	Dixieland 1		
	Dixieland 2		

Category	Sub Category	Style Name
Standards & Jazz	Dixie&Trad Jazz	Stride 1
		Stride 2
		Charleston
		Saloon Piano
	Fusion	Jazz Pop
		Fusion Shuffle
Entertainment	Movie&Show	Movie Soundtrack
		Mod Broadway Bld
		Broadway Ballad
		On Broadway
		Movie Swing 1
		Movie Swing 2
		Cartoon Ballad
		Animation Ballad
		Tap Dance Swing
		Sci-fi March
		70s TV Theme
		Blockbuster
		Big Screen Classic
		Secret Service
		Movie Ballad
		Wild West
		Showtune
		Choir Soundtrack
	Animation Fantasy	
	Musical	
	Easy Listening	Classic Piano Bld
		Easy Ballad
		Romantic Ballad
		Guitar Serenade
		Romantic Waltz
		Piano Orch Ballad
		6-8 Slow Rock
		6-8 Orchestral
		12-8 Ballad
		Tijuana
French 50s		
Pub Piano		
Pop Classics		
Ballroom	Viennese Waltz	
	Quickstep	
	English Waltz	
	Tango	
	Slow Waltz	
	Pasodoble	
	Slowfox	
	Samba	
	Foxtrot	
	Rumba	
	Cha Cha Cha	
	Standard Waltz	
	Jive	
	Standard Rumba	
	Swingfox	
	Piano Rumba	
	Beguine	
	Piano Cha Cha	
Twist		
Piano Beguine		
Swing Waltz		
9-8 Waltz		
Organ	Euro Pop Organ	
	Organ Bossa	
	Organ Samba	
	Organ Cha Cha	
	Organ Swing	
	Organ Quickstep	
Organ Rumba		

Category	Sub Category	Style Name	
Entertainment	Holiday	Christmas Swing	
		Christmas Ballad	
		Christmas Shuffle	
		Christmas Waltz	
		Schlager	Schlager Fever
			Schlager Palace
			Party Arena
			Mallorca Party
			Apres Ski Hit
			Alpen Schlager
	Disco Fox		
	Soft Schlager		
	German Rock		
	Schlager Fox		
	Schlager Italia		
	Schlager Shuffle		
	70s French Hit		
	Schlager Waltz		
	Alp Ballad 1		
	Alp Ballad 2		
	Schlager Pop		
	Schlager Beat		
	Schlager Samba		
	Schlager Alp		
	Schlager Polka		
	Schlager Rumba		
	Schlager Rock		
	Schlager 6-8		
	Scand Bugg		
	Scand Shuffle		
Scand Slow Rock			
Party Polka			
8Beat Adria			
Polka Pop			
Scand Country 1			
Scand Country 2			
Latin & World	Brazil	Brazilian Bossa	
		Cool Bossa	
		Bossa Slow	
		Bossa Fast	
		Slow Bar Bossa	
		Samba Fast	
		Orchestral Bossa	
		Brazilian Samba	
		Bossa Nova	
		Piano Samba	
	Piano Bossa		
	Cuba	Rumba Bolero	
		Salsa	
		Guajira	
		Danzon	
		Guitar Rumba	
		Cuban Son	
		Mexico	Mariachi Waltz
			Norteno
			Bolero Lento
Caribbean	Sheriff Reggae		
	Merengue		
	Happy Reggae		
	Cumbia		
	Bomba		
	Bachata		
Zouk			
Rumba Island			
European	Flamenco		
	Sirtaki		
	Pop Flamenco		
	Tarantella		
	Spanish Paso		

Category	Sub Category	Style Name
Latin & World	European	Italian Mazurka
		Rumba Flamenco
	Latin Pop	Latin Party Pop
		Pop Bossa
		Pop Latin
		Pop Latin Ballad
		Latin Disco
		Rock Cha Cha
	Celtic	Jig
		Celtic Dance
		Reel
		Irish Dance
		Irish Hymn 1
		Irish Hymn 2
	World	Turkish Euro
		J-Pop Hit 1
		J-Pop Hit 2
		Oriental Pop
		Hawaiian
	Classic	Choral Symphony
		Ethereal Hymn
		Romantic Ballet
		Ethereal Voices
		Green Fantasia
		Baroque Air
		String Adagio
		Moonlight 6-8
		Nocturne
		Learning 2-4
		Orchestral March
		Orchestral Bolero
		Traditional 1
		Traditional 2
		Traditional 3
		Arpeggio 1
		Arpeggio 2
		Arpeggio 3
	Trad Waltz	Highland Waltz
		Scand Waltz
		French Waltz
		Ober Walzer
		Italian Waltz
		German Waltz
		French Musette
		Bohemian Waltz
		Waltz
		Piano Slow Waltz
	March&Polka	US March
		Ober Polka
		German March
		Italian Polka
		6-8 March
		Zither Polka
Piano March 1		
Piano March 2		
4 Stroke		
6-8 Piano March		

Song List / Song-Liste / Liste des morceaux / Lista de canciones

50 Popular

Title	Genre	Composer	Songwriter	Lyrics
Let It Go	Pop	Kristen Anderson-Lopez & Robert Lopez	Kristen Anderson-Lopez & Robert Lopez	○
Someone Like You	Pop	Adele Adkins & Dan Wilson	Adele Adkins & Dan Wilson	○
Moves Like Jagger	Pop	Adam Levine, Benjamin Levin, Ammar Malik & Johan Schuster	Adam Levine, Benjamin Levin, Ammar Malik & Johan Schuster	○
Poker Face	Pop	Stefani Germanotta & RedOne	Stefani Germanotta & RedOne	○
Hallelujah	Pop	Leonard Cohen	Leonard Cohen	○
Clocks	Pop	Guy Berryman, Jon Buckland, Will Champion & Chris Martin	Guy Berryman, Jon Buckland, Will Champion & Chris Martin	○
My Heart Will Go On (Love Theme From 'Titanic')	Pop	James Horner	Will Jennings	○
Wonderwall	Pop	Noel Gallagher	Noel Gallagher	○
Back For Good	Pop	Gary Barlow	Gary Barlow	○
Fields Of Gold	Pop	Sting	Sting	○
It Must Have Been Love	Pop	Per Gessle	Per Gessle	○
I Will Always Love You	Pop	Dolly Parton	Dolly Parton	○
Eternal Flame	Pop	Billy Steinberg, Tom Kelly & Susanna Hoffs	Billy Steinberg, Tom Kelly & Susanna Hoffs	○
Final Countdown	Pop	Joey Tempest	Joey Tempest	○
Billie Jean	Pop	Michael Jackson	Michael Jackson	○
Every Breath You Take	Pop	Sting	Sting	○
Up Where We Belong	Pop	Buffy Sainte-Marie & Jack Nitzsche	Will Jennings	○
Just The Way You Are	Pop	Billy Joel	Billy Joel	○
Wonderful Tonight	Pop	Eric Clapton	Eric Clapton	○
Dancing Queen	Pop	Benny Andersson, Bjorn Ulvaeus & Stig Anderson	Benny Andersson, Bjorn Ulvaeus & Stig Anderson	○
Candle In The Wind	Pop	Elton John & Bernie Taupin	Elton John & Bernie Taupin	○
Hey Jude	Pop	John Lennon & Paul McCartney	John Lennon & Paul McCartney	○
Can't Take My Eyes Off Of You	Pop	Bob Crewe & Bob Gaudio	Bob Crewe & Bob Gaudio	○
The House Of The Rising Sun	Pop	Alan Price	Alan Price	○
You've Lost That Lovin' Feelin'	Pop	Barry Mann, Cynthia Weil & Phil Spector	Barry Mann, Cynthia Weil & Phil Spector	○
Unchained Melody	Pop	Alex North	Hy Zaret	○
La Bamba	Pop	Ritchie Valens	Ritchie Valens	○
Moon River	Standard	Henry Mancini	Johnny Mercer	○
What A Wonderful World	Standard	George David Weiss & Bob Thiele	George David Weiss & Bob Thiele	○
The Girl From Ipanema (Garôta De Ipanema)	Standard	Antonio Carlos Jobim	Norman Gimbel	○
Spanish Eyes	Standard	Bert Kaempfert	Charles Singleton & Eddie Snyder	○
Autumn Leaves	Standard	Joseph Kosma	Johnny Mercer	○
Let There Be Love	Standard	Lionel Rand	Ian Grant	○
All The Things You Are	Standard	Jerome Kern	Oscar Hammerstein II	○
In The Mood	Standard	Joe Garland	—	○
Amazing Grace	Folk	Traditional	Traditional	○
Greensleeves	Folk	Traditional	Traditional	○
Scarborough Fair	Folk	Traditional	Traditional	○
Danny Boy	Folk	Traditional	Traditional	○
Whiskey In The Jar	Folk	Traditional	Traditional	○
All I Want For Christmas Is You	Holiday & Events	Mariah Carey & Walter Afanasieff	Mariah Carey & Walter Afanasieff	○
White Christmas	Holiday & Events	Irving Berlin	Irving Berlin	○
Joy To The World	Holiday & Events	Traditional	Traditional	○
Happy Birthday To You	Holiday & Events	Traditional	Traditional	○
Auld Lang Syne	Holiday & Events	Traditional	Traditional	○
Old MacDonald Had A Farm	Children's Music	Traditional	Traditional	○
Mary Had A Little Lamb	Children's Music	Traditional	Traditional	○
Frere Jacques	Children's Music	Traditional	Traditional	○
Aura Lee	Children's Music	Traditional	Traditional	○
Yankee Doodle	Children's Music	Traditional	Traditional	○

50 Classics

Song Name	Composer
Canon D dur	J. Pachelbel
Air On the G Strings	J. S. Bach
Jesus, Joy of Man's Desiring	J. S. Bach
Twinkle, Twinkle, Little Star	Traditional
Piano Sonate op.31-2 "Tempest" 3rd mov.	L. v. Beethoven
Ode to Joy	L. v. Beethoven
Wiegenlied op.98-2	F. P. Schubert
Grande Valse Brillante	F. F. Chopin
Polonaise op.53 "Héroïque"	F. F. Chopin
La Campanella	F. Liszt
Salut d'amour op.12	E. Elgar
From the New World	A. Dvořák
Sicilienne	G. U. Fauré
Clair de lune	C. A. Debussy
Jupiter (The Planets)	G. Holst
Menuett (Eine kleine Nachtmusik K.525)	W. A. Mozart
Menuett G dur	L. v. Beethoven
Marcia alla Turca	L. v. Beethoven
Piano Concerto No.1 op.11 2nd mov.	F. F. Chopin
The Nutcracker Medley	P. I. Tchaikovsky
Prelude (Wohltemperierte Klavier I No.1)	J. S. Bach
Menuett G dur BWV Anh.114	J. S. Bach
Piano Sonate No.15 K.545 1st mov.	W. A. Mozart
Turkish March	W. A. Mozart
Piano Sonate op.13 "Pathétique" 2nd mov.	L. v. Beethoven
Für Elise	L. v. Beethoven
Piano Sonate op.27-2 "Mondschein" 1st mov.	L. v. Beethoven
Impromptu op.90-2	F. P. Schubert
Frühlingslied op.62-6	J. L. F. Mendelssohn
Fantaisie-Impromptu	F. F. Chopin
Etude op.10-3 "Chanson de l'adieu"	F. F. Chopin
Etude op.10-12 "Revolutionary"	F. F. Chopin
Valse op.64-1 "Petit chien"	F. F. Chopin
Nocturne op.9-2	F. F. Chopin
Nocturne KK4a-16/BI 49 [Posth.]	F. F. Chopin
Träumerei	R. Schumann
Barcarolle	P. I. Tchaikovsky
La prière d'une Vierge	T. Badarzewska
Liebesträume No.3	F. Liszt
Blumenlied	G. Lange
Humoresque	A. Dvořák
Arietta	E. H. Grieg
Tango (España)	I. Albéniz
The Entertainer	S. Joplin
Maple Leaf Rag	S. Joplin
La Fille aux Cheveux de Lin	C. A. Debussy
Arabesque No.1	C. A. Debussy
Cakewalk	C. A. Debussy
Je te veux	E. Satie
Gymnopédies No.1	E. Satie

Lesson

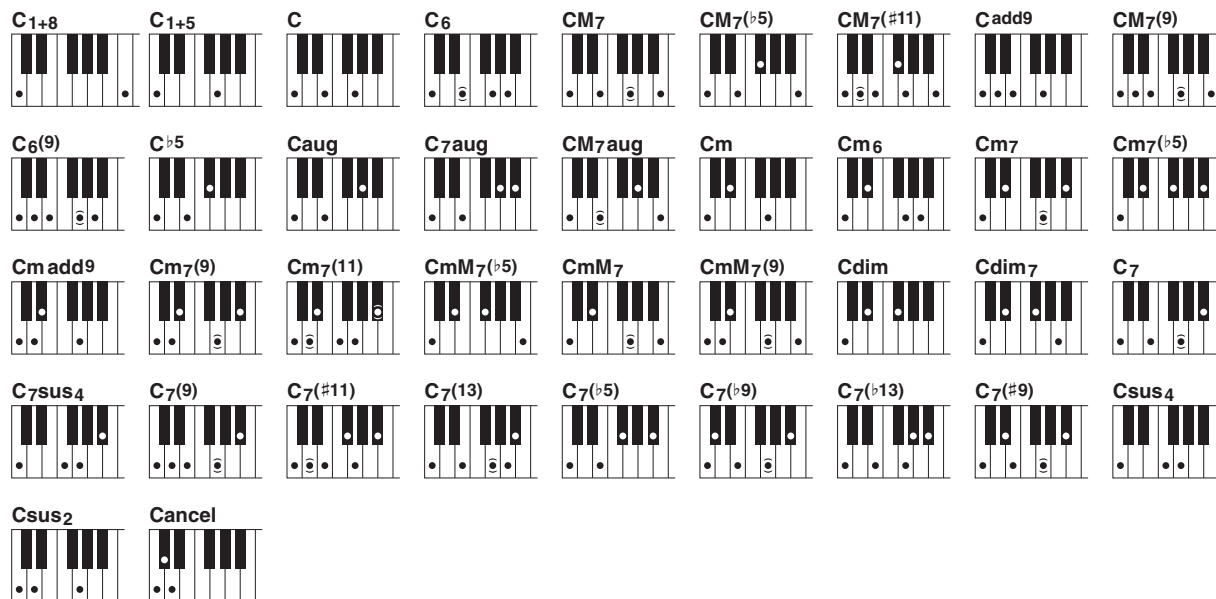
Album Title	Song Title	Album Title	Song Title	Album Title	Song Title	
Vorschule im Klavierspiel Op.101	Beyer 1 (3hands)	Vorschule im Klavierspiel Op.101	Beyer 68	100 Übungsstücke Op.139	Czerny100 4	
	Beyer 2 (3hands)		Beyer 69		Czerny100 5	
	Beyer 3 (4hands)		Beyer 70		Czerny100 6	
	Beyer 4 (4hands)		Beyer 71		Czerny100 7	
	Beyer 5 (4hands)		Beyer 72		Czerny100 8	
	Beyer 6 (4hands)		Beyer 73		Czerny100 9	
	Beyer 7 (4hands)		Beyer 74		Czerny100 10	
	Beyer 8 (4hands)		Beyer 75		Czerny100 11	
	Beyer 9 (4hands)		Beyer 76		Czerny100 12	
	Beyer 10 (4hands)		Beyer 77		Czerny100 13	
	Beyer 11 (4hands)		Beyer 78		Czerny100 14	
	Beyer 12		Beyer 79		Czerny100 15	
	Beyer 13		Beyer 80		Czerny100 16	
	Beyer 14		Beyer 81		Czerny100 17	
	Beyer 15		Beyer 82		Czerny100 18	
	Beyer 16		Beyer 83		Czerny100 19	
	Beyer 17		Beyer 84		Czerny100 20	
	Beyer 18		Beyer 85		Czerny100 21	
	Beyer 19		Beyer 86 (4hands)		Czerny100 22	
	Beyer 20		Beyer 87 (4hands)		Czerny100 23	
	Beyer 21		Beyer 88		Czerny100 24	
	Beyer 22		Beyer 89		Czerny100 25	
	Beyer 23		Beyer 90		Czerny100 26	
	Beyer 24		Beyer 91		Czerny100 27	
	Beyer 25		Beyer 92		Czerny100 28	
	Beyer 26		Beyer 93		Czerny100 29	
	Beyer 27		Beyer 94		Czerny100 30	
	Beyer 28		Beyer 95		Czerny100 31	
	Beyer 29		Beyer 96		Czerny100 32	
	Beyer 30		Beyer 97		Czerny100 33	
	Beyer 31		Beyer 98		Czerny100 34	
	Beyer 32 (4hands)		Beyer 99		Czerny100 35	
	Beyer 33 (4hands)		Beyer 100		Czerny100 36	
	Beyer 34 (4hands)		Beyer 101		Czerny100 37	
	Beyer 35		Beyer 102		Czerny100 38	
	Beyer 36		Beyer 103		Czerny100 39	
	Beyer 37		Beyer 104		Czerny100 40	
	Beyer 38		Beyer 105		Czerny100 41	
	Beyer 39		Beyer 106		Czerny100 42	
	Beyer 40		25 Etudes faciles et progressives Op.100		Czerny100 43	
	Beyer 41 (4hands)				1 La candeur	Czerny100 44
	Beyer 42 (4hands)				2 Arabesque	Czerny100 45
	Beyer 43 (4hands)				3 Pastorale	Czerny100 46
	Beyer 44 (4hands)				4 Petite réunion	Czerny100 47
	Beyer 45				5 Innocence	Czerny100 48
	Beyer 46				6 Progrès	Czerny100 49
	Beyer 47				7 Courant limpide	Czerny100 50
	Beyer 48				8 La gracieuse	Czerny100 51
	Beyer 49				9 La chasse	Czerny100 52
	Beyer 50				10 Tendre fleur	Czerny100 53
	Beyer 51				11 La bergersonnette	Czerny100 54
	Beyer 52				12 Adieu	Czerny100 55
	Beyer 53				13 Consolation	Czerny100 56
	Beyer 54				14 La styrienne	Czerny100 57
	Beyer 55				15 Ballade	Czerny100 58
	Beyer 56				16 Douce plainte	Czerny100 59
	Beyer 57				17 Babillarde	Czerny100 60
	Beyer 58				18 Inquiétude	Czerny100 61
	Beyer 59				19 Ave Maria	Czerny100 62
	Beyer 60		20 Tarentelle		Czerny100 63	
	Beyer 61		21 Harmonie des anges		Czerny100 64	
	Beyer 62		22 Barcarolle		Czerny100 65	
	Beyer 63 (4hands)		23 Retour		Czerny100 66	
	Beyer 64 (4hands)		24 L'hirondelle		Czerny100 67	
	Beyer 65		25 La chevaleresque		Czerny100 68	
	Beyer 66		100 Übungsstücke Op.139		Czerny100 69	
	Beyer 67				Czerny100 1	Czerny100 70
	Czerny100 2					
			Czerny100 3			

Album Title	Song Title
100 Übungsstücke Op.139	Czerny100 71
	Czerny100 72
	Czerny100 73
	Czerny100 74
	Czerny100 75
	Czerny100 76
	Czerny100 77
	Czerny100 78
	Czerny100 79
	Czerny100 80
	Czerny100 81
	Czerny100 82
	Czerny100 83
	Czerny100 84
	Czerny100 85
	Czerny100 86
	Czerny100 87
	Czerny100 88
	Czerny100 89
	Czerny100 90
	Czerny100 91
	Czerny100 92
	Czerny100 93
	Czerny100 94
	Czerny100 95
	Czerny100 96
	Czerny100 97
	Czerny100 98
	Czerny100 99
	Czerny100 100
30 Etudes de mécanisme Op.849	Czerny30 1
	Czerny30 2
	Czerny30 3
	Czerny30 4
	Czerny30 5
	Czerny30 6
	Czerny30 7
	Czerny30 8
	Czerny30 9
	Czerny30 10
	Czerny30 11
	Czerny30 12
	Czerny30 13
	Czerny30 14
	Czerny30 15
	Czerny30 16
	Czerny30 17
	Czerny30 18
	Czerny30 19
	Czerny30 20
	Czerny30 21
	Czerny30 22
	Czerny30 23
	Czerny30 24
	Czerny30 25
	Czerny30 26
	Czerny30 27
	Czerny30 28
	Czerny30 29
	Czerny30 30
The Virtuoso Pianist	Hanon 1
	Hanon 2
	Hanon 3
	Hanon 4
	Hanon 5
	Hanon 6
	Hanon 7
	Hanon 8
	Hanon 9

Album Title	Song Title
The Virtuoso Pianist	Hanon 10
	Hanon 11
	Hanon 12
	Hanon 13
	Hanon 14
	Hanon 15
	Hanon 16
	Hanon 17
	Hanon 18
	Hanon 19
	Hanon 20
	Hanon 1 Var.1
	Hanon 1 Var.2
	Hanon 1 Var.3
	Hanon 1 Var.4
	Hanon 1 Var.5
	Hanon 1 Var.6
	Hanon 1 Var.7
	Hanon 1 Var.8
	Hanon 1 Var.9
	Hanon 1 Var.10
	Hanon 1 Var.11
Hanon 1 Var.12	
Hanon 1 Var.13	
Hanon 1 Var.14	
Hanon 1 Var.15	
Hanon 1 Var.16	
Hanon 1 Var.17	
Hanon 1 Var.18	
Hanon 1 Var.19	
Hanon 1 Var.20	
Hanon 1 Var.21	
Hanon 1 Var.22	

Chord Types for Style Playback / Akkordtypen für die Style-Wiedergabe / Types d'accords pour la reproduction de style / Tipos de acordes para reproducción de estilos

This section shows how to specify the indicated chords (in the key of C) when the chord detection area is set to "Lower."



Chord Name [Abbreviation]	Normal Voicing	Display for root "C"
1+8	1+8	C1+8
1+5	1+5	C1+5
Major [M]	1+3+5	C
Sixth [6]	1+(3)+5+6	C6
Major seventh [M7]	1+3+(5)+7	CM7
Major seventh flatted fifth [M7 b 5]	1+3+ b 5+7	CM7(b 5)
Major seventh add sharp eleventh [M7(# 11)]	1+(2)+3+ # 4+5+7	CM7(# 11)
Add ninth [(add9)]	1+2+3+5	Cadd9
Major seventh ninth [M7_9]	1+2+3+(5)+7	CM7(9)
Sixth ninth [6_9]	1+2+3+(5)+6	C6(9)
Flatted fifth [(b 5)]	1+3+ b 5	C b 5
Augmented [aug]	1+3+ # 5	Caug
Seventh augmented [7aug]	1+3+ # 5+ b 7	C7aug
Major seventh augmented [M7aug]	1+(3)+ # 5+7	CM7aug
Minor [m]	1+ b 3+5	Cm
Minor sixth [m6]	1+ b 3+5+6	Cm6
Minor seventh [m7]	1+ b 3+(5)+ b 7	Cm7
Minor seventh flatted fifth [m7 b 5]	1+ b 3+ b 5+ b 7	Cm7(b 5)
Minor add ninth [m(add9)]	1+2+ b 3+5	Cm add9
Minor seventh ninth [m7(9)]	1+2+ b 3+(5)+ b 7	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+ b 3+4+5+(b 7)	Cm7(11)
Minor major seventh flatted fifth [mM7 b 5]	1+ b 3+ b 5+7	CmM7(b 5)
Minor major seventh [mM7]	1+ b 3+(5)+7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+ b 3+(5)+7	CmM7(9)
Diminished [dim]	1+ b 3+ b 5	Cdim
Diminished seventh [dim7]	1+ b 3+ b 5+6	Cdim7
Seventh [7]	1+3+(5)+ b 7	C7
Seventh suspended fourth [7sus4]	1+4+5+ b 7	C7sus4
Seventh ninth [7(9)]	1+2+3+(5)+ b 7	C7(9)
Seventh add sharp eleventh [7(# 11)]	1+(2)+3+ # 4+5+ b 7	C7(# 11)
Seventh add thirteenth [7(13)]	1+3+(5)+6+ b 7	C7(13)
Seventh flatted fifth [7 b 5]	1+3+ b 5+ b 7	C7(b 5)
Seventh flatted ninth [7(b 9)]	1+ b 2+3+(5)+ b 7	C7(b 9)
Seventh add flatted thirteenth [7(b 13)]	1+3+5+ b 6+ b 7	C7(b 13)
Seventh sharp ninth [7(# 9)]	1+ # 2+3+(5)+ b 7	C7(# 9)
Suspended fourth [sus4]	1+4+5	Csus4
One plus two plus five [sus2]	1+2+5	Csus2
cancel	1+ b 2+2	Cancel

* Notes in parentheses can be omitted.

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

Reverb Block

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)	
Reverb	Real Large Hall	Real reverb simulating the acoustics of a large sized hall.	1	32	REAL REVERB	
	Real Medium Hall	Real reverb simulating the acoustics of a medium sized hall.	1	33	REAL REVERB	
	Real Bright Hall	Real reverb simulating the acoustics of a bright sounding hall.	1	34	REAL REVERB	
	Basic Hall	Reverb simulating the acoustics of a hall. Standard setting.	1	21	REVERB1	
	Light Hall	Reverb simulating the acoustics of a hall. Light setting.	1	22	REVERB1	
	Ballad Hall	Reverb simulating the acoustics of a hall. For ballad type music.	1	19	REVERB2	
	Piano Hall	Reverb simulating the acoustics of a hall. For piano sound.	1	20	REVERB2	
	Hall 1	Reverb simulating the acoustics of a hall.	1	0	REVERB1	
	Hall 2		1	16	REVERB1	
	Hall 3		1	17	REVERB1	
	Hall 4		1	18	REVERB1	
	Hall 5		1	1	REVERB1	
	Vocal Hall 1	Reverb suitable for vocals.	1	27	REVERB1	
	Vocal Hall 2		1	28	REVERB1	
	Recital Hall	Reverb simulating the acoustics of a medium sized recital hall. For piano sound.	1	24	REAL PIANO REVERB	
	Concert Hall	Reverb simulating the acoustics of a large sized hall. For piano sound.	1	4	REAL PIANO REVERB	
	Cathedral	Reverb simulating the acoustics of a cathedral. For piano sound.	1	5	REAL PIANO REVERB	
	Real Room	Real reverb simulating the acoustics of a room.	2	32	REAL REVERB	
	Real Power Room	Real reverb simulating the acoustics of a room with powerful room reflections.	2	33	REAL REVERB	
	Acoustic Room	Reverb simulating the acoustics of a room. Standard setting.	2	20	REVERB1	
	Drums Room	Reverb simulating the acoustics of a room. For drum sounds.	2	21	REVERB1	
	Chamber	Reverb simulating the acoustics of a chamber. For piano sound.	2	24	REAL PIANO REVERB	
	Stage	Reverb suitable for a solo instrument.	3	16	REVERB1	
	Club	Reverb simulating the acoustics of a club. For piano sound.	3	24	REAL PIANO REVERB	
	Real Large Plate	Real reverb simulating a large plate reverb unit.	4	32	REAL REVERB	
	Real Medium Plate	Real reverb simulating a medium sized plate reverb unit.	4	33	REAL REVERB	
	Real Rattle Plate	Real reverb simulating a plate reverb unit with spring rattle.	4	34	REAL REVERB	
	Plate	Reverb simulating a plate reverb unit.	4	16	REVERB1	
	Piano Plate	Reverb simulating a plate reverb unit. For piano sound.	4	24	REAL PIANO REVERB	
	Legacy	Hall M	Reverb simulating the acoustics of a hall.	1	6	REVERB1
		Hall L		1	7	REVERB1
		Atmosphere Hall	A unique long reverb with atmosphere.	1	23	REVERB1
		Large Hall	Reverb simulating the acoustics of a hall.	1	2	REVERB2
Medium Hall		1		3	REVERB2	
Percussion Room		Reverb simulating the acoustics of a room. For percussion sounds.	2	22	REVERB1	
Room 1		Reverb simulating the acoustics of a room.	2	16	REVERB1	
Room 2			2	17	REVERB1	
Room 3			2	18	REVERB1	
Room 4			2	19	REVERB1	
Room 5			2	0	REVERB1	
Room 6			2	1	REVERB1	
Room 7			2	2	REVERB1	
Room S			2	5	REVERB1	
Room M			2	6	REVERB1	
Room L			2	7	REVERB1	
Warm Room			Reverb simulating the acoustics of a warm room.	2	3	REVERB2
White Room			A unique short reverb with a bit of initial delay.	16	0	REVERB2
Woody Room		Reverb simulating the acoustics of a wood-built room.	2	4	REVERB2	
Stage 2		Reverb suitable for a solo instrument.	3	17	REVERB1	
Stage 3			3	0	REVERB1	
Stage 4			3	1	REVERB1	
Plate 2		Reverb simulating a plate reverb unit.	4	17	REVERB1	
Plate 3			4	0	REVERB1	
GM Plate			4	7	REVERB1	
Rich Plate		Reverb simulating a rich plate reverb unit.	4	1	REVERB2	
Tunnel		Simulates a cylindrical space expanding to left and right.	17	0	REVERB3	
Canyon		A hypothetical acoustic space which extends without limit.	18	0	REVERB3	
Basement		A bit of initial delay followed by reverb with a unique resonance.	19	0	REVERB3	
---		No Effect	No effect.	0	0	NO EFFECT

Chorus Block

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)
Reverb	Hall 1	Reverb simulating the acoustics of a hall.	1	0	REVERB1
	Hall 2		1	16	REVERB1
	Hall 3		1	17	REVERB1
	Hall 4		1	18	REVERB1
	Hall 5		1	1	REVERB1
	Acoustic Room	Reverb simulating the acoustics of a room. Standard setting.	2	20	REVERB1
	Drums Room	Reverb simulating the acoustics of a room. For drum sounds.	2	21	REVERB1
	Stage	Reverb suitable for a solo instrument.	3	16	REVERB1
Delay	Plate	Reverb simulating a plate reverb unit.	4	16	REVERB1
	Tempo Delay 1	Tempo-synchronized delay.	21	0	TEMPO DELAY
	Tempo Delay 2		21	16	TEMPO DELAY
	Tempo Echo	Tempo-synchronized echo.	21	8	TEMPO DELAY
	Tempo Cross 1	Tempo-synchronized cross delay.	22	0	TEMPO CROSS DELAY
	Tempo Cross 2		22	16	TEMPO CROSS DELAY
	Tempo Cross 3		22	17	TEMPO CROSS DELAY
Tempo Cross 4	22		18	TEMPO CROSS DELAY	
Modulation	Chorus 1	Conventional chorus program with rich, warm chorusing.	66	17	CHORUS
	Chorus 2		66	8	CHORUS
	Symphonic	Adds more stages to the modulation of Celeste.	68	16	SYMPHONIC
	Flanger	Creates a sound similar to that of a jet airplane.	67	8	FLANGER
	Tempo Flanger	Tempo-synchronized flanger.	107	0	V FLANGER
	Phaser	Cyclically modulates the phase to add modulation to the sound.	72	0	PHASER1
	Tempo Phaser	Tempo-synchronized phaser.	108	0	TEMPO PHASER
	E-Piano Phaser	Cyclically modulates the phase to add modulation to the sound. For electric piano.	72	17	PHASER1
	Dual Rotary Speaker Bright	Simulates a rotary speaker.	99	16	ROTARY SPEAKER1
	Dual Rotary Speaker Warm		99	17	ROTARY SPEAKER1
	Rotary Speaker		69	16	ROTARY SPEAKER2
	Tremolo	Rich Tremolo effect with both volume and pitch modulation.	70	16	TREMOLO
	E-Piano Tremolo		70	18	TREMOLO
	Tempo Tremolo	Tempo-synchronized rich Tremolo effect with both volume and pitch modulation.	120	0	TEMPO TREMOLO
	Auto Pan	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16	AUTO PAN
Tempo Auto Pan	Tempo-synchronized auto pan.	121	0	TEMPO AUTO PAN1	
Legacy	Hall M	Reverb simulating the acoustics of a hall.	1	6	REVERB1
	Hall L		1	7	REVERB1
	Atmosphere Hall	A unique long reverb with atmosphere.	1	23	REVERB1
	Percussion Room	Reverb simulating the acoustics of a room. For percussion sounds.	2	22	REVERB1
	Room 1	Reverb simulating the acoustics of a room.	2	16	REVERB1
	Room 2		2	17	REVERB1
	Room 3		2	18	REVERB1
	Room 4		2	19	REVERB1
	Room 5		2	0	REVERB1
	Room 6		2	1	REVERB1
	Room 7		2	2	REVERB1
	Room S		2	5	REVERB1
	Room M		2	6	REVERB1
	Room L		2	7	REVERB1
	Stage 2	Reverb suitable for a solo instrument.	3	17	REVERB1
	Stage 3		3	0	REVERB1
	Stage 4		3	1	REVERB1
	Plate 2		Reverb simulating a plate reverb unit.	4	17
	Plate 3	4		0	REVERB1
	GM Plate	4		7	REVERB1
	Karaoke 1	Echo for karaoke.	20	0	KARAOKE
	Karaoke 2		20	1	KARAOKE
	Karaoke 3		20	2	KARAOKE
	Early Reflection 1	This effect isolates only the early reflection components of the reverb.	9	0	EARLY REFLECTION
	Early Reflection 2		9	1	EARLY REFLECTION
	Chorus 3	Conventional chorus program with rich, warm chorusing.	66	16	CHORUS
	Chorus 4		66	1	CHORUS
	Chorus 5		65	2	CHORUS
	Chorus 6		65	0	CHORUS
	Chorus 7		65	1	CHORUS
	Chorus 8		65	8	CHORUS
	Chorus Fast		65	16	CHORUS
	Chorus Lite		65	17	CHORUS

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)	
Legacy	GM Chorus 1	Conventional chorus program with rich, warm chorusing.	65	3	CHORUS	
	GM Chorus 2		65	4	CHORUS	
	GM Chorus 3		65	5	CHORUS	
	GM Chorus 4		65	6	CHORUS	
	Feedback Chorus		65	7	CHORUS	
	Celeste 1	A 3-phase LFO adds modulation and spaciousness to the sound.	66	0	CHORUS	
	Celeste 2		66	2	CHORUS	
	Symphonic 2	Adds more stages to the modulation of Celeste.	68	0	SYMPHONIC	
	Ensemble Detune 1	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0	ENSEMBLE DETUNE	
	Ensemble Detune 2		87	16	ENSEMBLE DETUNE	
	Flanger 2	Creates a sound similar to that of a jet airplane.	67	16	FLANGER	
	Flanger 3		67	17	FLANGER	
	Flanger 4		67	1	FLANGER	
	Flanger 5		67	0	FLANGER	
	GM Flanger		67	7	FLANGER	
	Phaser 2	Cyclically modulates the phase to add modulation to the sound.	72	8	PHASER2	
	Phaser 3		72	19	PHASER2	
	Tempo Phaser 2	Tempo-synchronized phaser.	108	16	TEMPO PHASER	
	E-Piano Phaser 2	Cyclically modulates the phase to add modulation to the sound. For electric piano.	72	18	PHASER1	
	E-Piano Phaser 3		72	16	PHASER1	
	Dual Rotary Speaker 1	Simulates a rotary speaker.	99	0	ROTARY SPEAKER1	
	Dual Rotary Speaker 2		99	1	ROTARY SPEAKER1	
	Rotary Speaker 2		71	17	AUTO PAN1	
	Rotary Speaker 3		71	18	AUTO PAN1	
	Rotary Speaker 4		70	17	TREMOLO	
	Rotary Speaker 5		66	18	CHORUS	
	Rotary Speaker 6		69	0	ROTARY SPEAKER2	
	Rotary Speaker 7		71	22	AUTO PAN1	
	2way Rotary Speaker		86	0	2WAY ROTARY SPEAKER	
	Tremolo 2		Rich Tremolo effect with both volume and pitch modulation.	71	19	AUTO PAN1
	Tremolo 3			70	0	TREMOLO
	Guitar Tremolo 1			71	20	AUTO PAN1
	Guitar Tremolo 2			70	19	TREMOLO
	Vibraphone Rotor	Vibraphone effect.	119	0	VIBE VIBRATE	
	Auto Pan 2	Several panning effects that automatically shift the sound position (left, right, front, back).	71	0	AUTO PAN1	
	Auto Pan 3		71	1	AUTO PAN2	
	E-Piano Auto Pan		71	21	AUTO PAN1	
	Tempo Auto Pan 2	Tempo-synchronized auto pan.	121	1	TEMPO AUTO PAN2	
	Pitch Change 1	Changes the pitch of the input signal.	80	16	PITCH CHANGE1	
	Pitch Change 2		80	0	PITCH CHANGE1	
	Pitch Change 3		80	1	PITCH CHANGE2	
	---	No Effect	No effect.	0	0	NO EFFECT

Effect Block

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)
Reverb	Hall 1	Reverb simulating the acoustics of a hall.	1	0	REVERB1
	Hall 2		1	16	REVERB1
	Hall 3		1	17	REVERB1
	Hall 4		1	18	REVERB1
	Hall 5		1	1	REVERB1
	Acoustic Room	Reverb simulating the acoustics of a room. Standard setting.	2	20	REVERB1
	Drums Room	Reverb simulating the acoustics of a room. For drum sounds.	2	21	REVERB1
	Stage	Reverb suitable for a solo instrument.	3	16	REVERB1
Delay	Plate	Reverb simulating a plate reverb unit.	4	16	REVERB1
	Delay LCR 1	Produces three delayed sounds: L, R and C (center).	5	16	DELAY LCR
	Delay LCR 2		5	0	DELAY LCR
	Delay LR	Produces two delayed sounds: L and R. Two feedback delays are provided.	6	0	DELAY LR
	Echo	Two delayed sounds (L and R), and independent feedback delays for L and R.	7	0	ECHO
	Cross Delay 1	The feedback of the two delayed sounds is crossed.	8	0	CROSS DELAY
	Cross Delay 2		8	16	CROSS DELAY
	Tempo Delay 1	Tempo-synchronized delay.	21	0	TEMPO DELAY
	Tempo Delay 2		21	16	TEMPO DELAY
	Tempo Echo	Tempo-synchronized echo.	21	8	TEMPO DELAY
	Tempo Cross 1	Tempo-synchronized cross delay.	22	0	TEMPO CROSS DELAY
	Tempo Cross 2		22	16	TEMPO CROSS DELAY
	Tempo Cross 3		22	17	TEMPO CROSS DELAY
	Tempo Cross 4		22	18	TEMPO CROSS DELAY
	Distortion	US Combo Twin	American combo amp simulator. Setting for typical sound.	99	32
US Combo Rich Clean		American combo amp simulator. Setting for rich clean sound.	99	33	US COMBO
US Combo Thin Clean		American combo amp simulator. Setting for thin clean sound.	99	34	US COMBO
US Combo Crunch		American combo amp simulator. Setting for crunch sound.	99	35	US COMBO
Jazz Combo Basic		Jazz combo amp simulator. Setting for basic sound.	100	32	JAZZ COMBO
Jazz Combo Warm Chorus		Jazz combo amp simulator. Setting for warm chorus sound.	100	33	JAZZ COMBO
US High Gain Dirty		American high gain amp simulator. Setting for dirty sound.	101	32	US HIGH GAIN
US High Gain Riff		American high gain amp simulator. Setting for guitar riffs.	101	33	US HIGH GAIN
US High Gain Burn		American high gain amp simulator. Setting for burn sound.	101	34	US HIGH GAIN
US High Gain Solo		American high gain amp simulator. Setting for guitar solos.	101	35	US HIGH GAIN
British Lead Dirty		British stack amp simulator. Setting for dirty sound.	102	32	BRITISH LEAD
British Lead Drive		British stack amp simulator. Setting for overdrive sound.	102	33	BRITISH LEAD
British Lead Gainer		British stack amp simulator. Setting for gainer sound.	102	34	BRITISH LEAD
British Lead Hard		British stack amp simulator. Setting for hard sound.	102	35	BRITISH LEAD
Multi FX Distortion Solo		Multi effector for guitar. Setting for guitar solo.	95	32	MULTI FX
Multi FX Distortion Basic		Multi effector for guitar. Setting for basic distortion.	95	33	MULTI FX
Multi FX Overdrive Chorus		Multi effector for guitar. Setting for overdrive & chorus.	95	34	MULTI FX
Multi FX Crunch Wah		Multi effector for guitar. Setting for crunch & wah.	95	35	MULTI FX
Multi FX Oldies Delay		Multi effector for guitar. Setting for vintage delay.	95	36	MULTI FX
Multi FX Vintage Echo		Multi effector for guitar. Setting for vintage echo.	95	37	MULTI FX
Small Stereo Distortion		Stereo distortion for guitar. Setting for distortion sound.	96	32	SMALL STEREO DIST
Small Stereo Overdrive		Stereo distortion for guitar. Setting for overdrive sound.	96	33	SMALL STEREO DIST
Small Stereo Vintage Amp		Stereo distortion for guitar. Setting for vintage sound.	96	34	SMALL STEREO DIST
Small Stereo Heavy Dist		Stereo distortion for guitar. Setting for heavy sound.	96	35	SMALL STEREO DIST
British Combo Classic		British combo amp simulator. Setting for classic sound.	97	32	BRITISH COMBO
British Combo Top Boost		British combo amp simulator. Setting for "TOP BOOST" sound.	97	33	BRITISH COMBO
British Combo Custom		British combo amp simulator. Setting for custom sound.	97	34	BRITISH COMBO
British Combo Heavy		British combo amp simulator. Setting for heavy sound.	97	35	BRITISH COMBO
British Legend Blues		British stack amp simulator. Setting for blues sound.	98	32	BRITISH LEGEND
British Legend Heavy1		British stack amp simulator. Setting for heavy sound 1.	98	33	BRITISH LEGEND
British Legend Heavy2		British stack amp simulator. Setting for heavy sound 2.	98	34	BRITISH LEGEND
British Legend Clean		British stack amp simulator. Setting for clean sound.	98	35	BRITISH LEGEND
British Legend Dirty Clean		British stack amp simulator. Setting for crunch sound.	98	36	BRITISH LEGEND
V Distortion Crunch		Distortion which simulates the sound of a vintage tube, fuzz effect, etc.	98	18	V DISTORTION
V Distortion Blues			98	21	V DISTORTION
Stereo Amp Sim Solid		Stereo amp simulator.	75	29	STEREO AMP SIMULATOR
Stereo Amp Sim Crunch			75	30	STEREO AMP SIMULATOR
Stereo Amp Sim Blues			75	28	STEREO AMP SIMULATOR
V Distortion Hard + Delay		V Distortion Hard and Delay are connected in series.	98	1	V DISTORTION DELAY
EQ & Comp		Vintage Compressor	This simulates an analog compressor, giving a vintage flavor to the sound.	124	4
	Compressor Medium	Compressor with medium setting.	83	16	COMPRESSOR
	Compressor Heavy	Compressor with heavy setting.	83	17	COMPRESSOR
	Compressor Melody	Compressor for the Melody part.	105	16	MULTI BAND COMP
	Compressor Bass	Compressor for the Bass part.	105	17	MULTI BAND COMP

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)
EQ & Comp	EQ Telephone	Equalizer effect that cuts both high and low frequencies, to simulate the sound heard through a telephone receiver.	76	17	3BAND EQ
	3Band EQ	A mono EQ with adjustable LOW, MID, and HIGH equalization.	76	0	3BAND EQ
	Loop FX 1	Degrades the audio quality of the input signal.	94	16	LO FI
	Loop FX 2		94	17	LO FI
	Lo-Fi Drum 1	Degrades the audio quality of the input signal. Ideal for drum sounds.	94	18	LO FI
	Lo-Fi Drum 2		94	19	LO FI
	Lo-Fi Drum 3		76	19	3BAND EQ
	Lo-Fi Drum 4		76	20	3BAND EQ
Modulation	Chorus 1	Conventional chorus program with rich, warm chorusing.	66	17	CHORUS
	Chorus 2		66	8	CHORUS
	Symphonic	Adds more stages to the modulation of Celeste.	68	16	SYMPHONIC
	Vintage Flanger	This simulates an analog flanger, giving a strong vintage flavor to the sound.	124	1	VINTAGE FLANGER
	Flanger	Creates a sound similar to that of a jet airplane.	67	8	FLANGER
	V Flanger	A simulation of an analog flanger effect. The LFO has a random setting.	104	0	V FLANGER
	Tempo Flanger	Tempo-synchronized flanger.	107	0	TEMPO FLANGER
	Vintage Phaser	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in mono.	124	2	VINTAGE PHASER
	Vintage Phaser Stereo	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in stereo.	124	3	VINTAGE PHASER STEREO
	Phaser	Cyclically modulates the phase to add modulation to the sound.	72	0	PHASER1
	Tempo Phaser	Tempo-synchronized phaser.	108	0	TEMPO PHASER
	E-Piano Phaser	Cyclically modulates the phase to add modulation to the sound. For electric piano.	72	17	PHASER1
	Vintage Auto Wah	This simulates an analog wah pedal effect, giving a strong vintage flavor to the sound. It cyclically changes the central frequency of the wah filter.	124	5	VINTAGE AUTO WAH
	Auto Wah	Cyclically modulates the center frequency of a wah filter.	78	16	AUTO WAH
	Auto Wah + Distortion	Distortion can be applied to the output of Auto Wah.	78	17	AUTO WAH DISTORTION
	Tempo Auto Wah	Tempo-synchronized Auto Wah.	79	0	TEMPO AUTO WAH1
	Vintage Touch Wah	This simulates an analog wah pedal effect, giving a strong vintage flavor to the sound. It changes the central frequency of the wah filter according to the input level.	125	2	VINTAGE TOUCH WAH
	Touch Wah	Changes the center frequency of a wah filter according to the input level.	82	0	TOUCH WAH1
	Touch Wah + Distortion	Distortion can be applied to the output of Touch Wah.	82	16	TOUCH WAH1
	Vintage Pedal Wah Basic	Vintage Wah which can be controlled by "Pedal Control" parameter. (See Effect Parameter List.)	125	1	VINTAGE PEDAL WAH
	Vintage Pedal Wah Disco		125	16	VINTAGE PEDAL WAH
	Pedal Wah	Changes the center frequency of a wah filter according to "Pedal Control" parameter. (See Effect Parameter List.)	122	0	PEDAL WAH1
	Pedal Wah + Distortion	Distortion can be applied to the output of Pedal Wah.	122	1	PEDAL WAH2
	Dual Rotary Speaker Bright	Simulates a rotary speaker.	99	16	ROTARY SPEAKER1
	Dual Rotary Speaker Warm		99	17	ROTARY SPEAKER1
	Rotary Speaker		69	16	ROTARY SPEAKER2
	Tremolo	Rich Tremolo effect with both volume and pitch modulation.	70	16	TREMOLO
E-Piano Tremolo		70	18	TREMOLO	
Tempo Tremolo	Tempo-synchronized rich Tremolo effect with both volume and pitch modulation.	120	0	TEMPO TREMOLO	
Auto Pan	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16	AUTO PAN1	
Tempo Auto Pan	Tempo-synchronized auto pan.	121	0	TEMPO AUTO PAN1	
Legacy	Hall M	Reverb simulating the acoustics of a hall.	1	6	REVERB1
	Hall L		1	7	REVERB1
	Atmosphere Hall	A unique long reverb with atmosphere.	1	23	REVERB1
	Percussion Room	Reverb simulating the acoustics of a room. For percussion sounds.	2	22	REVERB1
	Room 1	Reverb simulating the acoustics of a room.	2	16	REVERB1
	Room 2		2	17	REVERB1
	Room 3		2	18	REVERB1
	Room 4		2	19	REVERB1
	Room 5		2	0	REVERB1
	Room 6		2	1	REVERB1
	Room 7		2	2	REVERB1
	Room S		2	5	REVERB1
	Room M		2	6	REVERB1
	Room L		2	7	REVERB1
	White Room	A unique short reverb with a bit of initial delay.	16	0	REVERB3
	Stage 2	Reverb suitable for a solo instrument.	3	17	REVERB1
	Stage 3		3	0	REVERB1
	Stage 4		3	1	REVERB1
	Plate 2	Reverb simulating a plate reverb unit.	4	17	REVERB1
	Plate 3		4	0	REVERB1
	GM Plate		4	7	REVERB1
	Tunnel	Simulates a cylindrical space expanding to left and right.	17	0	REVERB3
	Canyon	A hypothetical acoustic space which extends without limit.	18	0	REVERB3
	Basement	A bit of initial delay followed by reverb with a unique resonance.	19	0	REVERB3

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)	
Legacy	Karaoke 1	Echo for karaoke.	20	0	KARAOKE	
	Karaoke 2		20	1	KARAOKE	
	Karaoke 3		20	2	KARAOKE	
	Early Reflection 1	This effect isolates only the early reflection components of the reverb.	9	0	EARLY REFLECTION	
	Early Reflection 2		9	1	EARLY REFLECTION	
	Gate Reverb 1	Simulation of gated reverb.	10	0	GATE REVERB	
	Gate Reverb 2		10	16	GATE REVERB	
	Reverse Gate	Simulation of gated reverb played back in reverse.	11	0	GATE REVERB	
	V Distortion Warm	Distortion which simulates the sound of a vintage tube, fuzz effect, etc.	98	22	V DISTORTION	
	V Distortion Classic Hard		98	23	V DISTORTION	
	V Distortion Classic Soft		98	20	V DISTORTION	
	V Distortion Metal		98	24	V DISTORTION	
	V Distortion Edgy		98	19	V DISTORTION	
	V Distortion Solid		98	25	V DISTORTION	
	V Distortion Clean 1		98	17	V DISTORTION	
	V Distortion Clean 2		98	26	V DISTORTION	
	V Distortion Twin		98	16	V DISTORTION	
	V Distortion Rockabilly		103	18	V DIST TEMPO DELAY	
	V Distortion Jazz Clean		98	27	V DISTORTION	
	V Distortion Fusion		103	19	V DIST TEMPO DELAY	
	V Distortion Hard		98	0	V DISTORTION	
	V Distortion Soft		98	2	V DISTORTION	
	Stereo Amp Sim Clean		Stereo amp simulator.	75	27	STEREO AMP SIMULATOR
	Stereo Amp Sim BluesHarp			75	31	STEREO AMP SIMULATOR
	Distortion Hard 1		Hard-edge distortion.	75	16	AMP SIMULATOR1
	Distortion Hard 2	75		22	AMP SIMULATOR1	
	Distortion Soft 1	Soft, warm distortion.	75	17	AMP SIMULATOR1	
	Distortion Soft 2		75	23	AMP SIMULATOR1	
	Distortion Heavy	Heavy distortion.	73	0	DISTORTION	
	Overdrive	Adds mild distortion to the sound.	74	0	DISTORTION	
	Stereo Distortion	Stereo distortion.	73	8	STEREO DISTORTION	
	Stereo Overdrive	Stereo overdrive.	74	8	STEREO DISTORTION	
	Stereo Distortion Hard	Hard-edge stereo distortion.	75	18	STEREO AMP SIMULATOR	
	Stereo Distortion Soft	Soft, warm soft distortion.	75	19	STEREO AMP SIMULATOR	
	Amp Simulator 1	A simulation of a guitar amp.	75	0	AMP SIMULATOR1	
	Amp Simulator 2		75	1	AMP SIMULATOR2	
	Stereo Amp Simulator 1	Stereo amp simulator.	75	20	STEREO AMP SIMULATOR	
	Stereo Amp Simulator 2		75	21	STEREO AMP SIMULATOR	
	Stereo Amp Simulator 3		75	8	STEREO AMP SIMULATOR	
	Stereo Amp Simulator 4		75	24	STEREO AMP SIMULATOR	
	Stereo Amp Simulator 5		75	25	STEREO AMP SIMULATOR	
	Stereo Amp Simulator 6		75	26	STEREO AMP SIMULATOR	
	Distortion + Delay 1	Distortion and Delay are connected in series.	95	16	DISTORTION DELAY	
	Distortion + Delay 2		95	0	DISTORTION DELAY	
	Overdrive + Delay 1	Overdrive and Delay are connected in series.	95	17	DISTORTION DELAY	
	Overdrive + Delay 2		95	1	DISTORTION DELAY	
	Comp + Dist + Delay 1	Compressor, Distortion and Delay are connected in series.	96	16	COMP DIST DELAY	
	Comp + Dist + Delay 2		96	0	COMP DIST DELAY	
	Comp + OD + Delay 1	Compressor, Overdrive and Delay are connected in series.	96	17	COMP DIST DELAY	
	Comp + OD + Delay 2		96	1	COMP DIST DELAY	
	V Distortion Soft + Delay	V Distortion Soft and Delay are connected in series.	98	3	V DIST TEMPO DELAY	
	V Dist Hard + Tmp Delay 1	V Distortion Hard and Tempo Delay are connected in series.	103	0	V DIST TEMPO DELAY	
	V Dist Hard + Tmp Delay 2		103	17	V DIST TEMPO DELAY	
	V Dist Soft + Tmp Delay 1	V Distortion Soft and Tempo Delay are connected in series.	103	1	V DIST TEMPO DELAY	
	V Dist Soft + Tmp Delay 2		103	16	V DIST TEMPO DELAY	
	Distortion + Tempo Delay	Distortion and Tempo Delay are connected in series.	100	0	DIST TEMPO DELAY	
	Overdrive + Tempo Delay	Overdrive and Tempo Delay are connected in series.	100	1	DIST TEMPO DELAY	
	Comp + 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 DISTORTION	
	Comp + Distortion 2		73	1	COMP DISTORTION	
	Comp + Dist + Tmp Delay	Compressor, Distortion and Tempo Delay are connected in series.	101	0	COMP DIST TEMPO DELAY	
	Comp + OD + Tmp Delay 1	Compressor, Overdrive and Tempo Delay are connected in series.	101	1	COMP DIST TEMPO DELAY	
	Comp + OD + Tmp Delay 2		101	16	COMP DIST TEMPO DELAY	
	Comp + OD + Tmp Delay 3		101	17	COMP DIST TEMPO DELAY	
	Comp + OD + Tmp Delay 4		101	18	COMP DIST TEMPO DELAY	
	Comp + OD + Tmp Delay 5		101	19	COMP DIST TEMPO DELAY	
	Comp + OD + Tmp Delay 6		101	20	COMP DIST TEMPO DELAY	
	Multiband Compressor	Multi-band compressor that allows you to adjust the compression effect for individual frequency bands.	105	0	MULTI BAND COMP	

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)	
Legacy	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	COMPRESSOR	
	Noise Gate	Gates the input when the input signal falls below a specified level.	84	0	NOISE GATE	
	EQ Disco	Equalizer effect that boosts both high and low frequencies, as is typical in most disco music.	76	16	3BAND EQ	
	2Band EQ	A stereo EQ with adjustable LOW and HIGH. Ideal for drum Parts.	77	0	2BAND EQ	
	Stereo 3Band EQ	A stereo EQ with adjustable LOW, MID, and HIGH equalization.	76	18	3BAND EQ	
	Harmonic Enhancer 1	Adds new harmonics to the input signal to make the sound stand out.	81	16	HARMONIC ENHANCER	
	Harmonic Enhancer 2		81	0	HARMONIC ENHANCER	
	Isolator	Controls the level of a specified frequency band of the input signal.	115	0	ISOLATOR	
	Chorus 3	Conventional chorus program with rich, warm chorusing.	66	16	CHORUS	
	Chorus 4		66	1	CHORUS	
	Chorus 5		65	2	CHORUS	
	Chorus 6		65	0	CHORUS	
	Chorus 7		65	1	CHORUS	
	Chorus 8		65	8	CHORUS	
	Chorus Fast		65	16	CHORUS	
	Chorus Lite		65	17	CHORUS	
	GM Chorus 1		65	3	CHORUS	
	GM Chorus 2		65	4	CHORUS	
	GM Chorus 3		65	5	CHORUS	
	GM Chorus 4		65	6	CHORUS	
	Feedback Chorus		65	7	CHORUS	
	Celeste 1		A 3-phase LFO adds modulation and spaciousness to the sound.	66	0	CHORUS
	Celeste 2			66	2	CHORUS
	Symphonic 2	Adds more stages to the modulation of Celeste.	68	0	SYMPHONIC	
	Ensemble Detune 1	Chorus effect without modulation, created by adding a slightly pitch-shifted sound.	87	0	ENSEMBLE DETUNE	
	Ensemble Detune 2		87	16	ENSEMBLE DETUNE	
	Ambience Chorus	Chorus which added early reflection sound.	65	9	AMBIENCE CHORUS	
	Ambience Celeste	Celeste which added early reflection sound.	66	9	AMBIENCE CHORUS	
	Ambience Symphonic	Symphonic which added early reflection sound.	68	9	AMBIENCE SYMPHONIC	
	Vintage Flanger 2	This simulates an analog flanger, giving a strong vintage flavor to the sound.	124	16	VINTAGE FLANGER	
	Flanger 2	Creates a sound similar to that of a jet airplane.	67	16	FLANGER	
	Flanger 3		67	17	FLANGER	
	Flanger 4		67	1	FLANGER	
	Flanger 5		67	0	FLANGER	
	GM Flanger		67	7	FLANGER	
	Dynamic Flanger		Dynamically controlled flanger.	110	0	DYNAMIC FLANGER
	Ambience Flanger	Flanger which added early reflection sound.	67	9	AMBIENCE FLANGER	
	Vintage Phaser 2	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in mono.	124	17	VINTAGE PHASER	
	Vintage Phaser Stereo 2	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in stereo.	124	18	VINTAGE PHASER STEREO	
	Vintage Phaser Stereo 3		124	19	VINTAGE PHASER STEREO	
	Vintage Phaser Stereo 4		124	20	VINTAGE PHASER STEREO	
	Phaser 2	Cyclically modulates the phase to add modulation to the sound.	72	8	PHASER2	
	Phaser 3		72	19	PHASER2	
	Tempo Phaser 2	Tempo-synchronized phaser.	108	16	TEMPO PHASER	
	E-Piano Phaser 2	Cyclically modulates the phase to add modulation to the sound. For electric piano.	72	18	PHASER1	
	E-Piano Phaser 3		72	16	PHASER1	
	Dynamic Phaser	Dynamically controlled phaser.	111	0	DYNAMIC PHASER	
	Auto Wah 2	Cyclically modulates the center frequency of a wah filter.	78	0	AUTO WAH	
	Auto Wah + Distortion 2	Distortion can be applied to the output of Auto Wah.	78	1	AUTO WAH DISTORTION	
	Auto Wah + Dist Hard		78	21	AUTO WAH DISTORTION	
	Auto Wah + Dist Heavy		78	23	AUTO WAH DISTORTION	
	Auto Wah + Dist Lite		78	25	AUTO WAH DISTORTION	
	Auto Wah + Overdrive 1		78	18	AUTO WAH DISTORTION	
	Auto Wah + Overdrive 2	Overdrive distortion can be applied to the output of Auto Wah.	78	2	AUTO WAH DISTORTION	
	Auto Wah + OD Hard		78	22	AUTO WAH DISTORTION	
	Auto Wah + OD Heavy		78	24	AUTO WAH DISTORTION	
	Auto Wah + OD Lite		78	26	AUTO WAH DISTORTION	
	Tmp AutoWah + Dist		Tempo-synchronized Auto Wah. Distortion can be applied to the output.	79	1	TEMPO AUTO WAH2
	Tmp AutoWah + Dist Hard	79		21	TEMPO AUTO WAH2	
	Tmp AutoWah + Dist Heavy	79		23	TEMPO AUTO WAH2	
	Tmp AutoWah + Dist Lite	79		25	TEMPO AUTO WAH2	
	Tmp AutoWah + OD	Tempo-synchronized Auto Wah. Overdrive distortion can be applied to the output.		79	2	TEMPO AUTO WAH2
	Tmp AutoWah + OD Hard		79	22	TEMPO AUTO WAH2	
	Tmp AutoWah + OD Heavy		79	24	TEMPO AUTO WAH2	
	Tmp AutoWah + OD Lite		79	26	TEMPO AUTO WAH2	
	Touch Wah 2		Changes the center frequency of a wah filter according to the input level.	82	8	TOUCH WAH2
	Touch Wah 3	82		20	TOUCH WAH2	

Category	Type Name	Description	MSB	LSB	Parameter List (pages 45 – 57)	
Legacy	Touch Wah + Distortion 2	Distortion can be applied to the output of Touch Wah.	82	1	TOUCH WAH1	
	Touch Wah + Dist Hard		82	21	TOUCH WAH2	
	Touch Wah + Dist Heavy		82	23	TOUCH WAH2	
	Touch Wah + Dist Lite		82	25	TOUCH WAH2	
	Touch Wah + Overdrive 1	Overdrive distortion can be applied to the output of Touch Wah.	82	17	TOUCH WAH2	
	Touch Wah + Overdrive 2		82	2	TOUCH WAH2	
	Touch Wah + OD Hard		82	22	TOUCH WAH2	
	Touch Wah + OD Heavy		82	24	TOUCH WAH2	
	Touch Wah + OD Lite		82	26	TOUCH WAH2	
	Wah + Dist + Delay 1	Wah, Distortion and Delay are connected in series.	97	16	WAH DISTORTION DELAY	
	Wah + Dist + Delay 2		97	0	WAH DISTORTION DELAY	
	Wah + Dist + Tmp Delay	Wah, Distortion and Tempo Delay are connected in series.	102	0	WAH DISTORTION DELAY	
	Wah + Overdrive + Delay 1	Wah, Overdrive and Delay are connected in series.	97	17	WAH DISTORTION DELAY	
	Wah + Overdrive + Delay 2		97	1	WAH DISTORTION DELAY	
	Wah + OD + Tmp Delay 1	Wah, Overdrive and Tempo Delay are connected in series.	102	1	WAH DISTORTION DELAY	
	Wah + OD + Tmp Delay 2		102	16	WAH DISTORTION DELAY	
	Clavi Touch Wah	Clavinet Touch Wah	82	18	TOUCH WAH2	
	EP Touch Wah	EP Touch Wah	82	19	TOUCH WAH2	
	Pedal Wah + Dist Hard	Distortion can be applied to the output of Pedal Wah.	122	21	PEDAL WAH2	
	Pedal Wah + Dist Heavy		122	23	PEDAL WAH2	
	Pedal Wah + Dist Lite		122	25	PEDAL WAH2	
	Pedal Wah + Overdrive		122	2	PEDAL WAH2	
	Pedal Wah + OD Hard	Overdrive distortion can be applied to the output of Pedal Wah.	122	22	PEDAL WAH2	
	Pedal Wah + OD Heavy		122	24	PEDAL WAH2	
	Pedal Wah + OD Lite		122	26	PEDAL WAH2	
	Dual Rotary Speaker 1		Simulates a rotary speaker.	99	0	ROTARY SPEAKER1
	Dual Rotary Speaker 2	99		1	ROTARY SPEAKER1	
	Rotary Speaker 2	71		17	AUTO PAN1	
	Rotary Speaker 3	71		18	AUTO PAN1	
	Rotary Speaker 4	70		17	TREMOLO	
	Rotary Speaker 5	66		18	CHORUS	
	Rotary Speaker 6	69		0	ROTARY SPEAKER2	
	Rotary Speaker 7	71		22	AUTO PAN1	
	2way Rotary Speaker	86		0	2WAY ROTARY SPEAKER	
	Dist + Rotary SP	Distortion and rotary speaker connected in series.		69	1	DIST ROTARY SPEAKER
	Dist + 2way Rotary SP	Distortion and 2-way rotary speaker connected in series.		86	1	DIST 2WAY ROTARY SP
	OD + Rotary SP	Overdrive and rotary speaker connected in series.		69	2	DIST ROTARY SPEAKER
	OD + 2way Rotary SP	Overdrive and 2-way rotary speaker connected in series.		86	2	DIST 2WAY ROTARY S
	Amp Sim + Rotary SP	Amp simulator and rotary speaker connected in series.		69	3	AMP ROTARY SPEAKER
	Amp Sim + 2way Rotary SP	Amp simulator and 2-way rotary speaker connected in series.		86	3	AMP 2WAY ROTARY SP
	Tremolo 2	Rich Tremolo effect with both volume and pitch modulation.		71	19	AUTO PAN1
	Tremolo 3		70	0	TREMOLO	
	Guitar Tremolo 1		71	20	AUTO PAN1	
	Guitar Tremolo 2		70	19	TREMOLO	
	Vibraphone Rotor	Vibraphone effect.	119	0	VIBE VIBRATE	
	Auto Pan 2	Several panning effects that automatically shift the sound position (left, right, front, back).	71	0	AUTO PAN1	
	Auto Pan 3		71	1	AUTO PAN2	
	E-Piano Auto Pan		71	21	AUTO PAN1	
	Tempo Auto Pan 2	Tempo-synchronized auto pan.	121	1	TEMPO AUTO PAN2	
	Pitch Change 1	Changes the pitch of the input signal.	80	16	PITCH CHANGE1	
	Pitch Change 2		80	0	PITCH CHANGE1	
	Pitch Change 3		80	1	PITCH CHANGE2	
	Voice Cancel	Attenuates the vocal part of a CD or other source.	85	0	VOICE CANCELAR	
Ambience	Blurs the stereo positioning of the sound to add spatial width.	88	0	AMBIENCE		
Talking Modulation	Adds a vowel sound to the input signal.	93	0	TALKING MODULATION		
Lo-Fi	Degrades the audio quality of the input signal.	94	0	LO FI		
Dynamic Filter	Dynamically controlled filter.	109	0	DYNAMIC FILTER		
Dynamic Ring Modulator	Dynamically controlled Ring Modulator.	112	0	DYNAMIC RING MOD		
Ring Modulator	An effect that modifies the pitch by applying amplitude modulation to the frequency of the input.	113	0	RING MODULATOR		
---	No Effect	No effect.	0	0	NO EFFECT	
	Through	Bypass without applying an effect.	64	0	THRU	

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.
- Parameter 10 Dry/Wet only affects insertion type effects.

(*1) Reverb Block

(*2) Chorus Block, DSP1 (Variation) Block and DSP2 – 9 (Insertion) Block

REVERB

REAL PIANO REVERB

Block: Reverb

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

Note: No parameters

REAL REVERB

Block: Reverb

No.	Parameter	Display	Min	Max	Table	Control
1	Reverb Time	0.3s – 30.0s	0	69	Table #1	
2	Diffusion	0 – 10	0	10		
3	Initial Delay	0.1ms – 200.0ms	0	127	Table #2	
4	High Damp Frequency	1.0kHz – 18kHz, Thru	34	60	Table #3	
5						
6	High Ratio	0.0 – 1.0	0	10		
7						
8						
9						
10						
11						
12						
13	EQ Low Frequency	22Hz – 1.0kHz	1	34	Table #3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 18.0kHz	28	59	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

REVERB1

Block: Reverb, Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Reverb Time	0.3s – 30.0s	0	69	Table #1	
2	Diffusion	0 – 10	0	10		
3	Initial Delay	0.1ms – 200.0ms (*1) 0.1ms – 99.3ms (*2)	0	127	Table #2	
4	HPF Cutoff	Thru, 22Hz – 8.0kHz	0	52	Table #3	
5	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Reverb Delay	0.1ms – 200.0ms (*1) 0.1ms – 99.3ms (*2)	0	127	Table #2	
12	Density	0 – 4	0	4		
13	ER/Reverb Balance	E63>R – E=R – E<R63	1	127		
14	High Damp	0.1 – 1.0	1	10		
15	Feedback Level	-63 – 0 – +63	1	127		
16						

REVERB2

Block: Reverb

No.	Parameter	Display	Min	Max	Table	Control
1	Reverb Time	0.3s – 30.0s	0	69	Table #1	
2	Diffusion	0 – 10	0	10		
3	Initial Delay	0.1ms – 200.0ms	0	127	Table #2	
4	HPF Cutoff	Thru, 22Hz – 8.0kHz	0	52	Table #3	
5	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
6						
7						
8						
9						
10						

No.	Parameter	Display	Min	Max	Table	Control
11						
12						
13						
14	High Damp	0.1 – 1.0	1	10		
15						
16						

REVERB3

Block: Reverb, DSP1 (Variation), DSP2 – 9 (Insertion)

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

DELAY

DELAY LCR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

DELAY LR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

ECHO

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

CROSS DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO DELAY

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO CROSS DELAY

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

ER/KARAOKE

KARAOKE

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

EARLY REFLECTION

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0	5		
2	Room Size	0.1 – 20.0	0	127	Table #7	
3	Diffusion	0 – 10	0	10		
4	Initial Delay	0.1ms – 200.0ms	0	127	Table #2	
5	Feedback Level	-63 – 0 – +63	1	127		
6	HPF Cutoff	Thru, 22Hz – 8.0kHz	0	52	Table #3	
7	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
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

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Type	TypeA, TypeB	0	1		
2	Room Size	0.1 – 20.0	0	127	Table #7	
3	Diffusion	0 – 10	0	10		
4	Initial Delay	0.1ms – 200.0ms	0	127	Table #2	
5	Feedback Level	-63 – 0 – +63	1	127		
6	HPF Cutoff	Thru, 22Hz – 8.0kHz	0	52	Table #3	
7	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Liveness	0 – 10	0	10		
12	Density	0 – 3	0	3		
13	High Damp	0.1 – 1.0	1	10		
14						
15						
16						

CHORUS

CHORUS

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

SYMPHONIC

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

ENSEMBLE DETUNE

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

AMBIENCE CHORUS

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0	127	Table #8	
2	LFO PMod Depth	0 – 127	0	127		
3	Feedback Level	-63 – 0 – +63	1	127		
4	Delay Offset	0.0ms – 50ms	0	127	Table #9	
5	LFO AMod Depth	0 – 127	0	127		
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11						
12						
13						
14	Ambience	0 – 127	0	127		
15						
16	Connect Mode	Amb->Cho, Cho->Amb	0	1		

AMBIENCE SYMPHONIC

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0	127	Table #8	
2	LFO Depth	0 – 127	0	127		
3	Delay Offset	0.0ms – 50ms	0	127	Table #9	
4						
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11						
12						
13						
14	Ambience	0 – 127	0	127		
15						
16	Connect Mode	Amb->Sym, Sym->Amb	0	1		

FLANGER

FLANGER

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

VINTAGE FLANGER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Speed	0.040Hz – 10.00Hz	0	235	Table #10	●
2	Manual	0 – 127	0	127		
3	Depth	0 – 127	0	127		
4	Feedback	0 – 127	0	127		
5	Type	1 – 3	0	2		
6	Spread	0 – 127	0	127		
7	Mix	0 – 127	0	127		
8						
9						
10						
11						
12						
13						
14						
15						
16						

V FLANGER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO FLANGER

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	LFO Frequency	16th – 4thx16	5	29	Table #5	
2	LFO Depth	0 – 127	0	127		
3	Feedback Level	-63 – 0 – +63	1	127		
4	Delay Offset	0.0ms – 50ms	0	127	Table #9	
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	EQ Mid Frequency	100Hz – 10.0kHz	14	54	Table #3	
12	EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
13	EQ Mid Width	0.1 – 12.0	1	120		
14	LFO Phase Difference	-180deg – 0deg – +180deg	4	124		
15						
16						

DYNAMIC FLANGER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Sensitivity	0 – 127	0	127		●
2	Delay Time Offset	0 – 127	0	127		
3	Feedback Level	-63 – 0 – +63	1	127		
4	Attack Time	0.3ms – 227ms	0	127	Table #13	
5	Release Time	2.6ms – 2171.4ms	0	127	Table #14	
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		
11						
12						
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

AMBIENCE FLANGER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0	127	Table #8	
2	LFO Depth	0 – 127	0	127		
3	Feedback Level	-63 – 0 – +63	1	127		
4	Delay Offset	0.0ms – 50ms	0	127	Table #9	
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11						
12						
13						
14	LFO Phase Difference	-180deg – 0deg – +180deg (resolution=3deg.)	4	124		
15	Ambience	0 – 127	0	127		
16	Connect Mode	Amb->Flg, Flg->Amb	0	1		

PHASER

PHASER1

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

PHASER2

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

VINTAGE PHASER MONO

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Speed	0.100Hz – 10.00Hz	0	252	Table #15	●
2	Manual	0 – 127	0	127		
3	Depth	0 – 127	0	127		
4	Feedback	0 – 127	0	127		
5	Stage	4, 6, 8, 10, 12, 16	0	5		
6	Mode	1, 2, 3	0	2		
7	Color (*)	0 – 127	0	127		
8						
9						
10						
11						
12						
13						
14						
15						
16						

(*) In the case of the following settings, Color is not effective. When Stage is set to 4, 6 or 8 at Mode = 1, and 4 or 10 at Mode = 2.

VINTAGE PHASER STEREO

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Speed	0.100Hz – 10.00Hz	0	252	Table #15	●
2	Manual	0 – 127	0	127		
3	Depth	0 – 127	0	127		
4	Feedback	0 – 127	0	127		
5	Stage	4, 6, 8, 10	0	3		
6	Mode	1, 2	0	1		
7	Color (*)	0 – 127	0	127		
8	Spread	0 – 127	0	127		
9						
10						
11						
12						
13						
14						
15						
16						

(*) In the case of the following settings, Color is not effective. When Stage is set to 4, 6 or 8 at Mode = 1, and 4 or 10 at Mode = 2.

TEMPO PHASER

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	LFO Frequency	16th – 4thx16	5	29	Table #5	
2	LFO Depth	0 – 127	0	127		
3	Phase Shift Offset	0 – 127	0	127		
4	Feedback Level	-63 – 0 – +63	1	127		
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Stage	3 – 11	3	11		
12						
13	LFO Phase Difference	-180deg – 0deg – +180deg	4	124		
14						
15						
16						

DYNAMIC PHASER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Sensitivity	0 – 127	0	127		●
2	Dyna Level Offset	0 – 127	0	127		
3	Feedback Level	-63 – 0 – +63	1	127		
4	Attack Time	0.3ms – 227ms	0	127	Table #13	
5	Release Time	2.6ms – 2171.4ms	0	127	Table #14	
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		
11	Stage	4, 5, 6	4	6		
12						
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

DISTORTION/AMP SIMULATOR

V DISTORTION

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

V DIST TEMPO DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Overdrive	0% – 100%	0	100		
2	Device	Transistor, Vintage Tube, Dist1, Dist2, Fuzz	0	4		
3	Speaker Type	Flat, Stack, Combo, Twin, Radio, Megaphone	0	5		
4	Presence	0 – 20	0	20		
5	Output Level	0% – 100%	0	100		
6	Delay Time	32nd/3 – 4thx6	0	19	Table #5	
7	Delay Feedback Level	-63 – 0 – +63	1	127		
8	L/R Diffusion	-63ms – 0ms – 63ms	1	127		
9	Lag	-63ms – 0ms – 63ms	1	127		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Delay Mix	0 – 127	0	127		
12	Feedback High Dump	0.1 – 1.0	1	10		
13						
14						
15						
16						

STEREO AMP SIMULATOR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

AMP SIMULATOR1

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

DISTORTION

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

STEREO DISTORTION

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

AMP SIMULATOR2

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

DISTORTION DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

COMP DIST DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	0.1ms – 1638.3ms	1	16383		
2	Delay Feedback Level	-63 – 0 – +63	1	127		
3	Delay Mix	0 – 127	0	127		
4	Dist Drive	0 – 127	0	127		
5	Dist Output Level	0 – 127	0	127		
6	Dist EQ Low Gain	-12dB – 0dB – +12dB	52	76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Comp. Attack	1ms – 40ms	0	19	Table #16	
12	Comp. Release	10ms – 680ms	0	15	Table #17	
13	Comp. Threshold	-48dB – -6dB	79	121		
14	Comp. Ratio	1.0 – 20.0	0	7	Table #18	
15						
16						

COMP DIST TEMPO DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	32nd/3 – 4thx6	0	19	Table #5	
2	Delay Feedback Level	-63 – 0 – +63	1	127		
3	Delay Mix	0 – 127	0	127		
4	Dist Drive	0 – 127	0	127		
5	Dist Output Level	0 – 127	0	127		
6	Dist EQ Low Gain	-12dB – 0dB – +12dB	52	76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
8	L/R Diffusion	-63ms – 0ms – 63ms	1	127		
9	Lag	-63ms – 0ms – 63ms	1	127		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Comp. Attack	1ms – 40ms	0	19	Table #16	
12	Comp. Release	10ms – 680ms	0	15	Table #17	
13	Comp. Threshold	-48dB – -6dB	79	121		
14	Comp. Ratio	1.0 – 20.0	0	7	Table #18	
15						
16						

V DISTORTION DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

MULTI FX

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Comp. Sustain	Off, 0.1 – 10.0	0	100		
2	Wah SW	Off, Wah Pedal, Auto+ Full, Auto+ Mid, Auto+ Light, Auto- Full, Auto- Mid, Auto- Light	0	7		
3	Wah Pedal	0 – 127	0	127		●
4	Dist SW	Off, Overdrive, Distortion1, Distortion2, Clean, Crunch, Hi-Gain, Modern	0	7		
5	Dist Drive	0.0 – 10.0	0	100		
6	Dist EQ	High Boost, Mid Boost, Mid Cut 1, Mid Cut 2, Mid Cut 3, Low Cut 1, Low Cut 2, High Cut, High/Low	0	8		
7	Dist Tone	0.0 – 10.0	0	100		
8	Dist Presence	0.0 – 10.0	0	100		
9	Output	0 – 127	0	127		
10						
11	Speaker Type	Off, Stack, Twin, Tweed, Oldies, Modern, Mean, Soft, Small, Dip1, Dip2, Metal, Light	0	12		
12	LFO Speed	0.1Hz – 9.925Hz	0	127	Table #19	
13	Phaser SW	Off, Standard, Wide, Vibe, Tremolo	0	4		
14	Delay SW	Off, Delay M, Echo1 M, Echo2 M, Chorus M, DI Chorus M, Flanger1 M, Flanger2 M, Flanger3 M, Delay St, Echo1 St, Echo2 St, Chorus St, DI Chorus St, Flanger1 St, Flanger2 St, Flanger3 St	0	16		
15	Delay Ctrl	0 – 127	0	127		
16	Delay Time	0 – 127	0	127		

DIST TEMPO DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	32nd/3 – 4thx6	0	19	Table #5	
2	Delay Feedback Level	-63 – 0 – +63	1	127		
3	Delay Mix	0 – 127	0	127		
4	Dist Drive	0 – 127	0	127		
5	Dist Output Level	0 – 127	0	127		
6	Dist EQ Low Gain	-12dB – 0dB – +12dB	52	76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
8	L/R Diffusion	-63ms – 0ms – 63ms	1	127		
9	Lag	-63ms – 0ms – 63ms	1	127		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11						
12						
13						
14						
15						
16						

SMALL STEREO DIST

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Comp. SW	Off, On	0	1		
2	Comp. Sustain	0.0 – 10.0	0	100		
3	Comp. Level	0.0 – 10.0	0	100		
4	Dist Type	Overdrive, Distortion1, Distortion2, Clean, Crunch, Hi-Gain, Modern	1	7		
5	Dist Drive	0.0 – 10.0	0	100		
6	Dist EQ	High Boost, Mid Boost, Mid Cut 1, Mid Cut 2, Mid Cut 3, Low Cut 1, Low Cut 2, High Cut, High/Low	0	8		
7	Dist Tone	0.0 – 10.0	0	100		
8	Dist Presence	0.0 – 10.0	0	100		
9	Output	0 – 127	0	127		●
10						
11	Speaker Type	Off, Stack, Twin, Tweed, Oldies, Modern, Mean, Soft, Small, Dip1, Dip2, Metal, Light	0	12		
12						
13						
14						
15						
16						

COMP DISTORTION

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Drive	0 – 127	0	127		●
2	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
3	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
4	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
5	Output Level	0 – 127	0	127		
6						
7	EQ Mid Frequency	100Hz – 10.0kHz	14	54	Table #3	
8	EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
9	EQ Mid Width	0.1 – 12.0	1	120		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
11	Edge (Clip Curve)	0 – 127 (mild – sharp)	0	127		
12	Attack	1ms – 40ms	0	19	Table #16	
13	Release	10ms – 680ms	0	15	Table #17	
14	Threshold	-48dB – -6dB	79	121		
15	Ratio	1.0 – 20.0	0	7	Table #18	
16						

BRITISH COMBO

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Mode	Bright, Top Boost	0	1		
2	Normal	0.0 – 10.0	0	100		
3	Brilliant	0.0 – 10.0	0	100		
4	Bass	0.0 – 10.0	0	100		
5						
6	Treble	0.0 – 10.0	0	100		
7	Cut	0.0 – 10.0	0	100		
8						
9	Output	0 – 127	0	127		●
10						
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0	10		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14						
15						
16						

JAZZ COMBO

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Panning	0.0 – 10.0	0	100		
2	Volume	0.0 – 10.0	0	100		●
3	Distortion	Off, 0.1 – 10.0	0	100		
4	Bass	0.0 – 10.0	0	100		
5	Middle	0.0 – 10.0	0	100		
6	Treble	0.0 – 10.0	0	100		
7	High Treble	0.0 – 10.0	0	100		
8						
9	Output	0 – 127	0	127		
10						
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0	10		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14	Chorus	Off, Chorus, Vib	0	2		
15	Vib Speed	0.0 – 10.0	0	100		
16	Depth	0.0 – 10.0	0	100		

BRITISH LEGEND

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Sensitivity	High, Low	0	1		
2	Preamp	0.0 – 10.0	0	100		
3						
4	Bass	0.0 – 10.0	0	100		
5	Middle	0.0 – 10.0	0	100		
6	Treble	0.0 – 10.0	0	100		
7	Presence	0.0 – 10.0	0	100		
8	Master Volume	0.0 – 10.0	0	100		
9	Output	0 – 127	0	127		●
10						
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0	10		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14						
15						
16						

US HIGH GAIN

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Type	Raw1, Vintage1, Modern1, Raw2, Vintage2, Modern2	0	5		
2	Gain	0.0 – 10.0	0	100		
3						
4	Bass	0.0 – 10.0	0	100		
5	Middle	0.0 – 10.0	0	100		
6	Treble	0.0 – 10.0	0	100		
7	Presence	0.0 – 10.0	0	100		
8	Master Volume	0.0 – 10.0	0	100		●
9	Output	0 – 127	0	127		
10						
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0	10		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14						
15						
16						

US COMBO

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Gain Boost	Low, High	0	1		●
2	Volume	0.0 – 10.0	0	100		
3	Low Cut	0.0 – 10.0	0	100		
4	Mid Cut	0.0 – 10.0	0	100		
5	Mid Width	0.0 – 10.0	0	100		
6	Mid Sweep	0.0 – 10.0	0	100		
7	High Cut	0.0 – 10.0	0	100		
8	Balance	0.0 – 10.0	0	100		
9	Output	0 – 127	0	127		
10						
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0	10		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14	Presence	0.0 – 10.0	0	100		
15						
16						

BRITISH LEAD

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Type	Crunch, Hi-Gain, Lead	0	2		
2	Preamp	0.0 – 10.0	0	100		
3	Tone Shift	Normal, Loose, Tight	0	2		
4	Bass	0.0 – 10.0	0	100		
5	Middle	0.0 – 10.0	0	100		
6	Treble	0.0 – 10.0	0	100		
7	Presence	0.0 – 10.0	0	100		
8	Master Volume	0.0 – 10.0	0	100		●
9	Output	0 – 127	0	127		
10						
11	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8	0	10		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14						
15						
16						

PITCH CHANGE

PITCH CHANGE1

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

PITCH CHANGE2

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

AUTO WAH

AUTO WAH

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

VINTAGE AUTO WAH

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Speed	0.100Hz – 20.00Hz	0	254	Table #20	●
2	Bottom	0 – 127	0	127		
3	Top	0 – 127	0	127		
4	Resonance Offset	-12.0 – 0.0 – +12.0	40	88		
5	LFO Wave	Sin, Trp	0	1		
6	Type	High, Mid, Low, Bass	0	3		
7	Overdrive	0.0dB – +40.0dB	0	80		
8	Output	-20.0dB – 0.0dB – +10.0dB	24	84		
9						
10						
11						
12						
13						
14						
15						
16						

AUTO WAH DISTORTION

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO AUTO WAH1

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO AUTO WAH2

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TOUCH WAH/PEDAL WAH

TOUCH WAH1

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TOUCH WAH2

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Sensitivity	0 – 127	0	127		
2	Cutoff Frequency Offset	0 – 127	0	127		●
3	Resonance	1.0 – 12.0	10	120		
4						
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
11	Drive	0 – 127	0	127		
12	Dist EQ Low Gain	-12dB – 0dB – +12dB	52	76		
13	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
14	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
15	Output Level	0 – 127	0	127		
16	Release	10ms – 680ms	52	67	Table #21	

VINTAGE TOUCH WAH

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Sensitivity	0 – 127	0	127		●
2	Bottom	0 – 127	0	127		
3	Top	0 – 127	0	127		
4	Resonance Offset	-12.0 – 0.0 – +12.0	40	88		
5	Direction	Up, Down	0	1		
6	Type	High, Mid, Low, Bass	0	3		
7	Overdrive	0.0dB – +40.0dB	0	80		
8	Output	-20.0dB – 0.0dB – +10.0dB	24	84		
9						
10						
11	Attack Offset	-5 – 0 – +5	59	69		
12						
13						
14						
15						
16						

WAH DISTORTION DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	0.1ms – 1638.3ms	1	16383		
2	Delay Feedback Level	-63 – 0 – +63	1	127		
3	Delay Mix	0 – 127	0	127		
4	Dist Drive	0 – 127	0	127		
5	Dist Output Level	0 – 127	0	127		
6	Dist EQ Low Gain	-12dB – 0dB – +12dB	52	76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Wah Sensitivity	0 – 127	0	127		
12	Wah Cutoff Frequency Offset	0 – 127	0	127		
13	Wah Resonance	1.0 – 12.0	10	120		
14	Wah Release	10ms – 680ms	52	67	Table #21	
15						
16						

WAH DIST TEMPO DELAY

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	32nd/3 – 4thx6	0	19	Table #5	
2	Delay Feedback Level	-63 – 0 – +63	1	127		
3	Delay Mix	0 – 127	0	127		
4	Dist Drive	0 – 127	0	127		
5	Dist Output Level	0 – 127	0	127		
6	Dist EQ Low Gain	-12dB – 0dB – +12dB	52	76		
7	Dist EQ Mid Gain	-12dB – 0dB – +12dB	52	76		
8	L/R Diffusion	-63ms – 0ms – 63ms	1	127		
9	Lag	-63ms – 0ms – 63ms	1	127		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		●
11	Wah Sensitivity	0 – 127	0	127		
12	Wah Cutoff Frequency Offset	0 – 127	0	127		
13	Wah Resonance	1.0 – 12.0	10	120		
14	Wah Release	10ms – 680ms	52	67	Table #21	
15						
16						

VINTAGE PEDAL WAH

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

PEDAL WAH1

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

PEDAL WAH2

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

COMPRESSOR/NOISE GATE

COMPRESSOR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Attack	1ms – 40ms	0	19	Table #16	
2	Release	10ms – 680ms	0	15	Table #17	
3	Threshold	-48dB – -6dB	79	121		
4	Ratio	1.0 – 20.0	0	7	Table #18	
5	Output Level	0 – 127	0	127		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

MULTI BAND COMP

Block: DSP1 (Variation), DSP2 – 9 (Insertion), Master (96 step)

No.	Parameter	Display	Min	Max	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 – 0 – +63	1	127		
4	Mid Gain Offset	-63 – 0 – +63	1	127		
5	High Gain Offset	-63 – 0 – +63	1	127		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

VINTAGE COMPRESSOR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Input Level	-∞ – 0.00dB	0	200		
2	Output Level	-∞ – 0.00dB	0	200	Table #22	
3	Ratio	2, 4, 8, 12, 20	0	4		
4	Attack	0.022ms – 50.40ms	0	200	Table #23	
5	Release	10.88ms – 544.22ms	0	200	Table #24	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

NOISE GATE

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Attack	1ms – 40ms	0	19	Table #16	
2	Release	10ms – 680ms	0	15	Table #17	
3	Threshold	-72dB – -30dB	55	97		
4	Output Level	0 – 127	0	127		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

ROTARY SPEAKER/AUTO PAN/TREMOLO

ROTARY SPEAKER1

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Rotor Speed Slow	0.00Hz – 2.65Hz	0	63	Table #8	
2	Horn Speed Slow	0.00Hz – 2.65Hz	0	63	Table #8	
3	Rotor Speed Fast	2.69Hz – 39.7Hz	64	127	Table #8	
4	Horn Speed Fast	2.69Hz – 39.7Hz	64	127	Table #8	
5	Slow-Fast Time of Rotor	0 – 127	0	127		
6	Slow-Fast Time of Horn	0 – 127	0	127		
7	Drive Low	0 – 127	0	127		
8	Drive High	0 – 127	0	127		
9	Low/High Balance	L63>H – L=H – L<H63	1	127		
10						
11	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
12	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
13	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
14	EQ High Gain	-12dB – 0dB – +12dB	52	76		
15	Mic L-R Angle	0deg – 180deg	0	60		
16	Speed Control	Slow, Fast	0	1		•

ROTARY SPEAKER2

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

AUTO PAN1

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

TREMOLO

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

2WAY ROTARY SPEAKER

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Rotor Speed	0.00Hz – 39.7Hz	0	127	Table #8	●
2	Drive Low	0 – 127	0	127		
3	Drive High	0 – 127	0	127		
4	Low/High Balance	L63>H – L=H – L<H63	1	127		
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	Crossover Frequency	100Hz – 10.0kHz	14	54	Table #3	
12	Mic L-R Angle	0deg – 180deg (resolution=3deg.)	0	60		
13						
14						
15						
16						

DIST ROTARY SPEAKER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

DIST 2WAY ROTARY SP

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Rotor Speed	0.00Hz – 39.7Hz	0	127	Table #8	●
2	Drive Low	0 – 127	0	127		
3	Drive High	0 – 127	0	127		
4	Low/High Balance	L63>H – L=H – L<H63	1	127		
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	Crossover Frequency	100Hz – 10.0kHz	14	54	Table #3	
12	Mic L-R Angle	0deg – 180deg	0	60		
13						
14	Drive	0 – 127	0	127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
16	Output Level	0 – 127	0	127		

AMP ROTARY SPEAKER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	LFO Frequency	0.00Hz – 39.7Hz	0	127	Table #8	●
2	LFO Depth	0 – 127	0	127		
3	AMP Type	Off, Stack, Combo, Tube	0	3		
4						
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
11						
12						
13						
14	Drive	0 – 127	0	127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
16	Output Level	0 – 127	0	127		

AMP 2WAY ROTARY SP

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Rotor Speed	0.00Hz – 39.7Hz	0	127	Table #8	●
2	Drive Low	0 – 127	0	127		
3	Drive High	0 – 127	0	127		
4	Low/High Balance	L63>H – L=H – L<H63	1	127		
5						
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	Crossover Frequency	100Hz – 10.0kHz	14	54	Table #3	
12	Mic L-R Angle	0deg – 180deg	0	60		
13	AMP Type	Off, Stack, Combo, Tube	0	3		
14	Drive	0 – 127	0	127		
15	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3	
16	Output Level	0 – 127	0	127		

VIBE VIBRATE

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO TREMOLO

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

AUTO PAN2

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO AUTO PAN1

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

TEMPO AUTO PAN2

Block: Chorus, DSP1 (Variation), DSP2 – 9 (Insertion)

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

EQ/ENHANCER

3BAND EQ

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

2BAND EQ

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

HARMONIC ENHANCER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

MISC

VOICE CANCELAR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

AMBIENCE

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

TALKING MODULATION

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	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		
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

LO FI

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Sampling Frequency Control	44.1kHz – 345Hz	0	127	Table #25	
2	Word Length	1 – 127	1	127		
3	Output Gain	-6dB – +36dB	0	42		
4	LPF Cutoff	63Hz – 18kHz, 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		●
11						
12						
13						
14						
15	Input Mode	Mono, Stereo	0	1		
16						

DYNAMIC FILTER

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	Filter Type	LPF(12dB), LPF(18dB), LPF(24dB), HPF, BPF, BEF	0	5		●
2	Sensitivity	0 – 127	0	127		
3	Dyna Level Offset	0 – 127	0	127		
4	Resonance	-16 – +111	0	127		
5	Attack Time	0.3ms – 227ms	0	127	Table #13	
6	Release Time	2.6ms – 2171.4ms	0	127	Table #14	
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		
11						
12						
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

DYNAMIC RING MOD

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

RING MODULATOR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	Table	Control
1	OSC Frequency Coarse	0.7Hz – 5002.6kHz	0	127	Table #26	●
2	OSC Frequency Fine	0 – 127	0	127		
3	LFO Wave	Triangle, Sine	0	1		
4	LFO Depth	0 – 127	0	127		
5	LFO Frequency	0.00Hz – 39.7Hz	0	127	Table #8	
6	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0	52	Table #3	
7	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34	60	Table #3	
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
11						
12						
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

ISOLATOR

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

No.	Parameter	Display	Min	Max	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						

NO EFFECT

Block: Reverb, Chorus, DSP1 (Variation)

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

THRU

Block: DSP1 (Variation), DSP2 – 9 (Insertion)

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

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

Table #1
Reverb Time [s]

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 #3
EQ Frequency [Hz]

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

Table #5
Tempo

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

Table #7
Room Size

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

Table #2
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 #4
Reverb Width; Depth; Height [m]

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

Table #6
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	33

Table #9
Modulation Delay Offset [ms]

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 #10
VCM Flanger Speed [Hz]

Data	Value	Data	Value	Data	Value
0	0.040	96	0.494	192	3.953
1	0.042	97	0.505	193	4.037
2	0.045	98	0.515	194	4.122
3	0.047	99	0.526	195	4.206
4	0.050	100	0.536	196	4.290
5	0.053	101	0.547	197	4.374
6	0.055	102	0.563	198	4.500
7	0.058	103	0.573	199	4.584
8	0.060	104	0.589	200	4.668
9	0.063	105	0.599	201	4.752
10	0.066	106	0.615	202	4.879
11	0.068	107	0.626	203	5.005
12	0.071	108	0.636	204	5.131
13	0.074	109	0.652	205	5.215
14	0.076	110	0.668	206	5.341
15	0.079	111	0.683	207	5.467
16	0.081	112	0.704	208	5.552
17	0.084	113	0.715	209	5.720
18	0.087	114	0.725	210	5.804
19	0.089	115	0.747	211	5.972
20	0.092	116	0.757	212	6.056
21	0.095	117	0.778	213	6.224
22	0.097	118	0.789	214	6.309
23	0.100	119	0.810	215	6.477
24	0.102	120	0.831	216	6.645
25	0.105	121	0.852	217	6.813
26	0.108	122	0.862	218	6.897
27	0.110	123	0.883	219	7.066
28	0.113	124	0.904	220	7.234
29	0.116	125	0.925	221	7.402
30	0.118	126	0.946	222	7.570
31	0.121	127	0.967	223	7.738
32	0.124	128	0.988	224	7.907
33	0.126	129	1.009	225	8.075
34	0.129	130	1.030	226	8.243
35	0.131	131	1.051	227	8.411
36	0.134	132	1.072	228	8.580
37	0.137	133	1.093	229	8.748
38	0.139	134	1.125	230	9.000
39	0.145	135	1.146	231	9.168
40	0.147	136	1.167	232	9.337
41	0.150	137	1.199	233	9.589
42	0.152	138	1.220	234	9.757
43	0.158	139	1.251	235	10.00
44	0.160	140	1.272		
45	0.163	141	1.304		
46	0.168	142	1.335		
47	0.171	143	1.367		
48	0.173	144	1.409		
49	0.179	145	1.430		
50	0.181	146	1.451		
51	0.187	147	1.493		
52	0.189	148	1.514		
53	0.195	149	1.556		
54	0.197	150	1.577		
55	0.202	151	1.619		
56	0.208	152	1.661		
57	0.210	153	1.682		
58	0.216	154	1.724		
59	0.221	155	1.766		
60	0.226	156	1.808		
61	0.231	157	1.851		
62	0.237	158	1.893		
63	0.242	159	1.935		
64	0.247	160	1.977		
65	0.252	161	2.019		
66	0.258	162	2.061		
67	0.263	163	2.103		
68	0.268	164	2.145		
69	0.273	165	2.187		
70	0.281	166	2.250		
71	0.287	167	2.292		
72	0.292	168	2.334		
73	0.300	169	2.397		
74	0.308	170	2.460		
75	0.313	171	2.502		
76	0.321	172	2.565		
77	0.326	173	2.608		
78	0.334	174	2.671		
79	0.342	175	2.733		
80	0.347	176	2.776		
81	0.357	177	2.860		
82	0.363	178	2.902		
83	0.373	179	2.966		
84	0.379	180	3.028		
85	0.389	181	3.112		
86	0.400	182	3.154		
87	0.405	183	3.238		
88	0.415	184	3.323		
89	0.426	185	3.365		
90	0.431	186	3.449		
91	0.442	187	3.533		
92	0.452	188	3.617		
93	0.463	189	3.701		
94	0.473	190	3.785		
95	0.484	191	3.869		

Table #11
V-Flanger Delay Offset [ms]

Data	Value	Data	Value	Data	Value
0	0.09	64	4.72	128	31.38
1	0.11	65	4.96	129	31.82
2	0.13	66	5.21	130	32.25
3	0.15	67	5.47	131	32.69
4	0.18	68	5.75	132	33.13
5	0.20	69	6.04	133	33.57
6	0.22	70	6.35	134	34.01
7	0.24	71	6.67	135	34.45
8	0.27	72	7.01	136	34.89
9	0.29	73	7.37	137	35.33
10	0.31	74	7.74	138	35.77
11	0.34	75	8.13	139	36.21
12	0.36	76	8.54		
13	0.38	77	8.97		
14	0.40	78	9.41		
15	0.42	79	9.85		
16	0.43	80	10.29		
17	0.46	81	10.73		
18	0.48	82	11.17		
19	0.51	83	11.61		
20	0.53	84	12.05		
21	0.56	85	12.49		
22	0.59	86	12.93		
23	0.62	87	13.37		
24	0.65	88	13.81		
25	0.68	89	14.24		
26	0.72	90	14.68		
27	0.76	91	15.12		
28	0.79	92	15.56		
29	0.83	93	16.00		
30	0.88	94	16.44		
31	0.92	95	16.88		
32	0.97	96	17.32		
33	1.02	97	17.76		
34	1.07	98	18.20		
35	1.12	99	18.64		
36	1.18	100	19.08		
37	1.24	101	19.52		
38	1.30	102	19.96		
39	1.37	103	20.40		
40	1.44	104	20.83		
41	1.51	105	21.27		
42	1.59	106	21.71		
43	1.67	107	22.15		
44	1.76	108	22.59		
45	1.84	109	23.03		
46	1.94	110	23.47		
47	2.04	111	23.91		
48	2.14	112	24.35		
49	2.25	113	24.79		
50	2.36	114	25.23		
51	2.48	115	25.66		
52	2.61	116	26.10		
53	2.74	117	26.54		
54	2.88	118	26.98		
55	3.03	119	27.42		
56	3.18	120	27.86		
57	3.34	121	28.30		
58	3.51	122	28.74		
59	3.69	123	29.18		
60	3.87	124	29.62		
61	4.07	125	30.06		
62	4.28	126	30.50		
63	4.49	127	30.94		

Table #13
Dyna Attack Time [ms]

Data	Value	Data	Value	Data	Value	Data	Value
0	0.3	32	54.0	64	112	96	170
1	0.9	33	56.0	65	114	97	172
2	1.8	34	58.0	66	116	98	174
3	2.7	35	60.0	67	118	99	176
4	3.6	36	61.0	68	120	100	178
5	5.4	37	63.0	69	121	101	180
6	7.2	38	65.0	70	123	102	181
7	9.0	39	67.0	71	125	103	183
8	10.0	40	69.0	72	127	104	185
9	12.0	41	70.0	73	129	105	187
10	14.0	42	72.0	74	130	106	189
11	16.0	43	74.0	75	132	107	190
12	18.0	44	76.0	76	134	108	192
13	20.0	45	78.0	77	136	109	194
14	21.0	46	80.0	78	138	110	196
15	23.0	47	81.0	79	140	111	198
16	25.0	48	83.0	80	141	112	200
17	27.0	49	85.0	81	143	113	201
18	29.0	50	87.0	82	145	114	203
19	30.0	51	89.0	83	147	115	205
20	32.0	52	90.0	84	149	116	207
21	34.0	53	92.0	85	150	117	209
22	36.0	54	94.0	86	152	118	210
23	38.0	55					

Table #15
VCM Phaser Speed [Hz]

Data	Value	Data	Value	Data	Value
0	0.100	96	0.599	192	3.365
1	0.103	97	0.610	193	3.449
2	0.105	98	0.620	194	3.491
3	0.108	99	0.631	195	3.575
4	0.110	100	0.641	196	3.659
5	0.113	101	0.652	197	3.701
6	0.116	102	0.668	198	3.785
7	0.118	103	0.683	199	3.827
8	0.121	104	0.694	200	3.911
9	0.124	105	0.704	201	3.995
10	0.126	106	0.715	202	4.080
11	0.129	107	0.725	203	4.122
12	0.131	108	0.747	204	4.206
13	0.134	109	0.758	205	4.290
14	0.137	110	0.768	206	4.374
15	0.139	111	0.789	207	4.458
16	0.142	112	0.799	208	4.500
17	0.145	113	0.810	209	4.584
18	0.147	114	0.831	210	4.668
19	0.150	115	0.841	211	4.752
20	0.152	116	0.862	212	4.837
21	0.155	117	0.873	213	4.921
22	0.158	118	0.894	214	5.047
23	0.160	119	0.904	215	5.131
24	0.163	120	0.925	216	5.215
25	0.166	121	0.936	217	5.299
26	0.168	122	0.957	218	5.383
27	0.171	123	0.967	219	5.551
28	0.173	124	0.988	220	5.636
29	0.179	125	1.000	221	5.720
30	0.181	126	1.030	222	5.804
31	0.184	127	1.051	223	5.888
32	0.187	128	1.062	224	6.056
33	0.192	129	1.083	225	6.140
34	0.195	130	1.104	226	6.224
35	0.200	131	1.125	227	6.393
36	0.202	132	1.146	228	6.477
37	0.205	133	1.167	229	6.561
38	0.210	134	1.188	230	6.729
39	0.213	135	1.209	231	6.813
40	0.218	136	1.230	232	6.981
41	0.221	137	1.251	233	7.066
42	0.226	138	1.272	234	7.234
43	0.229	139	1.304	235	7.318
44	0.234	140	1.325	236	7.486
45	0.237	141	1.346	237	7.654
46	0.242	142	1.367	238	7.774
47	0.247	143	1.410	239	7.907
48	0.250	144	1.430	240	8.075
49	0.255	145	1.451	241	8.159
50	0.260	146	1.472	242	8.327
51	0.265	147	1.493	243	8.496
52	0.271	148	1.535	244	8.664
53	0.276	149	1.556	245	8.832
54	0.281	150	1.577	246	9.000
55	0.287	151	1.619	247	9.168
56	0.289	152	1.640	248	9.337
57	0.294	153	1.682	249	9.505
58	0.300	154	1.703	250	9.673
59	0.308	155	1.724	251	9.841
60	0.310	156	1.767	252	10.000
61	0.318	157	1.808		
62	0.323	158	1.829		
63	0.329	159	1.872		
64	0.334	160	1.893		
65	0.342	161	1.935		
66	0.347	162	1.977		
67	0.357	163	2.000		
68	0.363	164	2.040		
69	0.368	165	2.082		
70	0.373	166	2.124		
71	0.379	167	2.145		
72	0.389	168	2.187		
73	0.394	169	2.229		
74	0.400	170	2.271		
75	0.410	171	2.313		
76	0.415	172	2.355		
77	0.426	173	2.397		
78	0.431	174	2.439		
79	0.442	175	2.503		
80	0.447	176	2.544		
81	0.457	177	2.587		
82	0.463	178	2.629		
83	0.473	179	2.671		
84	0.478	180	2.734		
85	0.489	181	2.776		
86	0.499	182	2.860		
87	0.510	183	2.902		
88	0.515	184	2.944		
89	0.526	185	2.986		
90	0.536	186	3.028		
91	0.547	187	3.070		
92	0.557	188	3.154		
93	0.568	189	3.196		
94	0.578	190	3.280		
95	0.589	191	3.323		

Table #16
Compressor Attack Time [ms]

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

Table #17
Compressor Release Time [ms]

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

Table #18
Compressor Ratio

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

Table #19
EgMultiFx LFO Freq [Hz]

Data	Value	Data	Value
0	0.100	64	1.009
1	0.103	65	1.051
2	0.105	66	1.093
3	0.110	67	1.125
4	0.113	68	1.167
5	0.118	69	1.22
6	0.124	70	1.262
7	0.129	71	1.304
8	0.131	72	1.346
9	0.137	73	1.409
10	0.142	74	1.451
11	0.147	75	1.514
12	0.152	76	1.556
13	0.158	77	1.619
14	0.166	78	1.682
15	0.171	79	1.745
16	0.176	80	1.808
17	0.184	81	1.872
18	0.192	82	1.956
19	0.197	83	2.019
20	0.205	84	2.103
21	0.213	85	2.166
22	0.221	86	2.25
23	0.229	87	2.334
24	0.237	88	2.418
25	0.247	89	2.502
26	0.255	90	2.608
27	0.265	91	2.692
28	0.276	92	2.776
29	0.284	93	2.902
30	0.294	94	2.986
31	0.308	95	3.112
32	0.318	96	3.238
33	0.329	97	3.365
34	0.342	98	3.491
35	0.352	99	3.617
36	0.368	100	3.743
37	0.379	101	3.869
38	0.394	102	4.037
39	0.410	103	4.164
40	0.426	104	4.332
41	0.442	105	4.500
42	0.457	106	4.668
43	0.473	107	4.837
44	0.489	108	5.005
45	0.51	109	5.173
46	0.526	110	5.383
47	0.547	111	5.552
48	0.568	112	5.804
49	0.589	113	5.972
50	0.61	114	6.224
51	0.631	115	6.393
52	0.657	116	6.645
53	0.673	117	6.897
54	0.704	118	7.15
55	0.725	119	7.402
56	0.757	120	7.738
57	0.789	121	7.991
58	0.81	122	8.327
59	0.841	123	8.58
60	0.873	124	8.916
61	0.904	125	9.253
62	0.946	126	9.589
63	0.978	127	9.925

Table #20
VCM Wah Speed [Hz]

Data	Value	Data	Value	Data	Value
0	0.100	96	0.747	192	5.552
1	0.103	97	0.768	193	5.636
2	0.105	98	0.778	194	5.720
3	0.108	99	0.799	195	5.888
4	0.110	100	0.820	196	5.972
5	0.113	101	0.831	197	6.140
6	0.116	102	0.852	198	6.224
7	0.118	103	0.873	199	6.393
8	0.121	104	0.883	200	6.477
9	0.124	105	0.904	201	6.665
10	0.126	106	0.935	202	6.813
11	0.129	107	0.946	203	6.897
12	0.131	108	0.967	204	7.066
13	0.134	109	0.988	205	7.234
14	0.137	110	0.999	206	7.402
15	0.139	111	1.020	207	7.570
16	0.142	112	1.051	208	7.654
17	0.145	113	1.072	209	7.823
18	0.147	114	1.093	210	7.991
19	0.152	115	1.115	211	8.159
20	0.155	116	1.136	212	8.327
21	0.157	117	1.157	213	8.496
22	0.163	118	1.188	214	8.748
23	0.166	119	1.209	215	8.916
24	0.168	120	1.241	216	9.084
25	0.173	121	1.262	217	9.253
26	0.176	122	1.293	218	9.505
27	0.179	123	1.314	219	9.673
28	0.184	124	1.346	220	9.841
29	0.187	125	1.367	221	10.09
30	0.189	126	1.409	222	10.26
31	0.195	127	1.430	223	10.51
32	0.200	128	1.451	224	10.77
33	0.202	129	1.493	225	10.93
34	0.208	130	1.514	226	11.10
35	0.210	131	1.556	227	11.44
36	0.216	132	1.598	228	11.61
37	0.221	133	1.619	229	11.94
38	0.226	134	1.661	230	12.11
39	0.231	135	1.703	231	12.45
40	0.234	136	1.724	232	12.62
41	0.239	137	1.766	233	12.95
42	0.244	138	1.808	234	13.29
43	0.250	139	1.851	235	13.46
44	0.255	140	1.872	236	13.79
45	0.260	141	1.914	237	13.96
46	0.265	142	1.956	238	14.30
47	0.271	143	1.999	239	14.64
48	0.276	144	2.040	240	14.97
49	0.284	145	2.082	241	15.31
50	0.289	146	2.124	242	15.65
51	0.294	147	2.166	243	15.98
52</					

Table #21
Wah Release Time [ms]

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 #22
VCM Comp Level [dB]

Data	Value	Data	Value	Data	Value
0	-∞	96	-19.13	192	-1.06
1	-138.0	97	-18.86	193	-0.93
2	-120.0	98	-18.59	194	-0.79
3	-109.4	99	-18.32	195	-0.66
4	-101.9	100	-18.06	196	-0.53
5	-96.12	101	-17.80	197	-0.39
6	-91.37	102	-17.55	198	-0.26
7	-87.36	103	-17.29	199	-0.13
8	-83.88	104	-17.04	200	0.00
9	-80.81	105	-16.79		
10	-78.06	106	-16.54		
11	-75.58	107	-16.30		
12	-73.31	108	-16.06		
13	-71.23	109	-15.82		
14	-69.29	110	-15.58		
15	-67.50	111	-15.34		
16	-65.81	112	-15.11		
17	-64.23	113	-14.88		
18	-62.75	114	-14.65		
19	-61.34	115	-14.42		
20	-60.00	116	-14.19		
21	-58.73	117	-13.97		
22	-57.52	118	-13.75		
23	-56.36	119	-13.53		
24	-55.25	120	-13.31		
25	-54.19	121	-13.09		
26	-53.16	122	-12.88		
27	-52.18	123	-12.67		
28	-51.23	124	-12.46		
29	-50.32	125	-12.25		
30	-49.43	126	-12.04		
31	-48.58	127	-11.83		
32	-47.75	128	-11.63		
33	-46.95	129	-11.43		
34	-46.17	130	-11.23		
35	-45.42	131	-11.03		
36	-44.68	132	-10.83		
37	-43.97	133	-10.63		
38	-43.27	134	-10.44		
39	-42.60	135	-10.24		
40	-41.94	136	-10.05		
41	-41.29	137	-9.86		
42	-40.67	138	-9.67		
43	-40.05	139	-9.48		
44	-39.45	140	-9.29		
45	-38.87	141	-9.11		
46	-38.30	142	-8.92		
47	-37.74	143	-8.74		
48	-37.19	144	-8.56		
49	-36.65	145	-8.38		
50	-36.12	146	-8.20		
51	-35.61	147	-8.02		
52	-35.10	148	-7.85		
53	-34.61	149	-7.67		
54	-34.12	150	-7.50		
55	-33.64	151	-7.32		
56	-33.17	152	-7.15		
57	-32.71	153	-6.98		
58	-32.26	154	-6.81		
59	-31.81	155	-6.64		
60	-31.37	156	-6.47		
61	-30.94	157	-6.31		
62	-30.52	158	-6.14		
63	-30.10	159	-5.98		
64	-29.69	160	-5.81		
65	-29.29	161	-5.65		
66	-28.89	162	-5.49		
67	-28.50	163	-5.33		
68	-28.11	164	-5.17		
69	-27.73	165	-5.01		
70	-27.36	166	-4.86		
71	-26.99	167	-4.70		
72	-26.62	168	-4.54		
73	-26.26	169	-4.39		
74	-25.91	170	-4.23		
75	-25.56	171	-4.08		
76	-25.21	172	-3.93		
77	-24.87	173	-3.78		
78	-24.54	174	-3.63		
79	-24.20	175	-3.48		
80	-23.88	176	-3.33		
81	-23.55	177	-3.18		
82	-23.23	178	-3.04		
83	-22.92	179	-2.89		
84	-22.61	180	-2.75		
85	-22.30	181	-2.60		
86	-21.99	182	-2.46		
87	-21.69	183	-2.31		
88	-21.39	184	-2.17		
89	-21.10	185	-2.03		
90	-20.81	186	-1.89		
91	-20.52	187	-1.75		
92	-20.23	188	-1.61		
93	-19.95	189	-1.47		
94	-19.67	190	-1.34		
95	-19.40	191	-1.20		

Table #23
VCM Comp Attack Time [ms]

Data	Value	Data	Value	Data	Value
0	0.022	96	8.063	192	45.51
1	0.023	97	8.274	193	46.10
2	0.024	98	8.489	194	46.70
3	0.025	99	8.706	195	47.31
4	0.026	100	8.927	196	47.91
5	0.028	101	9.151	197	48.53
6	0.031	102	9.379	198	49.15
7	0.035	103	9.610	199	49.77
8	0.039	104	9.844	200	50.40
9	0.045	105	10.09		
10	0.051	106	10.33		
11	0.059	107	10.57		
12	0.068	108	10.82		
13	0.077	109	11.07		
14	0.088	110	11.33		
15	0.101	111	11.59		
16	0.114	112	11.85		
17	0.129	113	12.11		
18	0.146	114	12.38		
19	0.163	115	12.66		
20	0.182	116	12.93		
21	0.203	117	13.21		
22	0.225	118	13.50		
23	0.249	119	13.78		
24	0.274	120	14.07		
25	0.301	121	14.37		
26	0.330	122	14.67		
27	0.360	123	14.97		
28	0.393	124	15.27		
29	0.426	125	15.58		
30	0.462	126	15.90		
31	0.500	127	16.21		
32	0.539	128	16.53		
33	0.580	129	16.86		
34	0.623	130	17.18		
35	0.668	131	17.52		
36	0.716	132	17.85		
37	0.765	133	18.19		
38	0.816	134	18.53		
39	0.869	135	18.88		
40	0.924	136	19.23		
41	0.982	137	19.59		
42	1.041	138	19.95		
43	1.103	139	20.31		
44	1.167	140	20.68		
45	1.233	141	21.05		
46	1.301	142	21.42		
47	1.372	143	21.80		
48	1.444	144	22.18		
49	1.520	145	22.57		
50	1.597	146	22.96		
51	1.677	147	23.36		
52	1.759	148	23.75		
53	1.844	149	24.16		
54	1.931	150	24.56		
55	2.021	151	24.97		
56	2.113	152	25.39		
57	2.207	153	25.81		
58	2.304	154	26.23		
59	2.404	155	26.66		
60	2.506	156	27.09		
61	2.611	157	27.53		
62	2.718	158	27.97		
63	2.828	159	28.41		
64	2.941	160	28.86		
65	3.056	161	29.31		
66	3.174	162	29.77		
67	3.295	163	30.23		
68	3.418	164	30.70		
69	3.544	165	31.17		
70	3.673	166	31.64		
71	3.805	167	32.12		
72	3.940	168	32.60		
73	4.077	169	33.09		
74	4.217	170	33.58		
75	4.361	171	34.07		
76	4.507	172	34.57		
77	4.656	173	35.08		
78	4.807	174	35.59		
79	4.962	175	36.10		
80	5.120	176	36.62		
81	5.281	177	37.14		
82	5.445	178	37.67		
83	5.611	179	38.20		
84	5.781	180	38.73		
85	5.954	181	39.27		
86	6.130	182	39.82		
87	6.309	183	40.36		
88	6.491	184	40.92		
89	6.677	185	41.48		
90	6.865	186	42.04		
91	7.057	187	42.61		
92	7.252	188	43.18		
93	7.450	189	43.75		
94	7.651	190	44.33		
95	7.855	191	44.92		

Table #24
VCM Comp Release Time [ms]

Data	Value	Data	Value	Data	Value
0	10.88	96	133.76	192	502.40
1	10.90	97	136.34	193	507.54
2	10.94	98	138.94	194	512.70
3	11.00	99	141.56	195	517.88
4	11.10	100	144.22	196	523.10
5	11.22	101	146.90	197	528.34
6	11.36	102	149.60	198	533.60
7	11.54	103	152.34	199	538.90
8	11.74	104	155.10	200	544.22
9	11.96	105	157.88		
10	12.22	106	160.70		
11	12.50	107	163.54		
12	12.80	108	166.40		
13	13.14	109	169.30		
14	13.50	110	172.22		
15	13.88	111	175.16		
16	14.30	112	178.14		
17	14.74	113	181.14		
18	15.20	114	184.16		
19	15.70	115	187.22		
20	16.22	116	190.30		
21	16.76	117	193.40		
22	17.34	118	196.54		
23	17.94	119	199.70		
24	18.56	120	202.88		
25	19.22	121	206.10		
26	19.90	122	209.34		
27	20.60	123	212.60		
28	21.34	124	215.90		
29	22.10	125	219.22		
30	22.88	126	222.56		
31	23.70	127	225.94		
32	24.54	128	229.34		
33	25.40	129	232.76		
34	26.30	130	236.22		
35	27.22	131	239.70		
36	28.16	132	243.20		
37	29.14	133	246.74		
38	30.14	134	250.30		
39	31.16	135	253.88		
40	32.22	136	257.50		
41	33.30	137	261.14		
42	34.40	138	264.80		

Table #25
LO-FI Sampling Frequency Control [Hz]

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

Table #26
Ring Mod OSC Freq Coarse [Hz]

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

Vocal Harmony Parameter List / Liste der Vokalharmonie-Parameter / Liste des paramètres liés à l'harmonie vocale / Lista de parámetros de armonía vocal

Vocal Harmony Type List

Type Name	Description	MSB	LSB	Vocal Harmony	Vocal Effect
StandardDuet	Standard setting for lead vocal plus 1 harmony part. Useful for many music genres.	12	0	On	Off
StandardTrio	Standard setting for lead vocal plus 2 harmony parts. Useful for many music genres.	12	1	On	Off
StandardQuartet	Standard setting for lead vocal plus 3 harmony parts. Useful for many music genres.	12	2	On	Off
StudioVocals	This setting is suitable for studio production purposes. It features appropriate EQ settings and an understated Reverb.	12	33	On	On
JazzyQuartet	Good for Bass, Tenor and Alto singers; for Jazz repertoire. You will hear additional 6th notes.	12	3	On	Off
SchlagerTrio	Good for standard Schlager repertoire with simple harmony chords.	12	4	On	On
Destiny'sPop	Good for female singers with lead vocal plus 2 harmony parts above; for female Pop and R&B repertoire.	12	5	On	On
VocalDoubler	Use this preset to overdub your singing in real time. Turn the "Harmony" on to add harmony parts with Vocal Doubler effect.	12	34	Off	On
VocoderVH	This is a standard vocoder setting. It allows control of the harmony by playing keys higher than the Split Point.	12	6	On	Off
VocoderMONO	Standard vocoder setting. It allows control of the harmony by playing keys higher than the Split Point. You can play mono (single-note) melodies.	12	7	On	Off
Rock&Roll	Good for songs from the 50's and 60's with typical delay characteristics of that time. Turn the "Harmony" on to add harmony parts with Blues or Rock chords.	12	35	Off	On
TempoCross	Tempo Cross Delay on lead vocal. Turn the "Harmony" on to add harmony parts; good for Pop songs or special show effects.	12	36	Off	On
HeavyVoice	Good for Rock and Pop with overdriven vocal. Turn the "Harmony" on to add Harm.1 with 1 octave down.	12	37	Off	On
TelephoneChoir	Typical Lo-Fi vocal ensemble; use as old fashioned ensemble sound or exciting effect in Rock, Pop and Jazz.	12	38	On	On
LikeThe80s	Good for 80's Pop with typical reverb image.	12	39	On	On
Gramophone	Typical 30's vocal ensemble; reproduces an old fashioned gramophone sound.	12	40	On	On
PokerPhaser	Good for modern Pop songs using a phaser effect for lead vocal.	12	41	On	On
DetuneVoice	Lead vocal plus two additional detuned harmony parts for exciting detuned sound.	12	8	On	Off
PerfectFourth	Quartet singing only perfect fourths; parallel movement of all parts.	12	9	On	On
SingCMajorScale	Sing notes within a C major scale and the harmony parts will create suitable chord notes based on the C major scale.	12	10	On	Off
BalladChoir	Good for Ballad backing vocals with long reverb.	12	11	On	On
ChurchChoir	Good for standard church songs and Christmas songs with long reverb; recommended for Bass, Tenor and Alto voice.	12	12	On	On
GregorianChoir	Good for rubato Gregorian-chant-type monophonic songs with large reverb; parallel movement of all parts.	12	13	On	On
GospelChoir	Good for Gospel songs with long reverb on harmony parts and minor 7th feel.	12	14	On	On
CosmicChoir	Extremely phased vocals; useful for exciting effects in Dance and Modern Music.	12	42	On	On
AlpenGirls	Good for male singer with 2 female harmony parts above lead vocal.	12	15	On	On
CountryRock	Typical Country Rock quartet; recommended range is tenor/alto.	12	16	On	On
R&BDiva	Good for female alto singer for R&B repertoire; also usable with Tenor lead vocal.	12	17	On	On
ClosedPopChicks	Good for female singers with two harmony parts below.	12	18	On	On
QueenOfPop	Good for Pop and R&B songs using Tempo Delay. Turn the "Harmony" on to add 2nd Voice.	12	43	Off	On
Bob->Mary	Male singer can sound like Female voice with long romantic reverb.	12	19	On	On
Mary->Bob	Female singer can sound like Male voice with short reverb.	12	20	On	Off
FlangingVocals	Useful for modern Pop, Rock and Dance music.	12	44	Off	On
JazzySisters	Good for Bass and Tenor Singers. Harmony parts add 3 female Jazz singers.	12	21	On	On
QuartetOnStage	Good for Rock and Pop Music. Harmony parts make up a quartet.	12	22	On	On
DelayedHarmony	Useful in several genres with a tempo-synced delay choir as background.	12	45	On	On
KidsChoir	Creates the effect of a child's voice. Use this preset type and sing with your friends...	12	23	On	Off
ChorusChoir	The chorus effect adds a rich and exciting characteristics to your voice and the harmony parts.	12	46	On	On
BohemianVocode	Tempo flanging Vocoder Type; good for Rock or Pop songs and Intros.	12	47	On	On
RobotVoice	Creates a robotic voice effect. This is the setting. Use Harm.3 for variation.	12	48	On	On
ChordalXG	Chordal type setting of previous Vocal Harmony system.	90	0	On	Off
DetuneXG	Detune type setting of previous Vocal Harmony system.	91	0	On	Off
ChromaticXG	Chromatic type setting of previous Vocal Harmony system.	92	0	On	Off
VocoderXG	Vocoder type setting of previous Vocal Harmony system.	89	0	On	Off
Thru	Bypasses the processing without any harmonies and effects.	64	0	Off	Off

Chordal Type List

Type Name	Description
2Abv&1Blw.Simple	Harmony based on 3-tone chord, 2 above and 1 below; suitable for backing chorus parts. Basically it generates harmonies within an octave.
1Abv&2Blw.Simple	Harmony based on 3-tone chord, 1 above and 2 below; suitable for backing chorus parts. Basically it generates harmonies within an octave.
1Abv&2Blw.Open	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Basically it generates open harmonies of an octave or more.
1Abv&2Blw.OpenPara	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Basically it generates open harmonies of an octave or more. It includes the effect of creating parallel motion of a half tone in certain conditions.
1Abv&2Blw.OpenBlues	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Basically it generates open harmonies of an octave or more. Since it adds a major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues or for country rock in major keys. There are cases where it is not suitable during 7th chord in minor keys.
1Abv&1Blw+UnsD.Simple	Harmony suitable for a trio based on 2-tone chord, 1 above and 1 below (+ Oct. below the input pitch); it is suitable for backing chorus parts.
3Blw.Closed	Harmony based on 3 total tones from chords and scales, 3 below; it can produce a feeling of movement. Basically it generates harmonies within an octave. It is unsuitable for low input pitch, because the harmonies are low.
3Blw.ClosedPara	Harmony based on 3 total tones from chords and scales, 3 below; it can produce a feeling of movement. Basically it generates harmonies within an octave. It is unsuitable for low input pitch, because the harmonies are low. It includes the effect of creating parallel motion of a half tone in certain conditions.
3Blw.ClosedBlues	Harmony based on 3 total tones from chords and scales, 3 below; it can produce a feeling of movement. Basically it generates harmonies within an octave. It is unsuitable for low input pitch, because the harmonies are low. Because it adds the major second as the scale tone to harmony during 7th chord, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues in major keys or for country rock. There are cases where it is not suitable during 7th chord in minor keys.
2Blw+Bass.Chordal	Harmony based on 3-tone chord, 2 below and a chord root; it is suited for backing chorus parts.
2Blw+UnsD.Modal	Harmony suitable for a trio based on 2 total tones from chords and scales, 2 below (+ Oct. below the input pitch); it can produce a feeling of movement.
2Blw+UnsD.ModalBlues	Harmony suitable for a trio based on 2 total tones from chords and scales, 2 below (+ Oct. below the input pitch); it can produce a feeling of movement. Because it adds a major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues or for country rock in major keys. There are cases where it is not suitable during 7th chord in minor keys.
1Blw+UnsD+Bass	Harmony suitable for a duet based on 1 total tone from chord and scale, the nearby 1 below (+ Oct. below the input pitch and chord root); it can produce a feeling of movement.
1Blw.Far+UnsD+Bass	Harmony suitable for a duet based on 1-tone chord, 1 below, (priority on character) (+ Oct. below the input pitch and chord root). This setting skillfully expresses the chord character.
3Abv.Jazz	Harmony based on 3 total tones from chords and scales, 3 above; it can produce a feeling of movement. Basically it generates harmonies within an octave. It is suitable for low pitched vocals.
3Abv.Chordal	Harmony based on 3-tone chord, 3 above; it is suitable for backing chorus parts. It is also good for low pitched vocals.
3Abv.JazzPara	Harmony based on 3 total tones from chords and scales, 3 above; it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically it generates harmonies within an octave. It includes the effect of creating parallel motion of a half tone in certain conditions. It is suitable for low pitched vocals.
3Abv.JazzBluesPara	Harmony based on 3 total tones from chords and scales, 3 above; it handles a major triad as add 6th chord. Since it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically it handles a major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues or for country rock in major keys. Basically it generates harmonies within an octave. It includes the effect of creating parallel motion of a half tone in certain conditions. There are cases where it is not suitable during 7th chord in minor keys. It is suitable for low pitched vocals.
2Abv&1Blw.WideH	Harmony based on 3 total tones from chords and scales, 2 above and 1 below; it can produce a feeling of movement. Basically it generates open harmonies of an octave or more. It is suitable for low pitched vocals.
2Abv&1Blw.forDuo	Harmony based on 3 total tones from chords and scales, 2 above and 1 below; it can produce a feeling of movement. Because it combines elements suited for duets, Harmony1, 2 and 3 can be independently selected for use for duets. It can also be used for octave transposing. Basically, the highest tone (Harmony1) is an octave above the lowest tone (Harmony3), and this tone (Harmony1 or Harmony3) handles the major second as the scale tone in major triads. (You should be careful, however, depending on the song.) It is suited for low pitched vocals in situations where all harmonies are used for a quartet.
2Abv&1Blw.Jazz	Harmony based on 3 total tones from chords and scales, 2 above and 1 below; it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically, the highest tone (Harmony1) is an octave above the lowest tone (Harmony3). Each of its tones is treated as an element, so it can be used for duets or trios. It is suitable for low pitched vocals.
2Abv&1Blw.WideL	Harmony based on 3 total tones from chords and scales, 2 above and 1 below; it can produce a feeling of movement. Its harmony range tends to be lower than that of 2Abv&1Blw.WideH. Basically it generates open harmonies of an octave or more. It is suitable for low pitched vocals.
2Abv+UnsD.Modal6th	Harmony suitable for a trio based on 2 total tones from chords and scales, 2 above (+ Oct. below the input pitch); it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. It is suitable for low pitched vocals.
2Abv+Bass.Modal6th	Harmony suitable for a trio based on 2 total tones from chords and scales, 2 above (+ chord root); it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. It is suitable for low pitched vocals.
UnsU+1Abv+Bass.Open	Harmony suitable for a duet based on 1 total tone from chord and scale, the nearby 1 above (+ Oct. below the input pitch and chord root); it can produce a feeling of movement.
1Abv&2Blw.Jazz	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically it is a closed harmony within an octave.
1Abv&2Blw.80s	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Because it handles the major second as a scale tone in major triads, it can also provide passing tone. With priority on the chord's character, it is good for broadening the sound in which Maj7 and m7 chords are often used. Basically it generates closed harmonies within an octave.
1Abv&2Blw.Blues	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Since it handles the major second as a scale tone in major triads, it can also provide passing tones. Because it adds the major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues in major keys or for country rock. Basically it generates closed harmonies within an octave.
1Abv&2Blw.ChordalBlues	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Because it adds the major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues in major keys or for country rock. With priority on the chord's character, it is good for broadening the sound in which Maj7 and m7 chords are often used. Basically it generates closed harmonies within an octave.
1Abv&2Blw.Chordal	Harmony based on tone chords and scale tones used as duet, 1 above and 2 below; it can produce a feeling of movement. Harmony1 is a tone above and nearest the input pitch. Harmony2, tone which is below the input pitch and nearest the input pitch, handles a major triad as add 6th chord. Harmony3 is harmony with priority on the chord character of the lower notes. Because it handles the major second as a scale tone in major triads, it can also provide passing tones.
1Abv&2Blw.Wide	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. It handles a major triad as add 6th chord. Since it handles the major second as a scale tone, it can also provide passing tones. Basically it generates open harmonies of an octave or more.

Type Name	Description
1Abv&2Blw.WideBlues	Harmony based on 3 total tones from chords and scales, 1 above and 2 below; it can produce a feeling of movement. Since it handles a major triad as add 6th chord, and handles the major second as a scale tone, it can also provide passing tones. Because it adds the major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord in major keys or for country rock. Basically it generates open harmonies of an octave or more.
1Abv&1Blw+Bass	Harmony based on tone chords and scale tones used as duet, 1 above and 1 below; (+ chord root); it can produce a feeling of movement. Harmony1 is a tone above and nearest the input pitch. Harmony2, tone which is below the input pitch and nearest the input pitch, handles a major triad as add 6th chord, and since it handles the major second as a scale tone in major triads, it can provide passing tones.
1Abv&1Blw+UnsD.Modal6th	Harmony suitable for a trio based on 2 total tones from chords and scales, a above and below (+ Oct. below the input pitch); it can produce a feeling of movement. Because it handles a major triad as add 6th chord, and handles the major second as a scale tone, it can provide passing tones.
1Abv&1Blw+Bass.Modal6th	Harmony based on tone chords and scale tones used as duet, 1 above and 1 below (+ chord root); it can produce a feeling of movement. Harmony1 is harmony of above tone with priority on the chord character. Harmony2, harmony near the below side, handles a major triad as add 6th chord, and since it handles the major second as a scale tone in major triads, it can provide passing tones.
3Blw.Jazz	Harmony based on 3 total tones from chords and scales, 3 below; it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically it generates harmonies within an octave. It is suitable for high pitched vocals.
3Blw.JazzBlues	Harmony based on 3 total tones from chords and scales, 3 below; it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Because it adds the major second as a scale tone to harmony during 7th chords, it provides a passing tone during 7th chords. Suitable for 3-tone chord blues or for country rock in major keys. Basically it generates harmonies within an octave. It is suitable for high pitched vocals.
2Blw+UnsD.Modal6th	Harmony suitable for a trio based on 2 total tones from chords and scales, 2 below (+ Oct. below input pitch); it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically it generates harmonies within an octave. It is suitable for high pitched vocals.
2Blw+Bass.Modal6th	Harmony suitable for a trio based on 2 total tones from chords and scales, 2 below (+ chord root); it handles a major triad as add 6th chord. Because it handles the major second as a scale tone in major triads, it can also provide passing tones. Basically it generates harmonies within an octave. It is suitable for high pitched vocals.
ScaleDiatonic	This generates harmonies based on the scale specified by the KEY ROOT/TYPE value and the degree specified by the DEGREE value. The harmonies are not dependent on a chord. If there are many notes, the chord feeling intensifies, so it is suitable for use as duets, fixed at a third above. This setting is good for modal church music or modal jazz.
Parallel	This can reproduce harmonies for which semitone pitches are fixed 4th build or diminished sounds, for example. This setting is good, for example, in modal jazz scales (when you want to eliminate chordal feeling) or in progressive music.

Harmony Assign Parameters

Parameter	Value	Description
Transpose Mode *These are effective only when Vocoder or Vocoder-Mono is selected in Mode.	0	Assigns the harmony to the octave range centered around the pitch of the played note.
	Auto	Assigns the harmony to the same octave range as the vocal (microphone) input.
	-3	Assigns the harmony to a range roughly 3 octaves below the pitch of the played note.
	-2	Assigns the harmony to a range roughly 2 octaves below the pitch of the played note.
	-1	Assigns the harmony to a range roughly 1 octave below the pitch of the played note.
	+1	Assigns the harmony to a range roughly 1 octave above the pitch of the played note.
	+2	Assigns the harmony to a range roughly 2 octaves above the pitch of the played note.
	+3	Assigns the harmony to a range roughly 3 octaves above the pitch of the played note.
Session Table *These are effective only when a Chordal Type other than Scale Diatonic or Parallel is selected.	Normal	The chord designation is used as shown. This is for general use in conventional music genres.
	Simple	Tends to add a simpler harmony. Use this when you need simple accompaniment.
	R&R	Tends to add harmony with a strong major 6th in both major and minor triads. This is good with rock 'n' roll music.
	UrbanA	Tends to add harmony with a strong major 6th to the major triad and a minor 7th to the minor triad. This is good for a sophisticated, urban feel.
	UrbanB	Tends to add harmony with a strong major 7th to the major triad and a minor 7th to the minor triad. This is good for a sophisticated, urban feel.
	Blues7	Tends to add harmony with a strong minor 7th. This is good for blues music.
UrbanC	Tends to add harmony with a strong major 9th to both the major and minor triads. This is good for a sophisticated, urban feel.	
Key Root *These are effective only when the Chordal Type parameter is set to Scale Diatonic.		Determines the root key for the transposition.
Key Type *These are effective only when the Chordal Type parameter is set to Scale Diatonic.		

Pitch Correct Parameters

Parameter	Description
OFF	The input sound is not pitch corrected. Since the harmony has a more natural sound, this setting is good for duets, etc.
SOFT1	The input sound is almost without pitch correction. Since the pitches of the harmony are more accurate, this setting is good for backing chorus parts, etc.
SOFT2	The input sound is slightly pitch corrected. Since the harmony has a more natural sound, this setting is good for duets, etc.
HARD	The input sound is pitch corrected. Since the pitches of the harmony are more accurate, this setting is good for backing chorus parts, etc.

Vocal Effect Type List

Type Name	Description	MSB	LSB
Romantic Rev (Romantic Reverb)	Long reverb for vocal part. Romantic image.	1	0
80s Pop Rev (80s'Pop Reverb)	Long reverb for vocal part. 80's pop image.	1	16
Room	Reverb simulating the acoustics of a room.	2	0
Stage (Concert Stage)	Reverb simulating the concert stage.	3	0
Plate	Reverb simulating a plate reverb unit.	4	0
VocalDoubler	Immediate delay with center focused feeling.	5	16
StereoSpread	Immediate delay with spread feeling.	5	17
Delay	Produces simple delayed sounds: L, R, and C (center).	5	0
Short Delay	Produces short delayed sound with narrow image.	5	1
R&R Delay (Rock&Roll Delay)	Produces slap back echo sound. Good for Rock&Roll music.	5	18
Cross Delay	The feedback of the two delayed sounds is crossed.	8	0
Tempo Delay	Tempo-synchronized delay.	21	0
Tempo Cross (Tempo Cross Delay)	Tempo-synchronized cross delay.	22	0
Chorus	Conventional chorus program with rich, warm chorusing.	66	0
EQ Hi-Fi	Equalizer effect that boosts both high and low frequencies.	76	16
EQ Tel	Equalizer effect that cuts both high and low frequencies.	76	0
Gramophone	Produces Lo-Fi sound with gramophone image.	94	0
Robot	Produces Lo-Fi sound with robotic image.	94	16
Overdriven	Produces overdriven sound. Good for rock and dance music.	98	0
Scream&Shout	Produces heavy distorted sound.	98	16
TempoFlanger	Tempo-synchronized flanger.	107	0
TempoPhaser	Tempo-synchronized phaser.	108	0
TempoAutoPan	Tempo-synchronized auto pan.	121	0
No Effect	No effect.	0	0

Vocal Effect Parameter List

Table: Indicates the corresponding table number in the Effect Data Assign Table.

Romantic Rev, 80s Pop Rev, Room, Stage, Plate

No.	Parameter	Display	Min	Max	Table
1	Reverb Time	0.3s – 30.0s	0	69	Table #1
2	Diffusion	0 – 10	0	10	
3	Initial Delay	0.1ms – 99.3ms	0	63	Table #2
4	HPF Cutoff	Thru, 22Hz – 8.0kHz	0	52	Table #3
5	LPF Cutoff	1.0kHz – 18kHz, Thru	34	60	Table #3
6					
7					
8					
9					
10					
11	Reverb Delay	0.1ms – 99.3ms	0	63	Table #2
12	Density	0 – 4	0	4	
13	ER/Reverb Balance	E63>R – E=R – E<R63	1	127	
14	High Damp	0.1 – 1.0	1	10	
15	Feedback Level	-63 – 0 – +63	1	127	
16					

Tempo Cross

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

VocalDoubler, StereoSpread, Delay, Short Delay, R&R Delay

No.	Parameter	Display	Min	Max	Table
1	L ch Delay	0.1ms – 1486.0ms	1	14860	
2	R ch Delay	0.1ms – 1486.0ms	1	14860	
3	C ch Delay	0.1ms – 1486.0ms	1	14860	
4	Feedback Delay	0.1ms – 1486.0ms	1	14860	
5	Feedback Level	-63 – 0 – +63	1	127	
6	C ch Level	0 – 127	0	127	
7	High Damp	0.1 – 1.0	1	10	
8					
9					
10					
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76	
15	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3
16	EQ High Gain	-12dB – 0dB – +12dB	52	76	

Chorus

No.	Parameter	Display	Min	Max	Table
1	LFO Frequency	0.00Hz – 39.7Hz	0	127	Table #8
2	LFO Depth	0 – 127	0	127	
3	Feedback Level	-63 – 0 – +63	1	127	
4	Delay Offset	0.0ms – 50ms	0	127	Table #9
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76	
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3
9	EQ High Gain	-12dB – 0dB – +12dB	52	76	
10					
11	EQ Mid Frequency	100Hz – 10.0kHz	14	54	Table #3
12	EQ Mid Gain	-12dB – 0dB – +12dB	52	76	
13	EQ Mid Width	0.1 – 12.0	1	120	
14					
15	Input Mode	Mono, Stereo	0	1	
16					

Cross Delay

No.	Parameter	Display	Min	Max	Table
1	L->R Delay	0.1ms – 743.0ms	1	7430	
2	R->L Delay	0.1ms – 743.0ms	1	7430	
3	Feedback Level	-63 – 0 – +63	1	127	
4	Input Select	L, R, L&R	0	2	
5	High Damp	0.1 – 1.0	1	10	
6					
7					
8					
9					
10					
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76	
15	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3
16	EQ High Gain	-12dB – 0dB – +12dB	52	76	

EQ Hi-Fi, EQ Tel

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

Tempo Delay

No.	Parameter	Display	Min	Max	Table
1	Delay Time	64th/3 – 4thx6	0	19	Table #5
2	Feedback Level	-63 – 0 – +63	1	127	
3	Feedback High Dump	0.1 – 1.0	1	10	
4	L/R Diffusion	-63ms – 0ms – 63ms	1	127	
5	Lag	-63ms – 0ms – 63ms	1	127	
6					
7					
8					
9					
10					
11					
12					
13	EQ Low Frequency	32Hz – 2.0kHz	4	40	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76	
15	EQ High Frequency	500Hz – 16.0kHz	28	58	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76	

Gramophone, Robot

No.	Parameter	Display	Min	Max	Table
1	Sampling Freq Control	44.1kHz – 345Hz	0	127	Table #25
2	Word Length	1 – 127	1	127	
3	Output Gain	-6dB – +36dB	0	42	
4	LPF Cutoff	63Hz – 18kHz, 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					
11					
12					
13					
14					
15	Input Mode	Mono, Stereo	0	1	
16					

Overdriven, Scream&Shout

No.	Parameter	Display	Min	Max	Table
1	Overdrive	0% – 100%	0	100	
2	Device	Transistor, VintageTube, 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					
11					
12					
13					
14					
15					
16					

NO EFFECT

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

TempoFlanger

No.	Parameter	Display	Min	Max	Table
1	LFO Frequency	16th – 4thx16	5	29	Table #5
2	LFO Depth	0 – 127	0	127	
3	Feedback Level	-63 – 0 – +63	1	127	
4	Delay Offset	0.0ms – 50ms	0	127	Table #9
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76	
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3
9	EQ High Gain	-12dB – 0dB – +12dB	52	76	
10					
11	EQ Mid Frequency	100Hz – 10.0kHz	14	54	Table #3
12	EQ Mid Gain	-12dB – 0dB – +12dB	52	76	
13	EQ Mid Width	0.1 – 12.0	1	120	
14	LFO Phase Difference	-180deg – 0deg – +180deg	4	124	
15					
16					

TempoPhaser

No.	Parameter	Display	Min	Max	Table
1	LFO Frequency	16th – 4thx16	5	29	Table #5
2	LFO Depth	0 – 127	0	127	
3	Phase Shift Offset	0 – 127	0	127	
4	Feedback Level	-63 – 0 – +63	1	127	
5					
6	EQ Low Frequency	32Hz – 2.0kHz	4	40	Table #3
7	EQ Low Gain	-12dB – 0dB – +12dB	52	76	
8	EQ High Frequency	500Hz – 16.0kHz	28	58	Table #3
9	EQ High Gain	-12dB – 0dB – +12dB	52	76	
10					
11	Stage	3 – 11	3	11	
12					
13	LFO Phase Difference	-180deg – 0deg – +180deg	4	124	
14					
15					
16					

TempoAutoPan

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

Parameter Chart / Parametertabelle / Tableau des paramètres / Gráfico de parámetros

Screen		Parameter	Backup *1	Backup/Restore File *2	Registration Memory		Comment		
					Regist	Group			
Piano Room	Main	Piano Voice	x	x	○	Voice			
		Reverb Type	x	x	○	Common			
		Lid Position	○*	○*	○	Voice	*Saved for each Piano Voice.		
	Piano Room Setting	Lid Position	Lid Position	○*	○*	○	Voice	*Saved for each Piano Voice.	
		Brightness	Brightness	○*	○*	○	Voice	*Saved for each Piano Voice.	
		Touch Curve	Touch Curve	○	○	x			
			Fixed Velocity	○	○	x			
		Environment	Reverb Type	x	x	○	Common		
			Reverb Depth	○*	○*	○	Voice	*Saved for each Piano Voice.	
		Master Tune	Master Tune	○	○	x			
		VRM	VRM On/Off	○*	○*	○	Voice	*Saved for each Piano Voice.	
		Damper Resonance	Damper Resonance	○*	○*	○	Voice	*Saved for each Piano Voice.	
		String Resonance	String Resonance	○*	○*	○	Voice	*Saved for each Piano Voice.	
		Key Off Sampling	Key Off Sampling	○*	○*	○	Voice	*Saved for each Piano Voice.	
Half Pedal Point	Half Pedal Point	○	○	x					
Each Key Setting	Tune	○*	○*	x		*Saved for each Piano Voice.			
	Volume	○*	○*	x		*Saved for each Piano Voice.			
Voice	Main	Main Voice	x	x	○	Voice			
		Layer On/Off	x	x	○	Voice			
		Layer Voice	x	x	○	Voice			
		Left On/Off	x	x	○	Voice			
		Left Voice	x	x	○	Voice			
		Split Point	○	○	○	Voice, Style			
	Voice Select	Favorites	○	○	x				
	Voice Setting	Octave	Octave	x	x	○	Voice		
			Part On/Off	x	x	○	Voice		
		Mixer	Pan	x	x	○	Voice		
			Reverb Type	x	x	○	Common		
			Reverb Depth	x	x	○	Voice		
			Volume	x	x	○	Voice		
			Style	Main	Style	x	x	○	Style
Syncho Start On/Off					x	x	○	Style	
Volume	x	x			○	Style			
Tempo	x	x			○	Style			
Part On/Off	x	x			○	Style			
Section	x	x			○	Style			
Style Select	Favorites	○	○	x					
Style Setting	Fingering	Chord Detection Area	○	○	○	Style			
		Split Point	○	○	○	Voice, Style			
	Style	Intro On/Off	○	○	x				
		Ending On/Off	○	○	x				
		Dynamics Control	x	x	○	Style			
		Auto Section Change On/Off	x	x	○	Style			
		Auto Section Change Timing	x	x	○	Style			
		Auto Section Change Sensitivity	x	x	○	Style			
		Tempo	○	○	x				
	Mixer	Part On/Off	x	x	○	Style			
		Pan	x	x	○	Style			
		Reverb Type	x	x	○	Common			
		Reverb Depth	x	x	○	Style			
		Volume	x	x	○	Style			
Song	Main	Song	x	x	○	Song			
		AB Repeat	x	x	○	Song			
		Guide On/Off	x	x	○	Song			
		MIDI Song Volume	x	x	○	Song			
		Audio Song Volume	x	x	○*	Song	*Available only when connected to a Wi-Fi network.		
		MIDI Song Tempo	x	x	○	Song			
		Audio Song Tempo	x	x	○	Song			
		MIDI Song Transpose	x	x	○	Song			
		Audio Song Transpose	x	x	○	Song			

Screen		Parameter	Backup *1	Backup/Restore File *2	Registration Memory		Comment	
					Regist	Group		
Song	Main	Part On/Off	x	x	○	Song	Available only when selecting a MIDI Song.	
		Chord Chart	○*	○*	x		*Saved for each Audio Song, but not MIDI Songs.	
	Song Select	Favorites	○	○*	x		*Songs in "Music Library" category are not backed up.	
		Song Repeat	x	x	x			
		User Songs	○	○	x			
	Setting	Arrangement	Accompaniment Score Pattern	x	x	○	Song	Available only when selecting an Audio Song.
			Backing	x	x	○	Song	Available only when selecting an Audio Song.
			Melody Suppressor	x	x	○	Song	Available only when selecting an Audio Song.
			Style	x	x	○	Style	Available only when selecting an Audio Song.
			Part On/Off	x	x	○	Style	Available only when selecting an Audio Song.
		Playback	Stream Lights On/Off	○	○	x		
			Stream Lights Speed	○	○	x		
			Guide Type	○	○	x		Available only when selecting a MIDI Song.
			Quick Start On/Off	○	○	x		Available only when selecting a MIDI Song.
			MIDI Part Channel - Auto Set On/Off	x	x	○	Song	Available only when selecting a MIDI Song.
			MIDI Part Channel - Right	x	x	○	Song	Available only when selecting a MIDI Song.
			MIDI Part Channel - Left	x	x	○	Song	Available only when selecting a MIDI Song.
		Score	Size	○	○	x		
			Part	x	x	○	Song	
			Quantize	x	x	○	Song	Available only when selecting a MIDI Song.
		Chord	Lyric On/Off	○	○	x		Available only when selecting a MIDI Song.
		Lyric	Chord On/Off	○	○	x		Available only when selecting a MIDI Song.
			Language	○	○	x		Available only when selecting a MIDI Song.
		Mixer	Part On/Off	x	x	○	Song, Style*	**"Song" is available when selecting a MIDI Song. "Style" is available when selecting an Audio Song.
			Pan	x	x	○	Song, Style*	**"Song" is available when selecting a MIDI Song. "Style" is available when selecting an Audio Song.
			Reverb Type	x	x	○	Common	
			Reverb Depth	x	x	○	Song, Style*	**"Song" is available when selecting a MIDI Song. "Style" is available when selecting an Audio Song.
			Volume	x	x	○	Song, Style*	**"Song" is available when selecting a MIDI Song. "Style" is available when selecting an Audio Song.
		Recording	Recording Method	x	x	○	Song	
			Rec Part On/Off	x	x	x		Available only for MIDI Recording
Rec Channel			x	x	x		Available only for MIDI Recording	
Registration Memory		Registration Memory	○	○	x			
Metronome	Tempo	x	x	○	Others			
	Beat	x	x	x				
	Bell On/Off	○	○	x				
	Volume	○	○	x				
Balance	Style Volume	x	x	○	Style			
	Main Voice Volume	x	x	○	Voice			
	Layer Voice Volume	x	x	○	Voice			
	Left Voice Volume	x	x	○	Voice			
	MIDI Song Volume	x	x	○	Song			
	Audio Song Volume	x	x	○*	Song	*Available only when connected to a Wi-Fi network.		
	Mic Volume	x	x	○	Others			
	Aux In Volume	○	○	○	Others			

Screen		Parameter	Backup *1	Backup/Restore File *2	Registration Memory		Comment	
					Regist	Group		
Utility	Transpose	Keyboard/Style Transpose	x	x	○	Others		
		MIDI Song Transpose	x	x	○	Song		
		Audio Song Transpose	x	x	○	Song		
	Tuning	Master Tune	○	○	x			
		Scale Tune Type	x	x	○	Others		
		Scale Tune Base Note	x	x	○	Others		
	Keyboard	Touch Curve	○	○	x			
		Fixed Velocity	○	○	x			
	Pedal	Main	Right Pedal Function	x	x	○	Others	
			Center Pedal Function	x	x	○	Others	
			Left Pedal Function	x	x	○	Others	
			AUX Pedal Function	x	x	○	Others	
			AUX Pedal Polarity	○	○	x		
		Setting	Part On/Off	x	x	○	Others	
			Half Pedal Point	○	○	x		
			Soft Pedal Depth	x	x	○	Others	
Glide Up/Down			x	x	○	Others		
Glide Range			x	x	○	Others		
Utility	Pedal	Setting	Glide On Speed	x	x	○	Others	
			Pitch Bend Up/Down	x	x	○	Others	
			Pitch Bend Range	x	x	○	Others	
	Mic	Mic On/Off	x	x	○	Others		
		Mic Volume	x	x	○	Others		
		Mic Setting	x	x	○	Others		
		Mic Reverb Depth	x	x	○	Others		
		Mic Noise Gate On/Off	x	x	○	Others		
		Vocal Harmony Type	x	x	○	Others		
		Vocal Harmony On/Off	x	x	○	Others		
		Vocal Effect On/Off	x	x	○	Others		
		Lead Vocal Volume	x	x	○	Others		
	Harmony Volume	x	x	○	Others			
	Master EQ	Main	Frequency	x	x	○	Others	
			Gain	x	x	○	Others	
			Q	x	x	○	Others	
	Master EQ Select	User Settings	○	○	x			
Sound Setting	Speaker	○	○	x				
	Binaural On/Off	○	○	x				
	IAC On/Off	○	○	x				
	IAC Depth	○	○	x				
	AUX In Noise Gate On/Off	○	○	x				
System	Language	○	x	x				
	Audio Rec Format	○	○	x				
	Auto Power Off	○	○	x				
Instrument		Wi-Fi Setting	x	x	x			

*1 These parameters are saved even after the application is closed.

*2 These parameters can be backed up/restored on the Utility Menu.

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. Hexadecimal numbers may include the letter "H" as a suffix. Also, "n" can freely be defined as any whole number. To enter data/values, refer to the table below.

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

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

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

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

- Except the table above, for example 144-159 (decimal)/9nH/1001 0000-1001 1111 (binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/FOH/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)

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

MIDI Events	[MIDI]																[Internal Sequencer]				
	Status byte	1st Data byte		2nd Data byte		Voices		MIDI Reception				MIDI Transmission			PLAY		REC				
	Status	Data (Hex)	Parameter	Data (Hex)	Parameter	Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/ Layer/ Left			
Key Off [GM1] [GM2]	8nH (n: Channel Number)	kk	Key no. (0-127)	vv	Velocity (0-127)	○	○ (Harmony Channel)	○	○	○	○	○	○	○	○	○	○	○	○		
Key On [GM1] [GM2]	9nH (n: Channel Number)	kk	Key no. (0-127)	vv	Key On: vv=1-127 Key Off: vv=0	○	○ (Harmony Channel)	○	○	○	○	○	●	○	●	○	○	○	○		
Control Change	BnH	0 (00H)	Bank Select MSB [GM2]	0 (00H) 0 (00H) 8 (08H) 8 (08H) 8 (08H) 64 (40H) 104 (68H) 104 (68H) 118 (76H) 119 (77H) 120 (78H) 121 (79H) 126 (7EH) 127 (7FH)	0 (00H) S.Articulation Voice Mega Voice S.Articulation Voice S.Articulation2 Voice SFX Voice Normal S.Articulation Voice GS Rhythm GS Normal GM2 Rhythm GM2 Normal SFX kit Drum kit	○	×	○	○	○ (Main)	○	○	●	●	×	○	○	○	○		
		1 (01H)	Modulation [GM1] [GM2]	0-127 (00H...7FH)	Data	○	×	○	○	○ (All keyboard parts)	○	○	○	●	○	●	○	○	○	○	
		5 (05H)	Portamento Time [GM2]	0-127 (00H...7FH)	Data	○ (Except S.Articulation Piano, Organ Flutes)	×	○	○	○ (All keyboard parts)	○	×	○	○	●	×	×	○	○	○	○
		6 (06H)	Data Entry MSB [GM2]	0-127 (00H...7FH)	Data	○	○ (Harmony Channel)	○	○	○ (All keyboard parts)	○	○	○	○	●	○	×	○	○	○	○
		7 (07H)	Main Volume [GM1] [GM2]	0-127 (00H...7FH)	Data	○	○	○ (A/D Part Receive Channel)	○	○	○ (All keyboard parts)	○	○	○	○	●	●	×	○	○	○
		10 (0AH)	Panpot [GM1] [GM2]	0-127 (00H...7FH)	L64...C...R63	○	○	○ (A/D Part Receive Channel)	○	○	○ (All keyboard parts)	○	○	○	○	●	●	×	○	○	○
		11 (0BH)	Expression [GM1] [GM2]	0-127 (00H...7FH)	Data	○	○	×	○	○	○ (All keyboard parts)	○	○	○	○	●	●	●	○	○	○
		16 (10H)	General Purpose Controller	0-127 (00H...7FH)	Data	○	○	×	○	○	○ (All keyboard parts)	○	×	○	○	×	×	×	○	○	×
		32 (20H)	Bank Select LSB [GM2]	0-127 (00H...7FH)	Data	○	○	×	○	○	○ (Main)	○	○	○	○	●	●	×	○	○	○
		38 (26H)	Data Entry LSB [GM2]	0-127 (00H...7FH)	Data	○	○	×	○	○	○ (All keyboard parts)	○	○	○	○	●	×	×	○	○	○
		64 (40H)	Sustain (Damper) [GM1] [GM2]	0-127 (00H...7FH)	Data	○	○	○ (Harmony Channel)	○	○	○ (All keyboard parts)	○	×	○	○	●	×	●	○	○	○
		65 (41H)	Portamento [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	○ (Except S.Articulation Piano, Organ Flutes)	×	○	○	○ (All keyboard parts)	○	×	○	○	○	●	×	●	○	○	○
		66 (42H)	Sostenuto [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	○	×	○	○	○ (All keyboard parts)	○	×	○	○	○	●	×	●	○	○	○
		67 (43H)	Soft Pedal [GM2]	0-127 (00H...7FH)	0...63, 64...127 (OFF, ON)	○	×	○	○	○ (All keyboard parts)	○	×	○	○	○	●	×	●	○	○	○
		71 (47H)	Harmonic Content [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	●	●	×	○	○	○
		72 (48H)	Release Time [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	●	○	×	○	○	○
		73 (49H)	Attack Time [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	●	○	×	○	○	○
		74 (4AH)	Brightness [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	●	●	×	○	○	○
		75 (4BH)	Decay Time [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	×	×	×	○	○	×
		76 (4CH)	Vibrato Rate [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	×	×	×	○	○	×
77 (4DH)	Vibrato Depth [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	×	×	×	○	○	×		
78 (4EH)	Vibrato Delay [GM2]	0-127 (00H...7FH)	-64...0...+63	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	×	×	×	○	○	×		
80 (50H)	General Purpose Controller (Articulation 1)	0-127 (00H...7FH)	0: OFF 127: ON	○ (SA/SA2 Voice only)	×	○	×	○	×	×	×	×	○	○	×	○	○	○	○		
81 (51H)	General Purpose Controller (Articulation 2)	0-127 (00H...7FH)	0: OFF 127: ON	○ (SA2 Voice only)	×	○	×	○	×	×	×	×	○	○	×	○	○	○	○		
84 (54H)	Portamento Control	0-127 (00H...7FH)	Key no. (0-127)	○	×	○	○	○	×	○	○	○	○	○	×	○	○	○	○		
91 (5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0-127 (00H...7FH)	Data	○	○ (A/D Part Receive Channel)	○	○	○ (All keyboard parts)	○	○	○	○	○	●	●	×	○	○	○		
93 (5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0-127 (00H...7FH)	Data	○	○ (A/D Part Receive Channel)	○	○	○ (All keyboard parts)	○	○	○	○	○	●	●	×	○	○	○		
94 (5EH)	Effect4 Depth (Variation Send Level)	0-127 (00H...7FH)	Data	○	×	○	○	○ (All keyboard parts)	○	○	○	○	○	○	×	×	○	○	×		
96 (60H)	RPN Increment	—	—	The data byte is ignored.	○	○ (Harmony Channel)	○	○	×	○	○	○	○	×	×	×	○	○	×		
97 (61H)	RPN Decrement	—	—	The data byte is ignored.	○	○ (Harmony Channel)	○	○	×	○	○	○	○	×	×	×	○	○	×		
100 (64H)	RPN LSB [GM2]	0-127 (00H...7FH)	Data	○	○ (Harmony Channel)	○	○	○ (All keyboard parts)	○	○	○	○	○	○	×	○	○	○	○		
101 (65H)	RPN MSB [GM2]	0-127 (00H...7FH)	Data	○	○ (Harmony Channel)	○	○	○ (All keyboard parts)	○	○	○	○	○	○	×	○	○	○	○		

MIDI Events	Status byte	[MIDI]										[Internal Sequencer]						
		1st Data byte		2nd Data byte		Voices		MIDI Reception				MIDI Transmission			PLAY		REC	
		Status	Data (Hex)	Parameter	Data (Hex)	Parameter	Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW
Mode Message	BnH (n: Channel Number)	120 (78H)	All Sound Off [GM2]	0 (00H)	Data	○	×	○	○	○ (All keyboard parts) (Same operation as when All Note Off)	○	○	×	×	×	○	×	×
		121 (79H)	Reset All Controllers [GM1] [GM2]	0 (00H)	Data	○	×	○	×	○	×	×	×	×	×	○	×	×
		122 (7AH)	Local Control	0 (00H) 127 (7FH)	OFF ON	—	—	○				×	×	×	×	×	×	
		123 (7BH)	All Note Off [GM1] [GM2]	0 (00H)	Data	○	○ (Harmony Channel)	○	○	○ (All keyboard parts)	○	○	×	×	×	○	×	×
		124 (7CH)	Omni Off [GM2]	0 (00H)	Data	○	×	○ *1	×	×	×	×	×	×	×	○	×	×
		125 (7DH)	Omni On [GM2]	0 (00H)	Data	○	×	○ *2	×	×	×	×	×	×	×	○	×	×
		126 (7EH)	Mono [GM2]	0-16 (00H...10H)	Data	○	×	○	×	×	×	×	×	×	×	○	×	×
		127 (7FH)	Poly [GM2]	0 (00H)	Data	○	×	○	×	×	×	×	×	×	×	○	×	×
Program Change [GM1] [GM2]	CnH (n: Channel Number)	pp (00H...7FH)	Voice no. (0-127)	—	—	○	×	○	○	○ (Main)	○	○	●	●	×	○	○	○
Channel After Touch [GM1] [GM2]	DnH (n: Channel Number)	vv (00H...7FH)	Data	—	—	○	×	○	○	○ (All keyboard parts)	×	○	×	×	○	×	○	
Pitch Bend Change [GM1] [GM2]	EnH (n: Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	○	○ (Harmony Channel)	○	○	○ (All keyboard parts)	○	○	●	○	●	○	○	○
Realtime Message	F8H MIDI Clock	—	—	—	—	—	—	○ (Received when the Clock is set to MIDI, USB1, or USB2)				○ (Transmitted when the Clock is set to Internal and the Transmit Clock is set to on.)			—	—	—	
		FAH Start	—	—	—	—	—	—	○ (Received when the Clock is set to MIDI, USB1, or USB2)				○ (Transmitted when the Transmit Clock is set to on.)			—	—	—
		FBH Continue	—	—	—	—	—	—	×				×			—	—	—
		FCH Stop	—	—	—	—	—	—	○ (Received when the Clock is set to MIDI, USB1, or USB2)				○ (Transmitted when the Transmit Clock is set to on.)			—	—	—
		FEH Active Sense [GM2]	—	—	—	—	—	—	○				○			—	—	—
FFH System Reset	—	—	—	—	—	—	—	×				×			—	—	—	

●: Transmitted via the application, and keyboard or controller performances.

About Mic/Vocal Harmony column:
 (Harmony Channel): The relevant parameters are received by the song part designated by the Special Effect's Harmony Channel Parameter.
 (A/D Part Receive Channel): The relevant parameters are received by the song part designated by the XG's AD Part Receive Ch.

*1: Same operation as when receiving All Note Off.

*2: Same operation as when receiving All Note Off. OMNI ON is not enabled.

MIDI CHANNEL MESSAGE (2)

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

NRPN (Non Registered Parameter Number)

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

●: Transmitted via the application, and keyboard/controller performances.
 NRPN MSB: 14H-35H (for Drums) message is accepted as long as the channel is set with a Drum Voice.
 Data Entry LSB: Ignored.

RPN (Registered Parameter Number)

NRPN				Data Entry	Parameter	Data Range	[MIDI]										[Internal Sequencer]		
MSB	LSB	MSB	LSB	Voices			MIDI Reception					MIDI Transmission			PLAY		REC		
				Regular/ Drum/ Natural/ Organ Voice			Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY		REW	
00H	00H	mmH	-	Pitch Bend Sensitivity [GM1] [GM2] [GS]	mm: 00H-18H (0...+24[semitones])	○	×	○	○	○	○	○	●	○	×	○	○	○	
00H	01H	mmH	11H	Fine Tune [GM1] [GM2] [GS]	mm lI: 00H 00H -100[cent] ... mm lI: 40H 00H 0[cent] ... mm lI: 7FH 7FH 100[cent]	○	×	○	○	○	○	○	●	○	×	○	○	○	
00H	02H	mmH	-	Coarse Tune [GM1] [GM2] [GS]	mm: 28H-40H-58H (-24...0...+24[semitones])	○	×	○	○	○	○	○	×	○	×	○	○	×	
00H	05H	mmH	11H	Modulation Sensitivity [GM2]	mm: Specified in semitone steps lI: Specified in 100/128 cent steps	○	×	○	×	×	×	×	×	×	×	○	×	×	
7FH	7FH	-	-	Null [GM2]	-	○	○	○	○	○	○	○	×	○	×	○	×	×	

● Transmitted via the application, and keyboard/controller performances.

About Mic/Vocal Harmony column:

The relevant parameters are received by the Song part designated by the Effect's Harmony Channel Parameter or Melody Channel Parameter.

XG PARAMETER CHANGE TABLE

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

MIDI Parameter Change Table (XG SYSTEM)

										[MIDI]				[Internal Sequencer]					
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voices		MIDI Reception				MIDI Transmission			PLAY		REC		
						Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/ Layer/ 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 bit 3-0 → bit 15-12 2nd bit 3-0 → bit 11-8 3rd bit 3-0 → bit 7-4 4th bit 3-0 → bit 3-0	*Panel setting value	○	○	○				●			○	×	×
		04	1	00-7F	MASTER VOLUME	0...127	7F	○	×	○ (Available for extra parts and Song)				○			○	○	×
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	×	×	×				×			×	×	×
		06	1	28-58	TRANSPOSE	-24...0...+24[semitones]	40	○	○	○ (Available for extra parts and Song)				○			○	○	×
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	—	○ (Drum only)	×	○ (Available for extra parts and Song)				○			○	×	×
		7E	1	00	XG SYSTEM ON	00=XG system ON	—	○	×	○ (Available for extra parts and Song)				○			○*1	×	○
		7F	1	00	ALL PARAMETER RESET	00=ON	—	○	×	○ (Available for extra parts and Song)				○*2			○*3	×	×

TOTAL SIZE 07
 ●: Transmitted via the application.
 *1: Transmitted only when making Song settings.
 *2: Transmitted after converting this parameter into "XG SYSTEM ON."
 *3: Transmitted only when making Song settings, and after converting this parameter into "XG SYSTEM ON."

MIDI Parameter Change Table (SYSTEM INFORMATION)

										[MIDI]				[Internal Sequencer]				
Address (H)	Size (H)	Data (H)	Parameter	Description	Voices		MIDI Reception				MIDI Transmission			PLAY		REC		
					Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/ Layer/ Left	
01	00	00 ... 0D 0E 0F	E	20-7F ... 20-7F	Model Name 1 ... Model Name 14 NOT USED NOT USED	32...127 (ASCII CHARACTER) ... 32...127 (ASCII CHARACTER)	—	—	—				○ (Available only when receiving request via MIDI)			—	—	—

TOTAL SIZE 10
 Transmitted in response to Dump Request. Not received.

MIDI Parameter Change Table (EFFECT1)

										[MIDI]				[Internal Sequencer]					
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voices		MIDI Reception				MIDI Transmission			PLAY		REC		
						Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/ Layer/ Left	
02	01	00	2	00-7F 00-7F	REVERB TYPE MSB REVERB TYPE LSB	Refer to Effect Parameter List.	01 (-HALL1) 00	○	○	○				●			○	○	○
		02	1	00-7F	REVERB PARAMETER 1	:	Depends on Reverb Type	○	○	○				●			○	○	○
		03	1	00-7F	REVERB PARAMETER 2	:	Depends on Reverb Type	○	○	○				●			○	○	○
		04	1	00-7F	REVERB PARAMETER 3	:	Depends on Reverb Type	○	○	○				●			○	○	○
		05	1	00-7F	REVERB PARAMETER 4	:	Depends on Reverb Type	○	○	○				●			○	○	○
		06	1	00-7F	REVERB PARAMETER 5	:	Depends on Reverb Type	○	○	○				●			○	○	○
		07	1	00-7F	REVERB PARAMETER 6	:	Depends on Reverb Type	○	○	○				●			○	○	○
		08	1	00-7F	REVERB PARAMETER 7	:	Depends on Reverb Type	○	○	○				●			○	○	○
		09	1	00-7F	REVERB PARAMETER 8	:	Depends on Reverb Type	○	○	○				●			○	○	○
		0A	1	00-7F	REVERB PARAMETER 9	:	Depends on Reverb Type	○	○	○				●			○	○	○
		0B	1	00-7F	REVERB PARAMETER 10	:	Depends on Reverb Type	○	○	○				●			○	○	○
		0C	1	00-7F	REVERB RETURN	→dB...0dB...+6dB (0...64...127)	40	○	○	○				●			○	○	○
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	○	○	○				○			○	○	×

TOTAL SIZE 0E
 ●: Transmitted via the application.

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

TOTAL SIZE 06

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

TOTAL SIZE 0F

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

TOTAL SIZE 06

●: Transmitted via the application.

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

TOTAL SIZE 21

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

TOTAL SIZE 06

●: Transmitted via the application.

MIDI Parameter Change Table (MULTI EQ)

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

TOTAL SIZE 15

●: Transmitted via the application.

MIDI Parameter Change Table (EFFECT2)

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

TOTAL SIZE 12

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

TOTAL SIZE 6

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

TOTAL SIZE 14

●: Transmitted via the application.

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

n: insertion effect number

CSP-150	n = 0 - 5
CSP-170	n = 0 - 5

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

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

Type MSB of the effect types that require Parameter MSB are: 5, 6, 7, 8, 95, 96, 97, 98, 104.

When bulk dumps that include Effect Type data are transmitted, the parameters for addresses 02-0B will always be transmitted.

For effects that require MSB however, when a bulk dump is received, the parameters for addresses 02-0B will not be received.

MIDI Parameter Change Table (SPECIAL EFFECT)

				[MIDI]										[Internal Sequencer]				
Address (H)	Size (H)	Data (H)	Parameter	Description	*The SPECIAL EFFECT Parameter cannot be reset to its factory setting with XG SYSTEM ON.	Voices		MIDI Reception				MIDI Transmission			PLAY		REC	
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/Layer/Left
04	00	00	2	00-7F	VOCAL HARMONY TYPE MSB	Vocal Harmony (12), Synth Vocoder (13), Vocoder XG (89), Chordal XG (90), Detune XG (91), Chromatic XG (92), Thru (0...11, 14...88, 93...127)	×	○										×
				00-7F	VOCAL HARMONY TYPE LSB													
		02	1	00-7F	VOCAL HARMONY PARAMETER 1		×	○		○			●		○	○		×
		03	1	00-7F	VOCAL HARMONY PARAMETER 2		×	○		○			●		○	○		×
		04	1	00-7F	VOCAL HARMONY PARAMETER 3		×	○		○			●		○	○		×
		05	1	00-7F	VOCAL HARMONY PARAMETER 4		×	○		○			●		○	○		×
		06	1	00-7F	VOCAL HARMONY PARAMETER 5		×	○		○			○		○	○		×
		07	1	00-7F	VOCAL HARMONY PARAMETER 6		×	○		○			○		○	○		×
		08	1	00-7F	VOCAL HARMONY PARAMETER 7		×	○		○			●		○	○		×
		09	1	00-7F	VOCAL HARMONY PARAMETER 8		×	○		○			●		○	○		×
		0A	1	00-7F	VOCAL HARMONY PARAMETER 9		×	○		○			●		○	○		×
		0B	1	00-7F	VOCAL HARMONY PARAMETER 10		×	○		○			○		○	○		×
		0C	1	00-7F	VOCAL HARMONY PART NUMBER	ON (64), OFF (0...63, 65...127)	×	○		○			●		○	○		○
		0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63	×	×		×			×		×	×		×
		0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63	×	×	×	×			×		×	×		×
		0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63	×	×	×	×			×		×	×		×
		10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63	×	×	×	×			×		×	×		×
		11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63	×	×	×	×			×		×	×		×

TOTAL SIZE 0D

		14	1	00-7F	HARMONY CHANNEL	1...16 (0...15), OFF (127)	×	○		○			●		○	○		×
		15	1	00-7F	MELODY CHANNEL	1...16 (0...15), OFF (127)	×	○		×			○		○	○		×

TOTAL SIZE 2

		16	1	00-7F	Lead Output Level		×	○		○			●		○	○		×
		17	1	00-7F	Harmony Output Level		×	○		○			●		○	○		×

TOTAL SIZE 2

		18	1	00-7F	Lead Vocal Effect Dry Level		×	○		○			●		○	○		×
		19	1	00-7F	Harmony Vocal Effect Dry Level		×	○		○			●		○	○		×
		1A	1	00-7F	Lead Vocal Effect Send Level		×	○		○			●		○	○		×
		1B	1	00-7F	Harmony Vocal Effect Send Level		×	○		○			●		○	○		×

TOTAL SIZE 4

		20	1	00-7F	VOCAL HARMONY PARAMETER 11		×	○		○			●		○	○		×
		21	1	00-7F	VOCAL HARMONY PARAMETER 12		×	○		○			●		○	○		×
		22	1	00-7F	VOCAL HARMONY PARAMETER 13		×	○		○			●		○	○		×
		23	1	00-7F	VOCAL HARMONY PARAMETER 14		×	○		○			●		○	○		×
		24	1	00-7F	VOCAL HARMONY PARAMETER 15		×	○		○			●		○	○		×
		25	1	00-7F	VOCAL HARMONY PARAMETER 16		×	○		○			●		○	○		×

TOTAL SIZE 6

		26	1	00-7F	VOCAL HARMONY PARAMETER 17		×	○		○			●		○	○		×
		27	1	00-7F	VOCAL HARMONY PARAMETER 18		×	○		○			●		○	○		×
		28	1	00-7F	VOCAL HARMONY PARAMETER 19		×	○		○			●		○	○		×
		29	1	00-7F	VOCAL HARMONY PARAMETER 20		×	○		○			●		○	○		×
		2A	1	00-7F	VOCAL HARMONY PARAMETER 21		×	○		○			●		○	○		×
		2B	1	00-7F	VOCAL HARMONY PARAMETER 22		×	○		○			●		○	○		×
		2C	1	00-7F	VOCAL HARMONY PARAMETER 23		×	○		○			●		○	○		×
		2D	1	00-7F	VOCAL HARMONY PARAMETER 24		×	○		○			●		○	○		×
		2E	1	00-7F	VOCAL HARMONY PARAMETER 25		×	○		○			●		○	○		×
		2F	1	00-7F	VOCAL HARMONY PARAMETER 26		×	○		○			●		○	○		×
		30	1	00-7F	VOCAL HARMONY PARAMETER 27		×	○		○			●		○	○		×
		31	1	00-7F	VOCAL HARMONY PARAMETER 28		×	○		○			●		○	○		×
		32	1	00-7F	VOCAL HARMONY PARAMETER 29		×	○		○			●		○	○		×
		33	1	00-7F	VOCAL HARMONY PARAMETER 30		×	○		○			●		○	○		×
		34	1	00-7F	VOCAL HARMONY PARAMETER 31		×	○		○			●		○	○		×
		35	1	00-7F	VOCAL HARMONY PARAMETER 32		×	○		○			●		○	○		×
		36	1	00-7F	VOCAL HARMONY PARAMETER 33		×	○		○			●		○	○		×
		37	1	00-7F	VOCAL HARMONY PARAMETER 34		×	○		○			●		○	○		×
		38	1	00-7F	VOCAL HARMONY PARAMETER 35		×	○		○			●		○	○		×
		39	1	00-7F	VOCAL HARMONY PARAMETER 36		×	○		○			●		○	○		×
		3A	1	00-7F	VOCAL HARMONY PARAMETER 37		×	○		○			●		○	○		×
		3B	1	00-7F	VOCAL HARMONY PARAMETER 38		×	○		○			●		○	○		×
		3C	1	00-7F	VOCAL HARMONY PARAMETER 39		×	○		○			●		○	○		×
		3D	1	00-7F	VOCAL HARMONY PARAMETER 40		×	○		○			●		○	○		×
		3E	1	00-7F	VOCAL HARMONY PARAMETER 41		×	○		○			●		○	○		×
		3F	1	00-7F	VOCAL HARMONY PARAMETER 42		×	○		○			●		○	○		×
		40	1	00-7F	VOCAL HARMONY PARAMETER 43		×	○		○			●		○	○		×
		41	1	00-7F	VOCAL HARMONY PARAMETER 44		×	○		○			●		○	○		×
		42	1	00-7F	VOCAL HARMONY PARAMETER 45		×	○		○			●		○	○		×
		43	1	00-7F	VOCAL HARMONY PARAMETER 46		×	○		○			●		○	○		×
		44	1	00-7F	VOCAL HARMONY PARAMETER 47		×	○		○			●		○	○		×
		45	1	00-7F	VOCAL HARMONY PARAMETER 48		×	○		○			●		○	○		×

TOTAL SIZE 20

04	00	60	2	00-7F 00-7F	VOCAL EFFECT TYPE MSB VOCAL EFFECT TYPE LSB			×	○	○	●	○	○	×
		62	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 1 MSB VOCAL EFFECT PARAMETER 1 LSB			×	○	○	●	○	○	×
		64	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 2 MSB VOCAL EFFECT PARAMETER 2 LSB			×	○	○	●	○	○	×
		66	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 3 MSB VOCAL EFFECT PARAMETER 3 LSB			×	○	○	●	○	○	×
		68	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 4 MSB VOCAL EFFECT PARAMETER 4 LSB			×	○	○	●	○	○	×
		6A	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 5 MSB VOCAL EFFECT PARAMETER 5 LSB			×	○	○	●	○	○	×
		6C	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 6 MSB VOCAL EFFECT PARAMETER 6 LSB			×	○	○	●	○	○	×
		6E	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 7 MSB VOCAL EFFECT PARAMETER 7 LSB			×	○	○	●	○	○	×
		70	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 8 MSB VOCAL EFFECT PARAMETER 8 LSB			×	○	○	●	○	○	×
		72	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 9 MSB VOCAL EFFECT PARAMETER 9 LSB			×	○	○	●	○	○	×
		74	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 10 MSB VOCAL EFFECT PARAMETER 10 LSB			×	○	○	○	○	○	×
		76	1	00-7F	VOCAL EFFECT SWITCH	ON (1-127), OFF (0)		×	○	○	●	○	○	○
		77	1	00-7F	VOCAL EFFECT OUTPUT LEVEL			×	○	○	○	○	○	×

TOTAL SIZE 18

04	00	7A	1	00-7F	VOCAL EFFECT PARAMETER 11			×	○	○	●	○	○	×
		7B	1	00-7F	VOCAL EFFECT PARAMETER 12			×	○	○	●	○	○	×
		7C	1	00-7F	VOCAL EFFECT PARAMETER 13			×	○	○	●	○	○	×
		7D	1	00-7F	VOCAL EFFECT PARAMETER 14			×	○	○	●	○	○	×
		7E	1	00-7F	VOCAL EFFECT PARAMETER 15			×	○	○	●	○	○	×
		7F	1	00-7F	VOCAL EFFECT PARAMETER 16			×	○	○	●	○	○	×

TOTAL SIZE 6

●: Transmitted via the application.

When the Vocal Harmony 1 is selected, the Parameters for Address 00-25 will be effective.

MW INSERTION CONTROL DEPTH
 BEND INSERTION CONTROL DEPTH
 CAT INSERTION CONTROL DEPTH
 AC1 INSERTION CONTROL DEPTH
 AC2 INSERTION CONTROL DEPTH
 MELODY CHANNEL

Lead Output Level
 Harmony Output Level
 Lead Vocal Effect Dry Level
 Lead Vocal Effect Send Level
 Harmony Vocal Effect Send Level
 Harmony Vocal Effect Dry Level
 Vocal Effect

MIDI Parameter Change Table (MULTI PART)

				[MIDI]											[Internal Sequencer]					
Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voices			MIDI Reception					MIDI Transmission			PLAY		REC	
						Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/Layer/Left		
08	nn	00	1	00-20	ELEMENT RESERVE	0...32	part 10, 26-0, other parts=2	—	—	—	—	—	—	—	—	—	—	—	—	
		01	1	00-7F	BANK SELECT MSB	0...127	part 10=7F, other parts=00	○	×	○	○	×	○	○	×	×	×	○	○	×
		02	1	00-7F	BANK SELECT LSB	0...127	00	○	×	○	○	×	○	○	×	×	×	○	○	×
		03	1	00-7F	PROGRAM NUMBER	1...128	00	○	×	○	○	×	○	○	×	×	×	○	○	×
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF	Part No.	○	×	○	×	×	×	×	×	×	×	○	×	×
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	○	×	○	×	×	×	×	×	×	×	○	○	○
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part 10=02, other parts=00	○	×	○	×	×	×	●	●	×	×	○	×	○
		08	1	28-58	NOTE SHIFT	-24...0...+24 [semitones]	40	○	×	○	○	×	○	×	×	×	×	○	○	×
		09 0A	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7 [Hz] 1st bit 3-0 → bit 7-4 2nd bit 3-0 → bit 3-0	08 00	○	×	○	○	×	○	○	×	×	×	○	×	×
		0B	1	00-7F	VOLUME	0...127	64	○	×	○	○	×	○	○	×	×	×	○	○	×
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	○	×	○	○	×	×	○	●	×	×	○	○	○
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	○	×	○	○	×	×	○	●	×	×	○	○	○
		0E	1	00-7F	PAN	RND, L63...C...R63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	○	×	○	×	×	×	×	×	×	×	○	×	×
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	○	×	○	×	×	×	×	×	×	×	○	×	×
		11	1	00-7F	DRY LEVEL	0...127	7F	○	×	○	○	×	○	○	×	×	×	○	○	○
		12	1	00-7F	CHORUS SEND	0...127	00	○	×	○	○	×	○	○	×	×	×	○	○	×
		13	1	00-7F	REVERB SEND	0...127	28	○	×	○	○	×	○	○	×	×	×	○	○	×
		14	1	00-7F	VARIATION SEND	0...127	00	○	×	○	○	×	○	○	×	×	×	○	○	○
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	○	×	○	○	×	○	○	×	×	×	○	○	×
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	○	○	×	○	○	×	×	×	○	×	×
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	○	○	×	○	○	●	×	×	○	○	○
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	○	○	×	○	○	●	×	×	○	○	○
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	○	×	○	○	×	×	○	●	○	×	○	○	○
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	○	×	○	○	×	×	○	●	○	×	○	○	○
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	○	×	○	○	×	×	○	●	○	×	○	○	○
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24 [semitones]	42	○	×	○	○	×	○	○	×	×	×	○	×	×
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	○	○	×	○	○	×	×	×	○	×	×
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	○	○	×	○	○	×	×	×	○	×	×
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	○	×	○	○	×	○	○	×	×	×	○	×	×
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	○	×	○	○	×	○	○	×	×	×	○	×	×
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	○	×	○	○	×	○	○	×	×	×	○	×	×

TOTAL SIZE 29

		30	1	00-01	Rcv PITCH BEND	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		36	1	00-01	Rcv RPN	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		37	1	00-01	Rcv NRPN	OFF, ON	XG mode=01, GM mode=00	○	×	○	×	×	×	×	×	×	×	○	×	×
		38	1	00-01	Rcv MODULATION	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		39	1	00-01	Rcv VOLUME	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		3A	1	00-01	Rcv PAN	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		3C	1	00-01	Rcv HOLD1	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		40	1	00-01	Rcv BANK SELECT	OFF, ON	01	○	×	○	×	×	×	×	×	×	×	○	×	×
		41	1	00-7F	SCALE TUNING C	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		42	1	00-7F	SCALE TUNING C#	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		43	1	00-7F	SCALE TUNING D	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		44	1	00-7F	SCALE TUNING D#	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		45	1	00-7F	SCALE TUNING E	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		46	1	00-7F	SCALE TUNING F	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		47	1	00-7F	SCALE TUNING F#	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		48	1	00-7F	SCALE TUNING G	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		49	1	00-7F	SCALE TUNING G#	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		4A	1	00-7F	SCALE TUNING A	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		4B	1	00-7F	SCALE TUNING A#	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		4C	1	00-7F	SCALE TUNING B	-64...0...+63 [cent]	40	○	×	○	○	×	○	○	●	●	×	○	○	○
		4D	1	28-58	CAT PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	○	○	×	○	○	×	×	×	○	×	×
		4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	○	○	×	×	○	×	×	×	○	×	×
		4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	○	○	×	×	○	×	×	×	○	×	×
		50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	○	×	○	○	×	○	○	×	×	×	○	×	×
		51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	○	×	○	○	×	○	○	×	×	×	○	×	×
		52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	○	×											

		53	1	28-58	PAT PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	○	×	×	×	×	×	×	○	×	×
		54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	○	×	×	×	×	×	×	○	×	×
		55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	○	×	×	×	×	×	×	○	×	×
		56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	×	○	×	×
		57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	×	○	×	×
		58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	×	○	×	×
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	○	×	○	×	×	×	×	×	×	○	×	×
		5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	○	×	×	×	×	×	○	×	×	
		5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	○	×	×	×	×	×	○	×	○	
		5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	○	×	×	×	×	×	○	×	×	
		5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	○	○	○	
		5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	○	○	○	
		5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	○	○	○	
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	○	×	○	○	×	×	×	×	○	○	○	
		61	1	28-58	AC2 PITCH CONTROL	-24...0...+24 [semitones]	40	○	×	○	×	×	×	×	×	○	×	×	
		62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450 [cent]	40	○	×	○	×	×	×	×	×	○	×	×	
		63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100 [%]	40	○	×	○	×	×	×	×	×	○	×	×	
		64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	○	×	×	
		65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	○	×	×	
		66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	○	×	○	×	×	×	×	×	○	×	×	
		67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00		×	○	○	×	×	○	×	×	○	○	×
		68	1	00-7F	PORTAMENTO TIME	0...127	00	○	×	○	○	×	×	○	×	×	○	○	×
		69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	○	×	○	○	×	×	○	×	×	○	×	×
		6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	○	×	○	○	×	×	○	×	×	○	×	×
		6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	○	×	○	○	×	×	○	×	×	○	×	×
		6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	○	×	○	○	×	×	○	×	×	○	×	×
		6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	○	×	○	○	×	×	○	×	×	○	×	×
		6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	○	×	○	○	×	×	○	×	×	○	×	×

TOTAL SIZE 3F

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

TOTAL SIZE 04

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

TOTAL SIZE 0C

		0A	nn	00	1		NOT USED													
				01	1	00-01	Mono Priority	Latest, Highest	00	○	—	×	×	×	×	×	×	○	○	○
				02	1	00-01	Portamento Mono Legato	Normal, Pitch Poly	00	○	—	×	×	×	×	×	×	○	○	○

TOTAL SIZE 03

		40	1	00-7F	MW OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	—	○	○	×	×	○	●	×	×	○	○	○
		41	1	00-7F	BEND OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	—	○	×	×	×	×	×	×	×	○	○	×
		42	1	00-7F	CAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	—	○	○	×	×	×	×	×	×	○	○	×
		43	1	00-7F	PAT OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	—	○	×	×	×	×	×	×	×	○	○	×
		44	1	00-7F	AC1 OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	—	○	○	×	×	○	×	×	×	○	○	○
		45	1	00-7F	AC2 OFFSET LEVEL CONTROL	-100 - 100 [%]	40	○	—	○	×	×	×	×	×	×	×	○	○	×

TOTAL SIZE 06

●: Transmitted via the application.

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)

							[MIDI]					[Internal Sequencer]						
Address (H)		Size (H)	Data (H)	Parameter	Description	*The A/D PART parameter cannot be reset to its factory setting with XG System On.	Voices		MIDI Reception				MIDI Transmission			PLAY		REC
							Regular/Drum/Natural/Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW
10	On	00	1	00-01	INPUT GAIN	MIC, LINE	×	×					×		×	×	×	
		01	1	00-7F	BANK SELECT MSB	0...127	×	×		×			×		×	×	×	
		02	1	00-7F	BANK SELECT LSB	0...127	×	×		×			×		×	×	×	
		03	1	00-7F	PROGRAM NUMBER	1...128	×	×		×			×		×	×	×	
		04	1	00-0E,7F	Rcv CHANNEL	1...32 (*1), OFF	×	○			○		○		○	×	×	
		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	×	○		○			●		○	×	×	
		0C	1		NOT USED		—	—		—			—		—	—	—	
		0D	1		NOT USED		—	—		—			—		—	—	—	
		0E	1	01-7F	PAN	L63...C...R63	×	○		○			●		○	×	×	
		0F	1		NOT USED		—	—		—			—		—	—	—	
		10	1		NOT USED		—	—		—			—		—	—	—	
		11	1	00-7F	DRY LEVEL	0...127	×	○		○			●		○	×	×	
		12	1	00-7F	CHORUS SEND	0...127	×	○		○			●		○	×	×	
		13	1	00-7F	REVERB SEND	0...127	×	○		○			●		○	×	×	
		14	1	00-7F	VARIATION SEND	0...127	×	○		○			●		○	×	×	

TOTAL SIZE 15
 *1: Channels 17 – 32 only send to TG.
 n: A/D Part Number (0)

MIDI Parameter Change Table (DRUM SETUP)

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

TOTAL SIZE 10

		20	1	00-7F	EQ BASS GAIN	-12...+12 [dB]	40	×	×		×		○		×	×	×
		21	1	00-7F	EQ TREBLE GAIN	-12...+12 [dB]	40	×	×		×		○		×	×	×
		22	1		NOT USED		—	—	—		—		—	—	—	—	—
		23	1		NOT USED		—	—	—		—		—	—	—	—	—
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k [Hz]	0C	×	×		×		○		×	×	×
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k [Hz]	36	×	×		×		○		×	×	×
		26	1		NOT USED		—	—	—		—		—	—	—	—	—
		27	1		NOT USED		—	—	—		—		—	—	—	—	—
		28	1		NOT USED		—	—	—		—		—	—	—	—	—
		29	1		NOT USED		—	—	—		—		—	—	—	—	—
		2A	1		NOT USED		—	—	—		—		—	—	—	—	—
		2B	1		NOT USED		—	—	—		—		—	—	—	—	—
		2C	1		NOT USED		—	—	—		—		—	—	—	—	—
		2D	1		NOT USED		—	—	—		—		—	—	—	—	—

TOTAL SIZE 0E

		70	4	00-7F	SOURCE DRUM KIT (Bank Select MSB)	0...127	Depends on the note	○ (Drum only)	×		○ (Available only for Song parts)		○		○	×	×
				00-7F	SOURCE DRUM KIT (Bank Select LSB)	0...127	Depends on the note	○ (Drum only)	×		○ (Available only for Song parts)		○		○	×	×
				00-7F	SOURCE DRUM KIT (Program Number)	0...127	Depends on the note	○ (Drum only)	×		○ (Available only for Song parts)		○		○	×	×
				0D-5B	SOURCE DRUM KIT (Note Number)	C-1...G5	Depends on the note	○ (Drum only)	×		○ (Available only for Song parts)		○		○	×	×

TOTAL SIZE 04

n: Drum Setup Number (0-1)

rr: note number (0D-5B)

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

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

Note

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

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

MIDI Event	Data Format	[MIDI]							[Internal Sequencer]																																
		Voices		MIDI Reception				MIDI Transmission			PLAY		REC																												
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/ Layer/ Left																											
Channel Pressure (Aftertouch) (GM2)	<p>F0 7F XN 09 01 0M PP RR ... F7</p> <p>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 00000001 01 = Sub-ID #2= Controller Type: 01 (Channel Pressure) 0000xxxx OM = MIDI Channel (00-0F) 0ppppppp PP = Controlled Parameter 0rrrrrrr RR = Data ... 11110111 F7 = End of Exclusive</p> <p>Make sure to set both the controlled parameter and the range. Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Controlled 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-5BH</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450 cents</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>	Controlled Parameter (pp)	Data (RR)	Description	Default Value	pp=00 Pitch Control	28H-5BH	-24...0...+24 semitones	40H	pp=01 Filter Cutoff Control	00H-7FH	-9600...0...+9450 cents	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	○	×	○	×	×	×	×	×	×	○	×	×
Controlled Parameter (pp)	Data (RR)	Description	Default Value																																						
pp=00 Pitch Control	28H-5BH	-24...0...+24 semitones	40H																																						
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pp=04 LFO Filter Depth	00H-7FH	0...127	00H																																						
pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H																																						
Controller (Control Change) (GM2)	<p>F0 7F XN 09 03 0M CC PP RR ... F7</p> <p>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 00000011 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</p> <p>Make sure to set both the controlled parameter and the range. Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Controlled 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-5BH</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H-7FH</td> <td>-9600...0...+9450 cents</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>	Controlled Parameter (pp)	Data (RR)	Description	Default Value	pp=00 Pitch Control	28H-5BH	-24...0...+24 semitones	40H	pp=01 Filter Cutoff Control	00H-7FH	-9600...0...+9450 cents	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	○	×	○	×	×	×	×	×	×	○	×	×
Controlled Parameter (pp)	Data (RR)	Description	Default Value																																						
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pp=05 LFO Amplitude Depth	00H-7FH	0...127	00H																																						
Key-Based Instrument Control (GM2)	<p>F0 7F XN 0A 01 0M KK CC VV ... F7</p> <p>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</p> <p>Make sure to set both the controller number and the value.</p> <table border="1"> <thead> <tr> <th>Controller Number (CC)</th> <th>Value (VV)</th> <th>Description</th> <th>Default Value</th> </tr> </thead> <tbody> <tr> <td>CC=07H Volume</td> <td>00H-7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>CC=0AH Pan</td> <td>00H-7FH</td> <td>-L63...C...R63 (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5BH Reverb Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5DH Chorus Send Level</td> <td>00H-7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> </tbody> </table>	Controller Number (CC)	Value (VV)	Description	Default Value	CC=07H Volume	00H-7FH	-100...0...+100%	40H	CC=0AH Pan	00H-7FH	-L63...C...R63 (absolute)	(Preset value)	CC=5BH Reverb Send Level	00H-7FH	0...Max (absolute)	(Preset value)	CC=5DH Chorus Send Level	00H-7FH	0...Max (absolute)	(Preset value)	○ (Drum only)	×	○	×	×	×	×	×	×	○	×	×								
Controller Number (CC)	Value (VV)	Description	Default Value																																						
CC=07H Volume	00H-7FH	-100...0...+100%	40H																																						
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CC=5DH Chorus Send Level	00H-7FH	0...Max (absolute)	(Preset value)																																						

System Exclusive Messages (Universal Non-Real Time Messages)

MIDI Event	Data Format	[MIDI]										[Internal Sequencer]		
		Voices		MIDI Reception					MIDI Transmission			PLAY		REC
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	PLAY	REW	From Main/ Layer/ Left
GM1 System On (GM1) [GM2]	F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000001 01 = Sub-ID #2 = General MIDI On 11110111 F7 = End of Exclusive	○	—						○		○	×	○	
GM2 System On (GM2)	F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000011 03 = Sub-ID #2 = General MIDI2 On 11110111 F7 = End of Exclusive	○	—					○		○	×	×		
General MIDI System Off (GM1) [GM2]	F0 7E XN 09 02 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001001 09 = Sub-ID #1 = General MIDI Message 00000010 02 = Sub-ID #2 = General MIDI Off 11110111 F7 = End of Exclusive	○	—					○		○	×	×		
Scale/Octave Tuning (GM2)	F0 7E XN 08 08 JJ GG MM SS ... F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0-F, whichever is received. X=ignored 00001000 08 = Sub-ID #1= MIDI Tuning Standard 00001000 08 = Sub-ID #2= scale/octave tuning 1 byte form 0jjjjjjjj JJ = Channel/octon byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0gggggggg GG = Channel byte 2 – bits 0 to 6 = channel 8 to 14 0mmmmmmmm MM= Channel byte 2 – bits 0 to 6 = channel 1 to 7 0ssssssss SS = 12 byte tuning offset of 12 semitones from C to B 00H means -64 cent 40H means 0 cent 7FH means +63 cent ... 11110111 F7= End of Exclusive	○	×					○		○	×	×		

System Exclusive Messages (2)

Application Range	MIDI (CSP-150/170)
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- * 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]									
		Voices		MIDI Reception					MIDI Transmission		
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower
Section Control	F0 43 7E 00 ss dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No. 00H INTRO 1 01H INTRO 2 02H INTRO 3 03H INTRO 4 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 1 21H ENDING 2 22H ENDING 3 23H ENDING 4 0aaaaaaa dd = Switch On/Off 00H (Off) 7FH (On) 11110111 F7 = End of Exclusive	—	—			○				●	
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111	—	—			○				●	

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

● Transmitted via the application.

System Exclusive Messages (XG)

MIDI Event	Data Format	[MIDI]								
		Voices		MIDI Reception					MIDI Transmission	
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style
XG Parameter Changes	F0 43 1n 4C hh mm 1l 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	*Refer to XG Parameter Change Table.		○ *Refer to XG Parameter Change Table.					○ *Refer to XG Parameter Change Table.	
XG Bulk Dump	F0 43 0n 4C aa bb hh mm 1l dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data : : 0ddddd dd = Data 0ccccc cc = Checksum 11110111 F7 = End of Exclusive	*Refer to XG Parameter Change Table.		○ *Refer to XG Parameter Change Table.					○ *Refer to XG Parameter Change Table.	
XG Parameter Request	F0 43 3n 4C hh mm 1l F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	—	—	○ *Refer to XG Parameter Change Table.					○ *Refer to XG Parameter Change Table.	
XG Dump Request	F0 43 2n 4C hh mm 1l 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	—	—	○ *Refer to XG Parameter Change Table.					○ *Refer to XG Parameter Change Table.	

System Exclusive Messages (Clavinova compliance)

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

MIDI Event	Data Format	[MIDI]										
		Voices		MIDI Reception					MIDI Transmission			
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	
Internal Clock	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	—	—			○				×		
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	—	—			○				×		
Organ Flutes data Bulk Dump	F0 43 73 01 06 0B 00 00 01 06 0n [Bulk Data] sum F7 01H Model ID (Clavinova common ID) 06H Bulk ID 0BH Bulk No. (Organ Flutes data Bulk Dump) 00H, 00H, 01H, 06H Data Length: 16 bytes 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 - 02H 00H: Sine, 01H: Vintage, 02H: Euro 18th [Volume] 01 - 09H 19th [aux] 00H 20th [aux] 00H 21st [aux] 00H 22nd [aux] 00H sum Check Sum = 0-sum (BULK DATA) Wave Variation: Euro	○ (Organ Flute)	×	○	○	×	×	○	●	×	×	

● Transmitted via the application.

System Exclusive Messages (Natural Voice)

MIDI Event	Data Format	[MIDI]										
		Voices		MIDI Reception					MIDI Transmission			
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	
Key Off Sampling Depth	F0 43 73 01 50 11 0n 04 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Sub ID 00010001 11 = Sub ID 0000nnnn 0n = Channel (00-0F) 00000100 04 = Sub ID (Key Off Sampling Depth) 0ddddd dd = Depth (00-50) 11110111 F7 = End of Exclusive	○ Available for some Natural Voices.	×	○	○	×	×	○	●	×	×	

● Transmitted via the application.

System Exclusive Messages (Vocal Harmony Additional Parameters)

MIDI Event	Data Format	[MIDI]										
		Voices		MIDI Reception					MIDI Transmission			
		Regular/ Drum/ Natural/ Organ Voice	Mic/ Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower	
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. 0ddddd dd = data 00H: Off 01H: Upper 02H: Lower 11110111 F7 = End of Exclusive	x	o			o					x	

System Exclusive Messages (Others)

MIDI Event	Data Format	[MIDI]																								
		Voices		MIDI Reception					MIDI Transmission																	
		Regular/ Drum/ Natural/ Organ Voice	Mic/Vocal Harmony	Song	Main Layer Left	Keyboard	Style	Extra	Main Layer Left	Style	Upper Lower															
MIDI Master Tuning	F0 43 1n 27 30 00 00 0m 01 cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = 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 0000nnnn 0n = Master Tune MSB 00001111 01 = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	o	o			o					x															
MIDI Key LED Mode	F0 43 73 01 11 0n 47 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. 01000111 47 = MIDI Key LED Mode On Off Substatus 0ddddd dd = data 00H: Light Off & Sound 01H: Light On & No Sound 02H: Light On & Sound 03H: Light Off & No Sound 11110111 F7 = End of Exclusive When set to Key LED+ No Sound (01H) and Key LED (02H), the LED is turned on/off by a note on message of the channel specified via the Channel No. 9n, note, Vel=0: off 9n, note, Vel=1: flush 9n, note, Vel=2: on Up to two channels can be specified simultaneously. A channel become available with Normal (00H).	-	-	o	x	x	x	x	x	x	x															
Guide ON	F0 43 73 01 1F 00 cc dd F7 00000001 01 = Model ID (Clavinova common ID) 00011111 1F = Guide On Substatus 00000000 00 = 0ccccccc cc = Part Select Number (1/Right, 2/Left) <table border="1" style="margin-left: 20px;"> <tr> <td>cc</td> <td>1/Right</td> <td>2/Left</td> </tr> <tr> <td>00</td> <td>On</td> <td>On</td> </tr> <tr> <td>01</td> <td>Off</td> <td>On</td> </tr> <tr> <td>02</td> <td>On</td> <td>Off</td> </tr> <tr> <td>03</td> <td>Off</td> <td>Off</td> </tr> </table> 0ddddd dd = Mode 00:Off, 01:Follow Lights, 02:Any Key, 06=YourTempo 11110111 F7 = End of Exclusive	cc	1/Right	2/Left	00	On	On	01	Off	On	02	On	Off	03	Off	Off	-	-			o					x
cc	1/Right	2/Left																								
00	On	On																								
01	Off	On																								
02	On	Off																								
03	Off	Off																								

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
Style		
F0 43 73 01 51 05 00 03 04 00 00 dd dd F7	Style No.	dd dd = Style No.
F0 43 7E 00 ss dd F7	Section Control	Refer to the MIDI Data Format

Song Meta Event List / Liste der Meta-Events der Songs / Liste des metaevenements des morceaux / Lista de meta-eventos de canciones

Data Format	Parameter	Description
YAMAHA META EVENT		
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 = Tempo value B7 1B 00 – 01 D4 C0 (Tempo 5 – 500)
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
YAMAHA XF META EVENT		
FF 7F 07 43 7B 01 cr ct bn bt	Chord Name	Refer to "Chord Control" in the MIDI Data Format (System Exclusive Messages).
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	Sets the TRACK 1 and TRACK 2 parameters on the [FUNCTION] > [SONG SETTING] display. rr = TRACK1 (0:OFF, 1:1CH...16:16CH) ll = TRACK2 (0:OFF, 1:1CH...16:16CH)

