YAMAHA

Genos

DIGITAL WORKSTATION

Data List
Datenliste
Liste des données
Elenco dati
Datalijst
zeszyt Data List, tabele danych

EN
DE
FR
IT
NL
PL

Manual Development Group
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Contents

Voice List
Voice-Liste
Liste des voix
Elenco delle voci
Voice-lijst
Lista brzmień **3**

MegaVoice Map
Sound-Zuordnungen der MegaVoices
Carte des voix Mega
Mappa MegaVoice
MegaVoice-map
Mapa brzmień MegaVoice **15**

S.Art2! Voice Articulation List
Liste der Artikulationen für S.Art2!-Voices
Liste relative à la sonorité Super Articulation S.Art2!
Elenco articolazioni voci S.Art2!
S.Art2! Voice Articulation-lijst
Lista brzmień S.Art2! **22**

Drum/SFX Kit List
Drum/SFX-Kit-Liste
Liste des kits de batterie/SFX
Elenco dei kit di batteria/SFX
Drum/SFX Kit-lijst
Lista zestawów perkusyjnych/efektów **24**

Style List
Liste der Styles
Liste des styles
Elenco degli stili
Style-lijst
Lista stylów **40**

Multi Pad Bank List
Multi-Pad-Banikliste
Liste des banques mutli-pads
Elenco dei banchi multipad
Pulti Pad Bank-lijst
Lista sekwencji Multi Pad **42**

Ensemble Voice List
Liste der Ensemble-Voices
Liste des sonorités Ensemble Voice
Elenco delle voci di gruppo
Ensemble Voice-lijst
Lista brzmień zespołowych **44**

Chord Types Recognized in the Fingered Mode
Im Fingered-Modus erkannte Akkordarten
Types d'accords reconnus en mode Fingered
Tipi di accordi riconosciuti in modalità Ditteggiatura
Herkende akkoordtypes in Fingered-modus
Typy akordów rozpoznawane w trybie Fingered **45**

Effect Type List
Liste der Effekttypen
Liste des types d'effet
Elenco dei tipi di effetti
Effect Type-lijst
Lista rodzajów efektów **46**

Effect Parameter List
Liste der Effektparameter
Liste des paramètres d'effets
Elenco dei parametri di effetti
Effect Parameter-lijst
Lista parametrów efektów **54**

Effect Data Assign Table
Effektdaten-Zuordnungstabelle
Tableau d'assignation des données d'effets
Tabella assegnazione dati degli effetti
Effect Data Assign-tabel
Tabela przypisania danych efektów **69**

Keyboard Harmony/Arpeggio Type List
Tastatur Harmonie/Liste der Arpeggio-Typen
Harmonie clavier/Liste de types d'arpège
Armonia della tastiera/Elenco dei tipi di arpeggio
Toetsenbord Harmonie/Lijst met arpeggiotypen
Harmonia klawiatury/Lista rodzajów arpeggia **74**

Vocal Harmony Parameter List
Liste der Vokalharmonie-Parameter
Liste des paramètres liés à l'harmonie vocale
Elenco dei parametri di armonia vocale
Vocal Harmony Parameter-lijst
Lista parametrów harmonii wokalnej **75**

Parameter Chart
Parametertabelle
Tableau des paramètres
Prospetto di parametri
Parameter-tabel
Schemat parametrów **82**

MIDI Data Format
MIDI-Datenformat
Format des données MIDI
Formato dati MIDI
MIDI-gegevensindeling
Format danych MIDI **95**

Song Meta Event List
Liste der Meta-Events der Songs
Liste des méta-événements des morceaux
Elenco dei metaeventi song
Song Meta Event-lijst
Lista metadanych utworu **115**

Song System Exclusive Message List
Liste der System-Exclusive-Meldungen der Songs
Liste des messages exclusifs au système de morceaux
Elenco di System Exclusive message song
Song System Exclusive Message-lijst
Lista komunikatów System Exclusive dla utworu **116**

MIDI Implementation Chart
MIDI-Implementationstabelle
MIDI Implementation Chart
Prospetto di implementazione MIDI
MIDI Implementation-tabel
Schemat implementacji MIDI **117**

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Piano	-	CFX ConcertGrand	104	21	1	S.Art!
		CFX StageGrand	104	10	1	S.Art!
		CFX AmbientGrand	104	9	1	S.Art!
		CFX BalladMix1	104	19	6	S.Art!
		CFX BalladMix2	104	22	6	S.Art!
		CFX WarmPad	104	25	1	S.Art!
		CFX Shimmer	104	23	6	S.Art!
		CFX CocktailGrand	104	1	4	S.Art!
		CFX OneOctave	104	2	4	S.Art!
		CFX TwoOctaves	104	3	4	S.Art!
		C7 StudioGrand	104	22	1	S.Art!
		C7 PopGrand	104	11	1	S.Art!
		C7 WarmGrand	104	33	1	S.Art!
		C7 SuperstarGrand	104	34	1	S.Art!
		C7 Celestial	104	36	1	S.Art!
		C7 Atmosphere	104	24	6	S.Art!
		C7 CarillonPad	104	37	1	S.Art!
		C7 PadProduction	104	35	1	S.Art!
		Harpsichord	8	32	113	S.Art!
		GrandHarpsichord	0	113	7	Live!
		UprightPiano	104	13	1	S.Art!
		PopUpright	104	13	2	S.Art!
		70sBalladUpright	104	14	1	S.Art!
		HonkyTonkUpright	104	13	4	S.Art!
		SaloonUpright	104	14	2	S.Art!
		UprightOneOctave	104	14	4	S.Art!
		UprightTwoOctaves	104	15	4	S.Art!
		ChilloutUpright	104	15	1	S.Art!
		CFX PadProduction	104	30	1	S.Art!
E.Piano	-	70sSuitcaseClean	8	41	21	S.Art!
		70sSuitcaseAmped	8	46	21	S.Art!
		70sSuitcaseWarm1	8	39	21	S.Art!
		70sSuitcasePhase	8	47	21	S.Art!
		70sSuitcaseBallad	8	44	21	S.Art!
		70sSuitcasePan	8	45	21	S.Art!
		70sSuitcaseTremolo	8	42	21	S.Art!
		70sSuitcaseWarm2	8	48	21	S.Art!
		70sAmbienceEP	8	43	21	S.Art!
		70sMeditationEP	8	51	21	S.Art!
		DX Production	104	20	6	S.Art!
		DX Padded	104	21	6	Regular
		TX Bright	104	10	6	Cool!
		TX Mellow	104	11	6	Cool!
		TX Warm	104	12	6	Cool!
		DX Midnight	104	1	6	Cool!
		DX Dream	104	3	6	Cool!
		DX BalladBells	104	2	6	Cool!
		DX Dynamic	0	123	6	Cool!
		DX Sweet	104	0	6	Cool!
		DX Ballad	0	124	6	Cool!
		DX Sparkle	0	121	6	Cool!
		70sVintageEP	8	40	21	S.Art!
		70sVintageDriveEP	8	49	21	S.Art!
		70sVintagePhaseEP	8	50	21	S.Art!
		CP80 ElectricGrand	104	10	3	S.Art!
		CP80 Production	104	11	3	S.Art!
		Clavi	8	33	21	S.Art!
		ClaviFunk	8	34	21	S.Art!
		ClaviAmped	8	36	21	S.Art!
Organ	-	JazzRotary JS	8	32	114	S.Art!
		WhiterBars JS	8	32	30	S.Art!
		AllBarsOut JS	8	32	31	S.Art!
		ClassicBars JS	8	34	30	S.Art!
		ProgRockOrgan JS	8	33	30	S.Art!
		JazzStandard	10	0	1	OrganFlutes
		OrganPops	10	2	1	OrganFlutes
		GospelOrgan	10	4	1	OrganFlutes
		OrganClarinet	10	6	1	OrganFlutes
		UpsideDownSmile	10	1	1	OrganFlutes
		RockOrgan	10	3	1	OrganFlutes
		BalladOrgan	10	5	1	OrganFlutes
		JazzSquabble	10	7	1	OrganFlutes
		CurvedBars	0	121	17	Cool!
		EvenBars	0	111	17	Cool!
		ClassicJazz	0	117	17	Cool!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Organ	-	ClassicScanner	0	118	19	Cool!
		HollowBars	0	127	17	Cool!
		VintageAccomp1	0	108	18	Regular
		VintageAccomp2	0	107	18	Regular
		EuroPercussion	10	0	3	OrganFlutes
		EuroReeds	10	2	3	OrganFlutes
		EuroBright	10	4	3	OrganFlutes
		EuroFull	10	6	3	OrganFlutes
		EuroBallad	10	1	3	OrganFlutes
		EuroEvenWarmth	10	3	3	OrganFlutes
		EuroPops	10	5	3	OrganFlutes
		EuroMelodic	10	7	3	OrganFlutes
		EuroAccomp1	104	33	18	Regular
		EuroAccomp3	104	35	18	Regular
		LieblichGedackt	104	6	20	Regular
		Diapason	104	4	20	Regular
		Claribel&Flute	104	5	20	Regular
		SoftReeds	104	7	20	Regular
		GrandJeu	104	1	20	Live!
		FondsEtAnches	104	2	20	Live!
		OrganoPleno	104	3	20	Live!
		ConcertOrganTutti	104	0	20	Live!
		ChapelOrgan1	0	113	20	Regular
		ChapelOrgan2	0	115	20	Regular
		TheatreTibia&Vox	104	28	19	Regular
		TheatreOpenTibias	104	29	19	Regular
		TheatreGambCeleste	104	30	19	Regular
		TheatreOrganMix1	104	31	19	Regular
		TheatreOrganMix2	104	32	19	Regular
		TheatreOrganMix3	104	33	19	Regular
		TheatreSeaside	104	26	19	Regular
		TheatreFluteAcmp	104	34	19	Regular
		TheatreChrysAcmp	104	36	19	Regular
		TheatreStringsAcmp	104	35	19	Regular
		TheatreTrumpet	0	124	17	Regular
		TheatreChrys	104	28	18	Regular
		TheatreGlock	104	29	18	Regular
		TheatreXylophone	104	30	18	Regular
		TheatreOrganChime	104	31	18	Regular
		TheatreWoodenHarp	104	32	18	Regular
		60sComboOrgan1	104	32	17	Cool!
		60sComboOrgan2	104	33	17	Cool!
		60sComboOrgan3	104	34	17	Cool!
		60sComboOrgan4	104	35	17	Cool!
		HomeOrganJazz	10	3	2	OrganFlutes
		HomeHollowTibias	10	4	2	OrganFlutes
		HomeTheatreOrgan	10	2	2	OrganFlutes
		Home16&odds	10	1	2	OrganFlutes
		HomeOrganBallad	10	0	2	OrganFlutes
		HomeOrganEvens	10	5	2	OrganFlutes
		HomeOrganWarmth	10	6	2	OrganFlutes
		HomeOrganFull	10	7	2	OrganFlutes
		HomeAccomp1	104	37	19	Regular
		HomeAccomp2	104	38	19	Regular
		HomeOrganTrombone	104	19	19	Regular
		HomeOrganClarinet	104	20	19	Regular
		HomeOrganCello	104	21	19	Regular
		HomeOrganHorn	104	22	19	Regular
		HomeOrganCornet	104	23	19	Regular
		HomeOrganViolin	104	24	19	Regular
		HomeOrganKinura	104	25	19	Regular
		VintageAccomp3	0	106	18	Regular
		VintageAccomp4	0	105	18	Regular
		VintageAccomp5	0	104	18	Regular
		TheatrePedal1	104	16	19	Regular
		TheatrePedal2	104	17	19	Regular
		EuroAccomp2	104	34	18	Regular
		OrganAGoGo	104	0	17	Cool!
Accordion	-	SuperMusette	104	25	22	Live!
		JazzCassotto	104	28	22	Live!
		BajanAccordion	104	4	24	Live!
		ScotsAccordion	104	5	24	Live!
		SteirischeHarmonika	104	27	22	Live!
		Harmonica	8	64	105	S.Art2!
		BluesHarmonica	8	65	105	S.Art2!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Accordion	-	MasterAccordion	0	118	22	Regular
		TangoAccordion	0	114	24	Regular
		CajunAccordion	104	3	22	Regular
		AccordionClarinet	104	1	22	Regular
		Bandoneon	0	113	24	Regular
		SuperMusetteBass	104	26	22	Live!
		JazzCassottoBass	104	30	22	Live!
		BajanAccBass	104	6	24	Live!
		ScotsAccBass	104	7	24	Live!
		SteirischerBass	104	29	22	Live!
		TangoAccBass	0	115	24	Regular
		CajunAccBass	104	6	22	Regular
Strings	-	KinoStrings	8	47	50	S.Art!
		KinoStringsWarm	8	51	50	S.Art!
		KinoStringsLow	8	52	50	S.Art!
		KinoStringsSlow	8	55	50	S.Art!
		KinoStringsNatural	8	46	50	S.Art!
		JazzViolin	8	64	49	S.Art2!
		CelticViolin	8	65	49	S.Art2!
		ClassicalCello	8	64	51	S.Art2!
		PopCello	8	65	51	S.Art2!
		KinoStringsWarmVc	8	54	50	S.Art!
		Orchestral1stViolin	8	33	44	S.Art!
		Orchestral2ndViolin	8	33	45	S.Art!
		OrchestralViola	8	33	46	S.Art!
		OrchestralCello	8	33	47	S.Art!
		KinoStringsVnVc	8	48	50	S.Art!
		KinoStringsViolins	8	35	44	S.Art!
		KinoStringsViolas	8	35	46	S.Art!
		KinoStringsCellos	8	35	47	S.Art!
		KinoStringsBasses	8	35	48	S.Art!
		KinoStringsVnVaVc	8	45	50	S.Art!
		SeattleStrings	8	33	50	S.Art!
		SeattleClassical	8	36	49	S.Art!
		SeattleRomance	8	43	50	S.Art!
		SeattleWarm	8	39	49	S.Art!
		SeattleChamber	8	42	49	S.Art!
		SeattleSlowStrings	8	35	50	S.Art!
		SeattleLushStrings	8	41	49	S.Art!
		SeattleTremolo	104	0	45	Live!
		SeattleSpiccato	104	6	49	Live!
		SeattleQuartet	8	34	48	S.Art!
		Seattle1stViolins	8	32	44	S.Art!
		Seattle2ndViolins	8	32	45	S.Art!
		SeattleViolas	8	32	46	S.Art!
		SeattleCellos	8	32	47	S.Art!
		SeattleBasses	8	32	48	S.Art!
		KinoStrings1Oct	8	49	50	S.Art!
		KinoStrings2Oct	8	53	50	S.Art!
		KinoStringsTremVn	8	36	44	S.Art!
		KinoStringsTremVa	8	36	46	S.Art!
		KinoStringsTremVc	8	36	47	S.Art!
		KinoStringsTremCb	8	36	48	S.Art!
		KinoStringsTremolo	8	44	50	S.Art!
		KinoStringsTension	8	50	50	S.Art!
		KinoStringsSpicVn	104	4	41	Live!
		KinoStringsSpicVa	104	2	42	Live!
		KinoStringsSpicVc	104	2	43	Live!
		KinoStringsSpicCb	104	2	44	Live!
		KinoStringsSpicSct	104	20	49	Live!
		PizzicatoStrings	0	113	46	Live!
		TheatreOrchestra	104	1	50	Regular
		DiscoStrings1	0	123	50	Live!
		DiscoStrings2	0	124	50	Live!
		SynthStrings1	0	112	51	Regular
		SynthStrings2	0	113	51	Regular
		OberStrings	0	113	52	Regular
		Tutti	0	120	50	Regular
Brass	-	Flugelhorn	8	64	63	S.Art2!
		Trumpet	8	66	66	S.Art2!
		SoftTrumpet	8	64	66	S.Art2!
		MuteTrumpet	8	64	65	S.Art2!
		Trombone	8	65	74	S.Art2!
		BigBandTrumpet	8	67	66	S.Art2!
		ClassicTrumpet	8	65	66	S.Art2!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Brass	-	GoldenTrumpet	8	34	65	S.Art!
		SilverTrumpet	8	33	65	S.Art!
		Cornet	0	119	57	Sweet!
		PopHorns	104	0	62	Live!
		PopHornsShake	104	4	62	Live!
		PopHornsMellow	8	43	57	S.Art!
		PopHornsBright	8	44	57	S.Art!
		PopHornsAccent	104	3	62	Live!
		PopHornsCresc	104	5	62	Live!
		MutedCornet	104	0	60	Sweet!
		BrassBand	104	14	62	Live!
		WarmPopHorns	8	41	57	S.Art!
		BigBandBrass SW	8	37	57	S.Art!
		WarmSwingHorns	104	1	62	Live!
		MuteSwingHorns	104	2	62	Live!
		OrchTrumpets	104	3	57	Live!
		OrchTrombones	104	3	58	Live!
		OrchestralHorns	104	0	61	Live!
		SymphonyHorns	104	1	61	Live!
		SymphonyHornsOct	104	2	61	Live!
		SymphonyBrass	104	8	62	Live!
		WarmOrchHorns	8	33	61	S.Art!
		StoppedOrchHorns	104	3	61	Live!
		OrchTpts&Tbns1	104	9	62	Live!
		OrchTpts&Tbns2	104	10	62	Live!
		OrchTrumpetsFast	104	4	57	Live!
		OrchTrombonesFast	104	4	58	Live!
		OrchHornsFast	104	4	61	Live!
		OrchBrassOctave	104	12	62	Live!
		OrchHorns&Tbns	104	13	62	Live!
		SymphonyHornsFast	104	15	62	Live!
		OrchHornsPad	104	11	62	Live!
		SoftOrchHorns	8	32	61	S.Art!
		BalladBrass	104	6	62	Live!
		BrightHornSection	8	42	57	S.Art!
		PopHornsCresc JS	8	45	57	S.Art!
		PopHornsDoit SW	8	46	57	S.Art!
		PopHornsFall SW	8	47	57	S.Art!
		PopHornsSwell JS	8	48	57	S.Art!
		SmoothBrass	8	36	57	S.Art!
		SforzandoFall	0	107	62	Live!
		80sSynthBrassStab	104	9	63	Regular
		80sSynthBrassTack	104	10	63	Regular
		80sSynthBrassThin	104	0	63	Regular
		80sSynthBrassProf	104	1	63	Regular
		80sStackBrass	104	44	82	Regular
		80sSynthProSwell	104	14	96	Regular
		80sSynthSlowSwell	104	15	96	Regular
		SlowPWM Brass	104	2	63	Regular
		FastPWM Brass	104	6	63	Regular
		AnalogBrass	0	112	64	Regular
		TechnoBrass	0	114	63	Regular
		OberHorns	0	115	64	Regular
		BaritoneHornShort	104	10	61	Regular
		BaritoneHornLong	104	11	61	Regular
		BaritoneHornStacc	104	12	61	Regular
		BaritoneHornTen	104	13	61	Regular
		BassTrombStacc	104	2	58	Regular
		BassTrombTenuto	104	1	58	Regular
		Tuba	104	0	59	Regular
		BrassFalls&Doits	8	34	57	S.Art!
Woodwind	-	BalladSopranoSax	8	65	85	S.Art2!
		PopSopranoSax	8	64	85	S.Art2!
		AltoSax	8	65	84	S.Art2!
		FunkAltoSax	8	64	84	S.Art2!
		BigBandAltoSax	8	66	84	S.Art2!
		SoftAltoSax	8	34	67	S.Art!
		TenorSax	8	66	81	S.Art2!
		SmoothTenorSax	8	65	81	S.Art2!
		BreathyTenorSax	8	64	81	S.Art2!
		BigBandTenorSax	8	66	83	S.Art2!
		BaritoneSax	8	65	82	S.Art2!
		FunkBaritoneSax	8	64	82	S.Art2!
		BigBandBaritone	8	66	82	S.Art2!
		Clarinet	8	65	93	S.Art2!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Woodwind	-	BalladClarinet	8	64	93	S.Art2!
		RomanceClarinet	8	66	93	S.Art2!
		OrchestralClarinet	104	0	72	Live!
		GermanClarinet	104	2	72	Regular
		ClassicalFlute	8	64	75	S.Art2!
		JazzFlute	8	65	75	S.Art2!
		ClassicalOboe	8	65	69	S.Art2!
		PopOboe	8	64	69	S.Art2!
		MOR Oboe	8	32	69	S.Art!
		ClassicalBassoon	8	65	71	S.Art2!
		PopBassoon	8	64	71	S.Art2!
		IrishPipesAir	8	64	109	S.Art2!
		IrishPipesDance	8	65	109	S.Art2!
		PanPipes	0	113	76	Sweet!
		Whistle	0	112	79	Regular
		Piccolo	0	112	73	Regular
		SaxSection	0	116	67	Live!
		SaxSectionHard	0	122	67	Live!
		SaxSectionSoft	0	121	67	Live!
		SmoothSaxes1	8	38	83	S.Art!
		SmoothSaxes2	8	36	83	S.Art!
		SmoothSaxesOctave	8	37	83	S.Art!
		MellowSaxes	8	39	83	S.Art!
		BigBandHorns1	0	110	67	Live!
		BigBandHorns2	0	109	67	Live!
		BigBandOctave	0	108	67	Live!
		Clarinet&Flutes	104	1	72	Regular
		Clarinet&Oboe	104	1	69	Regular
		DoubleReeds	104	2	69	Regular
		Flutes&Oboes	104	2	74	Regular
		FluteSection	104	1	74	Regular
		OrchWoodwind	104	1	71	Regular
		Shakuhachi	0	112	78	Regular
		Bagpipe	0	112	110	Regular
Choir	-	BoysChoirOoh	8	32	52	S.Art!
		BoysChoirAah	8	33	52	S.Art!
		JazzScatVocals	8	42	56	S.Art!
		JazzScatShoo	8	45	56	S.Art!
		JazzScatDwee	8	46	56	S.Art!
		PopVocals	8	40	56	S.Art!
		LatinVocals	8	41	56	S.Art!
		GospelVocalsHmm	8	32	55	S.Art!
		GospelVocalsWow	8	33	55	S.Art!
		GospelVocalsHey	8	34	55	S.Art!
		Shoo-Bee-Doo-Bah1	8	32	56	S.Art!
		Shoo-Bee-Doo-Bah2	8	47	56	S.Art!
		Ba-Da-Yah	8	36	56	S.Art!
		Do-Be-Do-Be	8	48	56	S.Art!
		Ya-Ba-Da-Ba	8	51	56	S.Art!
		Do-We-Yo-Be	8	52	56	S.Art!
		Shoo-Ba-Doo-Ba	8	55	56	S.Art!
		What-Should-We-Do	8	53	56	S.Art!
		Who-Are-You	8	54	56	S.Art!
		Hoo-Wah	8	39	56	S.Art!
		BoysChoirOoh p	8	35	52	S.Art!
		BoysChoirAah p	8	36	52	S.Art!
		BoysChoirOh-Ah	8	49	56	S.Art!
		BoysChoir JS	8	34	52	S.Art!
		BoysChoirOoh f	8	37	52	S.Art!
		BoysChoirAah f	8	38	52	S.Art!
		Haa	8	32	40	S.Art!
		Wah	8	38	40	S.Art!
		Baa	8	41	40	S.Art!
		Daa	8	45	40	S.Art!
		Ooh	8	32	41	S.Art!
		Doo	8	38	41	S.Art!
		Yoo	8	42	41	S.Art!
		HaaVibrato	8	33	40	S.Art!
		WahVibrato	8	39	40	S.Art!
		BaaVibrato	8	42	40	S.Art!
		DaaVibrato	8	46	40	S.Art!
		OohVibrato	8	33	41	S.Art!
		DooVibrato	8	39	41	S.Art!
		YooVibrato	8	43	41	S.Art!
		BeeVibrato	104	4	53	Live!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Choir	-	JazzScatLegato	8	50	56	S.Art!
		Shoo-BeeDynamic	8	35	56	S.Art!
		BoysOoh	8	34	41	S.Art!
		GirlsOoh	8	36	41	S.Art!
		BoysHaa	8	34	40	S.Art!
		GirlsHaa	8	35	40	S.Art!
		Ahh-OohAuto	8	49	41	S.Art!
		BoysOohVibrato	8	35	41	S.Art!
		GirlsOohVibrato	8	37	41	S.Art!
		BoysDoo	8	40	41	S.Art!
		GirlsDoo	8	41	41	S.Art!
		Hoo-WeeAuto	8	56	56	S.Art!
		Wow-Hey-Hmm	8	35	55	S.Art!
		GospelHmm-Aah JS	8	36	55	S.Art!
		GospelWow-Hey JS	8	37	55	S.Art!
		SoftWah	8	40	40	S.Art!
		AccompAah	104	15	53	Live!
		AccompOoh	104	15	54	Live!
A.Guitar	-	ConcertGuitar	8	32	1	S.Art!
		FlamencoGuitar	8	35	2	S.Art!
		SteelAcousticFinger	8	49	2	S.Art!
		SteelAcousticPick	8	37	2	S.Art!
		SteelThumbPick	8	54	2	S.Art!
		SpanishGuitar	8	34	2	S.Art!
		ResonatorGuitar	8	45	2	S.Art!
		ResonatorSlapBack	8	58	2	S.Art!
		ResonatorBluesAmp	8	59	2	S.Art!
		ResonatorMuteVel	8	46	2	S.Art!
		Ukulele	8	33	14	S.Art!
		UkuleleStrum	8	34	14	S.Art!
		UkuleleUnisonDuo	8	35	14	S.Art!
		D-FolkGuitar	8	47	2	S.Art!
		D-FolkGuitarAmped	8	55	2	S.Art!
		D-FolkGuitarStrum	8	48	2	S.Art!
		12StringFingered	8	53	2	S.Art!
		12StringPicked	8	39	2	S.Art!
		12StringStrum	8	40	2	S.Art!
		ChickenPickGuitar	104	11	26	Live!
		SpanishElectro	8	36	2	S.Art!
		ElectroAcoustic	8	35	1	S.Art!
		SteelAcoustAmp	8	56	2	S.Art!
		SteelAcoustStrum	8	50	2	S.Art!
		LatinAmpedGuitar	8	57	2	S.Art!
		Banjo	104	0	106	Regular
		Mandolin	8	41	13	S.Art!
		MandolinMuteVel	8	42	13	S.Art!
		MandolinTremolo	104	19	25	Live!
		MandolinSlide	104	20	25	Live!
		Sitar	104	0	105	Regular
		Hackbrett	104	2	47	Regular
		Zither1	104	1	16	Regular
		Zither2	104	0	16	Regular
		Shamisen	0	112	107	Regular
		FolkGuitarDoubled	8	51	2	S.Art!
		ResonatorSlideVel	104	19	26	Live!
		ChickenPick SW	8	38	2	S.Art!
		NylonGuitar SW	8	34	1	S.Art!
E.Guitar	-	60sShadowLead	8	32	8	S.Art!
		60sBalladGuitar	8	33	8	S.Art!
		60sVintageBlues	8	34	8	S.Art!
		60sRockHero	8	35	8	S.Art!
		60sGuitarHero	8	38	8	S.Art!
		60sVintageClean	8	36	8	S.Art!
		60sChickenPick	8	37	8	S.Art!
		60sBluesRock	8	40	8	S.Art!
		60sTexasBlues	8	43	8	S.Art!
		60sVintageEcho	8	44	8	S.Art!
		60sVintagePalm	8	45	8	S.Art!
		60sShadowMute	8	46	8	S.Art!
		60sCountryMute	8	47	8	S.Art!
		60sFunkPick	8	48	8	S.Art!
		50sVintageFull	8	43	6	S.Art!
		50sVintageSolo	8	44	6	S.Art!
		50sVintageStage	8	45	6	S.Art!
		50sHeavyRock	8	47	6	S.Art!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
E.Guitar	-	50sDriveWahWah	8	46	6	S.Art!
		50sVintageBlues	8	37	6	S.Art!
		50sVintageRock	8	36	6	S.Art!
		50sVintageDelay	8	48	6	S.Art!
		50sVintageWarm	8	49	6	S.Art!
		50sVintagePure	8	42	6	S.Art!
		50sVintageAmp	8	41	4	S.Art!
		50sVintageSpring	8	54	4	S.Art!
		ShadowedGuitar	8	56	4	S.Art!
		FingerAmp	8	43	4	S.Art!
		BalladDelay	8	46	4	S.Art!
		FingerChorus	8	42	4	S.Art!
		BrightChorus	8	45	4	S.Art!
		RockHero	8	35	6	S.Art!
		SoloKing	8	50	6	S.Art!
		RhythmKing	8	53	6	S.Art!
		BigAmpCombo	8	51	6	S.Art!
		ClassicAmpStack	8	41	6	S.Art!
		RockLegend	8	34	6	S.Art!
		StageLead	8	38	6	S.Art!
		GrungeGuitar	8	40	6	S.Art!
		HeavyRockGuitar	8	32	5	S.Art!
		OverdriveWahWah	8	39	6	S.Art!
		WarmBlues	8	34	5	S.Art!
		BrightBlues	8	35	5	S.Art!
		BluesyFinger	8	37	5	S.Art!
		BluesyNight	8	55	4	S.Art!
		OldiesGuitar	8	52	6	S.Art!
		BluesySlapSlide	8	36	5	S.Art!
		SingleCoilClean	8	39	4	S.Art!
		LightChorus	8	53	4	S.Art!
		RoughFingers	8	39	5	S.Art!
		FingerSlapSlide	8	51	4	S.Art!
		CleanFingers	8	38	5	S.Art!
		FunkSlap	8	49	4	S.Art!
		FingerBright	8	50	4	S.Art!
		CountryPickDrive	8	40	5	S.Art!
		CountryPickVint	8	41	5	S.Art!
		CountryPick	8	44	4	S.Art!
		PedalSteelGuitar	8	61	4	S.Art!
		JazzGuitarClean	8	32	7	S.Art!
		JazzGuitarAmp	8	38	7	S.Art!
		JazzArtistGuitar	8	39	7	S.Art!
		JazzGuitarSmooth	8	35	7	S.Art!
		70sJazzCombo	8	54	6	S.Art!
		SemiAcoustic	8	33	7	S.Art!
		PedalSteel	104	25	28	Regular
		AlohaGuitar	0	118	27	Regular
Bass	-	ActiveBassFinger	8	37	18	S.Art!
		ActiveBassFngrMute	8	38	18	S.Art!
		ActiveBassPick	8	36	19	S.Art!
		ActiveBassPickMute	8	37	19	S.Art!
		ActiveBassSlap	8	39	18	S.Art!
		FretlessBass	8	32	20	S.Art!
		VintageRound	8	32	18	S.Art!
		VintageMute	8	32	19	S.Art!
		VintagePick	104	1	35	Regular
		VintageFlat	8	33	18	S.Art!
		SoftAcousticBass	8	33	17	S.Art!
		AcousticBass	8	32	17	S.Art!
		PickBass	0	112	35	Regular
		FusionBass	0	113	37	Regular
		PickDynoBass	0	113	35	Cool!
		ActiveBassFinger	104	4	34	Regular
		ActiveBassFngrMute	104	5	34	Regular
		ActiveBassPick	104	3	35	Regular
		ActiveBassPickMute	104	4	35	Regular
		ActiveBassSlap	104	0	37	Regular
		VintageDyno	104	2	35	Cool!
		FunkBass	0	112	38	Regular
		RockBass	0	114	35	Regular
		MellowFinger	0	112	34	Regular
		HalfMute	0	115	34	Cool!
		SuperFretless	0	113	36	Regular
		ElectricBass	0	114	34	Cool!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Bass	-	80sDynFilterBass	104	12	39	Regular
		80sFM MetalBass	104	13	39	Regular
		80sEX PulseBass	104	14	39	Regular
		80sArpPulseBass	104	15	39	Regular
		80sSynthPopBass	104	17	39	Regular
		80sSeqBass	104	18	39	Regular
		80sArnoldBass	104	19	39	Regular
		80sRetroPulse	104	20	39	Regular
		VeloTaureanBass	104	21	39	Regular
		80sUnisonBass	104	22	39	Regular
		Powerdrone	104	23	39	Regular
		BPF Buzz JS	8	32	123	S.Art!
		Wobble JS	8	33	123	S.Art!
		RampBass JS	8	34	123	S.Art!
		SquarePluck JS	8	35	123	S.Art!
		DeepSub	104	18	88	Regular
		ModernPop	104	19	88	Regular
		MultiSawBass	104	20	88	Regular
		BriteDubBass	104	21	88	Regular
		Pulse&Saw	104	22	88	Regular
		TwentyFive	104	23	88	Regular
		PunchySquare	104	24	88	Regular
		Softwood	104	25	88	Regular
		PunchyDX	104	26	88	Regular
		DarkSeqBass	104	27	88	Regular
		PumpingSaw	104	28	88	Regular
		PumpingSquare	104	29	88	Regular
		SubBass	0	114	40	Regular
Percussion	-	Vibraphone	104	1	12	Sweet!
		Xylophone	104	0	14	Regular
		Glockenspiel	104	0	10	Regular
		Celesta	0	112	9	Regular
		MusicBox	0	112	11	Regular
		Marimba	104	0	13	Regular
		OrchestralHarp	104	1	47	Regular
		MellowHarp	104	0	47	Regular
		Vibes&Flutes	0	114	12	Regular
		TubularBells	0	112	15	Regular
		Timpani	0	112	48	Regular
		SteelDrums	0	112	115	Regular
		Kalimba	0	112	109	Regular
		Dulcimer	0	112	16	Regular
		Koto	0	112	108	Regular
		OrchestraHit	0	112	56	Regular
Pad	-	80sHarpvox	104	4	100	Regular
		80sDreamStrings	104	14	51	Regular
		80sMiamiStrings	104	13	52	Regular
		80sPopStrings	104	15	51	Regular
		80sBalladPad	104	16	51	Regular
		80sSoftPad	104	10	90	Regular
		80sFifthSlow	104	13	96	Regular
		80sBreathyVoice	104	0	55	Regular
		80sDreamyVox	104	1	55	Regular
		80sWarmVCF Pad	104	11	90	Regular
		80sGlassyHook	104	37	89	Regular
		NewHeaven	104	10	89	Regular
		FantasyBells	104	11	89	Regular
		ItopiaBells	104	13	89	Regular
		Sinesphere	104	18	89	Regular
		HeavenPad	104	3	92	Regular
		BreathBells	104	15	89	Regular
		OrganBells	104	12	89	Regular
		SkyBells	104	16	89	Regular
		SpectrumPad	104	5	95	Regular
		EarlyDigital	104	0	94	Regular
		Digisweeper	104	7	102	Regular
		MysticPad	104	6	95	Regular
		DeepMotion	104	4	96	Regular
		PadVoices	104	6	96	Live!
		CrossPhase	104	1	102	Regular
		NewAtmosphere	104	4	90	Regular
		HotSwell	104	2	96	Regular
		SpaceRider	104	1	96	Regular
		BreathPad	104	0	92	Regular
		NobleMan	104	1	89	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Pad	-	DarkLight	104	3	90	Regular
		OctaveStrings	104	4	51	Regular
		AmbientPad	104	0	89	Regular
		HipaStrings	0	114	96	Regular
		MedDetunedStrings	104	10	51	Regular
		OberSweep	0	115	96	Regular
		DarkFatSaw	104	2	90	Regular
		Trance JS	104	0	96	Regular
		MellowPad	0	117	96	Regular
		AnalogPad	0	120	90	Regular
		MorningDew	104	0	95	Regular
		PercPad	104	0	102	Regular
		SpectrumTheme	104	14	89	Regular
		NextGeneration	104	9	52	Regular
		AmbientTheme	104	20	89	Regular
		HybridLines	104	4	92	Regular
		VP Soft	104	0	90	Regular
		DouxFlange	104	3	96	Regular
		LightPad	104	2	52	Regular
		ButterStrings	104	2	51	Regular
		MediumTunePad	104	0	51	Regular
		BrightPadTrance	104	4	91	Regular
		ChillinChords	104	6	52	Regular
		BrightPopPad	104	3	51	Regular
		SoftEnsemble	104	1	51	Regular
		BrightFatSaw	104	5	91	Regular
		LitePad	0	122	90	Regular
		PopPad	0	112	91	Regular
		BrightSawPad	0	113	91	Regular
		Mediterrain	0	114	100	Regular
		CyberPad	0	113	100	Regular
		AllOrNothing	104	6	102	Regular
		AnaDayz	104	3	52	Regular
		WhisperGallery	104	0	93	Regular
		Skydiver	0	112	102	Regular
		GalaxyPad	104	3	89	Regular
		Aerosphere	104	1	95	Regular
		NylonHeaven	104	2	100	Regular
		AiryHarp	104	17	89	Regular
		SoundPictures	104	3	95	Regular
		Atlantis	104	11	102	Regular
Synth	-	MiniClassic	104	28	81	Regular
		MiniClassicVelo+	104	29	81	Regular
		MiniClassicSoft	104	30	81	Regular
		MiniClassicOpen	104	31	81	Regular
		StratusPulse	104	32	81	Regular
		FunkyVeloMini	104	33	81	Regular
		ParisAtNight	104	17	84	Regular
		PowerOfEmotion	104	6	84	Regular
		WireLeadMillennial	104	25	81	Regular
		FusionWire	104	26	81	Regular
		MiniClassicUnison	104	27	81	Regular
		MiniSawVelo	104	35	81	Regular
		OB ScoopFanfare	104	36	81	Regular
		GlassCeiling	104	0	86	Regular
		DanceSurvivor	104	16	85	Regular
		HyperTrance	104	17	85	Regular
		FreakyDancer	104	18	85	Regular
		TranceArp	104	19	81	Regular
		GreenFlash	104	19	85	Regular
		DJ Montage	104	20	81	Regular
		TranceGates	104	20	85	Regular
		BigIncrease	104	21	81	Regular
		TrancePicks	104	22	81	Regular
		VA-Attacks	104	23	81	Regular
		PearlyGates	104	24	81	Regular
		MonsterVCOs	104	35	91	Regular
		ChampArp	104	11	84	Regular
		VintageArp	104	0	84	Regular
		PWM UnisonArp	104	12	84	Regular
		PearlFishers	104	1	84	Regular
		BigSpender	104	13	84	Regular
		HouseOfChordz	104	2	84	Regular
		MegaStack	104	14	84	Regular
		SawEightDetune	104	3	84	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Synth	-	PizzyDanceChords	104	4	84	Regular
		FestivalOfHarmony	104	16	84	Regular
		BizzChordArp	104	5	84	Regular
		DreaminOfU	104	7	84	Regular
		PWM ChordArp	104	8	84	Regular
		WaveDancer	104	9	84	Regular
		PowerChords	104	10	84	Regular
		80sUnisonFifth	104	2	87	Regular
		80sPowerEnvelope	104	40	82	Regular
		80sArnoldLead	104	41	82	Regular
		80sBigLines	104	42	82	Regular
		80sSmartStack	104	43	82	Regular
		80sPitchySaw	104	45	82	Regular
		80sUnisonLead	104	14	85	Regular
		80sSmallPulse	104	46	82	Regular
		80sCheapMod	104	47	82	Regular
		80sTakeMeOut	104	48	82	Regular
		80sPolyPop	104	49	82	Regular
		80sUnisonFat	104	50	82	Regular
		80sResoPercSynth	104	37	88	Regular
		80sBellSynthStick	104	39	88	Regular
		80sPercSynth&Bell	104	40	88	Regular
		80sSmallPulsePoly	104	17	81	Regular
		80sFM Polystar	104	15	85	Regular
		80sUnisonPoly	104	51	82	Regular
		80sInterlude	104	42	88	Regular
		80s5thDigiSequence	104	43	88	Regular
		80sGlassyComp	104	44	88	Regular
		80sSharpPerc	104	47	88	Regular
		80sShortStepper	104	48	88	Regular
		80sBitSquareArp	104	18	81	Regular
		80sSawAttackArp	104	50	88	Regular
		80sLFO PulseLead	104	16	81	Regular
		80sSyncMove	104	49	88	Regular
		80sPunchySynth	104	38	88	Regular
		80sWoodenArp	104	45	88	Regular
		80sStaccatoComp	104	41	88	Regular
		ClassicDiamonds	104	34	81	Regular
		ThinkingOfYou	104	15	84	Regular
		Crowds	104	19	91	Regular
		Gemini	104	20	91	Regular
		HandsUp!	104	21	91	Regular
		StraightRaver	104	22	91	Regular
		TranceArtist	104	23	91	Regular
		NastySaw	104	10	91	Regular
		GrowlingHook	104	11	91	Regular
		WheelTech JS	8	36	124	S.Art!
		WireLead	0	120	82	Regular
		CryingLead	0	114	88	Regular
		SoftSaw	104	16	82	Regular
		HipLead	0	113	81	Regular
		PitchyPatch	104	8	85	Regular
		SoftChordSynth	104	9	85	Regular
		SquareStepz	104	26	89	Regular
		TriPicks	104	28	89	Regular
		Cracky	104	29	89	Regular
		PunchLead	104	7	82	Regular
		ClubLead	104	3	63	Regular
		TalkModLead	104	0	88	Regular
		TranceLead	0	121	81	Regular
		HPF Dance	104	0	91	Regular
		DancyHook	104	9	82	Regular
		1984Synth	104	20	82	Regular
		LektroCodes	104	2	85	Regular
		BalladComp	104	6	89	Regular
		BrightPadBell	104	7	89	Regular
DrumKit	-	RockDrumKit	127	8	18	Revo!Drums
		PopDrumKit	127	8	74	Revo!Drums
		VintageOpenKit	127	8	75	Revo!Drums
		VintageMutedKit	127	8	78	Revo!Drums
		JazzStickKit	127	8	79	Revo!Drums
		JazzBrushExpanded	127	8	77	Revo!Drums
		AfroCubanKit	126	8	43	Revo!SFX
		BrazilianKit	126	8	120	Revo!SFX
		PopPercKit	126	8	46	Revo!SFX

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
DrumKit	-	VocalBeatbox	126	0	107	Live!SFX
		PopLatinKit2Comp	126	0	47	Live!SFX
		EDM Kit	127	0	70	Drums
		80sPopKit	127	0	67	Drums
		80sR&B Kit	127	0	68	Drums
		DubstepKit	127	0	69	Drums
		JazzBrushKitComp	127	8	76	Revo!Drums
		ElectroKit	127	0	71	Drums
		TrapKit	127	0	72	Drums
		SchlagerKit	127	0	73	Drums
		BassDrumKit	126	0	21	SFX
		RealDrumKit	127	0	92	Live!Drums
		RealBrushesKit	127	0	42	Live!Drums
		AcousticKit	127	0	90	Live!Drums
		RockKit	127	0	91	Live!Drums
		StudioKit	127	0	87	Live!Drums
		PowerKit1	127	0	88	Live!Drums
		PowerKit2	127	0	89	Live!Drums
		RoomKit	127	0	9	Drums
		JazzKit	127	0	33	Drums
		StandardKit	127	0	1	Live!Drums
		AnalogT8Kit	127	0	59	Drums
		AnalogT9Kit	127	0	60	Drums
		BreakKit	127	0	58	Drums
		HipHopKit	127	0	57	Drums
		DanceKit	127	0	28	Drums
		AnalogKit	127	0	26	Drums
		HouseKit	127	0	61	Drums
		DrumMachine	127	0	62	Drums
		HitKit	127	0	5	Drums
		ReverseBD Kit	126	0	22	SFX
		TurkishKit	126	0	68	Live!SFX
		CubanKit	126	0	41	Live!SFX
		PopLatinKit1	126	0	44	Live!SFX
		PopLatinKit2	126	0	45	Live!SFX
		SymphonyKit	127	0	49	Live!Drums
		NewSFX Kit1	126	0	3	Live!SFX
		NewSFX Kit2	126	0	4	Live!SFX
		GospelAdLibs	126	0	111	Live!SFX
		VocalEffectsKit	126	0	110	Live!SFX
EnsemblePart	Brass	Trumpet1	9	66	66	S.Art2!
		Trumpet2	9	67	66	S.Art2!
		Trumpet1Shake	9	82	66	S.Art2!
		Trumpet2Shake	9	83	66	S.Art2!
		Trumpet	9	32	65	S.Art!
		ClassicTrumpet	9	65	66	S.Art2!
		SoftTrumpet	9	64	66	S.Art2!
		BigBandTrumpet	9	37	65	S.Art!
		MuteTrumpet	9	64	65	S.Art2!
		MutedTrumpet	109	114	60	Sweet!
		Flugelhorn	9	64	63	S.Art2!
		Flugelhorn	109	118	57	Sweet!
		Cornet	109	119	57	Sweet!
		MutedCornet	109	0	60	Sweet!
		Trombone	109	117	58	Sweet!
		Trombone	9	65	74	S.Art2!
		TromboneShake	9	81	74	S.Art2!
		BrightTrombone	109	0	58	Sweet!
		BassTrombTenuto	109	1	58	Regular
		Tuba	109	0	59	Regular
		OrchTrumpets	109	3	57	Live!
		OrchTrombones	109	3	58	Live!
		OrchHorns	109	0	61	Live!
		OrchTrumptsFast	109	4	57	Live!
		OrchTrombsFast	109	4	58	Live!
		OrchHornsFast	109	4	61	Live!
	Strings	Orchestral1stViolin	9	33	44	S.Art!
		Orchestral2ndViolin	9	33	45	S.Art!
		OrchestralViola	9	33	46	S.Art!
		OrchestralCello	9	33	47	S.Art!
		KinoStrings1Oct	9	49	50	S.Art!
		JazzViolin	9	64	49	S.Art2!
		CelticViolin	9	65	49	S.Art2!
		ClassicalCello	9	64	51	S.Art2!
		PopCello	9	65	51	S.Art2!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
EnsemblePart	Strings	KinoStrings2Oct	9	53	50	S.Art!
		KinoStringsViolins	9	35	44	S.Art!
		KinoStringsViolas	9	35	46	S.Art!
		KinoStringsCellos	9	35	47	S.Art!
		KinoStringsBasses	9	35	48	S.Art!
		KinoStrings	9	47	50	S.Art!
		Seattle1stViolins	9	32	44	S.Art!
		Seattle2ndViolins	9	32	45	S.Art!
		SeattleViolas	9	32	46	S.Art!
		SeattleCellos	9	32	47	S.Art!
		SeattleC.Basses	9	32	48	S.Art!
		Classic1stVns	9	34	44	S.Art!
		Classic2ndVns	9	34	45	S.Art!
		ClassicViolas	9	34	46	S.Art!
		ClassicCellos	9	34	47	S.Art!
		KinoStringsLow	9	52	50	S.Art!
		KinoStringsVnVc	9	48	50	S.Art!
		KinoStringsWarmVc	9	54	50	S.Art!
		KinoStringsSlow	9	55	50	S.Art!
		Pizzicato	109	113	46	Live!
		SeattleSpiccato	109	6	49	Live!
		SeattleTremolo	109	0	45	Live!
	Saxophone	SopranoSax	9	64	85	S.Art2!
		SopranoSaxGrowl	9	80	85	S.Art2!
		AltoSax	9	65	84	S.Art2!
		AltoSaxGrowl	9	81	84	S.Art2!
		CleanAltoSax	9	32	67	S.Art!
		TenorSax	9	66	81	S.Art2!
		TenorSaxGrowl	9	82	81	S.Art2!
		TenorSaxShake	9	84	81	S.Art2!
		BaritoneSax	9	65	82	S.Art2!
		BaritoneSaxGrowl	9	81	82	S.Art2!
		BigBandAltoSax	9	66	84	S.Art2!
		BigBandTenorSax	9	66	83	S.Art2!
		BigBandBaritone	9	66	82	S.Art2!
		FunkAltoSax	9	64	84	S.Art2!
		FunkBaritoneSax	9	64	82	S.Art2!
		BalladSopranoSax	9	65	85	S.Art2!
		SoftAltoSax	9	34	67	S.Art!
		SmoothTenorSax	9	65	81	S.Art2!
		Saxophone	9	32	83	S.Art!
		BaritoneSax	109	0	68	Regular
		SmoothSaxesOctave	9	37	83	S.Art!
		SaxSection	109	116	67	Live!
	Woodwind	ClassicalFlute	9	64	75	S.Art2!
		JazzFlute	9	65	75	S.Art2!
		OrchestralFlute	9	32	74	S.Art!
		ClassicalFlute	109	115	74	Sweet!
		Piccolo	109	112	73	Regular
		ClassicalOboe	9	65	69	S.Art2!
		PopOboe	9	64	69	S.Art2!
		MOR Oboe	9	32	69	S.Art!
		Clarinet	9	65	93	S.Art2!
		OrchestralClarinet	109	0	72	Live!
		GermanClarinet	109	2	72	Regular
		ClassicalBassoon	9	65	71	S.Art2!
		PopBassoon	9	64	71	S.Art2!
		OrchestralBassoon	109	0	71	Sweet!
		PanPipes	109	113	76	Sweet!
		IrishPipesAir	9	64	109	S.Art2!
		FluteSection	109	1	74	Regular
		Clarinet&Flutes	109	1	72	Regular
		Clarinet&Oboe	109	1	69	Regular
		DoubleReeds	109	2	69	Regular
		Flutes&Oboes	109	2	74	Regular
		OrchWoodwind	109	1	71	Regular
	Choir	BoysChoirAah f	9	38	52	S.Art!
		BoysChoirAah p	9	36	52	S.Art!
		BoysChoirAah	9	33	52	S.Art!
		BoysChoirOoh f	9	37	52	S.Art!
		BoysChoirOoh p	9	35	52	S.Art!
		BoysChoirOoh	9	32	52	S.Art!
		Baa	9	41	40	S.Art!
		Daa	9	45	40	S.Art!
		Doo	9	38	41	S.Art!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
EnsemblePart	Choir	Haa	9	32	40	S.Art!
		Ooh	9	32	41	S.Art!
		Wah	9	38	40	S.Art!
		Yoo	9	42	41	S.Art!
		BoysDoo	9	40	41	S.Art!
		GirlsDoo	9	41	41	S.Art!
		BoysHaa	9	34	40	S.Art!
		GirlsHaa	9	35	40	S.Art!
		BoysOoh	9	34	41	S.Art!
		GirlsOoh	9	36	41	S.Art!
	Others	Harmonica	9	64	105	S.Art2!
		MasterAccord	109	118	22	Regular
		Steirische	109	117	22	Regular
		LieblichGedackt	109	6	20	Regular
		GrandJeu	109	1	20	Live!
		SemiAcoustic	9	33	7	S.Art!
		JazzArtistGuitar	9	39	7	S.Art!
		Vibraphone	109	1	12	Sweet!
		Xylophone	109	0	14	Regular
		Glockenspiel	109	0	10	Regular
		OrchestralHarp	109	1	47	Regular
		Timpani	109	112	48	Regular
		NoAssign	109	0	128	Regular
Legacy	Piano	ConcertGrand	0	122	1	S.Art!
		ConcertGrand	0	115	1	Live!
		GrandPiano	0	113	1	Live!
		BrightPiano	0	112	2	Live!
		PopGrand	104	5	1	Live!
		RockPiano	104	4	1	Live!
		WarmGrand	0	114	1	Live!
		AmbientPiano	104	3	1	Live!
		CocktailPiano	104	0	4	Live!
		HonkyTonk	0	112	4	Regular
		OctavePiano1	0	113	4	Live!
		OctavePiano2	0	114	4	Live!
		MIDIGrand	104	2	3	S.Art!
		MIDIGrandPad	104	3	3	S.Art!
		MIDIGrandSyn	104	8	1	S.Art!
		MIDIGrand	104	0	3	Live!
		MIDIGrandPad	104	1	3	Live!
		MIDIGrandSyn	104	1	1	Live!
		MIDIGrand	0	112	3	Regular
		Piano&Orchestra	104	12	1	S.Art!
		PianoOrchestra	104	2	1	Live!
		Harpsichord	0	112	7	Live!
	E.Piano	SuitcaseBallad	104	9	5	Cool!
		SuitcaseDrive	104	11	5	Cool!
		SuitcaseEP	0	118	5	Cool!
		SuitcaseHard	104	16	5	Cool!
		SuitcaseJazz	104	13	5	Cool!
		SuitcasePhaser	104	10	5	Cool!
		SuitcaseSoft	104	7	5	Cool!
		SuitcaseTremolo	104	12	5	Cool!
		SuitcaseWarmth	104	14	5	Cool!
		TremoloSuitcase	0	113	5	Cool!
		VintageEP	104	8	5	Cool!
		VintageEP Drive	104	15	5	Cool!
		VintageEP	0	116	5	Regular
		BalladStack	0	114	3	Regular
		ChorusBell	0	120	6	Regular
		ElectricPiano	0	119	5	Cool!
		FunkEP	0	112	5	Regular
		HyperTines	0	113	6	Regular
		JazzChorus	0	118	6	Regular
		ModernEP	0	115	6	Regular
		NewTines	0	116	6	Regular
		PhaseEP	0	120	5	Regular
		SmoothTine	0	119	6	Regular
		StageEP	0	117	5	Regular
		CP80 Stage	0	113	3	Regular
		DX Modern	0	112	6	Regular
		GalaxyEP	0	114	5	Cool!
		Pianosphere	104	19	89	Regular
		PolarisEP	0	115	5	Regular
		SuperDX	0	117	6	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	E.Piano	VenusEP	0	114	6	Regular
		ClaviBright	0	112	8	Regular
		WahClavi	0	113	8	Regular
		PhaseClavi	0	115	8	Regular
		StereoClavi	0	114	8	Regular
		Magnetics	104	0	5	Regular
	Organ	RockOrgan JS	8	33	114	S.Art!
		AllBarsOutFast	104	0	19	Cool!
		AllBarsOutSlow	104	1	19	Cool!
		AllBarsPhase	104	2	19	Cool!
		FullRocker	0	115	19	Cool!
		FullRocker2	104	3	19	Cool!
		HoldItFast	0	111	18	Cool!
		JazzFast	0	127	18	Cool!
		JazzSlow	0	126	18	Cool!
		R&B TremoloOrgan	0	111	19	Cool!
		RotaryOrgan	0	117	19	Cool!
		RotarySwitch	0	110	18	Cool!
		TwoChannels	0	109	18	Cool!
		WhiterBarsFast	104	0	18	Cool!
		WhiterBarsSlow	104	1	18	Cool!
		BrightDrawbar	0	116	17	Regular
		ClickOrgan	0	112	18	Regular
		DanceOrgan	0	113	18	Regular
		DrawbarOrgan1	0	120	18	Regular
		DrawbarOrgan2	0	115	17	Regular
		ElectricOrgan	0	118	18	Regular
		GospelOrgan	0	119	17	Regular
		JazzOrgan1	0	112	17	Regular
		JazzOrgan2	0	113	17	Regular
		JazzOrgan3	0	120	17	Regular
		PercOrgan	0	119	18	Regular
		PurpleOrgan	0	114	19	Regular
		RockOrgan1	0	112	19	Regular
		RockOrgan2	0	119	19	Regular
		RockOrgan3	0	113	19	Regular
		RotaryDriveOrgan	0	116	19	Regular
		MellowVintage	0	115	18	Regular
		BallroomOrgan	0	115	4	Regular
		EuroOrgan	0	118	17	Regular
		FullTheatre	0	127	19	Regular
		Kinura8'	0	123	17	Regular
		ReedOrgan	0	112	21	Regular
		SweetTheatre	0	126	19	Regular
		Tibia16'&4'	104	8	17	Regular
		Tibia16'&4'Acmp	0	114	17	Regular
		Tibia8'	104	6	18	Regular
		Tibia8'&4'	104	9	17	Regular
		Tibia8'&4'Acmp	0	122	17	Regular
		Tibia8'Acmp	0	122	18	Regular
		TibiaChorus	104	5	18	Regular
		TibiaFullAcmp	0	114	18	Regular
		Trumpet&Kinura	0	125	18	Regular
		Trumpet16'&8'	0	124	18	Regular
		Vox&Tibia	104	10	17	Regular
		Vox&TibiaAcmp	0	125	17	Regular
		Vox8'Acmp	0	123	18	Regular
		VoxHumana8'	104	7	18	Regular
		FullOrgan	0	112	20	Regular
		HymnOrgan	0	114	20	Regular
		60sOrgan	0	116	18	Regular
		ClassicJazz	0	126	17	OrganFlutes
	Accordion	Harmonica	0	112	23	Sweet!
		ModernHarp	0	113	23	Regular
		BluesHarp	0	114	23	Regular
		Accordion	0	116	22	Regular
		AccordionBass	0	121	22	Regular
		BallroomAccordion	0	112	24	Regular
		Cassotto	104	0	22	Regular
		FrenchMusette	0	119	22	Regular
		FullRegister	104	2	22	Regular
		FullRegisterBass	104	5	22	Regular
		JazzAccordion	0	120	22	Regular
		MasterBass	0	122	22	Regular
		MusetteAccordion	0	112	22	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	Accordion	MusetteBass	0	123	22	Regular
		SmallAccordion	0	115	22	Regular
		SoftAccordion	0	114	22	Regular
		Steirische	0	117	22	Regular
		TuttiAccordion	0	113	22	Regular
	Strings	Classic1stVns	8	34	44	S.Art!
		Classic2ndVns	8	34	45	S.Art!
		ClassicViolas	8	34	46	S.Art!
		ClassicCellos	8	34	47	S.Art!
		Contrabass	0	112	44	Regular
		Violin	0	113	41	Sweet!
		SoloViolin	0	112	41	Regular
		Fiddle	0	112	111	Regular
		Viola	0	112	42	Regular
		Cello	0	112	43	Regular
		BalladStrings	8	34	50	S.Art!
		BigStrings	8	40	49	S.Art!
		ConcertStrings	8	32	50	S.Art!
		SeattleStrings f	8	40	50	S.Art!
		SeattleStrings mf	8	41	50	S.Art!
		SeattleStrings p	8	42	50	S.Art!
		SeattleStringsPad	8	43	49	S.Art!
		StudioStrings	8	32	49	S.Art!
		TheatreStrings	8	37	49	S.Art!
		Allegro	0	122	50	Live!
		SeattleStrings f	104	4	50	Live!
		SeattleStrings mf	104	5	50	Live!
		SeattleStrings p	104	6	50	Live!
		SeattleStrings sfz	104	1	45	Live!
		DynamicStrings	0	124	49	Live!
		MovieStrings	0	123	49	Live!
		Orchestra	0	116	50	Live!
		Strings f	0	119	49	Live!
		Strings mf	0	118	49	Live!
		Strings p	0	117	49	Live!
		Strings	0	117	50	Live!
		BowStrings	0	116	49	Regular
		ChamberStrings	0	112	50	Regular
		SlowStrings	0	113	50	Regular
		StringQuartet	0	114	50	Regular
		StringFalls	0	121	49	Live!
		Strings	0	112	49	Regular
		OrchStrings	0	113	49	Regular
		Symphonic	0	114	49	Regular
		ConcertoStrings	0	115	49	Regular
		Spiccato	8	33	49	S.Art!
		Spiccato	0	120	49	Live!
		Pizzicato	0	112	46	Regular
		Marcato	0	115	50	Regular
		TremoloStrings	0	113	45	Live!
		TremoloBowing	8	34	49	S.Art!
		TremoloBowing2	8	35	49	S.Art!
		TremoloStrings	0	112	45	Regular
		Orchestra&Flute	0	119	50	Regular
		Orchestra&Oboe	0	121	50	Regular
		Orchestra&Horns	0	118	50	Regular
		SymphonicUnison	104	0	50	Regular
		AnalogStrings	0	112	52	Regular
	Brass	BrightTrumpet	8	32	65	S.Art!
		BigBandTrumpet	8	37	65	S.Art!
		TrumpetFall	8	38	65	S.Art!
		TrumpetShake	8	35	65	S.Art!
		TrumpetShake2	8	36	65	S.Art!
		GoldenTrumpet	0	122	57	Sweet!
		SilverTrumpet	0	121	57	Sweet!
		Trumpet	0	115	57	Sweet!
		MellowTrumpet	0	120	57	Sweet!
		JazzTrumpet	0	116	57	Regular
		SoloTrumpet	0	112	57	Regular
		MutedTrumpet	0	114	60	Sweet!
		MutedTrumpet	0	112	60	Regular
		Flugelhorn	0	118	57	Sweet!
		Flugelhorn	0	113	57	Regular
		BrightTrombone	104	0	58	Sweet!
		SweetTrombone	0	117	58	Sweet!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	Brass	Trombone	0	116	58	Regular
		SoftTrombone	0	115	58	Regular
		SoloTrombone	0	112	58	Regular
		MellowTrombone	0	114	58	Regular
		SmoothTrombone	0	118	58	Regular
		Tuba2	0	112	59	Regular
		BaritoneHorn	0	113	59	Regular
		BaritoneHit	0	114	59	Regular
		AlpBass	0	113	34	Regular
		MutedHorns	8	34	61	S.Art!
		FrenchHorns	0	112	61	Live!
		SoftHorns	0	117	61	Live!
		SymphonyHorns	0	115	61	Live!
		MellowHorns	0	119	62	Regular
		SoftTrombones	0	118	61	Live!
		TromboneSection	0	113	58	Regular
		AccentFalls	8	38	57	S.Art!
		BrassFalls mf	8	35	57	S.Art!
		BrassShake	8	32	57	S.Art!
		BrassShake2	8	33	57	S.Art!
		Brass f	0	108	62	Live!
		Brass mf	0	110	62	Live!
		Brass p	0	111	62	Live!
		AccentBrass	0	109	62	Live!
		BrassBand	0	123	57	Live!
		BrassDynamics	0	106	62	Live!
		DynamicBrass	0	127	62	Live!
		HyperBrass	0	118	63	Live!
		OctaveBrass	0	116	63	Live!
		PopBrass	0	117	63	Live!
		PowerBrass	0	121	63	Live!
		Sforzando	0	105	62	Live!
		SmallBrass	0	120	61	Live!
		SymphonyBrass	0	119	61	Live!
		BallroomBrass	0	113	60	Regular
		BigBandBrass	0	113	62	Regular
		BigBrass	0	121	62	Regular
		BrassCombo	0	115	67	Regular
		BrassHit	0	126	62	Regular
		BrassSection	0	112	62	Regular
		BreathBrass	0	116	61	Regular
		BrightBrass	0	120	62	Regular
		FullHorns	0	114	62	Regular
		HighBrass	0	115	62	Regular
		MellowBrass	0	116	62	Regular
		NaturalBrass	0	124	62	Regular
		Sforzando	0	125	62	Regular
		SmallBrass	0	117	62	Regular
		SoftBrass	0	123	62	Regular
		TrumpetEns	0	122	62	Regular
		80sBrass	0	113	63	Regular
		FatSynthBrass	0	116	64	Regular
		FunkyAnalog	0	115	63	Regular
		HybridComp	0	119	63	Regular
		Hybrihorn	0	113	61	Regular
		Hybripad	0	114	61	Regular
		OberBrass	0	113	64	Regular
		PopBrass	0	118	62	Regular
		SoftAnalog	0	114	64	Regular
		SoftVelocityBrass	0	120	63	Regular
		SynthBrass	0	112	63	Regular
	Woodwind	OrchestralFlute	8	32	74	S.Art!
		OrchestralFlute	104	0	74	Sweet!
		ClassicalFlute	0	115	74	Sweet!
		JazzFlute	0	114	74	Sweet!
		Flute	0	112	74	Regular
		OrchestralOboe	104	0	69	Sweet!
		ClassicalOboe	0	113	69	Sweet!
		Oboe	0	112	69	Regular
		EnglishHorn	0	112	70	Regular
		JazzClarinet	0	114	72	Sweet!
		Clarinet	0	112	72	Regular
		OrchestralBassoon	104	0	71	Sweet!
		Bassoon	0	112	71	Regular
		SopranoSax	0	113	65	Sweet!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	Woodwind	SopranoSax	0	112	65	Regular
		CleanAltoSax	8	32	67	S.Art!
		AltoSax	0	114	66	Sweet!
		PopAltoSax	104	0	66	Sweet!
		AltoSax	0	112	66	Regular
		Saxophone	8	32	83	S.Art!
		BigBandSax	8	35	83	S.Art!
		RockSax	8	33	83	S.Art!
		RockSax2	8	34	83	S.Art!
		SweetTenorSax	0	125	67	Sweet!
		BalladTenorSax	0	126	67	Sweet!
		PopTenor	0	127	67	Sweet!
		TenorSax	0	117	67	Sweet!
		TenorSax	0	112	67	Regular
		GrowlSax	0	111	67	Sweet!
		GrowlSax	0	118	67	Regular
		BaritoneSax1	104	0	68	Regular
		BaritoneSax2	0	112	68	Regular
		FluteEnsemble	0	116	74	Regular
		Moonlight	0	115	72	Regular
		WoodwindsEns	0	113	67	Regular
		SaxAppeal	0	123	67	Live!
		BalladSection	0	119	67	Regular
		SaxStack	0	124	67	Regular
		SaxyMood	0	120	67	Regular
		ChiffPanFlute	0	113	74	Regular
		EthnicFlute	0	112	76	Regular
		Recorder	0	112	75	Regular
		Ocarina	0	112	80	Regular
	Choir	BaroqueScat	8	43	56	S.Art!
		Baa	104	12	53	Live!
		Daa	104	13	53	Live!
		Doo	104	16	54	Live!
		Haa	104	9	53	Live!
		Ooh	104	17	54	Live!
		Wah	104	10	53	Live!
		Yoo	104	18	54	Live!
		GothicVox	0	113	54	Regular
		Voices	0	113	55	Regular
		Choir	0	112	53	Regular
		AirChoir	0	112	55	Regular
		HahChoir	0	114	53	Regular
		UuhChoir	0	115	53	Regular
		BoysChoirAah	104	8	53	Live!
		BoysChoirOoh	104	8	54	Live!
		GospelHmm	104	12	54	Live!
		GospelHey	104	7	53	Live!
		GospelWow	104	13	54	Live!
		GospelVoices	0	116	53	Live!
		Humming	0	118	53	Live!
		Mmh	0	117	53	Live!
		VoxHumana	0	112	54	Regular
		BellHeaven	0	119	89	Regular
		DreamHeaven	0	121	89	Regular
		SweetHeaven	0	118	89	Regular
		HahPad	0	116	95	Regular
		PanHeaven	0	120	89	Regular
		ProHeaven	0	122	89	Regular
		Sunbeam	0	123	89	Regular
	A.Guitar	ClassicalGuitar	0	115	25	Live!
		DynamicNylonGtr	0	116	25	Live!
		NylonMute	0	119	25	Live!
		SlideNylonGuitar	0	117	25	Live!
		FlamencoGuitar	8	33	1	S.Art!
		SpanishGuitarSlide	104	9	26	Live!
		HardFlamenco	0	118	25	Live!
		SteelGuitar	8	32	2	S.Art!
		FolkAcousticGtr	8	33	2	S.Art!
		SteelGuitarTwin1	104	12	26	Live!
		SteelGuitarTwin2	104	13	26	Live!
		SteelAcoustic	104	10	26	Live!
		12StringGuitar	0	113	26	Live!
		DynamicSteelGtr	0	116	26	Live!
		SlideSteelGuitar	0	118	26	Live!
		SteelGuitar	0	117	26	Live!

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	A.Guitar	SteelMute	0	120	26	Live!
		18StringGuitar	0	119	26	Regular
		CampfireGuitar	0	115	26	Regular
		FolkGuitar	0	112	26	Regular
		Mandolin	0	114	26	Sweet!
		Banjo2	0	112	106	Regular
		Hackbrett2	0	113	47	Regular
		Sitar2	0	112	105	Regular
	E.Guitar	Feedbacker	8	33	5	S.Art!
		GuitarHero	8	32	6	S.Art!
		BluesGuitar	0	117	30	Cool!
		PowerLead	0	115	31	Cool!
		StereoRockGuitar	104	2	31	Cool!
		CrunchGuitar	0	113	31	Regular
		DistortionGuitar	0	112	31	Regular
		FeedbackGuitar	0	113	30	Regular
		HeavyStack	0	114	31	Regular
		MetalMaster	0	120	31	Regular
		PowerChord	0	117	31	Regular
		VodooLead	0	116	31	Regular
		HalfDrive	8	37	4	S.Art!
		CrunchGuitar	8	33	6	S.Art!
		VintageLead	0	125	28	Cool!
		LeadGuitar	0	114	30	Regular
		OverdriveGuitar	0	112	30	Regular
		RockGuitar	0	116	30	Regular
		SmoothLead	0	119	27	Regular
		VintageAmp	0	115	30	Regular
		JazzGuitar	0	115	27	Cool!
		JazzSoloGuitar	0	116	27	Cool!
		SlideJazzGuitar	104	0	27	Cool!
		LoungeGuitar	104	1	27	Regular
		OctaveGuitar	0	113	27	Regular
		DX JazzGuitar	0	117	27	Regular
		70sSolidGuitar	8	38	4	S.Art!
		CleanElectric	8	35	4	S.Art!
		CleanSolid	8	34	4	S.Art!
		VintageAmp	8	40	4	S.Art!
		VintagePure	8	47	4	S.Art!
		VintageSlap	8	48	4	S.Art!
		WarmElectric	8	32	4	S.Art!
		WarmSolid	8	33	4	S.Art!
		BalladSolid	0	109	28	Cool!
		ChorusSolid	0	107	28	Cool!
		CleanGuitar	0	112	28	Cool!
		DynamicMute	0	118	29	Cool!
		ElectricGuitar	0	114	29	Cool!
		FunkGuitar	0	116	29	Cool!
		MutedGuitar	0	119	29	Cool!
		Slapback	104	0	28	Cool!
		SlapSolid	0	108	28	Cool!
		SlideClean	0	117	29	Cool!
		SlideFinger	104	5	28	Cool!
		SlidePick	104	7	28	Cool!
		SlidePickAmp	104	8	28	Cool!
		SlideSolid	0	110	28	Cool!
		SlideWarm	104	6	28	Cool!
		TremoloSolid	0	111	28	Cool!
		VintageMute	104	0	29	Cool!
		50sVintageMute	0	115	29	Regular
		60sCleanGuitar	0	117	28	Regular
		BrightClean	0	116	28	Regular
		ChorusGuitar	0	124	28	Regular
		CoolWahGuitar	104	4	28	Regular
		DeepChorus	0	114	28	Regular
		Electric12String	0	119	28	Regular
		FunkGuitar	0	113	29	Regular
		MutedGuitar	0	112	29	Regular
		SolidChord	0	121	28	Regular
		SolidGuitar	0	118	28	Regular
		TremoloGuitar	0	113	28	Regular
		VintageOpen	0	123	28	Regular
		VintageStrum	0	126	28	Regular
		VintageTrem	0	120	28	Regular
		WahGuitar	0	122	28	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	E.Guitar	PedalSteel	8	36	4	S.Art!
		PedalSteelAmp	8	52	4	S.Art!
		PedalSteel	0	115	28	Regular
	Bass	VintageFlat	104	2	34	Cool!
		VintageMute	104	3	34	Cool!
		VintagePickMute	104	0	35	Cool!
		VintageRound	104	1	34	Cool!
		SlapBass	0	112	37	Regular
		FretlessBass	0	112	36	Cool!
		AcousticBass1	104	1	33	Regular
		AcousticBass2	0	112	33	Regular
		BallroomBass	104	0	33	Regular
		SoftAcousticBass	104	2	33	Regular
		Bass&Cymbal	0	114	33	Regular
		1o1Sub	104	5	39	Regular
		80sSynthBass	0	115	40	Regular
		AnalogBass	0	112	40	Regular
		BalladBass	104	7	40	Regular
		BigDrone	0	118	39	Regular
		BleepBass	0	122	40	Regular
		ClickBass	0	115	39	Regular
		ClickOrganBass	104	27	18	Regular
		ClubBass	104	2	39	Regular
		Competitor	104	4	39	Regular
		DarkBass	104	1	40	Regular
		DarkCoreBass	0	120	40	Regular
		DeepPoint	104	3	39	Regular
		DrySynthBass	0	116	40	Regular
		DX FunkBass	0	113	38	Regular
		DX100 Bass	0	118	40	Regular
		DynoAcidBass	104	10	39	Regular
		FatLoBass	0	119	39	Regular
		FatPulse	104	2	40	Regular
		FatSineResonance	104	11	39	Regular
		FunkBass	0	121	40	Regular
		HardBass	0	114	39	Regular
		HiQ Bass	0	113	39	Regular
		HouseBass	0	116	39	Regular
		KickBass	104	1	39	Regular
		LFO SynBass	0	110	102	Regular
		LittleBassSynth	104	6	39	Regular
		LoBass	104	0	40	Regular
		MiniSub	104	6	40	Regular
		MoonBass	104	0	39	Regular
		PercPunch	104	8	39	Regular
		PunchyBass	0	117	39	Regular
		RampBass	0	119	40	Regular
		ResonanceBass	0	112	39	Regular
		SquareBass	104	4	40	Regular
		SubCutBass	104	5	40	Regular
		TB Bass	0	117	40	Regular
		TeknoBass	104	7	39	Regular
		TightBass	104	3	40	Regular
		TranceBass	104	9	39	Regular
		VelocityMaster	104	17	82	Regular
		WazzoSaw	104	3	81	Regular
	Percussion	JazzVibes	0	113	12	Regular
		Vibraphone	0	112	12	Regular
		Marimba	0	112	13	Regular
		Xylophone	0	112	14	Regular
		Glockenspiel	0	112	10	Regular
		Harp	0	112	47	Regular
	Pad	AnalogSwell	0	119	96	Regular
		Area51	0	112	90	Regular
		Atmo5th	104	6	90	Regular
		BrightOber	0	113	96	Regular
		BrightPadClassic	104	3	91	Regular
		DarkMoon	0	113	90	Regular
		DarkPad	0	118	96	Regular
		Dunes	0	114	90	Regular
		Equinox	0	112	95	Regular
		EveningStars	0	117	102	Regular
		Fantasia	0	112	89	Regular
		GlassPad	0	114	94	Regular
		GloriousPhase	0	114	91	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	Pad	GoldenAge	0	115	89	Regular
		Ionosphere	0	115	95	Regular
		Messenger	0	116	96	Regular
		MidnightSpecial	104	3	102	Regular
		NeoWarmPad	0	115	90	Regular
		NightMotion	104	4	89	Regular
		PearlsPad	104	2	89	Regular
		PsychoPad	0	118	102	Regular
		S&H Groove	0	115	102	Regular
		Sirius	0	114	102	Regular
		Solaris	0	114	95	Regular
		SuperDarkPad	0	119	90	Regular
		VaporPad	104	1	90	Regular
		Wave2001	0	112	96	Regular
		XenonPad	0	112	92	Regular
		PianoSweeper	104	3	100	Regular
		DX Pad	0	112	93	Regular
		80sPad	104	1	52	Regular
		AngelVibes	0	114	99	Regular
		Atmosphere	0	112	100	Regular
		Bellsphere	104	5	89	Regular
		BigOctavePad	0	115	91	Regular
		Bubblespace	0	113	102	Regular
		DarkAngelPad	0	121	90	Regular
		DigitalPad	0	115	94	Regular
		Disclosure	0	116	90	Regular
		FarEast	0	112	98	Regular
		FlyingHarmonics	104	1	100	Regular
		HybridPad	104	22	89	Regular
		Insomnia	0	113	95	Regular
		MetallicRain	104	8	102	Regular
		Millennium	0	117	89	Regular
		MyGeneration	104	5	102	Regular
		Mystery	0	113	98	Regular
		NylonPad	104	0	100	Regular
		PremiumPad	104	0	52	Regular
		RainyDay	104	5	90	Regular
		Randomizer	104	10	102	Regular
		ReflectingZone	104	21	89	Regular
		SixthSense	104	2	102	Regular
		Spectralis	104	4	95	Regular
		Symbiont	0	113	89	Regular
		TheFog	104	9	102	Regular
		TimeTravel	0	116	89	Regular
		Tric-Trac	104	2	98	Regular
		VelocityAshrami	0	116	102	Regular
		WarpedWaves	104	2	95	Regular
		WaterGames	104	4	102	Regular
		Stargate	0	114	89	Regular
		MagicBell	8	32	121	S.Art!
	Synth	CoolHiPa JS	8	34	124	S.Art!
		FourStack JS	8	33	124	S.Art!
		NuLine JS	8	35	124	S.Art!
		Redoubling JS	8	37	124	S.Art!
		SquareStack JS	8	32	124	S.Art!
		Blaster	0	114	82	Regular
		Chordmaster	104	13	82	Regular
		ChorusSawLead	104	10	82	Regular
		Cyclist	104	17	91	Regular
		DanceChords	104	5	52	Regular
		DanceHook	0	112	87	Regular
		DetunedSawOctave	104	8	82	Regular
		FunkyLead	0	121	82	Regular
		HardTeeth	104	16	91	Regular
		LoonyLead	104	15	91	Regular
		OctaveHook	0	113	87	Regular
		OrbitSine	0	126	81	Regular
		Paraglide	0	114	85	Regular
		Persecutor	104	14	91	Regular
		PunchyChordz	104	24	91	Regular
		Robolead	0	124	82	Regular
		TenPercent	104	18	91	Regular
		TechGlide	104	14	82	Regular
		TrancyChordz	104	25	91	Regular
		UnderHeim	0	112	88	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	Synth	UnstableLead	104	13	91	Regular
		VinalogSaw	104	3	82	Regular
		Yipping	104	12	91	Regular
		ArpeggioLine	104	12	85	Regular
		BigTune	0	118	90	Regular
		BriteDecay	104	5	85	Regular
		ChordBuddy	104	10	85	Regular
		EasternAir	104	1	98	Regular
		FaaatComp	104	4	52	Regular
		HeavenBell	104	0	101	Regular
		NiceBell	104	9	89	Regular
		Nomad	104	1	105	Regular
		SazFeeze	104	0	98	Regular
		ShortUnison	104	4	85	Regular
		StaccMelody	104	7	85	Regular
		StackBell	104	8	89	Regular
		SynthSticks	104	0	107	Regular
		TekkTune	104	6	85	Regular
		TuneComp	104	11	85	Regular
		UnisonStrings	104	9	51	Regular
		AnalogSeq	104	3	88	Regular
		Attack	104	4	82	Regular
		CrystalEyes	0	125	89	Regular
		DigitalSequence	104	2	88	Regular
		DynaSequence	104	27	89	Regular
		MelodyMaker	0	117	90	Regular
		Padbells	0	126	89	Regular
		PanLead	0	122	81	Regular
		PercSeqFM1	104	7	88	Regular
		PercSeqFM2	104	8	88	Regular
		PercSeqFS	104	6	88	Regular
		PercSeqHipa	104	9	88	Regular
		PercSeqSaw	104	11	82	Regular
		PercSquare	0	123	81	Regular
		PitchFall	104	0	104	Regular
		PopLead	0	120	81	Regular
		Portatone	0	112	85	Regular
		ProLead	0	113	84	Regular
		PWM Percussion	104	6	82	Regular
		PWM Picks	104	25	89	Regular
		PWM Wild	104	4	81	Regular
		ResonanceComp	104	4	63	Regular
		ResonantClavi	104	2	91	Regular
		SimpleComp	104	12	82	Regular
		SoftStepper	104	24	89	Regular
		Stardust	0	112	99	Regular
		StringBells	0	124	89	Regular
		SunBell	0	113	99	Regular
		TrancePerc	104	5	82	Regular
		TranceSeq1	104	4	88	Regular
		TranceSeq2	104	5	88	Regular
		TranceSeq3	104	1	91	Regular
		Xtune	104	1	88	Regular
		FatSawHook	104	7	52	Regular
		Adrenaline	0	113	85	Regular
		AeroLead	0	112	84	Regular
		Analogon	0	115	82	Regular
		AttackSaw	0	126	82	Regular
		BigLead	0	113	82	Regular
		BleepLead	104	0	85	Regular
		BrassyLead	104	5	63	Regular
		BrightMini	0	125	81	Regular
		DetunedVintage	104	1	85	Regular
		EarlyLead	0	118	82	Regular
		Fargo	0	119	82	Regular
		FireWire	0	116	82	Regular
		FlangeFilter	104	2	82	Regular
		FusionLead	104	15	82	Regular
		HiBias	0	116	81	Regular
		HipaLead	0	118	85	Regular
		HopLead	0	117	81	Regular
		Impact	0	113	88	Regular
		Matrix	0	123	82	Regular
		MiniLead	0	114	81	Regular
		MouthLead	104	0	82	Regular

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
Legacy	Synth	Oxygen	0	122	82	Regular
		PunchyHook	0	127	82	Regular
		PWM Lead	104	1	82	Regular
		SawLead	0	112	82	Regular
		Skyline	0	115	85	Regular
		SoftMini	0	124	81	Regular
		SoftR&B	0	119	81	Regular
		SoftSquare	104	5	81	Regular
		SquareLead	0	112	81	Regular
		SubLead	104	0	81	Regular
		TechLead	0	117	85	Regular
		Tekkline	0	116	85	Regular
		TinyLead	0	118	81	Regular
		TrumpetSaw	0	125	82	Regular
		VinylLead	0	115	81	Regular
		Warp	0	117	82	Regular
		TrancyNoise	104	1	123	Regular
		Noise	0	120	123	Regular
		RS AnalogPad	0	126	90	Regular
		RS DistortionLead	0	114	84	Regular
		RS DualSaw	0	109	82	Regular
		RS DualSquare	0	127	81	Regular
		RS NoisePad	0	124	90	Regular
		RS QuackLead	0	119	85	Regular
		RS RampLead	0	107	82	Regular
		RS SawLead1	0	104	82	Regular
		RS SawLead2	0	106	82	Regular
		RS ShortResonance	0	116	91	Regular
		RS Sync1	0	105	82	Regular
		RS Sync2	0	119	88	Regular
		RS SynthPad	0	123	90	Regular
		RS TechSaw	0	108	82	Regular
		RS TeknoMan	0	125	90	Regular
		RS WarmPad	0	113	92	Regular
		LFO Pad	0	104	102	Regular
		LFO Sync1	0	108	102	Regular
		LFO Sync2	0	107	102	Regular
		LFO Sync3	0	109	102	Regular
		LFO Sync4	0	106	102	Regular
		LFO Sync5	0	105	102	Regular
	DrumKit	StandardKit2	127	0	2	Live!Drums
		BrushKit	127	0	41	Live!Drums
		RockKit	127	0	17	Drums
		ElectroKit	127	0	25	Drums
		CymbalKit	126	0	50	Live!SFX
		ArabicKit	126	0	36	SFX
		SFX Kit1	126	0	1	SFX
		SFX Kit2	126	0	2	SFX
		NoisesKit	126	0	9	SFX
		SeaShore	104	0	123	Live!
		Helicopter	104	0	126	Live!
		Applause1	104	0	127	Live!
		Applause2	104	1	127	Live!
		GunShot	104	0	128	Live!
MegaVoice	Strings	KinoSmall	8	3	49	MegaVoice
		KinoSmallComp	8	4	49	MegaVoice
		KinoSmallCompOctCb	8	5	49	MegaVoice
		KinoSmallAmbi	8	6	49	MegaVoice
		KinoLarge	8	2	50	MegaVoice
		KinoLargeComp	8	3	50	MegaVoice
		KinoLargeOctCb	8	4	50	MegaVoice
		KinoLargeAmbi	8	6	50	MegaVoice
		KinoLargeAmbiOctCb	8	5	50	MegaVoice
		ClassicalStrings	8	1	49	MegaVoice
		SeattleStrings	8	1	50	MegaVoice
		SmallStrings	8	0	49	MegaVoice
		LargeStrings	8	0	50	MegaVoice
	Brass	Trumpet	8	0	65	MegaVoice
		PopHorns1	8	1	57	MegaVoice
		PopHorns2	8	2	57	MegaVoice
		Brass	8	0	57	MegaVoice
	Woodwind	TenorSax	8	0	83	MegaVoice
	Choir	GospelChoir	8	0	55	MegaVoice
		MaleVoiceChoir	8	0	52	MegaVoice
		PopHaa	8	0	101	MegaVoice

Category	Sub Category	Voice Name	Voice Number			Voice Type
			MSB#	LSB#	PC# (1–128)	
MegaVoice	Choir	PopDaa	8	0	102	MegaVoice
		PopBaa	8	0	103	MegaVoice
		PopHoo	8	0	106	MegaVoice
		PopDoo	8	0	107	MegaVoice
		PopShoo	8	0	104	MegaVoice
		PopHee	8	0	111	MegaVoice
		PopBee	8	0	108	MegaVoice
		PopHaaLegato2	8	0	116	MegaVoice
		PopHooLegato2	8	0	121	MegaVoice
		PopHeeLegato2	8	0	126	MegaVoice
	A.Guitar	D-FolkGuitar	8	10	2	MegaVoice
		D&HardFolkTwin1	8	13	2	MegaVoice
		D&WarmFolkTwin1	8	14	2	MegaVoice
		D&HardFolkTwin2	8	15	2	MegaVoice
		D&WarmFolkTwin2	8	16	2	MegaVoice
		SteelAcousticFinger	8	11	2	MegaVoice
		SteelAcThumbPick	8	12	2	MegaVoice
		SteelAcousticPick	8	1	2	MegaVoice
		SteelAcousticSlap	8	2	2	MegaVoice
		SteelGuitarTwin1	8	5	2	MegaVoice
		SteelGuitarTwin2	8	6	2	MegaVoice
		12StringPickTwin1	8	7	2	MegaVoice
		12StringPickTwin2	8	8	2	MegaVoice
		SteelGuitar	8	0	2	MegaVoice
		12StringGuitar	8	1	3	MegaVoice
		HiStringGuitar	8	0	3	MegaVoice
		FlamencoGuitar	8	3	1	MegaVoice
		SpanishMedium	8	4	1	MegaVoice
		SpanishHard	8	5	1	MegaVoice
		NylonGuitar	8	0	1	MegaVoice
		Mandolin	8	4	13	MegaVoice
		UkleleThumbDown	8	0	14	MegaVoice
	E.Guitar	60sVintage	8	10	4	MegaVoice
		60sVintageSlap	8	11	4	MegaVoice
		50sVintageFinger	8	4	4	MegaVoice
		50sVintageFingerSlap	8	5	4	MegaVoice
		50sVintagePick	8	6	4	MegaVoice
		50sVintageSlap	8	7	4	MegaVoice
		SlapAmpGuitar	8	8	4	MegaVoice
		SingleCoilGuitar	8	3	4	MegaVoice
		SolidGuitar1	8	1	4	MegaVoice
		SolidGuitar2	8	2	4	MegaVoice
		CleanGuitar	8	0	4	MegaVoice
		JazzGuitar	8	0	7	MegaVoice
		OverdriveGuitar	8	0	5	MegaVoice
		DistortionGuitar	8	0	6	MegaVoice
	Bass	ActiveBassFingHarm	8	4	18	MegaVoice
		ActiveBassFingSlap	8	5	18	MegaVoice
		ActiveBassPick	8	3	19	MegaVoice
		ActiveBassPickOpen	8	4	19	MegaVoice
		ActiveBassPickMute	8	5	19	MegaVoice
		ActiveBassFingHmrOn	8	3	18	MegaVoice
		ActiveBassPickHmrOn	8	2	19	MegaVoice
		ActiveBassSlap	8	0	21	MegaVoice
		VintageRound	8	1	18	MegaVoice
		VintageFlat	8	2	18	MegaVoice
		VintagePick	8	1	19	MegaVoice
		ElectricBass	8	0	18	MegaVoice
		PickBass	8	0	19	MegaVoice
		FretlessBass	8	0	20	MegaVoice
		AcousticBass	8	0	17	MegaVoice

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)	above C6	above C8
8	0	1	NylonGuitar	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open med / open hard / dead / mute / hammer / slide / harmonics	strum noise	fret noise
8	0	2	SteelGuitar	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open med / open hard / dead / mute / hammer / slide / harmonics	strum noise	fret noise
8	0	3	HiStringGuitar	1–89 / 90–127	1–127	1–127
				soft / hard	strum noise	fret noise
8	1	3	12StringGuitar	1–71 / 72–115 / 116–127	1–127	1–127
			Element1 (Steel)	soft / med / hard		
			Element2 (HiString)	1–89 / 90–127	strum noise	fret noise
				soft / hard		
8	0	4	CleanGuitar	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open hard / slap / dead / mute / hammer / slide / pick harmonics	strum noise	fret noise
8	1	4	SolidGuitar1	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open hard / slap / dead / mute / hammer / slide / pick harmonics	strum noise	fret noise
8	2	4	SolidGuitar2	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open med / open hard / dead / mute / hammer / slide / pick harmonics	strum noise	fret noise
8	3	4	SingleCoilGuitar	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open med / open hard / dead / mute / hammer / slide / pick harmonics	strum noise	fret noise
8	4	4	50sVintageFinger	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–20 / 21–127
				open soft / open med / open hard / dead / mute / hammer / slide / pick harmonics	strum noise	SE / fret noise
8	5	4	50sVintage FingerSlap	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–20 / 21–127
				open soft / open med / open hard / dead / mute / hammer / slide / pick harmonics	strum noise	SE / fret noise
8	6	4	50sVintagePick	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–20 / 21–127
				open soft / open med / open hard / dead / mute / hammer / slide / pick harmonics	strum noise	SE / fret noise
8	7	4	50sVintageSlap	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–20 / 21–127
				open soft / open med / open hard / dead / mute / hammer / slide / pick harmonics	strum noise	SE / fret noise
8	8	4	SlapAmpGuitar	1–20 / 21–30 / 31–40 / 41–50 / 51–60 / 61–67 / 68–75 / 76–82 / 83–90 / 91–105 / 106–120 / 121–127	1–127	1–20 / 21–127
				open soft / open med / open hard / open slap amp / open slap line / dead mp / dead mf / mute mp / mute mf / hammer / slide / pick harmonics	strum noise	SE / fret noise
8	0	5	OverdriveGuitar	1–55 / 56–120 / 121–127	1–127	
				open / mute / pick harmonics	SE	
8	0	6	DistortionGuitar	1–55 / 56–120 / 121–127	1–127	
				open / mute / pick harmonics	SE	
8	0	7	JazzGuitar	1–20 / 21–40 / 41–60 / 61–75 / 76–90 / 91–105 / 106–120 / 121–127	1–127	1–127
				open soft / open med / open hard / dead soft / dead hard / hammer / slide / pick harmonics	strum noise	fret noise
8	0	17	AcousticBass	1–60 / 61–80 / 81–120 / 121–127	1–127	
				open soft / open hard / dead / harmonics	SE	

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)	above C6	above C8
8	0	18	ElectricBass	1–60 / open soft; 61–80 / open hard; 81–120 / dead; 121–127 / slap	1–127 / SE	
8	1	18	VintageRound	1–60 / open soft; 61–80 / open hard; 81–120 / dead; 121–127 / harmonics	1–127 / SE	
8	2	18	VintageFlat	1–60 / open soft; 61–80 / open hard; 81–120 / dead; 121–127 / harmonics	1–127 / SE	
8	0	19	PickBass	1–40 / open; 41–80 / mute; 81–120 / dead; 121–127 / harmonics	1–127 / SE	
8	1	19	VintagePick	1–40 / open; 41–80 / mute; 81–120 / dead; 121–127 / harmonics	1–127 / SE	
8	0	20	FretlessBass	1–80 / open; 81–120 / dead; 121–127 / harmonics	1–127 / SE	
8	0	49	SmallStrings	1–20 / p; 21–40 / mf; 41–60 / f; 61–80 / legato; 81–95 / spiccato f; 96–110 / spiccato ff; 111–120 / tremolo; 121–127 / glissando down		
8	1	49	ClassicalStrings	1–20 / p; 21–40 / mf; 41–60 / f; 61–80 / legato; 81–95 / spiccato f; 96–110 / spiccato ff; 111–120 / tremolo; 121–127 / glissando down		
8	0	50	LargeStrings	1–20 / p; 21–40 / mf; 41–60 / f; 61–80 / legato; 81–95 / spiccato f; 96–110 / spiccato ff; 111–120 / tremolo; 121–127 / glissando down		
8	1	50	SeattleStrings	1–20 / p; 21–40 / mf; 41–60 / f; 61–80 / legato; 81–95 / spiccato f; 96–110 / spiccato ff; 111–120 / tremolo; 121–127 / glissando down		
8	0	52	MaleVoiceChoir	1–15 / Ooh p; 16–30 / Ooh p legato; 31–45 / Ooh mf; 46–60 / Ooh mf legato; 61–75 / Aah p; 76–90 / Aah p legato; 91–105 / Aah mf; 106–127 / Aah mf legato		
8	0	55	GospelChoir	1–15 / Hmm; 16–30 / Hmm legato; 31–45 / Wow; 46–60 / Wow legato; 61–75 / Hey; 76–90 / Hey legato; 91–105 / Aaa; 106–127 / Aaa legato	1–127 / ad libs SE	
8	0	57	Brass	1–20 / p; 21–40 / mf; 41–60 / f; 61–80 / attack; 81–90 / scoop; 91–100 / shake; 101–110 / fall fast mf; 111–120 / fall fast f; 121–127 / glissando up		
8	0	65	Trumpet	1–20 / mf; 21–40 / f; 41–60 / ff; 61–80 / legato; 81–100 / straight; 101–110 / shake; 111–120 / fall; 121–127 / glissando up	1–127 / valve noise	1–127 / breath noise
8	0	83	TenorSax	1–20 / mp; 21–40 / mf; 41–60 / f; 61–80 / legato; 81–100 / growl; 101–127 / fall	1–127 / valve noise (C6–B6 key on noise C7–B7 key off noise)	1–127 / breath noise
8	0	101	PopHaa	1–10 / Haa p; 11–20 / Aa p legato; 21–30 / Haa vib p; 31–40 / Aa vib p legato; 41–50 / Haa f; 51–60 / Aa f legato; 61–70 / Haa vib f; 71–80 / Aa vib f legato; 81–90 / Waa p; 91–100 / Waa vib p; 101–110 / Waa f; 111–127 / Waa vib f	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127 / breath noise	

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)												above C6	above C8
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	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**breath noise**	
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	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**breath noise**	
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	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**breath noise**	
8	0	107	**PopDoo**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**breath noise**	
8	0	104	**PopShoo**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**breath noise**	
8	0	111	**PopHee**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**Wee vib p**	**Wee vib p**	**Wee vib p**	**Wee vib p**	**vocal breath**	
8	0	108	**PopBee**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**Wee vib p**	**Wee vib p**	**Wee vib p**	**Wee vib p**	**breath noise**	
8	0	116	**PopHaaLegato2**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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 p**	**Waa vib p**	**Waa vib f**	**breath noise**	
8	0	121	**PopHooLegato2**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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 p**	**Yoo vib p**	**Yoo vib f**	**breath noise**	
8	0	126	**PopHeeLegato2**	1–10	11–20	21–30	31–40	41–50	51–60	61–70	71–80	81–90	91–100	101–110	111–127	C6–D#6 : 1–60, 61–127 E6–B6 : 1–30, 31–60, 61–90, 91–127	
				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**	**Wee vib p**	**Wee vib p**	**Wee vib p**	**Wee vib p**	**breath noise**	

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)	above C6	above C8
8	1	2	SteelAcousticPick	1–20 | 21–40 | 41–60 | 61–67 | 68–75 | 76–83 | 84–90 | 91–105 | 106–120 | 121–127	1–127	
				pick soft | pick med | pick hard | dead p | dead f | mute soft | mute hard | hammer | slide | harmonics	pick noise	
8	2	2	SteelAcousticSlap	1–20 | 21–40 | 41–50 | 51–60 | 61–67 | 68–75 | 76–83 | 84–90 | 91–105 | 106–120 | 121–127	1–127	
				pick soft | pick med | slap soft | slap hard | dead p | dead f | mute soft | mute hard | hammer | slide | harmonics	pick noise	
8	3	1	FlamencoGuitar	1–20 | 21–40 | 41–60 | 61–80 | 81–90 | 91–100 | 101–110 | 111–120 | 121–127	1–45 | 46–90 | 91–127	
				finger soft | finger soft/med | finger med | finger hard | mute | hammer | slide down | slide up | key off	noise | noise 2 | shout	
8	4	1	SpanishMedium	1–20 | 21–40 | 41–60 | 61–75 | 76–90 | 91–105 | 106–120 | 121–127	1–127	
				finger soft | finger soft/med | finger med | dead | mute | hammer | slide up | harmonics	strum noise	
8	5	1	SpanishHard	1–20 | 21–40 | 41–60 | 61–75 | 76–90 | 91–105 | 106–120 | 121–127	1–127	
				finger soft/med | finger med | finger hard | dead | mute | hammer | slide up | harmonics	strum noise	
8	5	2	SteelGuitarTwin1	1–20 | 21–40 | 41–60 | 61–67 | 68–75 | 76–83 | 84–90 | 91–105 | 106–120 | 121–127	1–127	
			Element1 (SteelAc)	pick soft | pick med | pick hard | dead p | dead f | mute soft | mute hard | hammer | slide | harmonics	pick noise	
			Element2 (Steel)	1–20 | 21–40 | 41–60 | 61–75 | 76–90 | 91–105 | 106–120 | 121–127	1–127	
				soft | med | hard | dead | mute | hammer | slide | harmonics	SE	
8	6	2	SteelGuitarTwin2	1–20 | 21–40 | 41–60 | 61–67 | 68–75 | 76–83 | 84–90 | 91–105 | 106–120 | 121–127	1–127	
			Element1 (SteelAc)	pick soft | pick med | pick hard | dead p | dead f | mute soft | mute hard | hammer | slide | harmonics	pick noise	
			Element2 (Steel)	1–20 | 21–40 | 41–60 | 61–75 | 76–90 | 91–105 | 106–120 | 121–127	1–127	
				soft | med | hard | dead | mute | hammer | slide | harmonics	SE	
8	7	2	12StringPickTwin1	1–20 | 21–40 | 41–60 | 61–67 | 68–75 | 76–83 | 84–90 | 91–105 | 106–120 | 121–127	1–127	
			Element1 (SteelAc)	pick soft | pick med | pick hard | dead p | dead f | mute soft | mute hard | hammer | slide | harmonics	pick noise	
			Element2 (Steel)	1–20 | 21–40 | 41–60 | 61–75 | 76–90 | 91–105 | 106–120 | 121–127	1–127	
				soft | med | hard | dead | mute | hammer | slide | harmonics	SE	
8	8	2	12StringPickTwin2	1–20 | 21–40 | 41–60 | 61–67 | 68–75 | 76–83 | 84–90 | 91–105 | 106–120 | 121–127	1–127	
			Element1 (SteelAc)	pick soft | pick med | pick hard | dead p | dead f | mute soft | mute hard | hammer | slide | harmonics	pick noise	
			Element2 (Steel)	1–20 | 21–40 | 41–60 | 61–75 | 76–90 | 91–105 | 106–120 | 121–127	1–127	
				soft | med | hard | dead | mute | hammer | slide | harmonics	SE	
8	1	57	PopHorns1	1–20 | 21–40 | 41–60 | 61–80 | 81–90 | 91–100 | 101–110 | 111–120 | 121–127		
				p | mp | mf | attack | scoop | shake | fall mf | fall f | doit		
8	2	57	PopHorns2	1–20 | 21–40 | 41–60 | 61–70 | 71–80 | 81–90 | 91–100 | 101–110 | 111–120 | 121–127		
				p | mp | mf | sus ff | legato p | legato mp | legato mf | shake | fall | doit		

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)								above C6	above C8
8	4	13	Mandolin	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	
				soft	med	hard	dead	mute	hammer	slide up	harmonics	strum noise	
8	0	14	UkleleThumbDown	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	
			Note 60–95	S1–3 soft	S1–3 soft/med	S1–3 med	S1–3 dead	S1–3 mute	S1–3 hammer		S1–3 harmonics	strum noise	
			Note 0–71	1–20	21–40	41–60	61–75	76–90	91–105	slide up	121–127	1–127	
				S4 soft	S4 soft/med	S4 med	S4 dead	S4 mute	S4 hammer		S4 harmonics	strum noise	
8	11	2	SteelAcousticFinger	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	
				finger soft/med	finger med	finger hard	dead	mute	hammer	slide up	harmonics	strum noise	
8	12	2	SteelAcThumPick	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	
			Note 52–95	finger soft/med	finger med	finger hard	finger dead	finger mute	finger hammer		finger harmonics	strum noise	
			Note 0–51	1–20	21–40	41–60	61–75	76–90	91–105	slide up	121–127	1–127	
				thmb pick soft/med	thmb pick med	thmb pick hard	thmb pick dead	thmb pick mute	thmb pick hammer		thmb harmonics	strum noise	
8	4	18	ActiveBassFingHarm	1–60			61–80	81–120			121–127	1–127	
				open soft			open hard	dead			harmonics	SE	
8	5	18	ActiveBassFingSlap	1–60			61–80	81–120			121–127	1–127	
				open soft			open hard	dead			slap	SE	
8	3	19	ActiveBassPick	1–20	21–40	41–60	61–80	81–120			121–127	1–127	
				open soft	open hard	mute soft	mute hard	dead			harmonics	SE	
8	4	19	ActiveBassPickOpen	1–60			61–80	81–120			121–127	1–127	
				open soft			open hard	dead			harmonics	SE	
8	5	19	ActiveBassPickMute	1–60			61–80	81–120			121–127	1–127	
				mute soft			mute hard	dead			harmonics	SE	
8	3	18	ActiveBassFingHmrOn	1–20	21–40	41–80		81–90	91–105	106–120	121–127	1–127	
				open soft	open hard	finger mute		dead	open hammer on	mute hammer on	harmonics	SE	
8	2	19	ActiveBassPickHmrOn	1–20	21–40	41–60	61–80	81–90	91–105	106–120	121–127	1–127	
				pick soft	pick hard	pick mute soft	pick mute hard	dead	open hammer on	mute hammer on	harmonics	SE	
8	0	21	ActiveBassSlap	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	
				thumb -> B2 -> pop med	thumb -> C#1 -> pop med	thumb -> C#1 -> pop hard	thumb dead	pop dead	thumb hammer on -> B2 -> pop hammer on	thumb hammer on -> C#1 -> pop hammer on	harmonics	SE	
8	10	2	D-FolkGuitar	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	
				soft	med	hard	dead	mute	hammer	slide up	harmonics	strum noise	

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)									above C6	above C8
8	13	2	D&HardFolkTwin1	1–20	21–40	41–60	61–75		76–90		91–105	106–120	121–127	1–127	
			Element1 (DFolk)	soft	med	hard	dead		mute		hammer	slide up	harmonics	strum noise	
			Element2 (HardFolk)	1–20	21–40	41–60	61–67	68–75	76–83	84–90	91–105	106–120	121–127	1–127	
				soft	med	hard	dead p	dead f	mute soft	mute hard	hammer	slide	harmonics	noise	
8	14	2	D&WarmFolkTwin1	1–20	21–40	41–60	61–75		76–90		91–105	106–120	121–127	1–127	
			Element1 (DFolk)	soft	med	hard	dead		mute		hammer	slide up	harmonics	strum noise	
			Element2 (WarmFolk)	1–20	21–40	41–60	61–67	68–75	76–83	84–90	91–105	106–120	121–127	1–127	
				soft	med	hard	dead p	dead f	mute soft	mute hard	hammer	slide	harmonics	noise	
8	15	2	D&HardFolkTwin2	1–20	21–40	41–60	61–75		76–90		91–105	106–120	121–127	1–127	
			Element1 (DFolk)	soft	med	hard	dead		mute		hammer	slide up	harmonics	strum noise	
			Element2 (HardFolk)	1–20	21–40	41–60	61–67	68–75	76–83	84–90	91–105	106–120	121–127	1–127	
				soft	med	hard	dead p	dead f	mute soft	mute hard	hammer	slide	harmonics	noise	
8	16	2	D&WarmFolkTwin2	1–20	21–40	41–60	61–75		76–90		91–105	106–120	121–127	1–127	
			Element1 (DFolk)	soft	med	hard	dead		mute		hammer	slide up	harmonics	strum noise	
			Element2 (WarmFolk)	1–20	21–40	41–60	61–67	68–75	76–83	84–90	91–105	106–120	121–127	1–127	
				soft	med	hard	dead p	dead f	mute soft	mute hard	hammer	slide	harmonics	noise	
8	3	49	KinoSmall	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
				p	mf	f	legato		spiccato mf		spiccato f	tremolo	glissando down		
8	4	49	KinoSmallComp	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
				p	mf	f	legato		spiccato mf		spiccato f	tremolo	glissando down		
8	5	49	KinoSmallCompOctCb	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
			Note 36–95	p	mf	f	legato		spiccato mf		spiccato f	tremolo	glissando down		
			Note 0–35	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
				octave shifted Cb p	octave shifted Cb mf	octave shifted Cb f	octave shifted Cb legato		oct shifted Cb spiccato mf		oct shifted Cb spiccato f	oct shifted Cb tremolo	glissando down		
8	2	50	KinoLarge	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
				p	mf	f	legato		spiccato mf		spiccato f	tremolo	glissando down		
8	3	50	KinoLargeComp	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
				p	mf	f	legato		spiccato mf		spiccato f	tremolo	glissando down		
8	4	50	KinoLargeOctCb	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
			Note 36–95	p	mf	f	legato		spiccato mf		spiccato f	tremolo	glissando down		
			Note 0–35	1–20	21–40	41–60	61–80		81–95		96–110	111–120	121–127		
				octave shifted Cb p	octave shifted Cb mf	octave shifted Cb f	octave shifted Cb legato		oct shifted Cb spiccato mf		oct shifted Cb spiccato f	oct shifted Cb tremolo	glissando down		

MSB	LSB	PC# (1–128)	Voice Name	Velocity Switch Points (under B5)								above C6	above C8	
8	5	50	KinoLargeAmbiOctCb	1–20	21–40	41–60	61–80	81–95	96–110	111–120	121–127			
			Note 36–95	p	mf	f	legato	spiccato mf	spiccato f	tremolo	glissando down			
			Note 0–35	1–20	21–40	41–60	61–80	81–95	96–110	111–120	121–127			
				octave shifted Cb p	octave shifted Cb mf	octave shifted Cb f	octave shifted Cb legato	oct shifted Cb spiccato mf	oct shifted Cb spiccato f	oct shifted Cb tremolo	glissando down			
8	6	49	KinoSmallAmbi	1–20	21–40	41–60	61–80	81–95	96–110	111–120	121–127			
				p	mf	f	legato	spiccato mf	spiccato f	tremolo	glissando down			
8	6	50	KinoLargeAmbi	1–20	21–40	41–60	61–80	81–95	96–110	111–120	121–127			
				p	mf	f	legato	spiccato mf	spiccato f	tremolo	glissando down			
8	10	4	60sVintage	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	1–20	21–127
				open soft	open med	open hard	dead	mute	hammer	slide	pick harmonics	strum noise	SE	fret noise
8	11	4	60sVintageSlap	1–20	21–40	41–60	61–75	76–90	91–105	106–120	121–127	1–127	1–20	21–127
				open soft	open med	slap	dead	mute	hammer	slide	pick harmonics	strum noise	SE	fret noise

S.Art2! Voice Articulation List / Liste der Artikulationen für S.Art2!-Voices / Liste relative à la sonorité Super Articulation S.Art2! / Elenco articolazioni voci S.Art2! / S.Art2! Voice Articulation-lijst / Lista brzmień S.Art2!

No.	Category	SubCategory	Voice Name	MSB	LSB	PC# (1–128)	Key On			Key Off			Hi-Velocity
							ART.1	ART.2	ART.3	ART.1	ART.2	ART.3	
1	Accordion	-	Harmonica	8	64	105	Bend M	Grace	Bend F	Bend F	Bend M	Bend F	-
2			BluesHarmonica	8	65	105	Bend M	Grace	Bend F	Bend F	Bend M	Bend F	-
3	Strings	-	JazzViolin	8	64	49	Bend F	Grace	Pizzicato	Bend F	Bend F	-	-
4			CelticViolin	8	65	49	Grace	Bend F	Pizzicato	Bend F	Bend F	-	-
5			ClassicalCello	8	64	51	Grace	Tremolo	Pizzicato	Bend F	-	-	-
6			PopCello	8	65	51	Bend F	Staccato	Pizzicato	Bend F	-	-	-
7	Brass	-	Flugelhorn	8	64	63	Bend M	Gliss	Tremolo	Bend F	Gliss	-	-
8			Trumpet	8	66	66	Bend M	Gliss	Tremolo	Bend F	Gliss	-	-
9			SoftTrumpet	8	64	66	Bend S	Gliss	Bend F	Bend F	Gliss	Bend F	-
10			MuteTrumpet	8	64	65	Bend F	Gliss	Grace	Bend F	Gliss	Bend F	-
11			Trombone	8	65	74	Bend M	Gliss	Bend F	Bend F	Gliss	Bend F	Shake
12			BigBandTrumpet	8	67	66	Bend F	Gliss	Grace	Bend F	Gliss	Bend F	Shake
13			ClassicTrumpet	8	65	66	Bend S	Gliss	Bend F	Bend F	Gliss	Bend F	-
14	Woodwind	-	BalladSopranoSax	8	65	85	Grace	Bend M	Bend F	Bend F	Bend M	Gliss	-
15			PopSopranoSax	8	64	85	Bend M	Gliss	Grace	Bend F	Gliss	Bend M	Growl
16			AltoSax	8	65	84	Bend M	Gliss	Bend F	Bend F	Gliss	Bend S	-
17			FunkAltoSax	8	64	84	Bend M	Gliss	Growl	Bend F	Gliss	-	Growl
18			BigBandAltoSax	8	66	84	Bend M	Gliss	Bend F	Bend F	Gliss	Bend S	-
19			TenorSax	8	66	81	Bend F	Bend M	Gliss	Bend F	Gliss	Bend S	Growl
20			SmoothTenorSax	8	65	81	Bend M	Gliss	Bend F	Bend F	Gliss	Bend F	-
21			BreathyTenorSax	8	64	81	Bend S	Gliss	Bend F	Bend F	Gliss	Gliss	-
22			BigBandTenorSax	8	66	83	Bend M	Gliss	Bend F	Bend F	Gliss	Bend S	-
23			BaritoneSax	8	65	82	Bend M	Gliss	Bend F	Bend F	Gliss	Bend S	-
24			FunkBaritoneSax	8	64	82	Bend F	Bend M	Growl	Bend F	Gliss	-	Growl
25			BigBandBaritone	8	66	82	Bend M	Gliss	Bend F	Bend F	Gliss	Bend S	-
26			Clarinet	8	65	93	Bend S	Gliss	Grace	Bend F	Gliss	Gliss	-
27			BalladClarinet	8	64	93	Bend S	Gliss	Grace	Bend F	Gliss	Bend F	-
28			RomanceClarinet	8	66	93	Bend S	Gliss	Grace	Bend F	Gliss	Gliss	-
29			ClassicalFlute	8	64	75	Grace	Gliss	Flutter	Bend F	Gliss	-	-
30			JazzFlute	8	65	75	Grace	Gliss	Flutter	Bend F	Gliss	-	Flutter
31			ClassicalOboe	8	65	69	Grace	Trill	Staccato	Gliss	-	-	-
32			PopOboe	8	64	69	Grace	Gliss	Staccato	Gliss	Gliss	-	-
33			ClassicalBassoon	8	65	71	Grace	Trill	Staccato	Gliss	-	-	-
34			PopBassoon	8	64	71	Grace	Gliss	Staccato	Gliss	Gliss	-	-
35			IrishPipesAir	8	64	109	Bend S	Grace	-	Bend F	Bend F	-	-
36			IrishPipesDance	8	65	109	Bend S	Grace	-	Bend F	Bend F	-	-
37	EnsemblePart	Brass	Trumpet1	9	66	66	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	-
38			Trumpet2	9	67	66	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	-
39			Trumpet1Shake	9	82	66	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	Shake
40			Trumpet2Shake	9	83	66	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	Shake
41			ClassicTrumpet	9	65	66	Bend F	Gliss	Bend S	Bend F	Gliss	Bend F	-
42			SoftTrumpet	9	64	66	Bend F	Gliss	Bend S	Bend F	Gliss	Bend F	-
43			MuteTrumpet	9	64	65	Bend F	Gliss	Grace	Bend F	Gliss	Bend F	-
44			Flugelhorn	9	64	63	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	-
45			Trombone	9	65	74	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	-
46			TromboneShake	9	81	74	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	Shake
47		Strings	JazzViolin	9	64	49	Bend F	Grace	Pizzicato	Bend F	Bend F	-	-
48			CelticViolin	9	65	49	Grace	Bend F	Pizzicato	Bend F	Bend F	-	-
49			ClassicalCello	9	64	51	Grace	Tremolo	Pizzicato	Bend F	-	-	-
50			PopCello	9	65	51	Bend F	Staccato	Pizzicato	Bend F	-	-	-
51		Saxophone	SopranoSax	9	64	85	Bend F	Gliss	Bend M	Bend F	Gliss	Bend M	-
52			SopranoSaxGrowl	9	80	85	Bend F	Gliss	Bend M	Bend F	Gliss	Bend M	Growl
53			AltoSax	9	65	84	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
54			AltoSaxGrowl	9	81	84	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	Growl
55			TenorSax	9	66	81	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
56			TenorSaxGrowl	9	82	81	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	Growl
57			TenorSaxShake	9	84	81	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	Shake
58			BaritoneSax	9	65	82	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
59			BaritoneSaxGrowl	9	81	82	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	Growl
60			BigBandAltoSax	9	66	84	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
61			BigBandTenorSax	9	66	83	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
62			BigBandBaritone	9	66	82	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
63			FunkAltoSax	9	64	84	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
64			FunkBaritoneSax	9	64	82	Bend F	Gliss	Bend M	Bend F	Gliss	Bend S	-
65			BalladSopranoSax	9	65	85	Grace	Bend M	Bend F	Bend F	Bend M	Gliss	-
66			SmoothTenorSax	9	65	81	Bend F	Gliss	Bend M	Bend F	Gliss	Bend F	-
67		Woodwind	ClassicalFlute	9	64	75	Grace	Gliss	-	Bend F	Gliss	-	-
68			JazzFlute	9	65	75	Grace	Gliss	-	Bend F	Gliss	-	-
69			ClassicalOboe	9	65	69	Grace	Gliss	-	Gliss	Gliss	-	-
70			PopOboe	9	64	69	Grace	Gliss	-	Gliss	Gliss	-	-
71			Clarinet	9	65	93	Grace	Gliss	Bend S	Bend F	Gliss	Gliss	-
72			ClassicalBassoon	9	65	71	Grace	Gliss	-	Gliss	Gliss	-	-

Bend F: Bend Fast, **Bend M:** Bend Middle, **Bend S:** Bend Slow, **-:** No Assign

No.	Category	SubCategory	Voice Name	MSB	LSB	PC# (1–128)	Key On			Key Off			Hi-Velocity
							ART.1	ART.2	ART.3	ART.1	ART.2	ART.3	
73	EnsemblePart	Woodwind	PopBassoon	9	64	71	Grace	Gliss	-	Gliss	Gliss	-	-
74			IrishPipesAir	9	64	109	Bend S	Grace	-	Bend F	Bend F	-	-
75		Others	Harmonica	9	64	105	Bend F	Grace	Bend M	Bend F	Bend M	Bend F	-

Bend F: Bend Fast, **Bend M:** Bend Middle, **Bend S:** Bend Slow, **-:** No Assign

Drum/SFX Kit List / Drum/SFX-Kit-Liste / Liste des kits de batterie/SFX / Elenco dei kit di batteria/SFX / Drum/SFX Kit-lijst / Lista zestawów perkusyjnych/efektów

MSB (0–127)			127				127				127				127			
LSB (0–127)			0				0				0				0			
PC# (1–128)			1				2				5				9			
MIDI		Keyboard Note	StandardKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	StandardKit2	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	HitKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	RoomKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0	Surdo Mute	3			Surdo Mute	3			Surdo Mute	3			Surdo Mute	3		
14	D-1	D0	Surdo Open	3			Surdo Open	3			Surdo Open	3			Surdo Open	3		
15	D#-1	D#0	Hi Q				Hi Q				Hi Q				Hi Q			
16	E-1	E0	Whip Slap				Whip Slap				Whip Slap				Whip Slap			
17	F-1	F0	Scratch H	4			Scratch H	4			Scratch H	4			Scratch H	4		
18	F#-1	F#0	Scratch L	4			Scratch L	4			Scratch L	4			Scratch L	4		
19	G-1	G0	Finger Snap				Finger Snap				Finger Snap				Finger Snap			
20	G#-1	G#0	Click Noise				Click Noise				Click Noise				Click Noise			
21	A-1	A0	Metronome Click				Metronome Click				Metronome Click				Metronome Click			
22	A#-1	A#0	Metronome Bell				Metronome Bell				Metronome Bell				Metronome Bell			
23	B-1	B0	Seq Click L				Seq Click L				Seq Click L				Seq Click L			
24	C0	C1	Seq Click H				Seq Click H				Seq Click H				Seq Click H			
25	C#0	C#1	Brush Tap				Brush Tap				Brush Tap				Brush Tap			
26	D0	D1	Brush Swirl		●		Brush Swirl		●		Brush Swirl		●		Brush Swirl		●	
27	D#0	D#1	Brush Slap				Brush Slap				Brush Slap				Brush Slap			
28	E0	E1	Brush Tap Swirl		●		Brush Tap Swirl		●		Brush Tap Swirl		●		Brush Tap Swirl		●	
29	F0	F1	Snare Roll		●		Snare Roll		●		Snare Roll		●		Snare Roll		●	
30	F#0	F#1	Castanet				Castanet				Castanet				Castanet			
31	G0	G1	Snare Soft				Snare Soft 2				Snare Electro				Snare Soft			
32	G#0	G#1	Sticks				Sticks				Sticks				Sticks			
33	A0	A1	Kick Soft				Kick Soft				Kick Tight L				Kick Soft			
34	A#0	A#1	Open Rim Shot				Open Rim Shot H Short				Snare Pitched				Open Rim Shot			
35	B0	B1	Kick Tight				Kick Tight				Kick Wet				Kick Tight			
36	C1	C2	Kick				Kick Short				Kick Tight H				Kick			
37	C#1	C#2	Side Stick				Side Stick Light				Stick Ambient				Side Stick			
38	D1	D2	Snare				Snare Short				Snare Ambient				Snare Snappy			
39	D#1	D#2	Hand Clap				Hand Clap				Hand Clap				Hand Clap			
40	E1	E2	Snare Tight				Snare Tight H				Snare Tight 2				Snare Tight Snappy			
41	F1	F2	Floor Tom L				Floor Tom L				Hybrid Tom 1				Tom Room 1			
42	F#1	F#2	Hi-Hat Closed	1			Hi-Hat Closed	1			Hi-Hat Closed 2	1			Hi-Hat Closed	1		
43	G1	G2	Floor Tom H				Floor Tom H				Hybrid Tom 2				Tom Room 2			
44	G#1	G#2	Hi-Hat Pedal	1			Hi-Hat Pedal	1			Hi-Hat Pedal 2	1			Hi-Hat Pedal	1		
45	A1	A2	Low Tom				Low Tom				Hybrid Tom 3				Tom Room 3			
46	A#1	A#2	Hi-Hat Open	1			Hi-Hat Open	1			Hi-Hat Open 2	1			Hi-Hat Open	1		
47	B1	B2	Mid Tom L				Mid Tom L				Hybrid Tom 4				Tom Room 4			
48	C2	C3	Mid Tom H				Mid Tom H				Hybrid Tom 5				Tom Room 5			
49	C#2	C#3	Crash Cymbal 1				Crash Cymbal 1				Crash Cymbal 1				Crash Cymbal 1			
50	D2	D3	High Tom				High Tom				Hybrid Tom 6				Tom Room 6			
51	D#2	D#3	Ride Cymbal 1				Ride Cymbal 1				Ride Cymbal 1				Ride Cymbal 1			
52	E2	E3	Chinese Cymbal				Chinese Cymbal				Chinese Cymbal				Chinese Cymbal			
53	F2	F3	Ride Cymbal Cup				Ride Cymbal Cup				Ride Cymbal Cup				Ride Cymbal Cup			
54	F#2	F#3	Tambourine				Tambourine				Tambourine Light				Tambourine			
55	G2	G3	Splash Cymbal				Splash Cymbal				Splash Cymbal				Splash Cymbal			
56	G#2	G#3	Cowbell				Cowbell				Cowbell				Cowbell			
57	A2	A3	Crash Cymbal 2				Crash Cymbal 2				Crash Cymbal 2				Crash Cymbal 2			
58	A#2	A#3	Vibraslap				Vibraslap				Vibraslap				Vibraslap			
59	B2	B3	Ride Cymbal 2				Ride Cymbal 2				Ride Cymbal 2				Ride Cymbal 2			
60	C3	C4	Bongo H				Bongo H				Bongo H				Bongo H			
61	C#3	C#4	Bongo L				Bongo L				Bongo L				Bongo L			
62	D3	D4	Conga H Mute				Conga H Mute				Conga H Mute				Conga H Mute			
63	D#3	D#4	Conga H Open				Conga H Open				Conga H Open				Conga H Open			
64	E3	E4	Conga L				Conga L				Conga L				Conga L			
65	F3	F4	Timbale H				Timbale H				Timbale H				Timbale H			
66	F#3	F#4	Timbale L				Timbale L				Timbale L				Timbale L			
67	G3	G4	Agogo H				Agogo H				Agogo H				Agogo H			
68	G#3	G#4	Agogo L				Agogo L				Agogo L				Agogo L			
69	A3	A4	Cabasa				Cabasa				Cabasa				Cabasa			
70	A#3	A#4	Maracas				Maracas				Maracas				Maracas			
71	B3	B4	Samba Whistle H		●		Samba Whistle H		●		Samba Whistle H		●		Samba Whistle H		●	
72	C4	C5	Samba Whistle L		●		Samba Whistle L		●		Samba Whistle L		●		Samba Whistle L		●	
73	C#4	C#5	Guiro Short				Guiro Short				Guiro Short				Guiro Short			
74	D4	D5	Guiro Long		●		Guiro Long		●		Guiro Long		●		Guiro Long		●	
75	D#4	D#5	Claves				Claves				Claves				Claves			
76	E4	E5	Wood Block H				Wood Block H				Wood Block H				Wood Block H			
77	F4	F5	Wood Block L				Wood Block L				Wood Block L				Wood Block L			
78	F#4	F#5	Cuica Mute				Cuica Mute				Cuica Mute				Cuica Mute			
79	G4	G5	Cuica Open				Cuica Open				Cuica Open				Cuica Open			
80	G#4	G#5	Triangle Mute	2			Triangle Mute	2			Triangle Mute	2			Triangle Mute	2		
81	A4	A5	Triangle Open	2			Triangle Open	2			Triangle Open	2			Triangle Open	2		
82	A#4	A#5	Shaker				Shaker				Shaker				Shaker			
83	B4	B5	Jingle Bells				Jingle Bells				Jingle Bells				Jingle Bells			
84	C5	C6	Bell Tree				Bell Tree				Bell Tree				Bell Tree			
85	C#5	C#6																
86	D5	D6																
87	D#5	D#6																
88	E5	E6																
89	F5	F6																
90	F#5	F#6																
91	G5	G6																

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus "32." For example, the sound of an instrument numbered "96" will be stopped by playing any instrument numbered "64."

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

*3 Revo!: Keys marked "●" sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

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

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Same as StandardKit No Sound

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

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MSB (0–127)			127				127				127				127			
LSB (0–127)			0				0				0				0			
PC# (1–128)			57				58				59				60			
MIDI		Keyboard	HipHopKit	Alternate	Key	Revo!	BreakKit	Alternate	Key	Revo!	AnalogT8Kit	Alternate	Key	Revo!	AnalogT9Kit	Alternate	Key	Revo!
Note#	Note	Note		Group (*1)	Off (*2)	(*3)		Group (*1)	Off (*2)	(*3)		Group (*1)	Off (*2)	(*3)		Group (*1)	Off (*2)	(*3)
13	C#-1	C#0	Surdo Mute	5			Surdo Mute	3			Surdo Mute	3			Surdo Mute	3		
14	D-1	D0	Surdo Open	5			Surdo Open	3			Surdo Open	3			Surdo Open	3		
15	D#-1	D#0	Hi Q				Hi Q				Hi Q				Hi Q			
16	E-1	E0	Whip Slap				Whip Slap				Whip Slap				Whip Slap			
17	F-1	F0	Scratch H	6			Scratch H	4			Scratch H	4			Scratch H	4		
18	F#-1	F#0	Scratch L	6			Scratch L	4			Scratch L	4			Scratch L	4		
19	G-1	G0	Hi-Hat Closed T8 2	4			Finger Snap				Snare Hammer				Snare Drum&Bass 1			
20	G#-1	G#0	Tom T8 3				Snare Break 8				Kick Zap Hard				Kick Break 2			
21	A-1	A0	Hi-Hat Open T8 2	4			Snare Break 9				Snare Garg L				Snare Distortion			
22	A#-1	A#0	Tom T8 6				Hi-Hat Closed Break 1		●		Kick Tek Power				Kick Tek Power			
23	B-1	B0	Crash T8				Hi-Hat Closed Break 2		●		Kick Slimy				Kick Distortion RM			
24	C0	C1	Triangle Mute	1			Kick Break Deep				Kick T8 4				Kick T9 2			
25	C#0	C#1	Triangle Open	1			Snare Hip				Snare Analog CR				Snare Analog CR			
26	D0	D1	Wind Chime				Snare Lo-Fi				Snare T8 7				Snare T9 5			
27	D#0	D#1	Tambourine Light 2				Snare Clappy				Snare Clap Analog				Clap Analog Sm			
28	E0	E1	Tambourine Light 1				Snare LdwH Mono				Snare T8 6				Snare T9 Gate 1			
29	F0	F1	Kick HipHop 9				Snare Rock Roll		●		Tom T8 5				Snare Rock Roll		●	
30	F#0	F#1	Hi-Hat Closed Tek	3			Snare Gate 1				Snare T8 5				Snare T9 3			
31	G0	G1	Kick Gate				Snare Mid				Kick T8 3				Snare T9 4			
32	G#0	G#1	Hi-Hat Open Lo-Fi	3			Snare Break Rim				Snare T8 4				Snare T9 Gate 2			
33	A0	A1	Kick Gran Casa Open				Kick Break Heavy				Kick T8 2				Kick T9 4			
34	A#0	A#1	Hi-Hat Reverse Drum&Bass				Snare Hip Rim 4				Snare T8 3				Snare T9 6			
35	B0	B1	Kick HipHop 1				Kick Break 2				T8 Kick Bass				Kick T9 1			
36	C1	C2	Kick Analog CR				Kick Break 1				Kick T8 1				Kick T9 3			
37	C#1	C#2	Snare Analog Sm Rim				Snare Hip Rim 1				Snare T8 Rim				Snare T9 Rim			
38	D1	D2	Snare HipHop 1				Snare Break 3				Snare T8 2				Snare T9 1			
39	D#1	D#2	Snare Clappy				Snare Break 1				Clap T9				Clap T9			
40	E1	E2	Snare HipHop 2				Snare Break 2				Snare T8 1				Snare T9 2			
41	F1	F2	Floor Tom L				Tom Break 1				Tom T8 1				Tom T9 1			
42	F#1	F#2	Hi-Hat Closed HipHop	2			Hi-Hat Closed Rock Soft	1			Hi-Hat Closed T8	1			Hi-Hat Closed T9	1		
43	G1	G2	Low Tom				Tom Break 2				Tom T8 2				Tom T9 2			
44	G#1	G#2	Hi-Hat Pedal HipHop	2			Hi-Hat Pedal Rock	1			Hi-Hat Pedal T8	1			Hi-Hat Pedal T9	1		
45	A1	A2	Mid Tom L				Tom Break 3				Tom T8 3				Tom T9 3			
46	A#1	A#2	Hi-Hat Open HipHop	2			Hi-Hat Half Open Rock	1			Hi-Hat Open T8	1			Hi-Hat Open T9	1		
47	B1	B2	High Tom				Tom Break 4				Tom T8 4				Tom T9 4			
48	C2	C3	Ride Cymbal 3				Tom Break 5				Tom T8 6				Tom T9 5			
49	C#2	C#3	Crash Cymbal 3				Crash Cymbal 1				Crash Cymbal T8				Crash Cymbal T9			
50	D2	D3	Shaker 2				Tom Break 6				Tom T8 7				Tom T9 6			
51	D#2	D#3	Scratch Bass Drum Forward				Ride Cymbal 3				Ride Cymbal T9				Ride Cymbal T9			
52	E2	E3	Scratch Bass Drum Reverse				China Cymbal 2				China Cymbal 2				China Cymbal 2			
53	F2	F3	Kick HipHop 2				Ride Cymbal Cup 2				Ride Cymbal Cup 2				Ride Cymbal Cup 2			
54	F#2	F#3	Snare HipHop Rim 2				Tambourine 1 Hit				Tambourine RX5				Tambourine RX5			
55	G2	G3	HipHop Clap 2				Splash Cymbal 2				Splash Cymbal				Splash Cymbal 2			
56	G#2	G#3	HipHop Snap 1				Cowbell 1				Cowbell T8				Cowbell 1			
57	A2	A3	Snare HipHop 3				Crash Cymbal 2				Crash Cymbal 4				Crash Cymbal 4			
58	A#2	A#3	Electric Clap 2				Cowbell RX11				Vibraslap				Cowbell T8			
59	B2	B3	Kick Hip Deep				Ride Cymbal 2				Ride Cymbal 3				Ride Cymbal 3			
60	C3	C4	Kick HipHop 3				Bongo H				Conga T8 5				Conga T8 5			
61	C#3	C#4	Snare HipHop Rim 3				Bongo L				Conga T8 4				Conga T8 4			
62	D3	D4	Snare HipHop 5				Conga H Tip				Conga T8 3				Conga Tip			
63	D#3	D#4	Electric Clap 1				Conga H Open Slap				Conga T8 2				Conga Open Slap			
64	E3	E4	Handbell H				Conga H Open				Conga T8 1				Conga Open			
65	F3	F4	Kick HipHop 4				Bongo 2 H				Timbale H				Timbale H			
66	F#3	F#4	HipHop Clap 3				Bongo 2 L				Timbale L				Timbale L			
67	G3	G4	HipHop Snap 2				Conga Open				Glass H				Analog Click			
68	G#3	G#4	Snare HipHop Rim 5				Agogo L				Glass L				Conga T8 1			
69	A3	A4	HipHop Flex 1				Cabasa				Cabasa				Cabasa			
70	A#3	A#4	HipHop Flex 2				Maracas Slur				Maracas T8				Maracas Slur 2			
71	B3	B4	Shaker 2				Timbale H				Fx Gun 2		●		Fx Gun 2		●	
72	C4	C5	Kick HipHop 5				Timbale L				Fx Gun 1		●		Fx Gun 1		●	
73	C#4	C#5	Snare HipHop Rim 4				Scratch H 3		●		Analog Shaker H		●		Scratch H 3		●	
74	D4	D5	Snare HipHop 6				Scratch Down		●		Analog Shaker L		●		Scratch Down		●	
75	D#4	D#5	Snare HipHop 11				Claves				Claves T8				Hi Q 3			
76	E4	E5	Kick HipHop 10				Wood Block H				Hi Q 1				Hi Q 1			
77	F4	F5	Snare HipHop 7				Wood Block L				Hi Q 2				Hi Q 2			
78	F#4	F#5	HipHop Clap 5				Scratch H 2				Scratch H 2				Scratch H 2			
79	G4	G5	Conga H Tip				Scratch L 2				Scratch L 2				Scratch L 2			
80	G#4	G#5	Conga H Heel				Triangle Mute	2			Triangle Mute	2			Triangle Mute	2		
81	A4	A5	Conga H Open				Triangle Open	2			Triangle Open	2			Triangle Open	2		
82	A#4	A#5	Conga L Open 1				Kick Break 3				Analog Shaker				Analog Shaker			
83	B4	B5	Conga L Open 2				Kick Break 4				Sleigh Bells				Jingle Bells			
84	C5	C6	Kick HipHop 8				Kick Break 5		●		Wind Chime				Wind Chime			
85	C#5	C#6	HipHop Clap 6				Kick Break 6				Snare Hip 1				Snare Piccolo			
86	D5	D6	Snare T8 1				Kick Break 7				Snare Hip 2				Snare T8 7			
87	D#5	D#6	Snare T8 1 H				Hi-Hat Closed Break 3				Snare Hip Gate				SnareRckRollDist			
88	E5	E6	HipHop Clap 7				Snare Break 4				Snare Break 1				Snare Brush Mute			
89	F5	F6	Tom T8 1				Snare Break 5				Kick Blip				Kick Blip Hard			
90	F#5	F#6	Hi-Hat Closed T8 2				Snare Break 6				Snare Fx 1				Snare Jungle 1			
91	G5	G6	Tom T8 2				Snare Break 7				Kick Fx Hammer				Kick Sustain			

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus “32.” For example, the sound of an instrument numbered “96” will be stopped by playing any instrument numbered “64.”

*2 Key Off: Keys marked “●” stop sounding the instant they are released.

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Same as StandardKit No Sound

MSB (0–127)			127				127				127				127			
LSB (0–127)			0				0				0				0			
PC# (1–128)			61				62				67				68			
MIDI		Keyboard Note	HouseKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	DrumMachine	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	80sPopKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	80sR&B Kit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0	W Kick		●		Surdo Mute	3			Hi-Hat 2 Closed 81P	3			Hi-Hat 3 Closed 80R	3		
14	D-1	D0	Disco Fx		●		Surdo Open	3			Hi-Hat 2 Open 81P	3			Hi-Hat 3 Open 80R	3		
15	D#-1	D#0	White Noise Down 1		●		Hi Q				Hi-Hat 3 Closed 81P	5			Hi-Hat 1 Closed 80R	5		
16	E-1	E0	Pink Noise Down 1		●		Whip Slap				Hi-Hat 3 Open 81P	5			Hi-Hat 1 Open 80R	5		
17	F-1	F0	White Noise Down 2	4	●		Scratch H	4			Hi-Hat 1 Closed 83P	4			Hi-Hat 3 Closed 81R	4		
18	F#-1	F#0	Pink Noise Down 2	4	●		Scratch L	4			Hi-Hat 1 Open 83P	4			Hi-Hat 3 Open 81R	4		
19	G-1	G0	White Noise Up 2		●		Snare Drum&Bass 1				Clap 1 83P				Hi-Hat 1 Closed 81R	6		
20	G#-1	G#0	White Noise Up 1		●		Kick Break 2				Clap 4 81P				Hi-Hat 1 Open 81R	6		
21	A-1	A0	Pink Noise Up		●		Snare Distortion				Metronome 2 83P				Metronome 2 81R			
22	A#-1	A#0	White Noise Up Release		●		Kick Tek Power				Metronome 1 83P				Metronome 1 81R			
23	B-1	B0	Pink Noise Up Release		●		Kick Distortion RM				Side Stick 1 83P				Side Stick 5 81R			
24	C0	C1	Kick T9 4				Bass Drum Hard Long				Kick 2 83P		●		Kick 4 81R		●	
25	C#0	C#1	Snare T8 Rim				Bass Drum Tek Power				Side Stick 3 82P				Side Stick 2 81R			
26	D0	D1	Snare T8 5				Bass Drum Distortion 5				Clap 1 82P				Clap 5 81R			
27	D#0	D#1	Hand Clap				Bass Drum Distortion 3				Clap 2 81P				Clap 2 81R			
28	E0	E1	Snare Garg L				Bass Drum Distortion 1		●		Side Stick 4 81P				Clap 3 80R			
29	F0	F1	Snare Roll		●		Bass Drum Drum&Bass 1				Side Stick 2 81P				Side Stick 5 80R			
30	F#0	F#1	Snare T9 3				Bass Drum Blip				Snare 4 81P				Clap 5 80R			
31	G0	G1	Snare T8 1				Bass Drum Analog Sm				Snare 3 81P				Snare 4 81R			
32	G#0	G#1	Snare T9 5				Kick T8 2				Snare 1 83P				Side Stick 4 80R			
33	A0	A1	Kick T9 1				Kick T8 3				Kick 2 81P				Kick 2 81R			
34	A#0	A#1	Snare T9 Gate				Kick T9 HD 3				Snare 2 83P				Snare 3 81R			
35	B0	B1	Kick T9 2				Kick T9 2				Kick 1 83P				Kick 2 80R			
36	C1	C2	Kick T9 5				Kick T9 4				Kick 1 82P				Kick 1 80R			
37	C#1	C#2	Snare T9 Rim				Snare T9 Rim				Side Stick 1 82P				Side Stick 1 80R			
38	D1	D2	Snare T9 1				Snare T9 1				Snare 2 82P				Snare 3 80R			
39	D#1	D#2	Clap T9				Clap T9				Clap 1 Pitch Up 82P				Clap 2 80R			
40	E1	E2	Snare T9 2				Snare T9 4				Snare 1 82P				Snare 2 80R			
41	F1	F2	Tom T9 1				Tom T9 1				Tom A6 82P				Tom A6 81R			
42	F#1	F#2	Hi-Hat Closed T8	1			Hi-Hat Closed T9	1			Hi-Hat 1 Closed 82P	1	●		Hi-Hat 2 Closed 81R	1	●	
43	G1	G2	Tom T9 2				Tom T9 2				Tom A5 82P				Tom A5 81R			
44	G#1	G#2	Hi-Hat Pedal T9	1			Hi-Hat Pedal T9	1			Hi-Hat 1 Pedal 82P	1			Hi-Hat 2 Pedal 81R	1		
45	A1	A2	Tom T9 3				Tom T9 3				Tom A4 82P				Tom A4 81R			
46	A#1	A#2	Hi-Hat Open T9	1			Hi-Hat Open T9	1			Hi-Hat 1 Open 82P	1			Hi-Hat 2 Open 81R	1		
47	B1	B2	Tom T9 4				Tom T9 4				Tom A3 82P				Tom A3 81R			
48	C2	C3	Tom T9 5				Tom T9 5				Tom A2 82P				Tom A2 81R			
49	C#2	C#3	Crash Cymbal T9				Crash Cymbal T9				Crash Cymbal PD 1				Crash Cymbal 1 81R			
50	D2	D3	Tom T9 6				Conga T8 1				Tom A1 82P				Tom A1 81R			
51	D#2	D#3	Ride Cymbal T9				Ride Cymbal T9				Ride 1 82P				Ride 1 81R			
52	E2	E3	Crash Cymbal 4				Conga T8 2				China Cymbal 82P				China Cymbal 81R			
53	F2	F3	Ride Cymbal Cup 2				Analog Click				Ride Bell 82P				Ride Bell 80R			
54	F#2	F#3	Tambourine Hit				Claves T8 1				Tambourine 82P				Tambourine 80R			
55	G2	G3	Splash Cymbal 2				Maracas T8				Splash Cymbal 82P				Splash Cymbal 80R			
56	G#2	G#3	Cowbell 1				Tambourine Analog CR				Cowbell 82P				Cowbell 80R			
57	A2	A3	Crash Cymbal 2				Analog Shaker				Crash Cymbal PD 2				Crash Cymbal 2 81R			
58	A#2	A#3	Cowbell T8				Cowbell T8				Cowbell T8				Vibraslap			
59	B2	B3	Ride Cymbal 3				Cowbell Analog CR				Ride 2 82P				Crash Cymbal RD 1			
60	C3	C4	Bongo H Open One Finger				Snare T8 1				Bongo H 82P				Bongo H 80R			
61	C#3	C#4	Bongo L Open Three Finger				Snare T8 2				Bongo L 82P				Bongo L 80R			
62	D3	D4	Conga H Tip				Snare T8 3				Conga Mute 82P				Conga Mute 80R			
63	D#3	D#4	Conga H Slap Open				Snare Analog CR				Conga H 82P				Conga H 80R			
64	E3	E4	Conga H Open 2				Snare Jungle 1				Conga L 82P				Conga L 80R			
65	F3	F4	Timbale H				Snare Drum&Bass 2				Timbale H				Timbale H			
66	F#3	F#4	Timbale L				Snare Hip 1				Timbale L				Timbale L			
67	G3	G4	Agogo H				Snare R&B 1				Agogo H 82P				Agogo H 80R			
68	G#3	G#4	Agogo L				Snare R&B 2				Agogo L 82P				Agogo L 80R			
69	A3	A4	Cabasa				Snare Hip 1				Cabasa 82P				Cabasa 80R			
70	A#3	A#4	Maracas Slur 2				Snare Wood				Tom B5 83P				Tom T8 1			
71	B3	B4	Vox Drum L				Snare Timbre				Tom B4 83P				Tom T8 2			
72	C4	C5	Vox Drum H				Hi-Hat Closed T8 1	5			Tom B3 83P				Tom T8 3			
73	C#4	C#5	Guiro Short				Hi-Hat Open T8 1	5			Tom B2 83P				Tom T8 4			
74	D4	D5	Guiro Long		●		Hi-Hat Closed T8 2	6			Tom B1 83P				Tom T8 6			
75	D#4	D#5	Claves				Hi-Hat Open T8 2	6			Claves 83P				Claves T8			
76	E4	E5	Wood Block H				Hi-Hat Pedal Acoustic	7			Tom A6 81P				Tom A6 80R			
77	F4	F5	Wood Block L				Hi-Hat Closed Acoustic	7			Tom A5 81P				Tom A5 80R			
78	F#4	F#5	Cuica H				Hi-Hat Open Acoustic	7			Tom A4 81P				Tom A4 80R			
79	G4	G5	Cuica L				Hi-Hat Closed Lo-Fi	2			Tom A3 81P				Tom A3 80R			
80	G#4	G#5	Triangle Mute	2			Hi-Hat Open Lo-Fi	2			Tom A2 81P	2			Tom A2 80R	2		
81	A4	A5	Triangle Open	2			Hi-Hat Closed Syn	8			Tom A1 81P	2			Tom A1 80R	2		
82	A#4	A#5	Analog Shaker				Hi-Hat Open Syn	8			Cabasa 81P				Cabasa 81R			
83	B4	B5	Jingle Bells				Analog Shaker 2				Jingle Bells							
84	C5	C6	Wind Chime				Tambourine RX5 2				Wind Chime							
85	C#5	C#6	Snare Break Roll				Tambourine 1 Hit				Tom B6 80P							
86	D5	D6	Noise Burst				Electric Cowbell				Tom B5 80P							
87	D#5	D#6	Vox Bell				Conga T8 3				Tom B4 80P							
88	E5	E6	Snare R&B 1				Electric Triangle				Tom B3 80P							
89	F5	F6	Vox Alk				Claves T8 2				Tom B2 80P							
90	F#5	F#6	Udu High				Analog Shaker 3				Tom B1 80P							
91	G5	G6	Filter Kick				Electric Clap 1											

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Same as StandardKit No Sound

MSB (0–127)			127				127				127				127			
LSB (0–127)			0				0				0				0			
PC# (1–128)			69				70				71				72			
MIDI		Keyboard Note	DubstepKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	EDM Kit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	ElectroKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	TrapKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0	Kick 4 DS				Kick 3 EDM				Kick 7 EK				Kick 5 TP		●	
14	D-1	D0	Kick 5 DS				Kick 4 EDM				Kick 8 EK				Kick 6 TP		●	
15	D#-1	D#0	Digital DS		●		Glitch 4 EDM		●		SFX 13 EK		●		White Noise Down 1		●	
16	E-1	E0	Pink Noise Down 1		●		Snare 12 EDM				SFX 14 EK		●		Pink Noise Down 1		●	
17	F-1	F0	White Noise Down 2		●		Snare 3 EDM				Kick 5 EK				White Noise Down 2		●	
18	F#-1	F#0	Pink Noise Down 2		●		Snare 4 EDM				Kick 6 EK				Pink Noise Down 2		●	
19	G-1	G0	Boomer DS		●		White Noise Up 2		●		SFX 12 EK		●		Finger Snap 1 TP			
20	G#-1	G#0	Synth Scratch DS		●		Glitch 3 EDM		●		SFX 11 EK		●		Finger Snap 2 TP			
21	A-1	A0	Bouncer DS		●		Bump EDM		●		SFX 10 EK		●		SFX 1 TP		●	
22	A#-1	A#0	Tin Cowbell DS				Reverse Shot EDM		●		SFX 9 EK		●		SFX 2 TP		●	
23	B-1	B0	Reverse Flanger Snare DS		●		Glitch 5 EDM		●		SFX 8 EK		●		SFX 3 TP		●	
24	C0	C1	Kick 13 DS				Kick 15 EDM				Kick 2 EK				Kick 11 TP			
25	C#0	C#1	Snare 3 DS				Snare 7 EDM				Snare 2 EK				Snare 4 TP			
26	D0	D1	Clap 4 DS				Snare 14 EDM				Snare 3 EK				Clap 1 TP			
27	D#0	D#1	Snare 4 DS				Snare 5 EDM				Clap 6 EK				Clap 1 83P			
28	E0	E1	Snare 11 DS		●		Snare 15 EDM				Snare 1 EK				Snare 5 TP			
29	F0	F1	Snare 5 DS				Reverse Hit EDM		●		Snare 4 EK		●		Snare 6 TP			
30	F#0	F#1	Snare T9 3				Snare 17 EDM				Snare 10 EK				Snare T9 3			
31	G0	G1	Snare 6 DS				Snare 2 EDM				Snare 5 EK				Snare 3 TP		●	
32	G#0	G#1	Clap 3 DS				Snare 1 EDM				Clap 5 EK				Clap 2 TP			
33	A0	A1	Kick 2 DS		●		Kick 8 EDM				Kick 14 EK				Kick 2 TP		●	
34	A#0	A#1	Clap 2 DS				Snare 16 EDM				Clap 2 EK				Clap 3 TP			
35	B0	B1	Kick 3 DS				Kick 5 EDM				Kick 1 EK				Kick 1 TP		●	
36	C1	C2	Kick 1 DS		●		Kick 16 EDM				Kick 10 EK				Kick 4 TP			
37	C#1	C#2	Rim Shot 1 DS				Thump EDM				Rim Shot 1 EK				Rim Shot 1 TP			
38	D1	D2	Snare 1 DS				Snare 9 EDM				Snare 9 EK				Snare 1 TP			
39	D#1	D#2	Clap 1 DS				Clap 1 EDM				Clap 1 EK				Clap 5 TP			
40	E1	E2	Snare 2 DS				Snare 10 EDM				Snare T9 1				Snare 2 TP			
41	F1	F2	Tom T9 1				Tom B6 8P				Tom 1 EK				Tom 1 TP			
42	F#1	F#2	Hi-Hat Closed 1 DS	1			Hi-Hat Closed EDM	1			Hi-Hat Closed 1 EK	1			Hi-Hat Closed 4 TP	1		
43	G1	G2	Tom T9 2				Tom B5 8P				Tom 2 EK				Tom 2 TP			
44	G#1	G#2	Hi-Hat Pedal 1 DS	1			Hi-Hat Shank EDM	1			Hi-Hat Closed 2 EK	1			Hi-Hat Closed 5 TP	1		
45	A1	A2	Tom T9 3				Tom B4 8P				Tom 3 EK				Tom 3 TP			
46	A#1	A#2	Hi-Hat Open 1 DS	1			Hi-Hat Open EDM	1			Hi-Hat Open 4 EK	1			Hi-Hat Open 1 TP	1		
47	B1	B2	Tom T9 4				Tom B3 8P				Tom 4 EK				Tom 4 TP			
48	C2	C3	Tom T9 5				Tom B2 8P				Tom 5 EK				Tom 5 TP			
49	C#2	C#3	Crash Cymbal T9				Crash Cymbal T9				Crash Cymbal T9				Crash Cymbal T9			
50	D2	D3	Tom T9 6				Tom B1 8P				Tom 6 EK				Tom 6 TP			
51	D#2	D#3	Ride Cymbal T9				Ride Shank EDM				Ride Cymbal T9				Ride Cymbal T9			
52	E2	E3	Crash Cymbal 4				Crash Cymbal 4				Crash Cymbal 4				Crash Cymbal 4			
53	F2	F3	Ride Cymbal Cup 2				Ride Cymbal Cup 2				Ride Cymbal Cup 2				Ride Cymbal Cup 2			
54	F#2	F#3	Tambourine 82P				Tambourine Hit				Tambourine 82P				Tambourine Hit			
55	G2	G3	Splash Cymbal 2				Splash Cymbal 2				Splash Cymbal 2				Splash Cymbal 2			
56	G#2	G#3	Cowbell 82P				Cowbell 1				Cowbell 80R				Cowbell 1 TP			
57	A2	A3	Crash Cymbal 2				Crash Cymbal 2				Crash Cymbal 2				Crash Cymbal 2			
58	A#2	A#3	Cowbell T8				Cowbell T8				Cowbell T8				Cowbell T8			
59	B2	B3	Ride Cymbal 3				Ride Cymbal 3				Ride Cymbal 3				Ride Cymbal 3			
60	C3	C4	Bongo H 82P				Bongo H Open One Finger				Bongo H 80R				Bongo H Open One Finger			
61	C#3	C#4	Bongo L 82P				Bongo L Open Three Finger				Bongo L 80R				Bongo L Open Three Finger			
62	D3	D4	Conga Mute 82P				Conga H Tip				Conga Mute 80R				Conga H Tip			
63	D#3	D#4	Conga H 82P				Conga H Slap Open				Conga H 80R				Conga H Slap Open			
64	E3	E4	Conga L 82P				Conga H Open 2				Conga L 80R				Conga H Open 2			
65	F3	F4	Timbale H				Timbale H				Timbale H				Timbale H			
66	F#3	F#4	Timbale L				Timbale L				Timbale L				Timbale L			
67	G3	G4	Cowbell Hi Pitch 82P				Agogo H				Agogo H 80R				Agogo H			
68	G#3	G#4	Cowbell Middle Pitch 82P				Agogo L				Agogo L 80R				Agogo L			
69	A3	A4	Cabasa 81P				Cabasa				Cabasa 80R				Cabasa			
70	A#3	A#4	Maracas Slur 2				Maracas Slur 2				Cabasa 81R		●		Maracas Slur 2			
71	B3	B4	Vox Drum L				Vox Drum L				Vox Drum L				Vox Drum L			
72	C4	C5	Vox Drum H				Vox Drum H				Vox Drum H				Vox Drum H			
73	C#4	C#5	Guiro Short	3			Guiro Short				SFX 5 EK				Guiro Short			
74	D4	D5	Guiro Long	3	●		Guiro Long		●		SFX 4 EK		●		Guiro Long		●	
75	D#4	D#5	Claves 83P				Claves		●		SFX 1 EK				Cowbell 2 TP			
76	E4	E5	Wood Block H				Clap 2 EDM				SFX 2 EK				Wood Block H			
77	F4	F5	Wood Block L				Clap 3 EDM				SFX 3 EK				Wood Block L			
78	F#4	F#5	Hi-Hat Closed 4 DS				Hi-Hat Closed 3 EDM	3			Clap 8 EK				Hi-Hat Closed 1 TP			
79	G4	G5	Hi-Hat Closed 5 DS				Hi-Hat Open 2 EDM	3			Clap 4 EK				Hi-Hat Closed 2 TP			
80	G#4	G#5	Triangle Mute	2			Hi-Hat Closed 1 EDM	2			Hi-Hat Open 1 EK		●		Triangle Mute	2		
81	A4	A5	Triangle Open	2			Hi-Hat Closed 2 EDM	2			Hi-Hat Open 2 EK		●		Triangle Open	2		
82	A#4	A#5	Hi-Hat Open 3 DS				Kick 6 EDM				Hi-Hat Open 5 EK		●		Hi-Hat Open 5 TP			
83	B4	B5	Kick 6 DS				Kick 9 EDM				Kick 9 EK				Kick 7 TP		●	
84	C5	C6	Kick 7 DS				Kick 10 EDM				Kick 13 EK				Kick 8 TP		●	
85	C#5	C#6	Kick 8 DS				Kick 11 EDM				Kick 16 EK				Kick 9 TP		●	
86	D5	D6	Kick 10 DS				Fill Tom EDM				Kick 12 EK				Kick 10 TP			
87	D#5	D#6	Snare 7 DS				Fill Snare EDM				Snare 6 EK				Snare 7 TP			
88	E5	E6	Snare 8 DS				Snare 8 EDM				Snare 8 EK				Snare 8 TP			
89	F5	F6	Snare 9 DS				Snare 13 EDM				Snare 11 EK				Snare 9 TP			
90	F#5	F#6	Snare 10 DS		●		Impact Lo EDM				Snare 7 EK				Snare 10 TP			
91	G5	G6	Filter Kick				Impact Hi EDM				Filter Kick				Clap 4 TP			

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Same as StandardKit No Sound

MSB (0–127)			127				127				127				127			
LSB (0–127)			0				0				0				0			
PC# (1–128)			73				87				88				89			
MIDI		Keyboard Note	SchlagerKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	StudioKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	PowerKit1	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	PowerKit2	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0	Loop Element 1a SC				Surdo Mute	3			Surdo Mute	3			Surdo Mute	3		
14	D-1	D0	Loop Element 1b SC				Surdo Open	3			Surdo Open	3			Surdo Open	3		
15	D#-1	D#0	Loop Element 1c SC				Hi Q				Hi Q				Hi Q			
16	E-1	E0	Loop Element 1d SC				Whip Slap				Whip Slap				Whip Slap			
17	F-1	F0	Loop Element 1e SC				Scratch H	4			Scratch H	4			Scratch H	4		
18	F#-1	F#0	Loop Element 1f SC				Scratch L	4			Scratch L	4			Scratch L	4		
19	G-1	G0	Loop Element 1g SC				Finger Snap				Finger Snap				Finger Snap			
20	G#-1	G#0	Loop Element 1h SC				Click Noise				Click Noise				Click Noise			
21	A-1	A0	Loop Element 1i SC				Metronome Click				Metronome Click				Metronome Click			
22	A#-1	A#0	Loop Element 1f SC				Metronome Bell				Metronome Bell				Metronome Bell			
23	B-1	B0	Noise Up 1 SC		●		Seq Click L				Seq Click L				Seq Click L			
24	C0	C1	Kick TB SC				Seq Click H				Seq Click H				Seq Click H			
25	C#0	C#1	Loop Element 2a SC				Brush Tap				Brush Tap				Brush Tap			
26	D0	D1	Loop Element 2b SC				Brush Swirl		●		Brush Swirl		●		Brush Swirl		●	
27	D#0	D#1	Loop Element 2c SC				Brush Slap				Brush Slap				Brush Slap			
28	E0	E1	Loop Element 2d SC				Brush Tap Swirl		●		Brush Tap Swirl		●		Brush Tap Swirl		●	
29	F0	F1	Loop Element 2h SC				Snare Roll		●		Snare Roll		●		Snare Roll		●	
30	F#0	F#1	Loop Element 2i SC				Castanet				Castanet				Castanet			
31	G0	G1	Snare 1 SC				Snare Studio 2				Snare Soft Power 1				Snare Soft Power 2			
32	G#0	G#1	Snare 1 83P				Sticks				Sticks				Sticks			
33	A0	A1	Kick 2 81P				Kick Ambience H				Kick Ambient+				Kick Ambient+			
34	A#0	A#1	Snare 4 SC				Open Rim Shot				Open Rim Power 1				Open Rim Power 2			
35	B0	B1	Kick 2 SC				Kick Ambience L				Kick Power Open				Kick Power Open			
36	C1	C2	Kick 1 SC				Kick Studio				Kick Power Mute				Kick Power Mute			
37	C#1	C#2	Side Stick Power				Side Stick				Side Stick Power				Side Stick Power			
38	D1	D2	Snare 2 SC				Snare Studio M				Snare Power 1				Snare Power 2			
39	D#1	D#2	Snare 3 SC				Hand Clap				Hand Clap Power				Hand Clap Power			
40	E1	E2	Snare 6 SC				Snare Studio L				Snare Rough				Snare Loose			
41	F1	F2	Tom 1 SC				Floor Tom L				Tom Power 1				Tom Power 1			
42	F#1	F#2	Hi-Hat Closed 1 SC	1			Hi-Hat Closed	1			Hi-Hat Closed Power	1			Hi-Hat Closed Power+Edge	1		
43	G1	G2	Tom 2 SC				Floor Tom H				Tom Power 2				Tom Power 2			
44	G#1	G#2	Hi-Hat Closed 2 SC	1			Hi-Hat Pedal	1			Hi-Hat Pedal Power	1			Hi-Hat Pedal Power	1		
45	A1	A2	Tom 3 SC				Low Tom				Tom Power 3				Tom Power 3			
46	A#1	A#2	Hi-Hat Open 1 SC	1			Hi-Hat Open	1			Hi-Hat Open Power	1			Hi-Hat Open Power	1		
47	B1	B2	Tom 4 SC				Mid Tom L				Tom Power 4				Tom Power 4			
48	C2	C3	Tom 5 SC				Mid Tom H				Tom Power 5				Tom Power 5			
49	C#2	C#3	Crash Cymbal 1 SC				Crash Cymbal 1				Crash Cymbal Acoustic 1				Crash Cymbal Acoustic 1			
50	D2	D3	Tom 6 Hi SC				High Tom				Tom Power 6				Tom Power 6			
51	D#2	D#3	Ride Cymbal Acoustic 1				Ride Cymbal 1				Ride Cymbal Acoustic 1				Ride Cymbal Acoustic 1			
52	E2	E3	Impact 6 SC				Chinese Cymbal				China Cymbal Acoustic				China Cymbal Acoustic			
53	F2	F3	Crash Impact SC				Ride Cymbal Cup				Ride Cymbal Cup Acoustic				Ride Cymbal Cup Acoustic			
54	F#2	F#3	Tambourine				Tambourine				Tambourine				Tambourine			
55	G2	G3	Crash Cymbal 2 SC				Splash Cymbal				Splash Cymbal Acoustic				Splash Cymbal Acoustic			
56	G#2	G#3	Cowbell 1				Cowbell				Cowbell				Cowbell			
57	A2	A3	Crash Cymbal 3 SC				Crash Cymbal 2				Crash Cymbal Acoustic 2				Crash Cymbal Acoustic 2			
58	A#2	A#3	Snare 5 SC				Vibraslap				Vibraslap				Vibraslap			
59	B2	B3	Snare 7 SC				Ride Cymbal 2				Ride Cymbal Acoustic 2				Ride Cymbal Acoustic 2			
60	C3	C4	Snare 8 SC				Bongo H				Bongo H				Bongo H			
61	C#3	C#4	Snare 9 SC				Bongo L				Bongo L				Bongo L			
62	D3	D4	Snare 10 SC				Conga H Mute				Conga H Mute				Conga H Mute			
63	D#3	D#4	Clap 7 SC				Conga H Open				Conga H Open				Conga H Open			
64	E3	E4	Clap 1 SC				Conga L				Conga L				Conga L			
65	F3	F4	Clap 2 SC				Timbale H				Timbale H				Timbale H			
66	F#3	F#4	Clap 3 SFX SC				Timbale L				Timbale L				Timbale L			
67	G3	G4	Clap 6 SC				Agogo H				Agogo H				Agogo H			
68	G#3	G#4	Clap 5 SFX SC				Agogo L				Agogo L				Agogo L			
69	A3	A4	Shaker 4 SC				Cabasa				Cabasa				Cabasa			
70	A#3	A#4	Shaker 3 SC				Maracas				Maracas				Maracas			
71	B3	B4	Clap 8 SC				Samba Whistle H		●		Samba Whistle H		●		Samba Whistle H		●	
72	C4	C5	Echo Shot 1 SC				Samba Whistle L		●		Samba Whistle L		●		Samba Whistle L		●	
73	C#4	C#5	Echo Shot 2 SC				Guiro Short				Guiro Short				Guiro Short			
74	D4	D5	Echo Shot 3 SC				Guiro Long		●		Guiro Long		●		Guiro Long		●	
75	D#4	D#5	Echo Shot 4 SC				Claves				Claves				Claves			
76	E4	E5	Hi-Hat Closed 3 SC				Wood Block H				Wood Block H				Wood Block H			
77	F4	F5	Hi-Hat Closed 4 SC				Wood Block L				Wood Block L				Wood Block L			
78	F#4	F#5	Hi-Hat Closed 5 SC				Cuica Mute				Cuica Mute				Cuica Mute			
79	G4	G5	Hi-Hat Open 2 SC				Cuica Open				Cuica Open				Cuica Open			
80	G#4	G#5	Shaker 1 SC	2			Triangle Mute	2			Triangle Mute	2			Triangle Mute	2		
81	A4	A5	Shaker 2 SC	2			Triangle Open	2			Triangle Open	2			Triangle Open	2		
82	A#4	A#5	Shaker 6 SC				Shaker				Shaker				Shaker			
83	B4	B5	Shaker 5 SC				Jingle Bells				Jingle Bells				Jingle Bells			
84	C5	C6	Reverse 1 SC		●		Bell Tree				Wind Chime				Wind Chime			
85	C#5	C#6	Reverse 3 SC		●													
86	D5	D6	Reverse Snare 1 SC		●													
87	D#5	D#6	Long Snare SC															
88	E5	E6	LpDr Kick SC															
89	F5	F6	LpDr Hi-Hat 1 SC															
90	F#5	F#6	LpDr Snare SC															
91	G5	G6	LpDr Hi-Hat 2 SC															

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*3 Revo!: Keys marked "●" sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

MSB (0–127)			127				127				127				127			
LSB (0–127)			0				0				0				8			
PC# (1–128)			90				91				92				18			
MIDI		Keyboard Note	AcousticKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	RockKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	RealDrumKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	RockDrumKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0	Surdo Mute	3			Surdo Mute	3			Surdo Mute	3			Hi-Hat Tip 00 RD	64		●
14	D-1	D0	Surdo Open	3			Surdo Open	3			Surdo Open	3			Hi-Hat Edge 00 RD	64		●
15	D#-1	D#0	Hi Q				Hi Q				Hi Q				Hi-Hat Tip 10 RD	64		●
16	E-1	E0	Whip Slap				Whip Slap				Whip Slap				Hi-Hat Edge 10 RD	64		●
17	F-1	F0	Scratch H	4			Scratch H	4			Scratch H	4			Hi-Hat Edge 25 RD	96		●
18	F#-1	F#0	Scratch L	4			Scratch L	4			Scratch L	4			Hi-Hat Edge 50 RD	96		●
19	G-1	G0	Finger Snap				Finger Snap				Finger Snap				Hi-Hat Edge 75 RD	96		●
20	G#-1	G#0	Click Noise				Click Noise				Click Noise				Hi-Hat Edge 99 RD	96		●
21	A-1	A0	Metronome Click				Metronome Click				Metronome Click				Hi-Hat Pedal Closed RD	64		●
22	A#-1	A#0	Metronome Bell				Metronome Bell				Metronome Bell				Hi-Hat Pedal Splash	96		
23	B-1	B0	Seq Click L				Seq Click L				Seq Click L				Seq Click L			
24	C0	C1	Seq Click H				Seq Click H				Seq Click H				Seq Click H			
25	C#0	C#1	Brush Tap				Brush Tap				Brush Tap				Snare Brush Mute Snappy Off Edge Pressed JB			
26	D0	D1	Brush Swirl		●		Brush Swirl		●		Brush Tap Swirl		●		Snare 2 no-Rim RD			●
27	D#0	D#1	Brush Slap				Brush Slap				Brush Slap				Snare 4 no-Rim RD			●
28	E0	E1	Brush Tap Swirl		●		Brush Tap Swirl		●		Brush Tap Swirl		●		Snare 3 no-Rim RD			●
29	F0	F1	Snare Roll Acoustic		●		Snare Roll Rock		●		Snare Roll Rock		●		Snare Roll RD		●	
30	F#0	F#1	Castanet				Castanet				Castanet				Snare 2 RD			●
31	G0	G1	Snare Soft Acoustic				Snare Soft Rock				Snare Tight				Snare 4 RD			●
32	G#0	G#1	Sticks				Sticks				Sticks				Stick Count VO			●
33	A0	A1	Kick Soft Acoustic				Kick Soft Rock				Kick Genuine				Kick 4 RD			
34	A#0	A#1	Rim Acoustic				Rim Rock				Rim Real				Snare 1 Open Rim RD			●
35	B0	B1	Kick Mute Acoustic				Kick Rock Heavy				Kick Real 1				Kick 2 RD			
36	C1	C2	Kick Open Acoustic				Kick Rock				Kick Real 2				Kick 1 RD			
37	C#1	C#2	Stick Acoustic				Stick Rock				Stick Real				Snare 1 Side-Stick RD			●
38	D1	D2	Snare Acoustic				Snare Rock				Snare Real 1				Snare 1 RD			●
39	D#1	D#2	Hand Clap Power				Hand Clap Power				Clap Power				Clap Power			
40	E1	E2	Snare Rough Acoustic				Snare Dry Rock				Snare Real 2				Snare 3 RD			●
41	F1	F2	Tom Acoustic 1				Tom Rock 1				Tom Real 1				Tom RD 1			
42	F#1	F#2	Hi-Hat Closed Acoustic	1			Hi-Hat Closed Rock	1			Hi-Hat Closed Real	1			Hi-Hat Edge 00 RD	1		●
43	G1	G2	Tom Acoustic 2				Tom Rock 2				Tom Real 2				Tom RD 2			
44	G#1	G#2	Hi-Hat Pedal Acoustic	1			Hi-Hat Pedal Rock	1			Hi-Hat Pedal Real	1			Hi-Hat Pedal Closed RD	1		●
45	A1	A2	Tom Acoustic 3				Tom Rock 3				Tom Real 3				Tom RD 3			
46	A#1	A#2	Hi-Hat Open Acoustic	1			Hi-Hat Open Rock	1			Hi-Hat Open Real	1			Hi-Hat Edge 75 RD	1		●
47	B1	B2	Tom Acoustic 4				Tom Rock 4				Tom Real 4				Tom RD 4			
48	C2	C3	Tom Acoustic 5				Tom Rock 5				Tom Real 5				Tom RD 5			
49	C#2	C#3	Crash Cymbal Acoustic 1				Crash Cymbal Acoustic 1				Crash Cymbal Real 1				Crash Cymbal RD 1			
50	D2	D3	Tom Acoustic 6				Tom Rock 6				Tom Real 6				Tom RD 6			
51	D#2	D#3	Ride Cymbal Acoustic 1				Ride Cymbal Acoustic 1				Ride Cymbal Real 1				Ride Cymbal Tip RD			●
52	E2	E3	China Cymbal Acoustic				China Cymbal Acoustic				China Cymbal Real				China Cymbal RD			
53	F2	F3	Ride Cymbal Cup Acoustic				Ride Cymbal Cup Acoustic				Ride Cymbal Cup Real				Ride Cymbal Cup RD			●
54	F#2	F#3	Tambourine				Tambourine				Tambourine				Tambourine			
55	G2	G3	Splash Cymbal Acoustic				Splash Cymbal Acoustic				Splash Cymbal Real				Splash Cymbal RD			
56	G#2	G#3	Cowbell				Cowbell				Cowbell				Cowbell RD			●
57	A2	A3	Crash Cymbal Acoustic 2				Crash Cymbal Acoustic 2				Crash Cymbal Real 2				Crash Cymbal RD 2			
58	A#2	A#3	Vibraslap				Vibraslap				Vibraslap				Vibraslap			
59	B2	B3	Ride Cymbal Acoustic 2				Ride Cymbal Acoustic 2				Ride Cymbal Real 2				Ride Cymbal Real 2			
60	C3	C4	Bongo H				Bongo H				Bongo H				Bongo H			
61	C#3	C#4	Bongo L				Bongo L				Bongo L				Bongo L			
62	D3	D4	Conga H Mute				Conga H Mute				Conga H Mute				Conga H Mute			
63	D#3	D#4	Conga H Open				Conga H Open				Conga H Open				Conga H Open			
64	E3	E4	Conga L				Conga L				Conga L				Conga L			
65	F3	F4	Timbale H				Timbale H				Timbale H				Timbale H			
66	F#3	F#4	Timbale L				Timbale L				Timbale L				Timbale L			
67	G3	G4	Agogo H				Agogo H				Agogo H				Agogo H			
68	G#3	G#4	Agogo L				Agogo L				Agogo L				Agogo L			
69	A3	A4	Cabasa				Cabasa				Cabasa				Cabasa			
70	A#3	A#4	Maracas				Maracas				Maracas				Maracas		●	
71	B3	B4	Samba Whistle H		●		Samba Whistle H		●		Samba Whistle H		●		Samba Whistle H		●	
72	C4	C5	Samba Whistle L		●		Samba Whistle L		●		Samba Whistle L		●		Samba Whistle L		●	
73	C#4	C#5	Guiro Short				Guiro Short				Guiro Short				Guiro Short			
74	D4	D5	Guiro Long		●		Guiro Long		●		Guiro Long		●		Guiro Long		●	
75	D#4	D#5	Claves				Claves				Claves				Claves			
76	E4	E5	Wood Block H				Wood Block H				Wood Block H				Wood Block H			
77	F4	F5	Wood Block L				Wood Block L				Wood Block L				Wood Block L			
78	F#4	F#5	Cuica Mute				Cuica Mute				Cuica Mute				Cuica Mute			
79	G4	G5	Cuica Open				Cuica Open				Cuica Open				Cuica Open			
80	G#4	G#5	Triangle Mute	2			Triangle Mute	2			Triangle Mute	2			Triangle Mute	2		
81	A4	A5	Triangle Open	2			Triangle Open	2			Triangle Open	2			Triangle Open	2		
82	A#4	A#5	Shaker				Shaker				Shaker				Shaker			
83	B4	B5	Jingle Bells				Jingle Bells				Jingle Bells				Jingle Bells			
84	C5	C6	Wind Chime				Wind Chime				Wind Chime				Wind Chime			
85	C#5	C#6																
86	D5	D6																
87	D#5	D#6																
88	E5	E6																
89	F5	F6																
90	F#5	F#6																
91	G5	G6																

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus "32." For example, the sound of an instrument numbered "96" will be stopped by playing any instrument numbered "64."

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*3 Revo!: Keys marked "●" sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

MSB (0–127)			127				127				127			
LSB (0–127)			8				8				8			
PC# (1–128)			74				75				76			
MIDI		Keyboard Note	PopDrumKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	VintageOpenKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	JazzBrushKitComp	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note													
13	C#-1	C#0	Hi-Hat Tip 00 PD	64		●	Hi-Hat Tip 00 VO	64		●	Surdo Mute	3		
14	D-1	D0	Hi-Hat Edge 00 PD	64		●	Hi-Hat Edge 00 VO	64		●	Surdo Open	3		
15	D#-1	D#0	Hi-Hat Tip 10 PD	64		●	Hi-Hat Tip 10 VO	64		●	Hi Q			
16	E-1	E0	Hi-Hat Edge 10 PD	64		●	Hi-Hat Edge 10 VO	64		●	Whip Slap			
17	F-1	F0	Hi-Hat Edge 25 PD	96		●	Hi-Hat Edge 25 VO	96		●	Scratch H	4		
18	F#-1	F#0	Hi-Hat Edge 50 PD	96		●	Hi-Hat Edge 50 VO	96		●	Scratch L	4		
19	G-1	G0	Hi-Hat Edge 75 PD	96		●	Hi-Hat Edge 75 VO	96		●	Finger Snap			
20	G#-1	G#0	Hi-Hat Edge 99 PD	96		●	Hi-Hat Edge 99 VO	96		●	Click Noise			
21	A-1	A0	Hi-Hat Pedal Closed PD	64		●	Hi-Hat Pedal Closed VO	64		●	Metronome Click			
22	A#-1	A#0	Hi-Hat Pedal Splash	96			Hi-Hat Pedal Splash	96			Metronome Bell			
23	B-1	B0	Seq Click L				Seq Click L				Snare Brush Linear Sweep Short L/R		●	●
24	C0	C1	Seq Click H				Seq Click H				Snare Brush Linear Sweep Long L/R		●	●
25	C#0	C#1	Snare Brush Mute Snappy Off Edge Pressed JB				Tambourine Stick			●	Snare Brush Snappy Off Edge Pressed JB			●
26	D0	D1	Snare 5 no-Rim PD			●	Snare 4 no-Rim VO			●	Snare Brush Swirl Loop 1 JB		●	
27	D#0	D#1	Snare 4 no-Rim PD			●	Snare 3 no-Rim VO			●	Snare Brush Pressed JB			●
28	E0	E1	Snare 2 no-Rim PD			●	Snare 2 no-Rim VO			●	Snare Brush Swirl Loop 2 with Attack Cpt		●	●
29	F0	F1	Snare Roll PD		●		Snare Roll PD		●		Snare Brush Swirl Loop 1 with Attack Cpt		●	●
30	F#0	F#1	Snare 5 PD			●	Snare 3 VO			●	Snare Brush Dynamic Sweep Long - Short Cpt		●	●
31	G0	G1	Snare 4 PD			●	Snare 4 VO			●	Snare Brush Pressed Low Range Cpt			●
32	G#0	G#1	Stick Count VO			●	Stick Count VO			●	Stick Count VO			●
33	A0	A1	Kick 4 PD				Kick 4 VO				Kick 5 VM			
34	A#0	A#1	Snare 2 Open Rim PD			●	Snare 2 Open Rim VO			●	Snare Brush Mute only Shaft Cpt			●
35	B0	B1	Kick 2 PD				Kick 2 VO				Kick 2 JB			
36	C1	C2	Kick 1 PD				Kick 1 VO				Kick 3 JB			
37	C#1	C#2	Snare 1 Side-Stick PD			●	Snare 1 Side-Stick VO			●	Snare 2 Side-Stick JS			●
38	D1	D2	Snare 1 PD			●	Snare 1 VO			●	Snare Brush Mute with Shaft JB			●
39	D#1	D#2	Clap Power				Clap Power				Clap Power			
40	E1	E2	Snare 2 PD			●	Snare 2 VO			●	Snare Brush with Shaft JB			●
41	F1	F2	Tom PD 1				Tom VO 1				Tom JB 1			
42	F#1	F#2	Hi-Hat Edge 00 PD	1		●	Hi-Hat Tip 00 VO	1		●	Hi-Hat Center 00 JB	1		
43	G1	G2	Tom PD 2				Tom VO 2				Tom JB 2			
44	G#1	G#2	Hi-Hat Pedal Closed PD	1		●	Hi-Hat Pedal Closed VO	1		●	Hi-Hat Pedal Closed JB	1		●
45	A1	A2	Tom PD 3				Tom VO 3				Tom JB 3			
46	A#1	A#2	Hi-Hat Edge 75 PD	1		●	Hi-Hat Edge 75 VO	1		●	Hi-Hat Edge 75 JB	1		●
47	B1	B2	Tom PD 4				Tom VO 4				Tom JB 4			
48	C2	C3	Tom PD 5				Tom VO 5				Tom JB 5			
49	C#2	C#3	Crash Cymbal PD 1				Crash Cymbal VO 1				Crash Cymbal JB 1			
50	D2	D3	Tom PD 6				Tom VO 6				Tom JB 6			
51	D#2	D#3	Ride Cymbal Tip PD			●	Ride Cymbal Tip VO			●	Ride Cymbal Tip JB			●
52	E2	E3	China Cymbal PD				China Cymbal PD				China Cymbal Real Brushes			
53	F2	F3	Ride Cymbal Cup PD			●	Ride Cymbal Cup VO			●	Ride Cymbal Cup JB			●
54	F#2	F#3	Tambourine				Tambourine				Tambourine			
55	G2	G3	Splash Cymbal PD				Splash Cymbal PD				Splash Cymbal JB			
56	G#2	G#3	Cowbell 1 JB				Cowbell 1 JB				Cowbell 1 JB			●
57	A2	A3	Crash Cymbal PD 2				Crash Cymbal VO 2				Crash Cymbal JB 2			
58	A#2	A#3	Vibraslap				Vibraslap				Vibraslap			
59	B2	B3	Ride Cymbal Real 2				Ride Cymbal Real 2				Ride Backend JB			●
60	C3	C4	Bongo H				Bongo H				Bongo H			
61	C#3	C#4	Bongo L				Bongo L				Bongo L			
62	D3	D4	Conga H Mute				Conga H Mute				Conga H Mute			
63	D#3	D#4	Conga H Open				Conga H Open				Conga H Open			
64	E3	E4	Conga L				Conga L				Conga L			
65	F3	F4	Timbale H				Timbale H				Timbale H			
66	F#3	F#4	Timbale L				Timbale L				Timbale L			
67	G3	G4	Agogo H				Agogo H				Agogo H			
68	G#3	G#4	Agogo L				Agogo L				Agogo L			
69	A3	A4	Cabasa				Cabasa				Cabasa			
70	A#3	A#4	Maracas		●		Maracas		●		Maracas		●	
71	B3	B4	Samba Whistle H		●		Samba Whistle H		●		Samba Whistle H		●	
72	C4	C5	Samba Whistle L		●		Samba Whistle L		●		Samba Whistle L		●	
73	C#4	C#5	Guiro Short				Guiro Short				Guiro Short			
74	D4	D5	Guiro Long		●		Guiro Long		●		Guiro Long		●	
75	D#4	D#5	Claves				Claves				Claves			
76	E4	E5	Wood Block H				Wood Block H				Wood Block H			
77	F4	F5	Wood Block L				Wood Block L				Wood Block L			
78	F#4	F#5	Cuica Mute				Cuica Mute				Cuica Mute			
79	G4	G5	Cuica Open				Cuica Open				Cuica Open			
80	G#4	G#5	Triangle Mute	2			Triangle Mute	2			Triangle Mute	2		
81	A4	A5	Triangle Open	2			Triangle Open	2			Triangle Open	2		
82	A#4	A#5	Shaker				Shaker				Shaker			
83	B4	B5	Jingle Bells				Jingle Bells				Jingle Bells			
84	C5	C6	Wind Chime				Wind Chime				Wind Chime			
85	C#5	C#6												
86	D5	D6												
87	D#5	D#6												
88	E5	E6												
89	F5	F6												
90	F#5	F#6												
91	G5	G6												

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus "32." For example, the sound of an instrument numbered "96" will be stopped by playing any instrument numbered "64."

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

*3 Revo!: Keys marked "●" sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

MSB (0–127)			127				127				127			
LSB (0–127)			8				8				8			
PC# (1–128)			77				78				79			
MIDI		Keyboard	JazzBrushExpanded	Alternate	Key	Revo!	VintageMutedKit	Alternate	Key	Revo!	JazzStickKit	Alternate	Key	Revo!
Note#	Note	Note		Group (*1)	Off (*2)	(*3)		Group (*1)	Off (*2)	(*3)		Group (*1)	Off (*2)	(*3)
13	C#-1	C#0	Hi-Hat Ctr 00 JB	64			Hi-Hat Tip 00 VM	64		●	Hi-Hat Tip 00 JS	64		●
14	D-1	D0	Hi-Hat Edge 00 JB	64			Hi-Hat Edge 00 VM	64		●	Hi-Hat Edge 00 JS	64		●
15	D#-1	D#0	Hi-Hat Ctr 10 JB	64			Hi-Hat Tip 10 VM	64		●	Hi-Hat Tip 10 JS	64		●
16	E-1	E0	Hi-Hat Edge 10 JB	64			Hi-Hat Edge 10 VM	64		●	Hi-Hat Edge 10 JS	64		●
17	F-1	F0	Hi-Hat Edge 25 JB	96			Hi-Hat Edge 25 VM	96		●	Hi-Hat Edge 25 JS	96		●
18	F#-1	F#0	Hi-Hat Edge 50 JB	96		●	Hi-Hat Edge 50 VM	96		●	Hi-Hat Edge 50 JS	96		●
19	G-1	G0	Hi-Hat Edge 75 JB	96		●	Hi-Hat Edge 75 VM	96		●	Hi-Hat Edge 75 JS	96		●
20	G#-1	G#0	Hi-Hat Edge 99 JB	96		●	Hi-Hat Edge 99 VM	96		●	Hi-Hat Edge 99 JS	96		●
21	A-1	A0	Hi-Hat Pedal Closed JB	64		●	Hi-Hat Pedal Closed VM	64		●	Hi-Hat Pedal Closed JS	64		●
22	A#-1	A#0	Hi-Hat Pedal Splash	96			Hi-Hat Pedal Splash	96			Hi-Hat Pedal Splash	96		
23	B-1	B0	Snare Brush Swirl Loop 1 JB		●		Seq Click L				Seq Click L			
24	C0	C1	Snare Brush Swirl Loop 2 JB		●		Seq Click H				Seq Click H			
25	C#0	C#1	Snare Brush Dynamic Sweep Long JB		●	●	Tambourine Stick			●	Snappy Off Side-Stick JS			●
26	D0	D1	Snare Brush Dynamic Sweep Medium JB		●	●	Snare 4 no-Rim VM			●	Snare 2 Snappy Off no-Rim JS			●
27	D#0	D#1	Snare Brush Dynamic Sweep Short JB		●	●	Snare 3 no-Rim VM			●	Snare 1 no-Rim JS			●
28	E0	E1	Snare Brush Linear Sweep Long L JB		●	●	Snare 2 no-Rim VM			●	Snare 4 no-Rim JS			●
29	F0	F1	Snare Brush Linear Sweep Long R JB		●	●	Snare Roll PD		●		Snare Roll JS		●	
30	F#0	F#1	Snare Brush Linear Sweep Short L JB		●	●	Snare 3 VM			●	Snare 1 JS			●
31	G0	G1	Snare Brush Linear Sweep Short R JB		●	●	Snare 4 VM			●	Snare 4 JS			●
32	G#0	G#1	Stick Count VO			●	Stick Count VM			●	Stick Count VO			●
33	A0	A1	Kick 5 VM				Kick 4 VM				Kick 5 VM			
34	A#0	A#1	Snare Brush Pressed JB			●	Snare 1 Open Rim VM			●	Snare 2 Open Rim JS			●
35	B0	B1	Kick 2 JB				Kick 2 VM				Kick 2 JS			
36	C1	C2	Kick 3 JB				Kick 5 VM				Kick 3 JS			
37	C#1	C#2	Snare 2 Side-Stick JS			●	Snare 1 Side-Stick VM			●	Snare 2 Side-Stick JS			●
38	D1	D2	Snare Brush Mute with Shaft JB			●	Snare 1 VM			●	Snare 2 no-Rim JS			●
39	D#1	D#2	Clap Power				Clap Power				Clap Power			
40	E1	E2	Snare Brush with Shaft JB			●	Snare 2 VM			●	Snare 2 Snappy Off JS			●
41	F1	F2	Tom JB 1				Tom VM 1				Tom JS 1			
42	F#1	F#2	Hi-Hat Center 00 JB	1			Hi-Hat Edge 00 VM	1		●	Hi-Hat Edge 00 JS	1		●
43	G1	G2	Tom JB 2				Tom VM 2				Tom JS 2			
44	G#1	G#2	Hi-Hat Pedal Closed JB	1		●	Hi-Hat Pedal Closed VM	1		●	Hi-Hat Pedal Closed JS	1		●
45	A1	A2	Tom JB 3				Tom VM 3				Tom JS 3			
46	A#1	A#2	Hi-Hat Edge 75 JB	1		●	Hi-Hat Edge 75 VM	1		●	Hi-Hat Edge 99 JS	1		●
47	B1	B2	Tom JB 4				Tom VM 4				Tom JS 4			
48	C2	C3	Tom JB 5				Tom VM 5				Tom JS 5			
49	C#2	C#3	Crash Cymbal JB 1				Crash Cymbal VM 1				Crash Cymbal JS 1			
50	D2	D3	Tom JB 6				Tom VM 6				Tom JS 6			
51	D#2	D#3	Ride Cymbal Tip JB			●	Ride Cymbal Tip VM			●	Ride Cymbal Tip JS			●
52	E2	E3	China Cymbal Real Brushes				China Cymbal PD				China Cymbal PD			
53	F2	F3	Ride Cymbal Cup JB			●	Ride Cymbal Cup VM			●	Ride Cymbal Cup JS			●
54	F#2	F#3	Tambourine				Tambourine				Tambourine			
55	G2	G3	Splash Cymbal JB				Splash Cymbal PD				Splash Cymbal JS			
56	G#2	G#3	Cowbell 1 JB			●	Cowbell 1 JB				Cowbell 2 JB			●
57	A2	A3	Crash Cymbal JB 2				Crash Cymbal VM 2				Crash Cymbal JS 2			
58	A#2	A#3	Cowbell 1 Tip JB				Vibraslap				Vibraslap			
59	B2	B3	Ride Brush Backend JB			●	Ride Cymbal Real 2				Ride Cymbal Real 2			
60	C3	C4	Snare Brush Roll JB		●		Bongo H				Bongo H			
61	C#3	C#4	Snare Brush Snappy Off Pressed JB			●	Bongo L				Bongo L			
62	D3	D4	Snare Brush Snappy Off Edge Pressed JB			●	Conga H Mute				Conga H Mute			
63	D#3	D#4	Snare Brush Snappy Off JB			●	Conga H Open				Conga H Open			
64	E3	E4	Snare Brush Snappy Off Edge JB			●	Conga L				Conga L			
65	F3	F4	Snare Brush Mute Snappy Off Pressed JB			●	Timbale H				Timbale H			
66	F#3	F#4	Snare Brush Mute Snappy Off Edge Pressed JB			●	Timbale L				Timbale L			
67	G3	G4	Snare Brush Mute Snappy Off JB			●	Agogo H				Cowbell 1 JB			●
68	G#3	G#4	Snare Brush Mute Snappy Off Edge JB			●	Agogo L				Cowbell 1 Tip JB			
69	A3	A4	Snare Brush Swish L JB			●	Cabasa				Cabasa			
70	A#3	A#4	Snare Brush Swish R JB			●	Maracas		●		Maracas		●	
71	B3	B4	Kick 4 JB				Samba Whistle H		●		Samba Whistle H		●	
72	C4	C5	Kick 3 JS				Samba Whistle L		●		Samba Whistle L		●	
73	C#4	C#5	Snare 2 Side-Stick JS			●	Guiro Short				Guiro Short			
74	D4	D5	Snare 2 no-Rim JS			●	Guiro Long		●		Guiro Long		●	
75	D#4	D#5	Clap AF			●	Claves				Claves			
76	E4	E5	Snare 2 Snappy Off JS			●	Wood Block H				Wood Block H			
77	F4	F5	Tom JS 1				Wood Block L				Wood Block L			
78	F#4	F#5	Hi-Hat Edge 00 JS	1		●	Cuica Mute				Cuica Mute			
79	G4	G5	Tom JS 2				Cuica Open				Cuica Open			
80	G#4	G#5	Hi-Hat Edge 50 JS	1		●	Triangle Mute	2			Triangle Mute	2		
81	A4	A5	Tom JS 3				Triangle Open	2			Triangle Open	2		
82	A#4	A#5	Hi-Hat Edge 99 JS	1		●	Shaker				Shaker			
83	B4	B5	Tom JS 4				Jingle Bells				Jingle Bells			
84	C5	C6	Tom JS 5				Wind Chime				Wind Chime			
85	C#5	C#6	Crash Cymbal JS 1											
86	D5	D6	Tom JS 6											
87	D#5	D#6	Ride Cymbal Tip JS			●								
88	E5	E6	China Cymbal PD											
89	F5	F6	Ride Cymbal Cup JS			●								
90	F#5	F#6	Shaker											
91	G5	G6	Splash Cymbal JS											

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Same as StandardKit No Sound

MSB (0–127)			126				126				126				126			
LSB (0–127)			0				0				0				0			
PC# (1–128)			1				2				3				4			
MIDI		Keyboard Note	SFX Kit1	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	SFX Kit2	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	NewSFX Kit1	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	NewSFX Kit2	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0																
14	D-1	D0																
15	D#-1	D#0																
16	E-1	E0																
17	F-1	F0																
18	F#-1	F#0																
19	G-1	G0																
20	G#-1	G#0																
21	A-1	A0																
22	A#-1	A#0																
23	B-1	B0																
24	C0	C1																
25	C#0	C#1																
26	D0	D1																
27	D#0	D#1																
28	E0	E1																
29	F0	F1																
30	F#0	F#1																
31	G0	G1																
32	G#0	G#1																
33	A0	A1																
34	A#0	A#1																
35	B0	B1																
36	C1	C2	Cutting Noise 1		●		Phone Call		●		Cutting Noise 1		●		Phone Call 2		●	
37	C#1	C#2	Cutting Noise 2		●		Door Squeak		●		Cutting Noise 2		●		Door Squeak 2		●	
38	D1	D2					Door Slam		●						Door Slam 2		●	
39	D#1	D#2	String Slap		●		Scratch Cut		●		String Slap		●		Scratch Cut		●	
40	E1	E2					Scratch Split		●						Scratch Split		●	
41	F1	F2					Wind Chime		●						Wind Chime		●	
42	F#1	F#2					Telephone Ring		●						Telephone Ring 2		●	
43	G1	G2																
44	G#1	G#2																
45	A1	A2																
46	A#1	A#2																
47	B1	B2																
48	C2	C3																
49	C#2	C#3																
50	D2	D3																
51	D#2	D#3																
52	E2	E3	Flute Key Click		●		Car Engine Ignition		●		Flute Key Click		●		Car Engine Ignition		●	
53	F2	F3					Car Tires Squeal		●						Car Tires Squeal		●	
54	F#2	F#3					Car Passing		●						Car Passing		●	
55	G2	G3					Car Crash		●						Car Crash		●	
56	G#2	G#3					Siren		●						Siren 2		●	
57	A2	A3					Train		●						Train 2		●	
58	A#2	A#3					Jet Plane		●						Jet Plane 2		●	
59	B2	B3					Starship		●						Starship		●	
60	C3	C4					Burst		●						Burst		●	
61	C#3	C#4					Roller Coaster		●						Roller Coaster		●	
62	D3	D4					Submarine		●						Submarine		●	
63	D#3	D#4																
64	E3	E4																
65	F3	F4																
66	F#3	F#4																
67	G3	G4																
68	G#3	G#4	Shower		●		Laugh		●		Shower 2		●		Laugh		●	
69	A3	A4	Thunder		●		Scream		●		Thunder 2		●		Scream 2		●	
70	A#3	A#4	Wind		●		Punch		●		Wind 2		●		Punch 2		●	
71	B3	B4	Stream		●		Heart Beat		●		Stream 2		●		Heart Beat		●	
72	C4	C5	Bubble		●		Foot Steps		●		Bubble 2		●		Foot Steps 2		●	
73	C#4	C#5	Feed		●						Feed		●					
74	D4	D5																
75	D#4	D#5																
76	E4	E5																
77	F4	F5																
78	F#4	F#5																
79	G4	G5																
80	G#4	G#5																
81	A4	A5																
82	A#4	A#5																
83	B4	B5																
84	C5	C6	Dog		●		Machine Gun		●		Dog		●		Machine Gun 2		●	
85	C#5	C#6	Horse		●		Laser Gun		●		Horse		●		Laser Gun		●	
86	D5	D6	Bird Tweet		●		Explosion		●		Bird Tweet		●		Explosion 2		●	
87	D#5	D#6					Firework		●						Firework		●	
88	E5	E6																
89	F5	F6																
90	F#5	F#6	Ghost		●						Ghost		●					
91	G5	G6	Maou		●						Maou		●					

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Same as StandardKit No Sound

MSB (0–127)			126				126				126				126			
LSB (0–127)			0				0				0				0			
PC# (1–128)			9				21				22				36			
MIDI		Keyboard Note	NoisesKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	BassDrumKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	ReverseBD Kit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	ArabicKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note																	
13	C#-1	C#0					BD Electro				Reverse BD Electro							
14	D-1	D0					BD FX Gate				Reverse BD Fx Gate							
15	D#-1	D#0					BD Hammer				Reverse BD Hammer							
16	E-1	E0					BD Analog Power				Reverse BD Analog Power							
17	F-1	F0					BD Analog Distortion 5											
18	F#-1	F#0					BD Analog Distortion 6				Reverse BD Analog Distortion 6							
19	G-1	G0					BD Analog Distortion 4											
20	G#-1	G#0					BD Analog Distortion 3				Reverse BD Analog Distortion 3							
21	A-1	A0					BD Analog Distortion 2				Reverse BD Analog Distortion 2							
22	A#-1	A#0					BD Analog Tight				Reverse BD Analog Tight							
23	B-1	B0					BD Analog 94				Reverse BD Analog 94							
24	C0	C1					BD Analog Blip 2				Reverse BD Analog Blip 2				Nakarazan Dom			
25	C#0	C#1					BD Analog Rubber 2				Reverse BD Analog Rubber 2				Cabasa			
26	D0	D1					BD Analog 93				Reverse BD Analog 93				Nakarazan Edge			
27	D#0	D#1					BD Analog 90				Reverse BD Analog 90				Hager Dom			
28	E0	E1					BD Analog 83				Reverse BD Analog 83				Hager Edge			
29	F0	F1					BD Analog 82				Reverse BD Analog 82				Bongo H			
30	F#0	F#1					BD Analog 92								Bongo L			
31	G0	G1					BD Analog 91				Reverse BD Analog 91				Conga H Mute			
32	G#0	G#1					BD Analog Deep				Reverse BD Analog Deep				Conga H Open			
33	A0	A1					BD Analog Hard 2								Conga L			
34	A#0	A#1					BD Analog Hard 1				Reverse BD Analog Hard 1				Zagrouda H			
35	B0	B1					BD Analog Blip 1				Reverse BD Analog Blip 1				Zagrouda L		●	
36	C1	C2	White Noise		●		BD Analog Rubber 1				Reverse BD Analog Rubber 1				Kick Soft			
37	C#1	C#2	Pink Noise		●		BD Analog Loose				Reverse BD Analog Loose				Side Stick			
38	D1	D2	White Noise Down 1		●		BD Synth 1				Reverse BD Synth 1				Snare Soft			
39	D#1	D#2	Pink Noise Down 1		●		BD Synth 2				Reverse BD Synth 2				Arabic Hand Clap			
40	E1	E2	White Noise Down 2		●		BD Analog Distortion 1				Reverse BD Analog Distortion 1				Snare Drum			
41	F1	F2	Pink Noise Down 2		●		Ripper				Reverse Ripper				Floor Tom L			
42	F#1	F#2	White Noise Up 2		●		BD Analog 70 L								Hi-Hat Closed	1		
43	G1	G2	White Noise Up 1		●		BD Analog 70				Reverse BD Analog 70				Floor Tom H			
44	G#1	G#2	Pink Noise Up		●		BD Analog 80				Reverse BD Analog 81				Hi-Hat Pedal	1		
45	A1	A2	White Noise Up Release		●		BD Analog 80 Long								Low Tom			
46	A#1	A#2	Pink Noise Up Release		●		BD Dry				Reverse BD Dry				Hi-Hat Open	1		
47	B1	B2	White Noise Up LFO		●		BD Dry Hard								Mid Tom L			
48	C2	C3	Pink Noise Up LFO		●		BD Room 1								Mid Tom H			
49	C#2	C#3					BD Soft				Reverse BD Soft				Crash Cymbal 1			
50	D2	D3					BD Room 2				Reverse BD Room 2				High Tom			
51	D#2	D#3					BD Break Lo-fi 2				Reverse BD Break Lo-fi 2				Ride Cymbal 1			
52	E2	E3					BD Break Lo-fi 1				Reverse BD Break Lo-fi 1				Crash Cymbal 2			
53	F2	F3					BD & Hi-Hat Open				Reverse BD & Hi-Hat Open				Duhulla Dom			
54	F#2	F#3					BD Jungle 2								Tambourine			
55	G2	G3					BD Jungle 1								Duhulla Tak			
56	G#2	G#3					BD Jungle 3				Reverse BD Jungle 3				Cowbell			
57	A2	A3					BD D&B 1				Reverse BD D&B 1				Duhulla Sak			
58	A#2	A#3					BD D&B 2				Reverse BD D&B 2				Claves			
59	B2	B3					BD RX5 1				Reverse BD RX5 1				Doff Dom			
60	C3	C4					BD RX5 2				Reverse BD RX5 2				Katem Dom			
61	C#3	C#4					BD Room 3				Reverse BD Room 3				Katem Tak			
62	D3	D4					BD Power Gate				Reverse BD Power Gate				Katem Sak			
63	D#3	D#4					BD R&B 1				Reverse BD R&B 1				Katem Tak			
64	E3	E4					BD R&B 2				Reverse BD R&B 2				Doff Tak			
65	F3	F4					BD Lo-fi				Reverse BD Lo-fi				Tabla Dom			
66	F#3	F#4					BD Hip Deep								Tabla Tak 1			
67	G3	G4					BD Break Deep				Reverse BD Break Deep				Tabla Tik			
68	G#3	G#4					BD Break Heavy				Reverse BD Break Heavy				Tabla Tak 2			
69	A3	A4					BD Break Hard				Reverse BD Break Hard				Tabla Sak			
70	A#3	A#4					Big Drum				Reverse Big Drum				Tabla Roll Edge		●	
71	B3	B4					Taiko Drum				Reverse Taiko Drum				Tabla Flam			
72	C4	C5					Surdo Open				Reverse Surdo Open				Sagat 1			
73	C#4	C#5					Feet 2				Reverse Feet 2				Tabel Dom			
74	D4	D5					BD Industrial				Reverse Tom Industrial				Sagat 3			
75	D#4	D#5					Door Slam				Reverse Door Slam				Tabel Tak			
76	E4	E5					Punch				Reverse Punch				Sagat 2			
77	F4	F5					Heart								Riq Dom			
78	F#4	F#5					Feet 1				Reverse Feet 1				Riq Tak 2			
79	G4	G5					BD Human				Reverse BD Human				Riq Finger 1			
80	G#4	G#5					BD Human Deep				Reverse BD Human Deep				Riq Tak 1			
81	A4	A5					Vox Buh!				Reverse Vox Buh!				Riq Finger 2			
82	A#4	A#5					Vox Muh!				Reverse Vox Muh!				Riq Brass Tremolo		●	
83	B4	B5													Riq Sak			
84	C5	C6													Riq Tik			
85	C#5	C#6																
86	D5	D6																
87	D#5	D#6																
88	E5	E6																
89	F5	F6																
90	F#5	F#6																
91	G5	G6																

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Same as StandardKit No Sound

MSB (0–127)			126				126				126			
LSB (0–127)			0				0				0			
PC# (1–128)			41				44				45			
MIDI		Keyboard Note	CubanKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	PopLatinKit1	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	PopLatinKit2	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note													
13	C#-1	C#0					Cajon Low				Cajon Low			
14	D-1	D0					Cajon Slap				Cajon Slap			
15	D#-1	D#0					Cajon Tip				Cajon Tip			
16	E-1	E0					Claves High				Claves High			
17	F-1	F0					Claves Low				Claves Low			
18	F#-1	F#0					Hand Clap				Hand Clap			
19	G-1	G0												
20	G#-1	G#0					Finger Snap				Finger Snap			
21	A-1	A0					Castanet				Castanet			
22	A#-1	A#0	Conga H Tip				Conga H Tip				Conga H Tip			
23	B-1	B0	Conga H Heel				Conga H Heel				Conga H Heel			
24	C0	C1	Conga H Open				Conga H Open				Conga H Open			
25	C#0	C#1	Conga H Mute				Conga H Mute				Conga H Mute			
26	D0	D1	Conga H Slap Open				Conga H Slap Open				Conga H Slap Open			
27	D#0	D#1	Conga H Slap				Conga H Slap				Conga H Slap			
28	E0	E1	Conga H Slap Mute				Conga H Slap Mute				Conga H Slap Mute			
29	F0	F1	Conga L Tip				Conga L Tip				Conga L Tip			
30	F#0	F#1	Conga L Heel				Conga L Heel				Conga L Heel			
31	G0	G1	Conga L Open				Conga L Open				Conga L Open			
32	G#0	G#1	Conga L Mute				Conga L Mute				Conga L Mute			
33	A0	A1	Conga L Slap Open				Conga L Slap Open				Conga L Slap Open			
34	A#0	A#1	Conga L Slap				Conga L Slap				Conga L Slap			
35	B0	B1	Conga L Slide		●		Conga L Slide		●		Conga L Slide		●	
36	C1	C2	Bongo H Open One Finger				Bongo H Open One Finger				Bongo H Open One Finger			
37	C#1	C#2	Bongo H Open Three Finger				Bongo H Open Three Finger				Bongo H Open Three Finger			
38	D1	D2	Bongo H Rim				Bongo H Rim				Bongo H Rim			
39	D#1	D#2	Bongo H Tip				Bongo H Tip				Bongo H Tip			
40	E1	E2	Bongo H Heel				Bongo H Heel				Bongo H Heel			
41	F1	F2	Bongo H Slap				Bongo H Slap				Bongo H Slap			
42	F#1	F#2	Bongo L Open One Finger				Bongo L Open One Finger				Bongo L Open One Finger			
43	G1	G2	Bongo L Open Three Finger				Bongo L Open Three Finger				Bongo L Open Three Finger			
44	G#1	G#2	Bongo L Rim				Bongo L Rim				Bongo L Rim			
45	A1	A2	Bongo L Tip				Bongo L Tip				Bongo L Tip			
46	A#1	A#2	Bongo L Heel				Bongo L Heel				Bongo L Heel			
47	B1	B2	Bongo L Slap				Bongo L Slap				Bongo L Slap			
48	C2	C3	Timbale L				Timbale L				Timbale L			
49	C#2	C#3												
50	D2	D3												
51	D#2	D#3												
52	E2	E3												
53	F2	F3	Paila L				Paila L				Paila L			
54	F#2	F#3	Timbale H				Timbale H				Timbale H			
55	G2	G3									Hand Clap Mute 1			
56	G#2	G#3									Hand Clap Mute 2			
57	A2	A3									Hand Clap Open 1			
58	A#2	A#3									Hand Clap Open 2			
59	B2	B3	Paila H				Paila H				Paila H			
60	C3	C4	Cowbell Top				Cowbell Top				Cowbell Top			
61	C#3	C#4					Cowbell 1				Cowbell 1			
62	D3	D4					Cowbell 2				Cowbell 2			
63	D#3	D#4					Cowbell 3				Cowbell 3			
64	E3	E4	Guiro Short				Guiro Short				Guiro Short			
65	F3	F4	Guiro Long		●		Guiro Long		●		Guiro Long		●	
66	F#3	F#4					Metal Guiro Short				Metal Guiro Short			
67	G3	G4					Metal Guiro Long		●		Metal Guiro Long		●	
68	G#3	G#4	Tambourine				Tambourine				Tambourine			
69	A3	A4					Tambourim Open				Tambourim Open			
70	A#3	A#4					Tambourim Mute				Tambourim Mute			
71	B3	B4					Tambourim Tip				Tambourim Tip			
72	C4	C5	Maracas				Maracas				Maracas			
73	C#4	C#5	Shaker				Shaker				Shaker			
74	D4	D5	Cabasa				Cabasa				Cabasa			
75	D#4	D#5					Cuica Mute				Cuica Mute			
76	E4	E5					Cuica Open				Cuica Open			
77	F4	F5					Cowbell High 1				Cowbell High 1			
78	F#4	F#5					Cowbell High 2				Cowbell High 2			
79	G4	G5					Shekere				Shekere			
80	G#4	G#5					Shekere Tone				Shekere Tone			
81	A4	A5					Triangle Mute	1			Triangle Mute	1		
82	A#4	A#5					Triangle Open	1			Triangle Open	1		
83	B4	B5												
84	C5	C6					Wind Chime				Wind Chime			
85	C#5	C#6												
86	D5	D6												
87	D#5	D#6												
88	E5	E6												
89	F5	F6												
90	F#5	F#6												
91	G5	G6												

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus “32.” For example, the sound of an instrument numbered “96” will be stopped by playing any instrument numbered “64.”

*2 Key Off: Keys marked “●” stop sounding the instant they are released.

*3 Revo!: Keys marked “●” sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

MSB (0–127)			126				126				126			
LSB (0–127)			0				0				0			
PC# (1–128)			47				50				68			
MIDI		Keyboard Note	PopLatinKit2Comp	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	CymbalKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	TurkishKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note													
13	C#-1	C#0	Cajon Low LC								Asma Davul Left Side			
14	D-1	D0	Cajon Slap LC								Asma Davul Right Side			
15	D#-1	D#0	Cajon Tip LC								Asma Davul Side Body			
16	E-1	E0	Claves High LC								Asma Davul Both Sides			
17	F-1	F0	Claves Low LC								Koltuk Davul Flam			
18	F#-1	F#0	Hand Clap LC								Koltuk Davul Teke			
19	G-1	G0									Koltuk Davul Tek			
20	G#-1	G#0	Finger Snap LC								Koltuk Davul Dum			
21	A-1	A0	Castanet LC								Bendir Teke Flam			
22	A#-1	A#0	Conga H Tip LC								Bendir Teke Dead			
23	B-1	B0	Conga H Heel LC								Bendir Tek Dead			
24	C0	C1	Conga H Open LC								Bendir Teke			
25	C#0	C#1	Conga H Mute LC								Bendir Tek			
26	D0	D1	Conga H Slap Open LC								Bendir Slap	2		
27	D#0	D#1	Conga H Slap LC								Bendir Dum	2		
28	E0	E1	Conga H Slap Mute LC								Zil Right Close	3		
29	F0	F1	Conga L Tip LC								Zil Right Open	3		
30	F#0	F#1	Conga L Heel LC								Zil Left Close	4		
31	G0	G1	Conga L Open LC								Zil Left Open	4		
32	G#0	G#1	Conga L Mute LC								Tef Teke Flam	5		
33	A0	A1	Conga L Slap Open LC								Tef Tek Mute	5		
34	A#0	A#1	Conga L Slap LC								Tef Teke Damped			
35	B0	B1	Conga L Slide LC		●						Tef Tek Mute Medium			
36	C1	C2	Bongo H Open One Finger LC				Kick A				Tef Dum Mute			
37	C#1	C#2	Bongo H Open Three Finger LC				Timbale A				Tef Cymbal	9		
38	D1	D2	Bongo H Rim LC				China Cymbal A				Tef Cymbal Mute	9		
39	D#1	D#2	Bongo H Tip LC				Crash Cymbal A				Tef Tremolo		●	
40	E1	E2	Bongo H Heel LC				Ride Cymbal A				Tef Shake 1			
41	F1	F2	Bongo H Slap LC				Splash Cymbal A				Tef Shake 2			
42	F#1	F#2	Bongo L Open One Finger LC								Tef Tek Flam			
43	G1	G2	Bongo L Open Three Finger LC								Tef Full Open			
44	G#1	G#2	Bongo L Rim LC				Crash Cymbal B1				Tef Teke Open Short			
45	A1	A2	Bongo L Tip LC				Crash Cymbal B2				Tef Tek Open Short			
46	A#1	A#2	Bongo L Heel LC				Ride Cymbal B				Tef Tek Open			
47	B1	B2	Bongo L Slap LC								Tef Dum Open			
48	C2	C3	Timbale L LC								Hollo Finger Dead			
49	C#2	C#3					Crash Cymbal C				Hollo Slap			
50	D2	D3					Ride Cymbal C				Hollo Dum			
51	D#2	D#3					Brush Ride Cymbal C				Kasik	1		
52	E2	E3					Brush Sizzle Cymbal C				Kasik Flam	1		
53	F2	F3	Paila L LC								Bass Darbuka Tek Dead			
54	F#2	F#3	Timbale H LC								Bass Darbuka Tek Flam			
55	G2	G3	Hand Clap Mute 1 LC				Crash Cymbal D1				Bass Darbuka Teke			
56	G#2	G#3	Hand Clap Mute 2 LC				Crash Cymbal D2				Bass Darbuka Teke Other Finger			
57	A2	A3	Hand Clap Open 1 LC				Crash Cymbal D3				Bass Darbuka Teke Index Finger			
58	A#2	A#3	Hand Clap Open 2 LC				Ride Cymbal D				Bass Darbuka Tek			
59	B2	B3	Paila H LC				Splash Cymbal D				Bass Darbuka Slap			
60	C3	C4	Cowbell Top LC								Bass Darbuka Slap Medium	7		
61	C#3	C#4	Cowbell 1 LC								Bass Darbuka Dum	7		
62	D3	D4	Cowbell 2 LC				Crash Cymbal E1				Darbuka Roll Close	6	●	
63	D#3	D#4	Cowbell 3 LC				Crash Cymbal E2				Darbuka Roll Open	6	●	
64	E3	E4	Guiro Short LC				Ride Cymbal E				Darbuka Teke Damped Flam			
65	F3	F4	Guiro Long LC		●		Hi-Hat Half Open E				Darbuka Tek Dead			
66	F#3	F#4	Metal Guiro Short LC								Darbuka Tek Damped			
67	G3	G4	Metal Guiro Long LC		●						Darbuka Teke Open Flam			
68	G#3	G#4	Tambourine LC								Darbuka Teke Open			
69	A3	A4	Tambourim Open LC								Darbuka Teke Other Finger 1			
70	A#3	A#4	Tambourim Mute LC								Darbuka Teke Index Finger 1			
71	B3	B4	Tambourim Tip LC								Darbuka Tek 1			
72	C4	C5	Maracas LC				Crash Cymbal F1				Darbuka Teke Other Finger 2			
73	C#4	C#5	Shaker LC				Brush Crash Cymbal F1				Darbuka Teke Index Finger 2			
74	D4	D5	Cabasa LC				Crash Cymbal F2				Darbuka Tek 2			
75	D#4	D#5	Cuica Mute LC				Jazz Ride Cymbal F1				Darbuka Slap Medium			
76	E4	E5	Cuica Open LC				Crash Cymbal F3				Darbuka Slap	8		
77	F4	F5	Cowbell High 1 LC				Hi-Hat Splash F				Darbuka Dum	8		
78	F#4	F#5	Cowbell High 2 LC				Ride Cymbal F1				Bongo Tek Roll		●	
79	G4	G5	Shekere LC				Crash Cymbal F4				Bongo Flam			
80	G#4	G#5	Shekere Tone LC				Ride Cymbal F2				Bongo Tek Flam			
81	A4	A5	Triangle Mute LC	1			Brush Crash Cymbal F2				Bongo Tek			
82	A#4	A#5	Triangle Open LC	1			Jazz Ride Cymbal F2				Bongo Slap			
83	B4	B5					Crash Cymbal F5				Bongo Flam Hi			
84	C5	C6	Wind Chime LC								Bongo Dum			
85	C#5	C#6												
86	D5	D6												
87	D#5	D#6												
88	E5	E6												
89	F5	F6												
90	F#5	F#6												
91	G5	G6												

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus “32.” For example, the sound of an instrument numbered “96” will be stopped by playing any instrument numbered “64.”

*2 Key Off: Keys marked “●” stop sounding the instant they are released.

*3 Revo!: Keys marked “●” sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

MSB (0–127)			126				126				126			
LSB (0–127)			0				0				0			
PC# (1–128)			107				110				111			
MIDI		Keyboard Note	VocalBeatbox	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	VocalEffectsKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	GospelAdLibs	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note													
13	C#-1	C#0	Kick 3 Fitubom 2 BB											
14	D-1	D0	Kick 5 Throat BB											
15	D#-1	D#0	Kick 4 Throat BB											
16	E-1	E0	Special 18 VScratch 1 BB		●									
17	F-1	F0	Special 18 VScratch 2 BB		●									
18	F#-1	F#0	Special 3 VScratch 2 BB		●									
19	G-1	G0	Special 18 VScratch 3 BB											
20	G#-1	G#0	Kick 3 Fitubom 1 BB	4										
21	A-1	A0	Kick 6 Electro 2 BB	4										
22	A#-1	A#0	Special 14 ZtkPauu 1 BB		●									
23	B-1	B0	Special 14 ZtkPauu 2 BB		●									
24	C0	C1	Kick 7 Throat BB		●									
25	C#0	C#1	Special 20 Breathe 2 BB	3	●									
26	D0	D1	Special 20 Breathe 1 BB	3	●									
27	D#0	D#1	Special 19 Breathe 1 BB	3	●									
28	E0	E1	Special 21 Breathe 1 BB	3	●									
29	F0	F1	Special 11 Vibrato 1 BB		●									
30	F#0	F#1	Snare 4 T-Style BB											
31	G0	G1	Snare 6 ISCH-Style BB											
32	G#0	G#1	Snare Clap 1 BB											
33	A0	A1	Kick 6 Electro 1 BB	4	●									
34	A#0	A#1	Snare 7 TSCH-Style BB											
35	B0	B1	Kick 2 Classic 1 BB	4										
36	C1	C2	Kick 1 Classic 1 BB	4			Male “Ha” 1		●					
37	C#1	C#2	Snare 3 Side Stick 1 BB				Female “Ha” 1		●					
38	D1	D2	Snare 1 Classic 1 BB		●		Male “Ha” 2		●					
39	D#1	D#2	Snare 5 KCH-Style BB		●		Male “Ha” 3		●					
40	E1	E2	Snare 8 KUCH-Style BB		●		Male “Bh” 1		●					
41	F1	F2	Tom 6 Classic 1 BB		●		Female “Bh” 1		●					
42	F#1	F#2	Hi-Hat 1 Z-Style BB	1	●		Male “Kh” 1		●					
43	G1	G2	Tom 5 Classic 1 BB		●		Female “Kh” 1		●					
44	G#1	G#2	Hi-Hat 5 Tch-Style BB	1	●		Male “Ph” 1		●					
45	A1	A2	Tom 4 Classic 1 BB		●		Female “Ph” 1		●					
46	A#1	A#2	Hi-Hat 7 Open 1 BB	1	●		Male “Th” 1		●					
47	B1	B2	Tom 3 Classic 1 BB		●		Female “Th” 1		●					
48	C2	C3	Tom 2 Classic 1 BB		●		Male “Bh” 2		●		C’mon		●	
49	C#2	C#3	Cymbal 1 Crush Hi 1 BB				Female “Bh” 2		●		Hoo!		●	
50	D2	D3	Tom 1 Classic 1 BB		●		Male “Kh” 2		●		Aha!		●	
51	D#2	D#3	Cymbal 1 Crush Hi 2 BB				Female “Kh” 2		●		Oh Yeah		●	
52	E2	E3	Cymbal 4 China 1 BB				Male “Ph” 2		●		Yayayayayah		●	
53	F2	F3	Cymbal 4 China 2 BB				Female “Ph” 2		●		Put Your Hands Together		●	
54	F#2	F#3	Hi-Hat 8 Pedal 2 BB	1	●		Male “Th” 2		●		C’mon Now		●	
55	G2	G3	Cymbal 3 FXCymbal Hi BB				Female “Th” 2		●		Heeey		●	
56	G#2	G#3	Hi-Hat 6 Wood-Style BB				Male “Ha” 4		●		Everybody Now		●	
57	A2	A3	Cymbal 2 Crash Lo 1 BB				Female “Ha” 2		●		Clap Your Hands, Everybody C’mon		●	
58	A#2	A#3	Special 5 Scratch 1 BB		●		Male “Ha” 5		●		With All Your Soul		●	
59	B2	B3	Cymbal 2 Crash Lo 2 BB				Male “Ha” 6		●		Stand Up On Your Feet		●	
60	C3	C4	Tom 6 Rim Click BB				Male “Bh” 3		●		Uhh Yeah		●	
61	C#3	C#4	Tom 5 Rim Click BB				Female “Bh” 3		●		Aaoh		●	
62	D3	D4	Tom 4 Rim Click BB				Male “Kh” 3		●		Come On!		●	
63	D#3	D#4	Tom 3 Rim Click BB				Female “Kh” 3		●		Yeah!		●	
64	E3	E4	Tom 2 Rim Click BB	2			Male “Ph” 3		●		Alright Now!		●	
65	F3	F4	Special 6 Now BB	2	●		Female “Ph” 3		●		One		●	
66	F#3	F#4	Special 6 Get Ready BB		●		Male “Th” 3		●		Two		●	
67	G3	G4	Special 13 Fanfare 1 BB		●		Female “Th” 3		●		Three		●	
68	G#3	G#4	Special 12 Trumpet 1 BB		●		Male “Bh” 4		●		Four		●	
69	A3	A4	Percussion 1 Shaker 1 BB				Female “Bh” 4		●		One!		●	
70	A#3	A#4	Hi-Hat 2 S-Style BB				Male “Kh” 4		●		Two!		●	
71	B3	B4	Special 1 Scratch 1 BB		●		Female “Kh” 4		●		Three!		●	
72	C4	C5	Special 2 Scratch 1 BB		●		Male “Ph” 4		●		Four!		●	
73	C#4	C#5	Hi-Hat 3 NZ-Style BB				Female “Ph” 4		●		Five!		●	
74	D4	D5	Special 4 Scratch 1 BB		●		Male “Th” 4		●		Six!		●	
75	D#4	D#5	Hi-Hat 4 F-Style BB				Female “Th” 4		●		Seven!		●	
76	E4	E5	Special 9 Can 2 BB								Eight!		●	
77	F4	F5	Special 9 Can 1 BB								Clap!		●	
78	F#4	F#5	Tom 5 Electronic BB								Gospel Clap 1		●	
79	G4	G5	Tom 4 Electronic BB								Gospel Clap 2		●	
80	G#4	G#5	Tom 3 Electronic BB											
81	A4	A5	Tom 2 Electronic BB											
82	A#4	A#5	Tom 1 Electronic BB	2										
83	B4	B5	Special 16 VScratch 1 BB	2	●									
84	C5	C6	Special 16 VScratch 2 BB		●									
85	C#5	C#6	Special 17 VScratch 1 BB		●									
86	D5	D6	Special 17 VScratch 2 BB		●									
87	D#5	D#6	Special 15 Peeptkp 1 BB		●									
88	E5	E6	Special 15 Peeptkp 2 BB		●									
89	F5	F6	Special 7 Laughter 1 BB		●									
90	F#5	F#6												
91	G5	G6												

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus “32.” For example, the sound of an instrument numbered “96” will be stopped by playing any instrument numbered “64.”

*2 Key Off: Keys marked “●” stop sounding the instant they are released.

*3 Revo!: Keys marked “●” sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

MSB (0–127)			126				126				126			
LSB (0–127)			8				8				8			
PC# (1–128)			43				120				46			
MIDI		Keyboard Note	AfroCubanKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	BrazilianKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	PopPercKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)
Note#	Note													
13	C#-1	C#0	Djembe Bass AF			●	Djembe Bass AF			●	Djembe Bass AF			●
14	D-1	D0	Djembe Close AF				Djembe Close AF				Djembe Close AF			
15	D#-1	D#0	Djembe Open AF			●	Djembe Open AF			●	Djembe Open AF			●
16	E-1	E0	Djembe Slap AF			●	Djembe Slap AF			●	Djembe Slap AF			●
17	F-1	F0	Cajon Bass AF				Surdo Open BR	1			Cajon Bass PP			
18	F#-1	F#0	Cajon Mid AF				Surdo Mute BR	1			Cajon Mid PP			
19	G-1	G0	Cajon Hi AF				Surdo Stop BR	1			Cajon Hi PP			
20	G#-1	G#0	Conga Lo Open AF	1		●	Conga Lo Open BR	2		●	Conga Lo Open BR	1		●
21	A-1	A0	Conga Lo Close AF	1		●	Conga Lo Close BR	2		●	Conga Lo Close BR	1		●
22	A#-1	A#0	Conga Lo Slap Open AF	1		●	Conga Lo Slap Open BR	2		●	Conga Lo Slap Open BR	1		●
23	B-1	B0	Conga Lo Slap Mute AF	1			Conga Lo Slap Mute BR	2			Conga Lo Slap Mute BR	1		
24	C0	C1	Conga Hi Bass AF	2			Conga Hi Bass BR	3			Conga Hi Bass BR	2		
25	C#0	C#1	Conga Hi Heel AF	2			Conga Hi Heel BR	3			Conga Hi Heel BR	2		
26	D0	D1	Conga Hi Tip AF	2		●	Conga Hi Tip BR	3		●	Conga Hi Tip BR	2		●
27	D#0	D#1	Conga Hi Open AF	2		●	Conga Hi Open BR	3		●	Conga Hi Open BR	2		●
28	E0	E1	Conga Hi Slap Close AF	2			Conga Hi Slap Close BR	3			Conga Hi Slap Close BR	2		
29	F0	F1	Conga Hi Slap Open AF	2		●	Conga Hi Slap Open BR	3		●	Conga Hi Slap Open BR	2		●
30	F#0	F#1	Conga Hi Slap Mute AF	2		●	Conga Hi Slap Mute BR	3		●	Conga Hi Slap Mute BR	2		●
31	G0	G1	Bongo Lo Open 1 / Rim 1 AF			●	Bongo Lo Open 1 / Rim 1 AF			●	Bongo Lo Open 1 / Rim 1 AF			●
32	G#0	G#1	Bongo Lo Open 3 AF			●	Bongo Lo Open 3 AF			●	Bongo Lo Open 3 AF			●
33	A0	A1	Bongo Lo Close 3 AF			●	Bongo Lo Close 3 AF			●	Bongo Lo Close 3 AF			●
34	A#0	A#1	Bongo Lo Slap AF				Bongo Lo Slap AF				Bongo Lo Slap AF			
35	B0	B1	Bongo Hi Heel AF				Bongo Hi Heel AF				Bongo Hi Heel AF			
36	C1	C2	Bongo Hi Tip AF			●	Bongo Hi Tip AF			●	Bongo Hi Tip AF			●
37	C#1	C#2	Bongo Hi Open 1 /Rim 1 AF			●	Bongo Hi Open 1 /Rim 1 AF			●	Bongo Hi Open 1 /Rim 1 AF			●
38	D1	D2	Bongo Hi Open 3 / Rim 3 AF			●	Bongo Hi Open 3 / Rim 3 AF			●	Bongo Hi Open 3 / Rim 3 AF			●
39	D#1	D#2	Bongo Hi Mute1 AF			●	Bongo Hi Mute1 AF			●	Bongo Hi Mute1 AF			●
40	E1	E2	Bongo Hi Slap AF			●	Bongo Hi Slap AF			●	Bongo Hi Slap AF			●
41	F1	F2	Cowbell 3 Mouth AF			●	Agogo 2 Close BR				Cowbell 5 Mouth AF			●
42	F#1	F#2	Cowbell 3 Top1 AF			●	Agogo 2 Bell 2 BR			●	Cowbell 3 Mouth AF			●
43	G1	G2	Cowbell 3 Top2 AF			●	Agogo 2 Bell 1 BR			●	Chabell Open AF			●
44	G#1	G#2	Cowbell 3 Edge AF			●	Agogo 1 Close BR				Cowbell RD			●
45	A1	A2	Cowbell 5 Mouth AF			●	Agogo 1 Bell 2 BR			●	Fibre Clave PP			●
46	A#1	A#2	Cowbell 5 Top1 AF			●	Agogo 1 Bell 1 BR			●	Plastic Wood Block AF			●
47	B1	B2	Cowbell 5 Top2 AF			●	Cabasa L BR				African Clave AF			●
48	C2	C3	Cowbell 5 Edge AF			●	Cabasa R BR				Wood Clave AF			●
49	C#2	C#3	Crash Cymbal AF				Crash Cymbal AF				Crash Cymbal AF			
50	D2	D3	Chabell Mute AF			●	Tamborim 1 Back BR			●	Temp Block 1 PP			●
51	D#2	D#3	Chabell Open AF			●	Tamborim 1 Close BR			●	Temp Block 3 PP			●
52	E2	E3	Chabell Top AF			●	Tamborim 1 Open BR			●	Temp Block 5 PP			●
53	F2	F3	Mambobell Centre AF			●	Tamborim 1 Rim BR			●	Tambourine 1 Shake PP			●
54	F#2	F#3	Mambobell Edge AF			●	Tamborim 2 Up BR			●	Tambourine 1 Hit PP			●
55	G2	G3	Timbale Finger Lo Mute AF	64		●	Tamborim 2 Down BR			●	Tambourine 2 Shake PP			●
56	G#2	G#3	Timbale Finger Lo Open AF	3		●	Pandeiro 2 Heel BR				Tambourine 2 Hit PP			●
57	A2	A3	Timbale Lo Cask Tip / Shank AF			●	Pandeiro 2 Thumb Open / Shank BR			●	Tambourine 3 Hit PP			●
58	A#2	A#3	Timbale Hi Cask Tip / Shank AF			●	Pandeiro 2 Toe Open / Shank BR			●	Palmas L Mute AF			●
59	B2	B3	Timbale Lo Side Stick AF	96		●	Pandeiro 2 Thumb Close BR			●	Palmas R Mute AF			●
60	C3	C4	Timbale Lo Open AF			●	Pandeiro 2 Toe Close BR				Palmas L Open AF			●
61	C#3	C#4	Timbale Lo Rim AF	96		●	Pandeiro 2 Slap BR			●	Palmas R Open AF			●
62	D3	D4	Timbale Hi Open AF			●	Pandeiro 1 Heel BR			●	Claps Lo PP			●
63	D#3	D#4	Timbale Hi Rim AF			●	Pandeiro 1 Thumb Open BR			●	Claps Hi PP			●
64	E3	E4	Plastic Wood Block AF			●	Pandeiro 1 Toe Open BR			●	Cabasa L BR			
65	F3	F4	African Clave AF			●	Pandeiro 1 Thumb Close BR			●	Cabasa R BR			
66	F#3	F#4	Wood Clave AF			●	Pandeiro 1 Toe Close BR				Shaker 1 Up BR			●
67	G3	G4	Maracas 1 Lo AF			●	Pandeiro 1 Slap BR			●	Shaker 1 Down BR			●
68	G#3	G#4	Maracas 1 Hi AF			●	Shaker 1 Up BR			●	Shaker 1 Long BR		●	●
69	A3	A4	Maracas 2 Lo AF			●	Shaker 1 Down BR			●	Shaker 2 Up BR			●
70	A#3	A#4	Maracas 2 Hi AF			●	Shaker 1 Long BR		●	●	Shaker 2 Down BR			●
71	B3	B4	Shekere 2 Tone AF			●	Shaker 2 Up BR			●	Shaker 2 Long BR		●	●
72	C4	C5	Shekere 2 Up AF			●	Shaker 2 Down BR			●	Shaker 3 Up BR			●
73	C#4	C#5	Shekere 2 Down AF			●	Shaker 2 Long BR		●	●	Shaker 3 Down BR			●
74	D4	D5	Shekere 1 Tone AF			●	Shaker 3 Up BR			●	Shaker 3 Long BR		●	●
75	D#4	D#5	Shekere 1 Up AF			●	Shaker 3 Down BR			●	Shaker 4 Up BR			●
76	E4	E5	Shekere 1 Down AF			●	Shaker 3 Long BR		●	●	Shaker 4 Down BR			●
77	F4	F5	Guiro Up Short AF			●	Shaker 4 Up BR			●	Shaker 4 Long BR		●	●
78	F#4	F#5	Guiro Dn Short AF			●	Shaker 4 Down BR			●	Shaker 5 Up PP			●
79	G4	G5	Guiro Up Slow AF		●	●	Shaker 4 Long BR		●	●	Shaker 5 Down PP			●
80	G#4	G#5	Guiro Up Fast AF		●	●	Shekere 1 Tone AF			●	Udu Bass Open PP			●
81	A4	A5	Metal Guiro Up Short AF			●	Shekere 1 Up AF			●	Udu Bass PP			●
82	A#4	A#5	Metal Guiro Down Short AF			●	Shekere 1 Down AF			●	Udu Heel PP			●
83	B4	B5	Metal Guiro Long AF		●	●	Reco-reco Scrape BR		●	●	Udu Tip PP			●
84	C5	C6	Palmas L Mute AF			●	Reco-reco Short BR				Udu Body PP			●
85	C#5	C#6	Palmas C Mute AF			●	Reco-reco Long BR		●	●	Udu Top PP			●
86	D5	D6	Palmas R Mute AF			●	Triangle Open Up BR	4			Triangle Open Up BR	3		
87	D#5	D#6	Palmas L Open AF			●	Triangle Open Down BR	4			Triangle Open Dn BR	3		
88	E5	E6	Palmas C Open AF			●	Triangle Close Up BR	4			Triangle Close Up BR	3		
89	F5	F6	Palmas R Open AF			●	Triangle Close Down BR	4			Triangle Close Dn BR	3		
90	F#5	F#6	Chimes Down AF				Chimes Down AF				Chimes Down AF			
91	G5	G6	Chimes Up AF				Chimes Up AF				Chimes Up AF			

*1 Alternate Group:

1–95: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.

96–127: For these numbers, playing within a specific numbered group will NOT stop other instrument sounds in the same group number. However, the sound of instruments within these numbers are stopped when playing any instrument of a group whose number is that minus "32." For example, the sound of an instrument numbered "96" will be stopped by playing any instrument numbered "64."

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

*3 Revo!: Keys marked "●" sound different each time the same key is played, so that the sound is more natural.

Same as StandardKit No Sound

Category	Style Name
Pop	SkyPop
	KissDancePop
	BoyBandPop
	CinematicPop
	BritishDancePop
	SongwriterBallad
	UnpluggedBallad
	6-8GuitarBallad
	12-8PopBallad
	EpicDivaBallad
	SweetPop
	OrchestralPop
	IrishFolkPop
	PopTeenShuffle
	DivaChartPunk
	SoulfulBallad
	PowerPopBallad
	IrishPopBallad
	EpicEuroBallad
	UnpluggedPop
	DivaPowerPop
	BritPopDiva
	BritPopAnthem
	LoveSong
	90sGuitarPop
	SmoothPopBallad
	16BeatBallad
	PianoBallad
	90s8BeatBallad
	6-8PopBallad
	BritPopSwing
	CrazyPop
	ChartPianoShuffle
	WestCoastPop
	FunkPopRock
	PowerBallad
	BoyBandBallad
	ModernPopBallad
	VocalPopBallad
	Acoustic8BtBallad
	PopRockShuffle
	90sPopShuffle
	90sDisco
	00sBoyBand
	Live8Beat
	PopEvergreen
	ChilloutCafe
	Chillout1
	Chillout2
Rock	80sClassicRock
	HighRoadRock
	70sHardRock
	70sShuffleRock
	70sStraightRock
	IndieRock
	Summer8BeatRock
	80sPowerRock
	80sEdgyRock
	80sRockDiva
	OrchRockBallad1
	OrchRockBallad2
	BigRockBallad
	90sRockBallad
	6-8Rock
	CanadianRock
	US RockShuffle
	80sRockBeat
	80sSynthRock
	80sRockAnthem
	PowerRock

Category	Style Name
Rock	StadiumRock
	BritRockPop
	StandardRock
	AcousticRock
RetroPop	80sMonsterHit
	80sTeenDisco
	80sPopDiva
	80sEuroPop
	80sSynthPop
	80sClassic6-8
	80sFunkIcon
	80sRetroDisco
	80sBritishPop
	80sSynthDuo
	GrooveShack
	BritishSunnyPop
	SunnyReggae
	SheriffReggae
	HappyReggae
	Cool8Beat
	Wonder8Beat
	Uptempo8Beat
	Swedish8BeatPop
	SwedishPopShuffle
	80sSynthBallad
	80sAnalogBallad
	80sPopBallad
	80sDivaBallad
	80sChilloutSynth
	80sBoyBand
	80sGuitarPop
	80s8Beat
	80sPianoBallad
	80sShuffle
	70sDisco1
	70sDisco2
	70sDiscoFunk
	70sGlamPiano
	70s8BeatBallad
	PopLegend
	PhillyDisco
	RoseDisco
	FunkDisco
	SingItDisco
	LatinPartyPop
	SynthPop
	6-8ClassicSynth
	DiscoChocolate
	PopWaltz
	70sFrenchHit
	80sDiscoBeat
Oldies	60sBlueEyedSoul
	60sShadowedPop
	60sVintageRumba
	60sGuitarRock
	60sBritishSoul
	60sOrganBallad
	60sRisingPop
	60sUnderground
	60sPianoPop
	60sChartSwing
	Rock&Roll
	50sRock&Roll
	60sRock&Roll
	Rock&RollJive
	Rock&RollShuffle
	OldiesRock&Roll
	Twist
	Skiffle
	BoogieWoogie

Category	Style Name
Oldies	PianoBoogie
	60sVintageRock
	60sPopRock
	SurfRock
	BeachRock
	BubblegumPop
	60s8Beat
	60sVintagePop
	Classic8Beat
	BlueberryBlues
	6-8SlowRock
	SingalongDanceBand
	SingalongPiano
	PubPiano
	SimpleShuffle
	VintageGuitarPop
	ScandSlowRock
	ScandCountry
	ScandBugg
	ScandShuffle
Dance	PartyAnthem
	Reggaeton
	Dubstep
	DanceFloor
	DangerDance
	ElectroPop
	HardTrance
	EDM Anthem
	Slow'n'Swingin'
	ChartEDM
	ElectroHouse
	StreetBeatbox
	RockYaBeatbox
	BigRoom
	US ClubDance
	ClubRiddim
	HardClub
	ClubDance1
	ClubDance2
	EuroTrance
	RetroDance
	ClubHouse
	DreamDance
	GlobalDJs
	TrancePop
	Electronica
	ModernHipHop
	FunkyHouse
	DirtyPop
	FrenchClub
	ClubHouse
	MiamiHouse
	ElectroHouse
	GangstaHouse
	GrindHouse
	PianoHouse
	ElectroStep
	Eurodance1
	Eurodance2
	TropicalHouse
	Ibiza2010
	TurkishEuro
R&B	Mr.Soul
	SoulShuffle
	SoulSupreme
	DetroitPop
	MotorCity
	SuperGroove
	LovelyShuffle
	SwingSoul

Category	Style Name
R&B	FranklySoul
	6-8SoulBallad
	GuitarBlues
	SlowBlues
	AcousticBlues
	AcousticShuffle
	BluesShuffleBand
	BluesRock
	BluesShuffle
	R&B Shuffle
	KoolShuffle
	FusionShuffle
	70sCoolBallad
	80sGrooveBallad
	80sSmoothBallad
	90sSmoothBallad
	90sPopGroove
	CoolR&B
	R&B SoulBallad
	R&B PopDiva
	JazzFunk
	JazzFusion
	AmazingGospel
	HollywoodGospel
	GospelSwing
	GospelBallad
	SouthernGospel
	Worship6-8
	WorshipSlow
	GospelBrothers
	GospelSisters
	LiveSoulBand
	Classic16Beat
	70sScatLegend
	70sChartSoul
	SoulBallad
	HipHop
Entertainer	DanceFox2016
	DreamSchlager
	FantasyFox
	ApresSkiParty
	MalleDiscoKing
	AlpenSchlager
	VolksDance
	OktoberRockHit
	ElectroSchlager
	VolksSchlager
	PopRumba
	Schlager3-4
	RockPartyKing
	AustrianDiscoPop
	AustrianGuitarPop
	SchlagerFox
	YoungFox
	YoungBallad
	HelloShuffle
	ModernSchlager
	SwingSchlager
	SchlagerRock1
	SchlagerRock2
	SchlagerRock3
	SchlagerPop
	SchlagerBeat
	SchlagerAlp
	SchlagerRumba
	Schlager6-8
	SchlagerFever
	AlpenBallad1
	AlpenBallad2
	PartyPolka

Category	Style Name
Entertainer	SchlagerPolka
	SchlagerPalace
	PolkaPop
	SchlagerShuffle
	SchlagerSamba
	DiscoFox
	DiscoFoxRock
	PandaHipHop
	GermanRock
	SchlagerWaltz
	MallorcaParty
	MallorcaDisco
	PartyArena
	SoftSchlager
	ApresSkiHit
	SynthPopDuo
	RumbaIsland
Country	CountryFolk8Beat
	CountryFolkUpbeat
	CountrySongwriter
	AcousticBluegrass
	PopBluegrass
	NashvillePop
	NashvilleRock
	NashvilleBreakPop
	NashvilleBallad1
	NashvilleBallad2
	CountryFolkBallad
	CountrySwingBallad
	CountryBallad1
	CountryBallad2
	CountryBallad3
	CalifornianCountry
	CountryPop
	Country8Beat1
	Country8Beat2
	Country8Beat3
	Hoedown
	Bluegrass
	CountryShuffle1
	CountryShuffle2
	CountrySwing
	CountryWaltz
	CountryHits
	CountrySingalong
	CountryRock
	CountryStrummin'
	FastCountryBlues
	CountryBlues
	ModernPickin'
	Pickin'Swing
	CountryStraits
	TopChartCountry
	EasyCountryBallad
	Country2-4
Jazz	BigBandCrooner
	BigBandCount
	BigBandJazz
	ClassicBigBand
	ModernBigBand
	AcousticJazz
	CoolPianoJazz
	InstrumentalJazz
	CoolJazzBallad
	BigBandBallad
	JazzOrganBallad
	JazzOrganGrinder
	JazzOrganGroove
	JazzOrganCombo
	JazzGuitarClub

Category	Style Name
Jazz	TradPianoJazz
	TradPianoBallad
	UpTempoSwing
	ManhattanSwing
	CoolJazzClub
	OrchBigBand1
	OrchBigBand2
	SlowJazzWaltz
	MediumJazzWaltz
	FrenchJazz
	BigBandFast1
	BigBandFast2
	BigBandMedium
	Swingin'BigBand
	BigBandShuffle
	Dixieland
	Ragtime
	FiveFour
	AfroCuban
	JumpJive
EasyListening	PartyAGogo
	HappyBeat
	OrchestralSwing1
	OrchestralSwing2
	Orchestral6-8
	LushBallad
	DreamyBallad
	EasyBallad
	EpicBallad
	Orchestral12-8
	Tijuana
	70sPopDuo1
	70sPopDuo2
	70sEasyPop
	70sChartBallad
	EasySwing
	EasyPop
	EasyListening
	MidnightSwing
	40sSwingBallad
	EuroPopOrgan
	TheatreOrgBallad
	OrganSwing
	OrganBossa
	RomanticWaltz
	ChillPerformer
	CloudyBay
	NightWalk
	Play4Sofa
	AngelSun
	8BeatAdria
	Hawaiian
Latin	PopCha-cha
	RockCha-cha
	SambaRio
	PopCumbia
	LiveCumbia
	LatinPop
	BossaRio
	CoolBossaNova
	BossaBrazil
	LoungeBossa
	SlowBossa
	BossaNova
	PopBossa
	SmoothLatinBallad
	PopLatinBallad
	JazzSamba
	GuitarRumba
	SpanishRumba

Category	Style Name
Latin	PopFlamencos
	TangoFlamencos
	BoleroLento
	PopLatin
	LiveMerengue
	PopMerengue
	Bachata
	Guajira
	Salsa
	Guaguanco
	CubanSon
	Bomba
Ballroom	MoonWaltz
	FinalWaltz
	VocalWaltz
	EnglishWaltz
	SlowWaltz
	Quickstep1
	Quickstep2
	SlowFoxtrot1
	SlowFoxtrot2
	VocalFoxtrot
	Cha-cha1
	Cha-cha2
	Samba1
	Samba2
	Pasodoble1
	Rumba1
	Rumba2
	Tango1
	Tango2
	Pasodoble2
	Jive1
	Jive2
	Foxtrot
	SwingFox
	Beguine
	Charleston
	OrganRumba
	OrganQuickstep
	OrganCha-cha
	OrganSamba
	TheatreQuickstep
	TheatreFoxtrot
Movie&Show	TV Blockbuster
	BoxingLegend
	SecretService
	WildWest
	Sci-FiMarch
	OnBroadway
	RomanticMovie
	MovieHorns
	EtherealMovie
	EtherealVoices
	MovieClassic
	MovieSoundtrack
	ChoirSoundtrack
	AnimationFantasy
	AnimationBallad
	70sTV Theme
	80sDetective
	CultKidsTV
	MoviePanther
	MovieDisco
	MovieBallad
	80sMovieBallad
	BroadwayBallad
	MovieSwing1
	MovieSwing2
	It'sShowtime

Category	Style Name
Movie&Show	TapDanceSwing
	SaturdayNight
	GuitarSerenade
	TheatreShowtime
Classic&Events	RussianWaltz
	ViennneseWaltz
	OrchPopClassics
	StringAdagio
	Moonlight6-8
	6-8March
	US March
	PromsMarch
	OrchestralMarch
	OrchestralPolka
	80sChristmas
	ChristmasBallad
	ChristmasSwing
	ChristmasWaltz
	AmbientChristmas
	BaroqueAir
	GreenFantasia
	OrganHymn
Trad&Folk	OberkrainerPolka1
	OberkrainerPolka2
	OberkrainerPolka3
	ZitherPolka
	BohemianWaltz
	OberkrainerWaltz1
	OberkrainerWaltz2
	OberkrainerWaltz3
	GermanWaltz
	StubnmusiWaltz
	ScottishJig
	ScottishReel
	ScottishStrathspey
	ScottishPolka
	ScottishWaltz
	BrassBand
	IrishHymn
	CelticDance3-4
	CelticDance
	IrishDance
	SwingingMusette
	FrenchMusette
	MexicanDance
	Tarantella
	Sirtaki
	FrenchWaltz
	ScandWaltz
	MariachiWaltz
	ItalianWaltz
	ItalianMazurka
	Flamenco
	SpanishPaso
	AlpenLand
	FolkSongDuo
	FolkPop
	GermanMarch1
	GermanMarch2
	TheatreMarch

Multi Pad Bank List / Multi-Pad-Banikliste / Liste des banques mutli-pads / Elenco dei banchi multipad / Pulti Pad Bank-lijst / Lista sekwencji Multi Pad

Category	Bank Name
SteelGuitar	Steel8BeatStrum1
	Steel8BeatStrum2
	SteelGtrTriplet1
	SteelGtrTriplet2
	Steel16BeatStrum1
	Steel16BeatStrum2
	SteelGuitarPick1
	SteelGuitarPick2
	SteelGuitar6-8 1
	SteelGuitar6-8 2
NylonGuitar	Nylon8BeatStrum1
	Nylon8BeatStrum2
	Nylon8BeatStrum3
	NylonGuitarBasic
	NylonGuitarRumba
	SpanishGtrRumba
	NylonGuitarSamba
	NylonGuitarBossa1
	FlamencoGuitar1
	FlamencoGuitar2
VintageGuitar	Vintage8BeatStrum
	Vintage16BeatCut1
	Vintage16BeatCut2
	FunkyGtr16Beat1
	FunkyGtr16Beat2
	Vintage16BtShfl1
	Vintage16BtShfl2
	Vintage16BtShfl3
	VintageGuitarRock
	JazzGuitarSwing1
Vocal	VocalChords1
	VocalChords2
	PopVocal
	SwingVocal
	OldiesPopVocal
	DooWopSwing
	DooWopStraight
	BossaVocal1
	BossaVocal2
	LatinVocalFX1
	GospelChoir
	GospelAdlibs1
	GospelAdlibs2
	GospelAdlibs3
	GospelAdlibs4
	ShooBeDooWah1
	ShooBeDooWah2
	DaBaDooBee
	VocalFades1
	VocalFades2
Brass&Strings	BigBandSwing1
	BigBandSwing2
	PopBrassFastSwing1
	PopBrassMedSwing1
	FunkyHorns
	PopBrass1
	PopBrass2
	SynthBrass
	PopStrings1
	PopStrings2
	PopBrassFX
	Brass&Sax1
	Brass&Sax2
	Falls
	AttentionDuo
	Fanfare
	OrchestraHits1
	OrchestraSweeps
	SynthBrassSlide1
	SynthBrassSlide2

Category	Bank Name
LatinPercussion	SambaPercussion1
	SambaPercussion2
	RumbaPercussion
	BossaPercussion
	ChaChaPercussion
	SalsaPercussion
	LatinPopPerc1
	LatinPopPerc2
	LatinPopPerc3
	LatinPopPerc4
	LatinPopPerc5
	LatinPopPerc6
	LatinPopPerc7
	LatinPc16BtShfl1
	LatinPc16BtShfl2
	CarnivalDeRio1
	CarnivalDeRio2
	CarnivalDeRio3
	CarnivalDeRio4
	CarnivalDeRio5
	CarnivalDeRio6
	CarnivalDeRio7
	RelaxedCuban
	LatinTopper
	LatinShuffle
	ChaChaLounge
	LatinTriangle
	Buleria
	Cajon1
	Cajon2
WorldPercussion	ArabicPerc1
	ArabicPerc2
	TurkishPerc1
	TurkishPerc2
	OrientalPerc1
	OrientalPerc2
	OrientalPerc3
	OrientalPerc4
	OrientalPerc5
	OrientalPerc6
	OrientalPerc7
	OrientalPerc8
	AfricanBeat1
	AfricanBeat2
	EthnicPercussion
PercussionOneshot	VocalBeatBox1
	VocalBeatBox2
	VocalBeatBox3
	BigBells1
	ChurchBells
	Cymbal&Chimes1
	RideCymbal
	LatinKit1
	LatinKit2
	LatinKit3
	TurkishKit1
	TurkishKit2
	TurkishKit3
	TurkishKit4
	TurkishKit5
	TurkishKit6
	TurkishKit7
	ArabicKit1
	ArabicKit2
	ArabicKit3
DrumLoop	MarchingSnares
	SnarePlay1
	SnarePlay2
	RockCymbal
	JazzCymbal

Category	Bank Name
DrumLoop	Claps2&4
	Claps1-2-3-4
	Shaker&Tambourine1
	Shaker&Tambourine2
	HiHatPlay
DrumOneshot	CrashCymbals
	PowerSnares
	PowerToms
	BrushHits1
	SynthToms1
	DubStepKit
	EDM Kit1
	ElectroKit
	TrapKit
	RockKit
ArrangerLoop	PianoArp8Beat1
	PianoArp16Beat1
	ChordAddOns1
	ChordAddOns2
	ChordAddOns3
	OffBeatChords1
	OffBeatChords2
	ReggaeAccomp1
	UkuleleHawaii
	UkuleleDooBaa
	DubStepElements1
	DubStepElements2
	Chillout1
	Chillout2
	Lullaby
	SynthPlus
	XmasLoops1
	XmasLoops2
	ProcessedVocals1
	ProcessedVocals2
ArrangerOneshot	UkuleleShot
	Rasgueo
	Harpeggio1
	Harpeggio2
	PianoGlissando
	MagicBells
	Pads&Bells
	SlowSynths
	SynthSweeps
	Comedy
	Enterprise
	Impacts&Hits1
	Impacts&Hits2
	FX Drums1
	FX Drums2
	Wooshes1
	SoundFX
	CarFX1
	ScratchBank1
	Telephones
EDM Synth	Mini1980
	SideChained
	BigSynth
	CrossFusion
	PetShops
	TakeOn
	SilentJoy
	PopFamily
	Autobahn
	JustInTime
	PumpingUp
	ManiacFive
	BeaverTime
	PowerFifths
	HiddenOne

Category	Bank Name
EDM Synth	HiddenTwo
	HiddenThree
	HelloBallad
	PianoSticks
	Englishman
EDM Drum	TheBeatBeat
	Interactor
	CompanyMen
	HalfTimeBeatBox
	Nervous
	TomFactory
	MinorThird
	MagicGrinder
	BigSmileDrummer
	VintageSession
	FunkyHalfTime
	Buffalo
	ElectroReggae
	HipHopMix1
	HipHopMix2
	HipHopMix3
	ElectroBeat
	ElectroHouseDrum
	DanceMix1
	DanceMix2
DJ Phrase	ClubHouse A
	ClubHouse B
	ClubHouse C
	ClubHouse D
	MiamiHouse A
	MiamiHouse B
	MiamiHouse C
	MiamiHouse D
	ElectricHouse A
	ElectricHouse B
	ElectricHouse C
	ElectricHouse D
	GangstaHouse A
	GangstaHouse B
	GangstaHouse C
	GangstaHouse D
	GrindHouse A
	GrindHouse B
	GrindHouse C
	GrindHouse D
	PianoHouse A
	PianoHouse B
	PianoHouse C
	PianoHouse D
	ElectroStep A
	ElectroStep B
	ElectroStep C
	ElectroStep D
	Eurodance1 A
	Eurodance1 B
	Eurodance1 C
	Eurodance1 D
	Eurodance2 A
	Eurodance2 B
	Eurodance2 C
	Eurodance2 D
	TropicalHouse A
	TropicalHouse B
	TropicalHouse C
	TropicalHouse D
Legacy/ SteelGuitar	Steel16BeatStrum3
	Steel16BeatStrum4
	Steel8BeatStrum3
	Steel8BeatStrum4
	TwinBsChordSlow

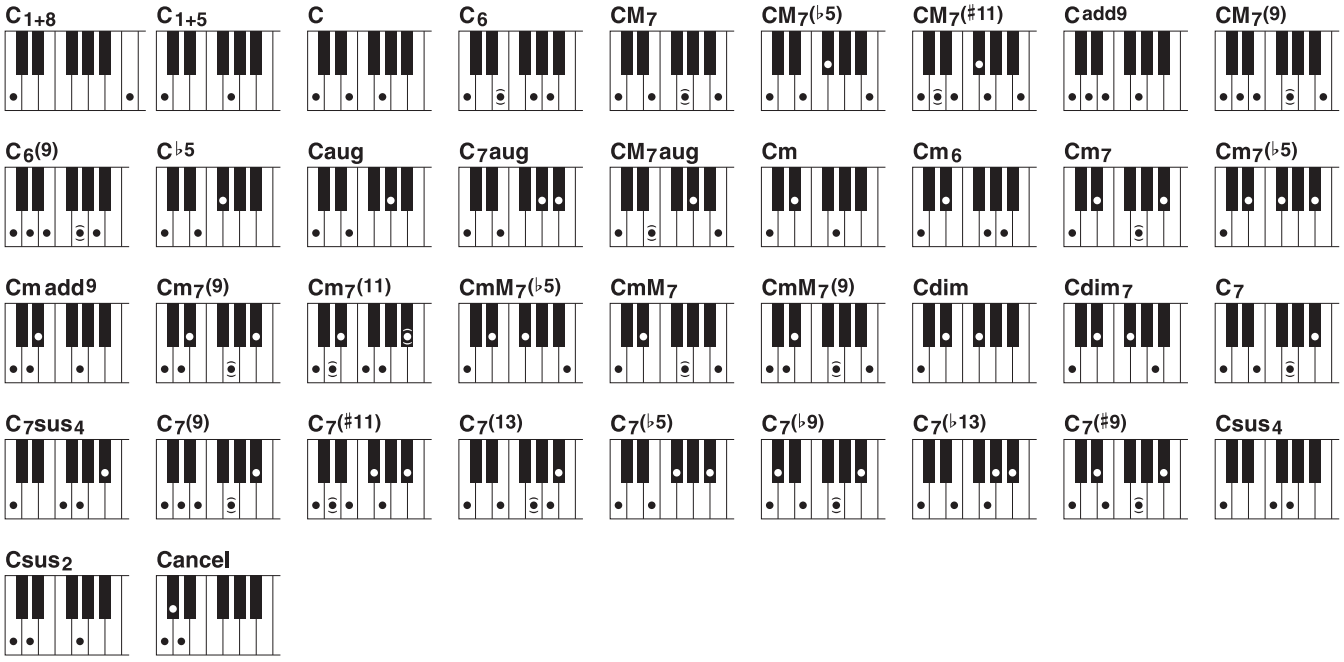
Category	Bank Name
Legacy/ SteelGuitar	SteelBsChordSlow1
	SteelBsChordSlow2
	SteelBsChordFast
	Twin8BeatArp
	Steel8BeatArp
	Twin16BeatStrum
	Twin16BeatArp
	Steel16BeatArp
	Steel6-8Strum1
	Steel6-8Strum2
	Twin6-8Arp
	Steel6-8Arp1
	Steel6-8Arp2
	SteelGtrTriplet3
	SteelGtrTriplet4
	SteelGtrPick3
	SteelGtrPick4
	SteelGtrPick5
	SteelGtrPick6
Legacy/ NylonGuitar	NylonGtrPick
	NylonAccomp
	NylonGuitarBossa2
	NylonGuitarBossa3
	FlamencoGuitar3
	FlamencoGuitar4
	A.GtrAccomp
Legacy/ VintageGuitar	E.Gtr16BeatCut1
	E.Gtr16BeatCut2
	E.Gtr16BeatCut3
	FunkyGtr16Beat3
	FunkyGtr16Beat4
	FunkyGtr16Beat5
	DiscoGuitar
	E.Gtr16BtShuffle1
	E.Gtr16BtShuffle2
	E.Gtr16BeatPick
	E.Gtr8BeatShuffle
	E.Guitar6-8
	E.Gtr8BeatStrum1
	E.Gtr8BeatStrum2
	E.GtrRock1
	E.GtrRock2
	JazzGuitarSwing2
Legacy/Vocal	Pop-Ooh p
	Pop-Ooh p Vib
	Pop-Ooh f
	Pop-Ooh f Vib
	PopPad
	Pop-Aah p
	Pop-Aah p Vib
	Pop-Aah f
	Pop-Aah f Vib
	PopVocalPhrase
	50sPopVocal
	60sPopVocal
	DooWop1
	DooWop2
	BossaVocal3
	BossaVocal4
	LatinVocalFX2
	CountIn1
	CountIn2
	CountIn3
	GospelAdlibs5
	GospelAdlibs6
	GospelChoirFX1
	GospelChoirFX2
	GospelSoloFX1
	GospelSoloFX2
	GospelChoirOnBeat

Category	Bank Name
Legacy/Vocal	GospelChoirOffBeat
Legacy/ Brass&Strings	PopBrassFastSwing2
	PopBrassMedSwing2
	BigBandSwing3
	BigBandSwing4
	BigBandSwing5
	BrassSwing
	TrumpetSwing
	Brass8Beat
	BrassChords1
	BrassChords2
	BrassChords3
	OrchestraMarch
	StringsArpeggio
	StringsBallad
	StringsLegato
	BaroqueStrings
	StringsRun&Fall
	Classical
	OrchestraHits2
	FolkDance
Legacy/ Percussion	LatinPercussion1
	LatinPercussion2
	LatinPercussion3
	LatinPercussion4
	LatinPercussion5
	Conga&Bongo1
	Conga&Bongo2
	LatinPop
	Rumba&Soca
	Shaker&Tambourine3
	Timbales&Tom
	Gong&Chime
	BigBells2
Legacy/Drum	EDM Kit2
	EDM Kit3
	DanceMix3
	House1
	House2
	House3
	ElectroStepMix
	BigRoom
	Tribal
	BreakBeatz
	HipHop1
	HipHop2
	HeavyShuffle
	NewR&B
	SnarePlay3
	SnarePlay4
	Cymbal&Chimes2
	PowerKit1
	PowerKit2
	DrumEndings
	BrushHits2
	SynthToms2
	DanceKit
	DJ-BasicSet
	DJ-SFX
	ScratchBank2
Legacy/Keyboard	PianoArp8Beat2
	PianoArp16Beat2
	LatinKeys
	BoogieLoops
	OrganBlues
	HeavenArpeggio
	TwinkleArpeggio
	ReggaeAccomp2
Legacy/Synth	Chillout3
	Chillout4

Category	Bank Name
Legacy/Synth	ElectronicSeq
	ElectroPop1
	ElectroPop2
	EurodanceMix1
	EurodanceMix2
	TranceSeq1
	TranceSeq2
	TranceSeq3
	TechnoSeq1
	TechnoSeq2
	TechnoSeq3
	Garage
	EurodanceMix3
	DanceSynth
Legacy/SFX	Wooshes2
	Wooshes3
	Breathing
	CarFX2
	DayFX
	NightFX
	WaterFX
	WeatherFX1
	WeatherFX2
	HorrorShowFX1
	HorrorShowFX2
	OrdnanceFX
	TransportFX
	AmbienceFX

Voice Name
PopSection
BalladHorns
R&B Saxes
BallroomSaxes
MillerTime
LushStrings
SoloQuartet
HollyWoodwind
BalladWoodwind
OrchestralWoodwind
SwingingMutes
Flute&Mutes
OrchestralHorns
AllThatJazz
LazyBlues
ClassicStrings
RomanticBowing
Strings&Flute
StringQuartet
OpenQuartet
SaxSection
BigBandSaxes
DanceBandOct
SaxModern
BossaNights
NoveltyWoodwind
FluteBlocks
WoodBlocks
HauntingFlutes
FullWoodSection
Unison
UnisonOctave
Funkadelic
MovieScore
SymphonyPlayers
WoodyStrings
LushOctStrings
DivisiSections
PopularSection
JustViolins
BrassyReeds
BassyBaritone
BigBandReeds
SoftReeds
MarchingBand
Boys&Men
OpenChoral
MixedChoirs
Chapel
PopChoirs
FullReeds
FluteLead
OboeLead
ModernBallroom
Showtime
HauntingHorns
ModernMutes
JazzTrio
BellToneUp
BellToneDown
MelodicPlayers
WideSections
ChamberStrings
ViennaDance
Strings&Horns
WideWoodwind
ModernSection
PiccoloLead
AnimationClassic
PopWoodwind
Alpen1
Alpen2
Alpen3
JazzUnison1
JazzUnison2
PolkaTime

Chord Types Recognized in the Fingered Mode / Im Fingered-Modus erkannte Akkordarten / Types d'accords reconnus en mode Fingered / Tipi di accordi riconosciuti in modalità Ditteggiatura / Herkende akkoordtypes in Fingered-modus / Typy akordów rozpoznawane w trybie Fingered



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

• Notes in parentheses can be omitted.

Reverb Block

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
Reverb	Real Large Hall +	Real reverb simulating the acoustics of a large sized hall with rich middle range.	1	35	REAL REVERB
	Real Medium Hall +	Real reverb simulating the acoustics of a medium sized hall with rich middle range.	1	36	REAL REVERB
	Real Small Hall +	Real reverb simulating the acoustics of a small sized hall with rich middle range.	1	37	REAL 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
	Real Room +	Real reverb simulating the acoustics of a room with rich middle range.	2	34	REAL 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
	Stage 1	Reverb suitable for a solo instrument.	3	16	REVERB1
	Real Large Plate +	Real reverb simulating a large plate reverb unit with rich middle range.	4	35	REAL REVERB
	Real Medium Plate +	Real reverb simulating a medium sized plate reverb unit with rich middle range.	4	36	REAL 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
	Large Plate +	Reverb simulating a large plate reverb unit with rich middle range.	4	18	REVERB1
	Plate 1	Reverb simulating a plate reverb unit.	4	16	REVERB1
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	REVERB3
	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	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
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 1	Reverb suitable for a solo instrument.	3	16	REVERB1
	Plate 1	Reverb simulating a plate reverb unit.	4	16	REVERB1
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
Modulation	Chorus 1	Conventional chorus program with rich, warm chorusing.	66	17	CHORUS
	Chorus 2		66	8	CHORUS
	Symphonic 1	Adds more stages to the modulation of Celeste.	68	16	SYMPHONIC
	Flanger 1	Creates a sound similar to that of a jet airplane.	67	8	FLANGER
	Tempo Flanger	Tempo-synchronized flanger.	107	0	TEMPO FLANGER
	Phaser 1	Cyclically modulates the phase to add modulation to the sound.	72	0	PHASER1
	Tempo Phaser 1	Tempo-synchronized phaser.	108	0	TEMPO PHASER
	E-Piano Phaser 1	Cyclically modulates the phase to add modulation to the sound. For electric piano.	72	17	PHASER1
	Real Rotary	Simulates a rotary speaker.	69	32	REAL ROTARY
	Dual Rotary Speaker Bright		99	16	ROTARY SPEAKER1
	Dual Rotary Speaker Warm		99	17	ROTARY SPEAKER1
	Rotary Speaker 1		69	16	ROTARY SPEAKER2
	Tremolo 1	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 1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16	AUTO PAN1
	Tempo Auto Pan 1	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	REVERB1
	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
	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

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
Legacy	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

Variation/Insertion Block

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
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 1	Reverb suitable for a solo instrument.	3	16	REVERB1
	Plate 1	Reverb simulating a plate reverb unit.	4	16	REVERB1
Delay	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	Tweed Guy Warm Bass	Vintage bass amp simulator. Setting for rich and fat Bass sound.	103	32	TWEED GUY
	Tweed Guy Live Bass	Vintage bass amp simulator. Setting for punchy and bright Bass sound.	103	33	TWEED GUY
	Tweed Guy Rock Bass	Vintage bass amp simulator. Setting for deep distortion Bass sound.	103	34	TWEED GUY
	Tweed Guy Clean	Vintage combo amp simulator. Setting for clean and bright sound.	103	35	TWEED GUY
	Tweed Guy Vintage	Vintage combo amp simulator. Setting for crunch sound.	103	36	TWEED GUY
	Tweed Guy Combo	Vintage combo amp simulator. Setting for deep distortion sound.	103	37	TWEED GUY
	Tweed Guy Heavy	Vintage combo amp simulator. Setting for full drive distortion sound.	103	38	TWEED GUY
	Boutique DC Clean	Boutique made overdrive amp simulator. Setting for clean sound.	104	32	BOUTIQUE DC
	Boutique DC Dirty	Boutique made overdrive amp simulator. Setting for dirty sound.	104	33	BOUTIQUE DC
	Boutique DC Blues	Boutique made overdrive amp simulator. Setting for blues sound.	104	34	BOUTIQUE DC
	Boutique DC Classic	Boutique made overdrive amp simulator. Setting for classic rock sound.	104	35	BOUTIQUE DC
	Y-Amp Live Clean	Preamp & amp simulator for Guitar. Setting for clean sound.	105	32	Y-AMP
	Y-Amp British Crunch	Preamp & amp simulator for Guitar. Setting for British crunch sound.	105	33	Y-AMP
	Y-Amp Sweet Distortion	Preamp & amp simulator for Guitar. Setting for punchy distortion sound.	105	34	Y-AMP
	Y-Amp Modern Lead	Preamp & amp simulator for Guitar. Setting for deep distortion sound.	105	35	Y-AMP
	Distomp Mild Drive	Preamp & parametric EQ simulator for Guitar. Setting for overdrive sound.	106	32	DISTOMP
	Distomp ZZ Distortion	Preamp & parametric EQ simulator for Guitar. Setting for fat distortion sound.	106	33	DISTOMP
	Distomp High Gain	Preamp & parametric EQ simulator for Guitar. Setting for classic distortion sound.	106	34	DISTOMP
	Distomp Metal	Preamp & parametric EQ simulator for Guitar. Setting for Metal sound.	106	35	DISTOMP
	80s Small Box Warm	80s distortion pedal simulator. Setting for warm distortion sound.	107	32	80S SMALL BOX
	80s Small Box Full Dist	80s distortion pedal simulator. Setting for distortion sound which is pushed forward.	107	33	80S SMALL BOX
	US Combo Twin	American combo amp simulator. Setting for typical sound.	99	32	US COMBO
	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 Heavy 1	British stack amp simulator. Setting for heavy sound 1.	98	33	BRITISH LEGEND
	British Legend Heavy 2	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

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
Distortion	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	Uni Comp Basic	Compressor using "downward" algorithm for making loud sounds quieter.	83	32	UNI COMP
	Uni Comp Drums Acoustic	Compressor using "downward" algorithm for making loud sounds quieter. Good for Acoustic Drums.	83	33	UNI COMP
	Uni Comp Drums Electric	Compressor using "downward" algorithm for making loud sounds quieter. Good for Electric Drums.	83	34	UNI COMP
	Uni Comp Percussion	Compressor using "downward" algorithm for making loud sounds quieter. Good for Percussion.	83	35	UNI COMP
	Uni Comp Clipper Dist	Compressor using "downward" algorithm for making loud sounds quieter with added Clipper distortion.	83	36	UNI COMP
	Uni Comp Bass Electric	Compressor using "downward" algorithm for making loud sounds quieter. Good for Electric Bass.	83	37	UNI COMP
	Uni Comp Bass Acoustic	Compressor using "downward" algorithm for making loud sounds quieter. Good for Acoustic Bass.	83	38	UNI COMP
	Uni Comp Guitar Electric	Compressor using "downward" algorithm for making loud sounds quieter. Good for Electric Guitar.	83	39	UNI COMP
	Uni Comp Guitar Acoustic	Compressor using "downward" algorithm for making loud sounds quieter. Good for Acoustic Guitar	83	40	UNI COMP
	Uni Comp EP&Synth	Compressor using "downward" algorithm for making loud sounds quieter. Good for Electric Piano and Synth sound.	83	41	UNI COMP
	VCM Compressor	This simulates an analog compressor, giving a vintage flavor to the sound.	124	4	VCM COMPRESSOR
	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
	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
Modulation	Chorus 1	Conventional chorus program with rich, warm chorusing.	66	17	CHORUS
	Chorus 2		66	8	CHORUS
	Symphonic 1	Adds more stages to the modulation of Celeste.	68	16	SYMPHONIC
	VCM Flanger 1	This simulates an analog flanger, giving a strong vintage flavor to the sound.	124	1	VCM FLANGER
	Flanger 1	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
	VCM Phaser 1	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in mono.	124	2	VCM PHASER MONO
	VCM Phaser Stereo 1	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in stereo.	124	3	VCM PHASER STEREO
	Phaser 1	Cyclically modulates the phase to add modulation to the sound.	72	0	PHASER1
	Tempo Phaser 1	Tempo-synchronized phaser.	108	0	TEMPO PHASER
	E-Piano Phaser 1	Cyclically modulates the phase to add modulation to the sound. For electric piano.	72	17	PHASER1
	VCM 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	VCM AUTO WAH
	Auto Wah 1	Cyclically modulates the center frequency of a wah filter.	78	16	AUTO WAH
	Auto Wah + Distortion 1	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
	VCM 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	VCM TOUCH WAH
	Touch Wah 1	Changes the center frequency of a wah filter according to the input level.	82	0	TOUCH WAH1
	Touch Wah + Distortion 1	Distortion can be applied to the output of Touch Wah.	82	16	TOUCH WAH1
	VCM Pedal Wah Basic	Vintage Wah which can be controlled by "Pedal Control" parameter. (See Effect Parameter List.)	125	1	VCM PEDAL WAH
	VCM Pedal Wah Disco		125	16	VCM 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
	Real Rotary	Simulates a rotary speaker.	69	32	REAL ROTARY
	Dual Rotary Speaker Bright		99	16	ROTARY SPEAKER1
	Dual Rotary Speaker Warm		99	17	ROTARY SPEAKER1
	Rotary Speaker 1		69	16	ROTARY SPEAKER2
	Tremolo 1	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 1	Several panning effects that automatically shift the sound position (left, right, front, back).	71	16	AUTO PAN1
	Tempo Auto Pan 1	Tempo-synchronized auto pan.	121	0	TEMPO AUTO PAN1
Misc	Damper Resonance	Simulates a damper resonance effect for grand piano.	123	8	DAMPER RESONANCE
	Presence Clearly Natural	Brings out the hidden presence of the input signal. This preset enhances the presence of the input signal whilst keeping the natural character of the original sound. Suitable for acoustic instruments such as piano, guitar and many classical instruments.	76	32	PRESENCE
	Presence Bass Keeper	Brings out the hidden presence of the input signal. This preset enhances the presence of the input signal whilst keeping the bass frequencies of the original sound. Suitable for drums, basses and dark sounds.	76	33	PRESENCE
	Presence Crispy Thin	Brings out the hidden presence of the input signal. This preset enhances the presence of the input signal making high frequencies become clear and more audible. Suitable for lead voices and instruments that need to cut through in the mix.	76	34	PRESENCE
	Loop FX 1	Degrades the audio quality of the input signal.	94	16	LO FI
	Loop FX 2		94	17	LO FI

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
Misc	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
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
	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 Blues Harp		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

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
Legacy	Comp + Dist + Delay 2	Compressor, Distortion and Delay are connected in series.	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 DISTORTION 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
	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
	VCM Flanger 2	This simulates an analog flanger, giving a strong vintage flavor to the sound.	124	16	VCM 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
	VCM Phaser 2	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in mono.	124	17	VCM PHASER MONO
	VCM Phaser Stereo 2	This simulates an analog phaser, giving a strong vintage flavor to the sound. It is effective in stereo.	124	18	VCM PHASER STEREO
	VCM Phaser Stereo 3		124	19	VCM PHASER STEREO
	VCM Phaser Stereo 4		124	20	VCM 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	Overdrive distortion can be applied to the output of Auto Wah.	78	18	AUTO WAH DISTORTION
	Auto Wah + Overdrive 2		78	2	AUTO WAH DISTORTION

Category	Type	Description	MSB	LSB	Effect Parameter (pages 54 – 68)
Legacy	Auto Wah + OD Hard	Overdrive distortion can be applied to the output of Auto Wah.	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
	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 DIST TEMPO 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 DIST TEMPO DELAY
	Wah + OD + Tmp Delay 2		102	16	WAH DIST TEMPO 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	Overdrive distortion can be applied to the output of Pedal Wah.	122	2	PEDAL WAH2
	Pedal Wah + OD Hard		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 SP
	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

- 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, Variation Block and Insertion1-28 Block

REVERB

REAL REVERB

Block : Reverb

No.	Parameter	Display	Min	Max	Table	Control
1	Reverb Time	0.3s – 30.0s	0	69	Table#1	
2						
3	Initial Delay Time	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 – 18kHz	28	59	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

REVERB1

Block : Reverb, Chorus, Variation, Insertion1-28

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 Time	0.1ms – 200.0ms (*1)	0	127	Table#2	
		0.1ms – 99.3ms (*2)	0	63		
4	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0	52	Table#3	
5	LPF Cutoff Frequency	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 Time	0.1ms – 200.0ms (*1)	0	127	Table#2	
		0.1ms – 99.3ms (*2)	0	63		
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 Time	0.1ms – 200.0ms	0	127	Table#2	
4	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0	52	Table#3	
5	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
6						
7						
8						
9						
10						
11						
12						
13						
14	High Damp	0.1 – 1.0	1	10		
15						
16						

REVERB3

Block : Reverb, Variation, Insertion1-28

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 Time	0.1ms – 200.0ms (*1)	0	127	Table#2	
		0.1ms – 99.3ms (*2)	0	63		
4	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0	52	Table#3	
5	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
6	Width	0.5m – 30.2m (*1)	0	104	Table#4	
		0.5m – 10.2m (*2)	0	37		
7	Height	0.5m – 30.2m (*1)	0	104	Table#4	
		0.5m – 20.2m (*2)	0	73		
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 Time	0.1ms – 200.0ms (*1)	0	127	Table#2	
		0.1ms – 99.3ms (*2)	0	63		
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 : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Lch Delay Time	0.1ms – 1.6383s	1	16383		
2	Rch Delay Time	0.1ms – 1.6383s	1	16383		
3	Cch Delay Time	0.1ms – 1.6383s	1	16383		
4	Feedback Delay Time	0.1ms – 1.6383s	1	16383		
5	Feedback Level	-63 – 0 – +63	1	127		
6	Cch Level	0 – 127	0	127		
7	Feedback 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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

DELAY LR

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Lch Delay Time	0.1ms – 1.6383s	1	16383		
2	Rch Delay Time	0.1ms – 1.6383s	1	16383		
3	Feedback Delay 1 Time	0.1ms – 1.6383s	1	16383		
4	Feedback Delay 2 Time	0.1ms – 1.6383s	1	16383		
5	Feedback Level	-63 – 0 – +63	1	127		
6	Feedback 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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

ECHO

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Lch Delay 1 Time	0.1ms – 1.4860s	1	14860		
2	Lch Feedback Level	-63 – 0 – +63	1	127		
3	Rch Delay 1 Time	0.1ms – 1.4860s	1	14860		
4	Rch Feedback Level	-63 – 0 – +63	1	127		
5	Feedback High Damp	0.1 – 1.0	1	10		
6	Lch Delay 2 Time	0.1ms – 1.4860s	1	14860		
7	Rch Delay 2 Time	0.1ms – 1.4860s	1	14860		
8	Delay 2 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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

CROSS DELAY

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	L->R Delay Time	0.1ms – 1.4860s	1	14860		
2	R->L Delay Time	0.1ms – 1.4860s	1	14860		
3	Feedback Level	-63 – 0 – +63	1	127		
4	Input Select	L, R, L&R	0	2		
5	Feedback 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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

TEMPO DELAY

Block : Chorus, Variation, Insertion1-28

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 Damp	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	Table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

TEMPO CROSS DELAY

Block : Chorus, Variation, Insertion1-28

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 Damp	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	Table#3	
14	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
15	EQ High Frequency	500Hz – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

ER/KARAOKE

KARAOKE

Block : Chorus, Variation, Insertion1-28

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 Frequency	Thru, 22Hz – 8.0kHz	0	52	Table#3	
4	LPF Cutoff Frequency	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, Variation, Insertion1-28

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 Time	0.1ms – 200.0ms	0	127	Table#2	
5	Feedback Level	-63 – 0 – +63	1	127		
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	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 : Variation, Insertion1-28

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 Time	0.1ms – 200.0ms	0	127	Table#2	
5	Feedback Level	-63 – 0 – +63	1	127		
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	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, Variation, Insertion1-28

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 – 50.0ms	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 – 16kHz	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 – 10kHz	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, Variation, Insertion1-28

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 – 50.0ms	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 – 16kHz	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 – 10kHz	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, Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Detune	-50cent – 0cent – +50cent	14	114		
2	Lch Initial Delay Time	0.0ms – 50.0ms	0	127	Table#9	
3	Rch Initial Delay Time	0.0ms – 50.0ms	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 – 16kHz	28	58	Table#3	
14	EQ High Gain	-12dB – 0dB – +12dB	52	76		
15						
16						

AMBIENCE CHORUS
Block : Variation, Insertion1-28

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 – 50.0ms	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 : Variation, Insertion1-28

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 – 50.0ms	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

VCM FLANGER
Block : Variation, Insertion1-28

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						

FLANGER
Block : Chorus, Variation, Insertion1-28

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 – 50.0ms	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 – 16kHz	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 – 10kHz	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						

V FLANGER
Block : Variation, Insertion1-28

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 – 16kHz	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 – 10kHz	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, Variation, Insertion1-28

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 – 50.0ms	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 – 16kHz	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 – 10kHz	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						

DYNAMIC FLANGER
Block : Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

AMBIENCE FLANGER
Block : Variation, Insertion1-28

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 – 50.0ms	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

VCM PHASER MONO
Block : Variation, Insertion1-28

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.

VCM PHASER STEREO
Block : Variation, Insertion1-28

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.

PHASER1
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	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, Variation, Insertion1-28

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 – 16kHz	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						

TEMPO PHASER
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	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						

DYNAMIC PHASER
Block : Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

DISTORTION/AMP SIMULATOR

TWEED GUY
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Type	Normal, Bright	0	1		
2	Volume	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						
9	Output	0 – 127	0	127		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
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						

BOUTIQUE DC
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1						
2	Ch1 Volume	0.0 – 10.0	0	100		
3	Ch2 Volume	0.0 – 10.0	0	100		
4	Ch1 Bass	0.0 – 10.0	0	100		
5	Ch2 Tone	1 – 6	0	5		
6	Ch1 Treble	0.0 – 10.0	0	100		
7	Cut	0.0 – 10.0	0	100		
8	Master	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, Original	0	11		
12	Speaker Air	0 – 2	0	2		
13	Mic Position	Center, Edge	0	1		
14						
15						
16						

Y-AMP
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Type	Clean, Clean Boost, British Crunch, Boutique Crunch, Classic Hi-Gain, British Hi-Gain, Modern Hi-Gain, Lead, Metal, Normal Distortion, Sweet Distortion	0	10		
2	Preamp	0.0 – 10.0	0	100		●
3	Tone	0.0 – 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	Sweep	0.0 – 10.0	0	100		
8	Master	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	Power Mode	6L6GC, EL34, KT66	0	2		
16						

DISTOMP
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Type	Overdrive, Normal Distortion, Sweet Distortion, Classic Distortion, Metal, Fuzz, Clean, British Crunch, Boutique Crunch, Classic Hi-Gain, British Hi-Gain, Modern Hi-Gain	0	11		
2	Drive	0.0 – 10.0	0	100		●
3	Tone	0.0 – 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	Sweep	0.0 – 10.0	0	100		
8	Speaker Type	Off, BS 4x12, AC 2x12, AC 1x12, AC 4x10, BC 2x12, AM 4x12, YC 4x12, JC 2x12, OC 2x12, OC 1x8, Dip1, Dip2, Metal, Light	0	14		
9	Output	0 – 127	0	127		
10						
11	EQ1 Q	0 – 24	0	24		
12	EQ1 Frequency	20.0Hz – 20.0kHz	4	124	Table#16	
13	EQ1 Gain	-18.0dB – 0.0dB – 18.0dB	28	100		
14	EQ2 Q	0 – 24	0	24		
15	EQ2 Frequency	20.0Hz – 20.0kHz	4	124	Table#16	
16	EQ2 Gain	-18.0dB – 0.0dB – 18.0dB	28	100		

80S SMALL BOX
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1						
2						
3						
4						
5	Drive	0.0 – 10.0	0	100		●
6	Cut	0.0 – 10.0	0	100		
7	Overtone	0.0 – 10.0	0	100		
8						
9	Output	0.0 – 10.0	0	100		
10						
11	Foot Switch	Off, On	0	1		
12						
13						
14						
15						
16						

US COMBO
Block : Variation, Insertion1-28

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						

JAZZ COMBO
Block : Variation, Insertion1-28

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		

US HIGH GAIN
Block : Variation, Insertion1-28

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						

BRITISH LEAD
Block : Variation, Insertion1-28

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						

MULTI FX
Block : Variation, Insertion1-28

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	0.100Hz – 9.925Hz	0	127	Table#17	
13	Phaser SW	Off, Standard, Wide, Vibe, Tremolo	0	4		
14	Delay SW	Off, Delay M, Echo1 M, Echo2 M, Chorus M, Dl Chorus M, Flanger1 M, Flanger2 M, Flanger3 M, Delay St, Echo1 St, Echo2 St, Chorus St, Dl Chorus St, Flanger1 St, Flanger2 St, Flanger3 St	0	16		
15	Delay Ctrl	0 – 127	0	127		
16	Delay Time	0 – 127	0	127		

SMALL STEREO DIST
Block : Variation, Insertion1-28

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						

BRITISH COMBO
Block : Variation, Insertion1-28

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						

BRITISH LEGEND
Block : Variation, Insertion1-28

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						

V DISTORTION
Block : Variation, Insertion1-28

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 : Variation, Insertion1-28

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 Damp	0.1 – 1.0	1	10		
13						
14						
15						
16						

V DISTORTION DELAY
Block : Variation, Insertion1-28

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	Lch Delay Time	0.1ms – 1.6383s	1	16383		
7	Rch Delay Time	0.1ms – 1.6383s	1	16383		
8	Delay Feedback Time	0.1ms – 1.6383s	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 Damp	0.1 – 1.0	1	10		
13						
14						
15						
16						

STEREO DISTORTION
Block : Variation, Insertion1-28

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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
5	Output Level	0 – 127	0	127		
6						
7	EQ Mid Frequency	100Hz – 10kHz	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						

STEREO AMP SIMULATOR
Block : Variation, Insertion1-28

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 Frequency	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 : Variation, Insertion1-28

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 Frequency	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 SIMULATOR2
Block : Variation, Insertion1-28

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 Frequency	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
Block : Variation, Insertion1-28

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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
5	Output Level	0 – 127	0	127		
6						
7	EQ Mid Frequency	100Hz – 10kHz	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						

DISTORTION DELAY
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Lch Delay Time	0.1ms – 1.6383s	1	16383		
2	Rch Delay Time	0.1ms – 1.6383s	1	16383		
3	Delay Feedback Time	0.1ms – 1.6383s	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						

DIST TEMPO DELAY
Block : Variation, Insertion1-28

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						

COMP DISTORTION
Block : Variation, Insertion1-28

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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
5	Output Level	0 – 127	0	127		
6						
7	EQ Mid Frequency	100Hz – 10kHz	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#18	
13	Release	10ms – 680ms	0	15	Table#19	
14	Threshold	-48dB – -6dB	79	121		
15	Ratio	1.0 – 20.0	0	7	Table#20	
16						

COMP DIST DELAY
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	0.1ms – 1.6383s	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#18	
12	Comp Release	10ms – 680ms	0	15	Table#19	
13	Comp Threshold	-48dB – -6dB	79	121		
14	Comp Ratio	1.0 – 20.0	0	7	Table#20	
15						
16						

COMP DIST TEMPO DELAY
Block : Variation, Insertion1-28

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#18	
12	Comp Release	10ms – 680ms	0	15	Table#19	
13	Comp Threshold	-48dB – -6dB	79	121		
14	Comp Ratio	1.0 – 20.0	0	7	Table#20	
15						
16						

AUTO WAH

VCM AUTO WAH
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Speed	0.100Hz – 20.00Hz	0	254	Table#21	●
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
Block : Variation, Insertion1-28

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 – 16kHz	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						

AUTO WAH DISTORTION
Block : Variation, Insertion1-28

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 – 16kHz	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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
15	Output Level	0 – 127	0	127		
16						

TEMPO AUTO WAH1
Block : Variation, Insertion1-28

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 – 16kHz	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 : Variation, Insertion1-28

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 – 16kHz	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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
15	Output Level	0 – 127	0	127		
16						

TOUCH WAH/PEDAL WAH

VCM TOUCH WAH
Block : Variation, Insertion1-28

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						

TOUCH WAH1
Block : Variation, Insertion1-28

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 – 16kHz	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 : Variation, Insertion1-28

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 – 16kHz	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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
15	Output Level	0 – 127	0	127		
16	Release	10.0ms – 680.0ms	52	67	Table#22	

WAH DISTORTION DELAY
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	0.1ms – 1.6383s	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	10.0ms – 680.0ms	52	67	Table#22	
15						
16						

WAH DIST TEMPO DELAY
Block : Variation, Insertion1-28

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	10.0ms – 680.0ms	52	67	Table#22	
15						
16						

VCM PEDAL WAH
Block : Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

PEDAL WAH1
Block : Variation, Insertion1-28

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 – 16kHz	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 : Variation, Insertion1-28

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 – 16kHz	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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
15	Output Level	0 – 127	0	127		
16						

ROTARY SPEAKER/AUTO PAN/TREMOLO

REAL ROTARY
Block : Chorus, Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Speed Control	Slow, Fast	0	1		●
2	Drive	0.0 – 10.0	0	100		
3	Tone	0.0 – 10.0	0	100		
4	Low/High Balance	L63>H – L=H – L<H63	1	127		
5	Output Level	0 – 127	0	127		
6	Mic L-R Angle	0deg, 90deg, 120deg, 180deg	0	3		
7	Input Level	-6.0dB – 0.0dB – +6.0dB	52	76		
8	Modulation Intensity	0 – 63	0	63		
9						
10						
11	Slow-Fast Time of Horn	x0.21 – x1.00 – x2.00	14	127	Table#23	
12	Fast-Slow Time of Horn	x0.21 – x1.00 – x2.00	14	127	Table#23	
13	Woofer Speed Slow	0.0rpm – 88.3rpm	0	127	Table#24	
14	Horn Speed Slow	0.0rpm – 89.6rpm	0	127	Table#25	
15	Woofer Speed Fast	189.3rpm – 736.8rpm	1	127	Table#26	
16	Horn Speed Fast	209.4rpm – 817.6rpm	1	127	Table#27	

ROTARY SPEAKER1
Block : Chorus, Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Woofer Speed Slow	0.0rpm – 159.0rpm	0	63	Table#28	
2	Horn Speed Slow	0.0rpm – 159.0rpm	0	63	Table#28	
3	Woofer Speed Fast	161.4rpm – 2382.0rpm	64	127	Table#29	
4	Horn Speed Fast	161.4rpm – 2382.0rpm	64	127	Table#29	
5	Slow-Fast Time of Woofer	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 – 16kHz	28	58	Table#3	
14	EQ High Gain	-12dB – 0dB – +12dB	52	76		
15	Mic L-R Angle	0deg – 180deg (resolution=3deg.)	0	60		
16	Speed Control	Slow, Fast	0	1		●

ROTARY SPEAKER2
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	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 – 10kHz	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						

2WAY ROTARY SPEAKER
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	Crossover Frequency	100Hz – 10kHz	14	54	Table#3	
12	Mic L-R Angle	0deg – 180deg (resolution=3deg.)	0	60		
13						
14						
15						
16						

DIST ROTARY SPEAKER
Block : Variation, Insertion1-28

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 – 16kHz	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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
16	Output Level	0 – 127	0	127		

DIST 2WAY ROTARY SP
Block : Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	Crossover Frequency	100Hz – 10kHz	14	54	Table#3	
12	Mic L-R Angle	0deg – 180deg (resolution=3deg.)	0	60		
13						
14	Drive	0 – 127	0	127		
15	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
16	Output Level	0 – 127	0	127		

AMP ROTARY SPEAKER
Block : Variation, Insertion1-28

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 – 16kHz	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 Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
16	Output Level	0 – 127	0	127		

AMP 2WAY ROTARY SP
Block : Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	Crossover Frequency	100Hz – 10kHz	14	54	Table#3	
12	Mic L-R Angle	0deg – 180deg (resolution=3deg.)	0	60		
13	Amp Type	Off, Stack, Combo, Tube	0	3		
14	Drive	0 – 127	0	127		
15	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3	
16	Output Level	0 – 127	0	127		

AUTO PAN1
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	EQ Mid Frequency	100Hz – 10kHz	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 PAN2
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	EQ Mid Frequency	100Hz – 10kHz	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, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	EQ Mid Frequency	100Hz – 10kHz	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, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	EQ Mid Frequency	100Hz – 10kHz	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						

TREMOLO
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	EQ Mid Frequency	100Hz – 10kHz	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						

TEMPO TREMOLO
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
9	EQ High Gain	-12dB – 0dB – +12dB	52	76		
10						
11	EQ Mid Frequency	100Hz – 10kHz	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						

VIBE VIBRATE
Block : Chorus, Variation, Insertion1-28

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 – 16kHz	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 – 10kHz	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		●

COMPRESSOR/NOISE GATE

UNI COMP

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Threshold	-60.0dB – 0.0dB	0	120		
2	Knee	0 – 8	0	8		
3	Attack	0.010ms – 80.00ms	0	127	Table#30	
4	Release	6.250ms – 999.0ms	0	127	Table#31	
5	Ratio	1.00 – 500.00, ∞	0	127	Table#32	
6	Side Chain EQ Switch	Off, On	0	1		
7	Side Chain EQ Q	0.100 – 10.00	0	126	Table#33	
8	Side Chain EQ Frequency	11.89Hz – 17.78kHz	0	127	Table#34	
9	Side Chain EQ Gain	-30.0dB – 0.0dB – +30.0dB	0	120		
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
11	Output Level	-20.0dB – 0.0dB – +40.0dB	0	120		
12	Make Up Gain	-20.0dB – 0.0dB – +40.0dB	0	120		
13	Post-comp HPF	Off, 1.04Hz – 80.35Hz	0	127	Table#35	
14	Clipper	Off, 1 – 100	0	100		
15	Clipper Source	Dry+Wet, Wet	0	1		
16						

(*) When UNI COMP is used with System connection in a Variation Block, the "Clipper Source" parameter will always refer to the "Wet" signal, even if "Dry+Wet" is selected.

VCM COMPRESSOR

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Input Level	-∞dB, -138.0dB – 0.00dB	0	200	Table#36	
2	Output Level	-∞dB, -138.0dB – 0.00dB	0	200	Table#36	
3	Ratio	2, 4, 8, 12, 20	0	4		
4	Attack	0.022ms – 50.40ms	0	200	Table#37	
5	Release	10.88ms – 544.22ms	0	200	Table#38	
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

COMPRESSOR

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Attack	1ms – 40ms	0	19	Table#18	
2	Release	10ms – 680ms	0	15	Table#19	
3	Threshold	-48dB – -6dB	79	121		
4	Ratio	1.0 – 20.0	0	7	Table#20	
5	Output Level	0 – 127	0	127		
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

MULTI BAND COMP

Block : Variation, Insertion1-28

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 – 0 – +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						

NOISE GATE

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Attack	1ms – 40ms	0	19	Table#18	
2	Release	10ms – 680ms	0	15	Table#19	
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						

EQ/ENHANCER

3BAND EQ

Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	EQ Low Gain	-12dB – 0dB – +12dB	52	76		
2	EQ Mid Frequency	100Hz – 16kHz	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 – 16kHz	28	58	Table#3	
8						
9						
10						
11						
12						
13						
14						
15	Input Mode	Mono, Stereo	0	1		
16						

2BAND EQ
Block : Variation, Insertion1-28

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 – 16kHz	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 : Variation, Insertion1-28

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

PITCH CHANGE

PITCH CHANGE1
Block : Chorus, Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Pitch	-24 – 0 – +24	40	88		
2	Initial Delay Time	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, Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Pitch	-24 – 0 – +24	40	88		
2	Initial Delay Time	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						

MISC

DAMPER RESONANCE
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1						
2						
3						
4						
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1	127		
11						
12						
13						
14						
15						
16	Pedal Control	0 – 127	0	127		●

PRESENCE
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Presence	0 – 100	0	100		
2	Texture	0 – 100	0	100		
3	Output Level	-6.0dB – 0.0dB – +6.0dB	0	120		●
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

VOICE CANCELAR
Block : Variation, Insertion1-28

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 : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Delay Time	0.0ms – 50.0ms	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 – 16kHz	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 : Variation, Insertion1-28

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 : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Sampling Frequency Control	44.1kHz – 345.0Hz	0	127	Table#39	
2	Word Length	1 – 127	1	127		
3	Output Gain	-6dB – 0dB – +36dB	0	42		
4	LPF Cutoff Frequency	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 : Variation, Insertion1-28

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 – 0 – +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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

DYNAMIC RING MOD
Block : Variation, Insertion1-28

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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

RING MODULATOR
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Osc Frequency Coarse	0.7Hz – 5002.6kHz	0	127	Table#40	●
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 – 16kHz	28	58	Table#3	
16	EQ High Gain	-12dB – 0dB – +12dB	52	76		

ISOLATOR
Block : Variation, Insertion1-28

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, Variation

No.	Parameter	Display	Min	Max	Table	Control
1						
2						
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THRU
Block : Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
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Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets / Tabella assegnazione dati degli effetti / Effect Data Assign-tabel / Tabela przypisania danych efektów

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#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#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	10k
23	280	55	11k
24	315	56	12k
25	355	57	14k
26	400	58	16k
27	450	59	18k
28	500	60	THRU(20k)
29	560		
30	630		
31	700		

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#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#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	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

Table#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#8
LFO Frequency [Hz]

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

Table#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	Data	Value
0	0.040	64	0.247	128	0.988	192	3.953
1	0.042	65	0.252	129	1.009	193	4.037
2	0.045	66	0.258	130	1.030	194	4.122
3	0.047	67	0.263	131	1.051	195	4.206
4	0.050	68	0.268	132	1.072	196	4.290
5	0.053	69	0.273	133	1.093	197	4.374
6	0.055	70	0.281	134	1.125	198	4.500
7	0.058	71	0.287	135	1.146	199	4.584
8	0.060	72	0.292	136	1.167	200	4.668
9	0.063	73	0.300	137	1.199	201	4.752
10	0.066	74	0.308	138	1.220	202	4.879
11	0.068	75	0.313	139	1.251	203	5.005
12	0.071	76	0.321	140	1.272	204	5.131
13	0.074	77	0.326	141	1.304	205	5.215
14	0.076	78	0.334	142	1.335	206	5.341
15	0.079	79	0.342	143	1.367	207	5.467
16	0.081	80	0.347	144	1.409	208	5.552
17	0.084	81	0.357	145	1.430	209	5.720
18	0.087	82	0.363	146	1.451	210	5.804
19	0.089	83	0.373	147	1.493	211	5.972
20	0.092	84	0.379	148	1.514	212	6.056
21	0.095	85	0.389	149	1.556	213	6.224
22	0.097	86	0.400	150	1.577	214	6.309
23	0.100	87	0.405	151	1.619	215	6.477
24	0.102	88	0.415	152	1.661	216	6.645
25	0.105	89	0.426	153	1.682	217	6.813
26	0.108	90	0.431	154	1.724	218	6.897
27	0.110	91	0.442	155	1.766	219	7.066
28	0.113	92	0.452	156	1.808	220	7.234
29	0.116	93	0.463	157	1.851	221	7.402
30	0.118	94	0.473	158	1.893	222	7.570
31	0.121	95	0.484	159	1.935	223	7.738
32	0.124	96	0.494	160	1.977	224	7.907
33	0.126	97	0.505	161	2.019	225	8.075
34	0.129	98	0.515	162	2.061	226	8.243
35	0.131	99	0.526	163	2.103	227	8.411
36	0.134	100	0.536	164	2.145	228	8.580
37	0.137	101	0.547	165	2.187	229	8.748
38	0.139	102	0.563	166	2.250	230	9.000
39	0.145	103	0.573	167	2.292	231	9.168
40	0.147	104	0.589	168	2.334	232	9.337
41	0.150	105	0.599	169	2.397	233	9.589
42	0.152	106	0.615	170	2.460	234	9.757
43	0.158	107	0.626	171	2.502	235	10.00
44	0.160	108	0.636	172	2.565		
45	0.163	109	0.652	173	2.608		
46	0.168	110	0.668	174	2.671		
47	0.171	111	0.683	175	2.733		
48	0.173	112	0.704	176	2.776		
49	0.179	113	0.715	177	2.860		
50	0.181	114	0.725	178	2.902		
51	0.187	115	0.747	179	2.986		
52	0.189	116	0.757	180	3.028		
53	0.195	117	0.778	181	3.112		
54	0.197	118	0.789	182	3.154		
55	0.202	119	0.810	183	3.238		
56	0.208	120	0.831	184	3.323		
57	0.210	121	0.852	185	3.365		
58	0.216	122	0.862	186	3.449		
59	0.221	123	0.883	187	3.533		
60	0.226	124	0.904	188	3.617		
61	0.231	125	0.925	189	3.701		
62	0.237	126	0.946	190	3.785		
63	0.242	127	0.967	191	3.869		

Table#11
V-Flanger Delay Offset [ms]

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

Table#12

V-Flanger Modulation Phase [deg]

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

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	96.0	87	154	119	212
24	40.0	56	98.0	88	156	120	214
25	41.0	57	100.0	89	158	121	216
26	43.0	58	101.0	90	160	122	218
27	45.0	59	103.0	91	161	123	220
28	47.0	60	105.0	92	163	124	221
29	49.0	61	107.0	93	165	125	223
30	50.0	62	109.0	94	167	126	225
31	52.0	63	110.0	95	169	127	227

Table#14
Dyna Release Time [ms]

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

Table#15
VCM Phaser Speed [Hz]

Data	Value	Data	Value	Data	Value	Data	Value	Data	Value
0	0.100	51	0.265	102	0.668	153	1.682	204	4.206
1	0.103	52	0.271	103	0.683	154	1.703	205	4.290
2	0.105	53	0.276	104	0.694	155	1.724	206	4.374
3	0.108	54	0.281	105	0.704	156	1.767	207	4.458
4	0.110	55	0.287	106	0.715	157	1.808	208	4.500
5	0.113	56	0.289	107	0.725	158	1.829	209	4.584
6	0.116	57	0.294	108	0.747	159	1.872	210	4.668
7	0.118	58	0.300	109	0.758	160	1.893	211	4.752
8	0.121	59	0.308	110	0.768	161	1.935	212	4.837
9	0.124	60	0.310	111	0.789	162	1.977	213	4.921
10	0.126	61	0.318	112	0.799	163	2.000	214	5.047
11	0.129	62	0.323	113	0.810	164	2.040	215	5.131
12	0.131	63	0.329	114	0.831	165	2.082	216	5.215
13	0.134	64	0.334	115	0.841	166	2.124	217	5.299
14	0.137	65	0.342	116	0.862	167	2.145	218	5.383
15	0.139	66	0.347	117	0.873	168	2.187	219	5.551
16	0.142	67	0.357	118	0.894	169	2.229	220	5.636
17	0.145	68	0.363	119	0.904	170	2.271	221	5.720
18	0.147	69	0.368	120	0.925	171	2.313	222	5.804
19	0.150	70	0.373	121	0.936	172	2.355	223	5.888
20	0.152	71	0.379	122	0.957	173	2.397	224	6.056
21	0.155	72	0.389	123	0.967	174	2.439	225	6.140
22	0.158	73	0.394	124	0.988	175	2.503	226	6.224
23	0.160	74	0.400	125	1.000	176	2.544	227	6.393
24	0.163	75	0.410	126	1.030	177	2.587	228	6.477
25	0.166	76	0.415	127	1.051	178	2.629	229	6.561
26	0.168	77	0.426	128	1.062	179	2.671	230	6.729
27	0.171	78	0.431	129	1.083	180	2.734	231	6.813
28	0.173	79	0.442	130	1.104	181	2.776	232	6.981
29	0.179	80	0.447	131	1.125	182	2.860	233	7.066
30	0.181	81	0.457	132	1.146	183	2.902	234	7.234
31	0.184	82	0.463	133	1.167	184	2.944	235	7.318
32	0.187	83	0.473	134	1.188	185	2.986	236	7.486
33	0.192	84	0.478	135	1.209	186	3.028	237	7.654
34	0.195	85	0.489	136	1.230	187	3.070	238	7.774
35	0.200	86	0.499	137	1.251	188	3.154	239	7.907
36	0.202	87	0.510	138	1.272	189	3.196	240	8.075
37	0.205	88	0.515	139	1.304	190	3.280	241	8.159
38	0.210	89	0.526	140	1.325	191	3.323	242	8.327
39	0.213	90	0.536	141	1.346	192	3.365	243	8.496
40	0.218	91	0.547	142	1.367	193	3.449	244	8.664
41	0.221	92	0.557	143	1.410	194	3.491	245	8.832
42	0.226	93	0.568	144	1.430	195	3.575	246	9.000
43	0.229	94	0.578	145	1.451	196	3.659	247	9.168
44	0.234	95	0.589	146	1.472	197	3.701	248	9.337
45	0.237	96	0.599	147	1.493	198	3.785	249	9.505
46	0.242	97	0.610	148	1.535	199	3.827	250	9.673
47	0.247	98	0.620	149	1.556	200	3.911	251	9.841
48	0.250	99	0.631	150	1.577	201	3.995	252	10.00
49	0.255	100	0.641	151	1.619	202	4.080		
50	0.260	101	0.652	152	1.640	203	4.122		

Table#16
Distomp EQ Freq [Hz]

Data	Value	Data	Value	Data	Value	Data	Value	Data	Value
4	20.0	29	85.0	54	355	79	1.50k	104	6.30k
5	21.2	30	90.0	55	375	80	1.60k	105	6.70k
6	22.4	31	95.0	56	400	81	1.70k	106	7.10k
7	23.6	32	100	57	425	82	1.80k	107	7.50k
8	25.0	33	106	58	450	83	1.90k	108	8.00k
9	26.5	34	112	59	475	84	2.00k	109	8.50k
10	28.0	35	118	60	500	85	2.12k	110	9.00k
11	30.0	36	125	61	530	86	2.24k	111	9.50k
12	31.5	37	132	62	560	87	2.36k	112	10.0k
13	33.5	38	140	63	600	88	2.50k	113	10.6k
14	35.5	39	150	64	630	89	2.65k	114	11.2k
15	37.5	40	160	65	670	90	2.80k	115	11.8k
16	40.0	41	170	66	710	91	3.00k	116	12.5k
17	42.5	42	180	67	750	92	3.15k	117	13.2k
18	45.0	43	190	68	800	93	3.35k	118	14.0k
19	47.5	44	200	69	850	94	3.55k	119	15.0k
20	50.0	45	212	70	900	95	3.75k	120	16.0k
21	53.0	46	224	71	950	96	4.00k	121	17.0k
22	56.0	47	236	72	1.00k	97	4.25k	122	18.0k
23	60.0	48	250	73	1.06k	98	4.50k	123	19.0k
24	63.0	49	265	74	1.12k	99	4.75k	124	20.0k
25	67.0	50	280	75	1.18k	100	5.00k		
26	71.0	51	300	76	1.25k	101	5.30k		
27	75.0	52	315	77	1.32k	102	5.60k		
28	80.0	53	335	78	1.40k	103	6.00k		

Table#17
EgMultiFx LFO Freq [Hz]

Data	Value	Data	Value	Data	Value	Data	Value
0	0.100	32	0.318	64	1.009	96	3.238
1	0.103	33	0.329	65	1.051	97	3.365
2	0.105	34	0.342	66	1.093	98	3.491
3	0.110	35	0.352	67	1.125	99	3.617
4	0.113	36	0.368	68	1.167	100	3.743
5	0.118	37	0.379	69	1.220	101	3.869
6	0.124	38	0.394	70	1.262	102	4.037
7	0.129	39	0.410	71	1.304	103	4.164
8	0.131	40	0.426	72	1.346	104	4.332
9	0.137	41	0.442	73	1.409	105	4.500
10	0.142	42	0.457	74	1.451	106	4.668
11	0.147	43	0.473	75	1.514	107	4.837
12	0.152	44	0.489	76	1.556	108	5.005
13	0.158	45	0.510	77	1.619	109	5.173
14	0.166	46	0.526	78	1.682	110	5.383
15	0.171	47	0.547	79	1.745	111	5.552
16	0.176	48	0.568	80	1.808	112	5.804
17	0.184	49	0.589	81	1.872	113	5.972
18	0.192	50	0.610	82	1.956	114	6.224
19	0.197	51	0.631	83	2.019	115	6.393
20	0.205	52	0.657	84	2.103	116	6.645
21	0.213	53	0.673	85	2.166	117	6.897
22	0.221	54	0.704	86	2.250	118	7.150
23	0.229	55	0.725	87	2.334	119	7.402
24	0.237	56	0.757	88	2.418	120	7.738
25	0.247	57	0.789	89	2.502	121	7.991
26	0.255	58	0.810	90	2.608	122	8.327
27	0.265	59	0.841	91	2.692	123	8.580
28	0.276	60	0.873	92	2.776	124	8.916
29	0.284	61	0.904	93	2.902	125	9.253
30	0.294	62	0.946	94	2.986	126	9.589
31	0.308	63	0.978	95	3.112	127	9.925

Table#18
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#19
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#20
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#21
VCM Wah Speed [Hz]

Data	Value	Data	Value	Data	Value	Data	Value	Data	Value
0	0.100	51	0.294	102	0.852	153	2.460	204	7.066
1	0.103	52	0.302	103	0.873	154	2.502	205	7.234
2	0.105	53	0.308	104	0.883	155	2.566	206	7.402
3	0.108	54	0.315	105	0.904	156	2.608	207	7.570
4	0.110	55	0.321	106	0.935	157	2.671	208	7.654
5	0.113	56	0.326	107	0.946	158	2.734	209	7.823
6	0.116	57	0.334	108	0.967	159	2.776	210	7.991
7	0.118	58	0.342	109	0.988	160	2.818	211	8.159
8	0.121	59	0.347	110	0.999	161	2.902	212	8.327
9	0.124	60	0.357	111	1.020	162	2.944	213	8.496
10	0.126	61	0.363	112	1.051	163	3.028	214	8.748
11	0.129	62	0.368	113	1.072	164	3.070	215	8.916
12	0.131	63	0.379	114	1.093	165	3.154	216	9.084
13	0.134	64	0.384	115	1.115	166	3.196	217	9.253
14	0.137	65	0.394	116	1.136	167	3.280	218	9.505
15	0.139	66	0.405	117	1.157	168	3.336	219	9.673
16	0.142	67	0.410	118	1.188	169	3.407	220	9.841
17	0.145	68	0.421	119	1.209	170	3.491	221	10.09
18	0.147	69	0.426	120	1.241	171	3.575	222	10.26
19	0.152	70	0.436	121	1.262	172	3.659	223	10.51
20	0.155	71	0.447	122	1.293	173	3.701	224	10.77
21	0.157	72	0.457	123	1.314	174	3.785	225	10.93
22	0.163	73	0.463	124	1.346	175	3.869	226	11.10
23	0.166	74	0.473	125	1.367	176	3.953	227	11.44
24	0.168	75	0.484	126	1.409	177	4.037	228	11.61
25	0.173	76	0.494	127	1.430	178	4.122	229	11.94
26	0.176	77	0.505	128	1.451	179	4.206	230	12.11
27	0.179	78	0.515	129	1.493	180	4.290	231	12.45
28	0.184	79	0.526	130	1.514	181	4.374	232	12.62
29	0.187	80	0.536	131	1.556	182	4.500	233	12.95
30	0.189	81	0.547	132	1.598	183	4.584	234	13.29
31	0.195	82	0.563	133	1.619	184	4.668	235	13.46
32	0.200	83	0.573	134	1.661	185	4.795	236	13.79
33	0.202	84	0.584	135	1.703	186	4.879	237	13.96
34	0.208	85	0.599	136	1.724	187	4.963	238	14.30
35	0.210	86	0.610	137	1.766	188	5.090	239	14.64
36	0.216	87	0.620	138	1.808	189	5.173	240	14.97
37	0.221	88	0.636	139	1.851	190	5.299	241	15.31
38	0.226	89	0.652	140	1.872	191	5.383	242	15.65
39	0.231	90	0.662	141	1.914	192	5.552	243	15.98
40	0.234	91	0.673	142	1.956	193	5.636	244	16.32
41	0.239	92	0.694	143	1.999	194	5.720	245	16.65
42	0.244	93	0.704	144	2.040	195	5.888	246	16.99
43	0.250	94	0.725	145	2.082	196	5.972	247	17.33
44	0.255	95	0.736	146	2.124	197	6.140	248	17.66
45	0.260	96	0.747	147	2.166	198	6.224	249	18.00
46	0.265	97	0.768	148	2.229	199	6.393	250	18.34
47	0.271	98	0.778	149	2.250	200	6.477	251	18.84
48	0.276	99	0.799	150	2.313	201	6.665	252	19.18
49	0.284	100	0.820	151	2.355	202	6.813	253	19.51
50	0.289	101	0.831	152	2.397	203	6.897	254	20.00

Table#22
Wah Release Time [ms]

Data	Value
52	10.0
53	15.0
54	25.0
55	35.0
56	45.0
57	55.0
58	65.0
59	75.0
60	85.0
61	100.0
62	115.0
63	140.0
64	170.0
65	230.0
66	340.0
67	680.0

Table#23
Real Rotary Windup/down Accel

Data	Value	Data	Value	Data	Value	Data	Value
14	0.21	47	0.73	80	1.25	113	1.78
15	0.22	48	0.75	81	1.27	114	1.79
16	0.24	49	0.76	82	1.29	115	1.81
17	0.25	50	0.78	83	1.30	116	1.83
18	0.27	51	0.79	84	1.32	117	1.84
19	0.29	52	0.81	85	1.33	118	1.86
20	0.30	53	0.83	86	1.35	119	1.87
21	0.32	54	0.84	87	1.37	120	1.89
22	0.33	55	0.86	88	1.38	121	1.90
23	0.35	56	0.87	89	1.40	122	1.92
24	0.37	57	0.89	90	1.41	123	1.94
25	0.38	58	0.90	91	1.43	124	1.95
26	0.40	59	0.92	92	1.44	125	1.97
27	0.41	60	0.94	93	1.46	126	1.98
28	0.43	61	0.95	94	1.48	127	2.00
29	0.44	62	0.97	95	1.49		
30	0.46	63	0.98	96	1.51		
31	0.48	64	1.00	97	1.52		
32	0.49	65	1.02	98	1.54		
33	0.51	66	1.03	99	1.56		
34	0.52	67	1.05	100	1.57		
35	0.54	68	1.06	101	1.59		
36	0.56	69	1.08	102	1.60		
37	0.57	70	1.10	103	1.62		
38	0.59	71	1.11	104	1.63		
39	0.60	72	1.13	105	1.65		
40	0.62	73	1.14	106	1.67		
41	0.63	74	1.16	107	1.68		
42	0.65	75	1.17	108	1.70		
43	0.67	76	1.19	109	1.71		
44	0.68	77	1.21	110	1.73		
45	0.70	78	1.22	111	1.75		
46	0.71	79	1.24	112	1.76		

Table#24
Real Rotary Woofer Speed Slow [rpm]

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	32.5	64	44.8	96	65.0
1	22.7	33	32.8	65	45.4	97	65.6
2	23.0	34	33.1	66	46.1	98	66.2
3	23.3	35	33.4	67	46.7	99	66.9
4	23.7	36	33.8	68	47.3	100	67.5
5	24.0	37	34.1	69	47.9	101	68.1
6	24.3	38	34.4	70	48.6	102	68.8
7	24.6	39	34.7	71	49.2	103	69.4
8	24.9	40	35.0	72	49.8	104	70.0
9	25.2	41	35.3	73	50.5	105	70.7
10	25.5	42	35.6	74	51.1	106	71.3
11	25.9	43	36.0	75	51.7	107	71.9
12	26.2	44	36.3	76	52.4	108	72.5
13	26.5	45	36.6	77	53.0	109	73.2
14	26.8	46	36.9	78	53.6	110	73.8
15	27.1	47	37.2	79	54.3	111	74.4
16	27.4	48	37.5	80	54.9	112	75.1
17	27.8	49	37.9	81	55.5	113	75.7
18	28.1	50	38.2	82	56.1	114	76.3
19	28.4	51	38.5	83	56.8	115	77.0
20	28.7	52	38.8	84	57.4	116	77.6
21	29.0	53	39.1	85	58.0	117	78.2
22	29.3	54	39.4	86	58.7	118	78.9
23	29.7	55	39.7	87	59.3	119	79.5
24	30.0	56	40.1	88	59.9	120	80.1
25	30.3	57	40.4	89	60.6	121	80.7
26	30.6	58	41.0	90	61.2	122	82.0
27	30.9	59	41.6	91	61.8	123	83.3
28	31.2	60	42.3	92	62.5	124	84.5
29	31.5	61	42.9	93	63.1	125	85.8
30	31.9	62	43.5	94	63.7	126	87.1
31	32.2	63	44.2	95	64.3	127	88.3

Table#25
Real Rotary Horn Speed Slow [rpm]

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	32.8	64	45.4	96	65.6
1	23.0	33	33.1	65	46.1	97	66.2
2	23.3	34	33.4	66	46.7	98	66.9
3	23.7	35	33.8	67	47.3	99	67.5
4	24.0	36	34.1	68	47.9	100	68.1
5	24.3	37	34.4	69	48.6	101	68.8
6	24.6	38	34.7	70	49.2	102	69.4
7	24.9	39	35.0	71	49.8	103	70.0
8	25.2	40	35.3	72	50.5	104	70.7
9	25.5	41	35.6	73	51.1	105	71.3
10	25.9	42	36.0	74	51.7	106	71.9
11	26.2	43	36.3	75	52.4	107	72.5
12	26.5	44	36.6	76	53.0	108	73.2
13	26.8	45	36.9	77	53.6	109	73.8
14	27.1	46	37.2	78	54.3	110	74.4
15	27.4	47	37.5	79	54.9	111	75.1
16	27.8	48	37.9	80	55.5	112	75.7
17	28.1	49	38.2	81	56.1	113	76.3
18	28.4	50	38.5	82	56.8	114	77.0
19	28.7	51	38.8	83	57.4	115	77.6
20	29.0	52	39.1	84	58.0	116	78.2
21	29.3	53	39.4	85	58.7	117	78.9
22	29.7	54	39.7	86	59.3	118	79.5
23	30.0	55	40.1	87	59.9	119	80.1
24	30.3	56	40.4	88	60.6	120	80.7
25	30.6	57	41.0	89	61.2	121	82.0
26	30.9	58	41.6	90	61.8	122	83.3
27	31.2	59	42.3	91	62.5	123	84.5
28	31.5	60	42.9	92	63.1	124	85.8
29	31.9	61	43.5	93	63.7	125	87.1
30	32.2	62	44.2	94	64.3	126	88.3
31	32.5	63	44.8	95	65.0	127	89.6

Table#26
Real Rotary Woofer Speed Fast [rpm]

Data	Value	Data	Value	Data	Value	Data	Value
1	189.3	33	270.0	65	378.5	97	540.0
2	191.8	34	272.5	66	383.6	98	545.1
3	194.3	35	275.1	67	388.6	99	550.1
4	196.8	36	277.6	68	393.7	100	555.2
5	199.4	37	280.1	69	398.7	101	560.2
6	201.9	38	282.6	70	403.7	102	565.2
7	204.4	39	285.1	71	408.8	103	570.3
8	206.9	40	287.7	72	413.8	104	575.3
9	209.4	41	290.2	73	418.9	105	580.4
10	212.0	42	292.7	74	423.9	106	585.4
11	214.5	43	295.2	75	429.0	107	590.5
12	217.0	44	297.8	76	434.0	108	595.5
13	219.5	45	300.3	77	439.1	109	600.6
14	222.1	46	302.8	78	444.1	110	605.6
15	224.6	47	305.3	79	449.2	111	610.7
16	227.1	48	307.9	80	454.2	112	615.7
17	229.6	49	310.4	81	459.3	113	620.8
18	232.2	50	312.9	82	464.3	114	625.8
19	234.7	51	315.4	83	469.4	115	630.9
20	237.2	52	318.0	84	474.4	116	635.9
21	239.7	53	320.5	85	479.5	117	640.9
22	242.2	54	323.0	86	484.5	118	646.0
23	244.8	55	328.0	87	489.5	119	656.1
24	247.3	56	333.1	88	494.6	120	666.2
25	249.8	57	338.1	89	499.6	121	676.3
26	252.3	58	343.2	90	504.7	122	686.4
27	254.9	59	348.2	91	509.7	123	696.5
28	257.4	60	353.3	92	514.8	124	706.6
29	259.9	61	358.3	93	519.8	125	716.7
30	262.4	62	363.4	94	524.9	126	726.7
31	265.0	63	368.4	95	529.9	127	736.8
32	267.5	64	373.5	96	535.0		

Table#27
Real Rotary Horn Speed Fast [rpm]

Data	Value	Data	Value	Data	Value	Data	Value
1	209.4	33	290.2	65	418.9	97	580.4
2	212.0	34	292.7	66	423.9	98	585.4
3	214.5	35	295.2	67	429.0	99	590.5
4	217.0	36	297.8	68	434.0	100	595.5
5	219.5	37	300.3	69	439.1	101	600.6
6	222.1	38	302.8	70	444.1	102	605.6
7	224.6	39	305.3	71	449.2	103	610.7
8	227.1	40	307.9	72	454.2	104	615.7
9	229.6	41	310.4	73	459.3	105	620.8
10	232.2	42	312.9	74	464.3	106	625.8
11	234.7	43	315.4	75	469.4	107	630.9
12	237.2	44	318.0	76	474.4	108	635.9
13	239.7	45	320.5	77	479.5	109	640.9
14	242.2	46	323.0	78	484.5	110	646.0
15	244.8	47	328.0	79	489.5	111	656.1
16	247.3	48	333.1	80	494.6	112	666.2
17	249.8	49	338.1	81	499.6	113	676.3
18	252.3	50	343.2	82	504.7	114	686.4
19	254.9	51	348.2	83	509.7	115	696.5
20	257.4	52	353.3	84	514.8	116	706.6
21	259.9	53	358.3	85	519.8	117	716.7
22	262.4	54	363.4	86	524.9	118	726.7
23	265.0	55	368.4	87	529.9	119	736.8
24	267.5	56	373.5	88	535.0	120	746.9
25	270.0	57	378.5	89	540.0	121	757.0
26	272.5	58	383.6	90	545.1	122	767.1
27	275.1	59	388.6	91	550.1	123	777.2
28	277.6	60	393.7	92	555.2	124	787.3
29	280.1	61	398.7	93	560.2	125	797.4
30	282.6	62	403.7	94	565.2	126	807.5
31	285.1	63	408.8	95	570.3	127	817.6
32	287.7	64	413.8	96	575.3		

Table#28
Rotary Sp1 Speed Slow [rpm]

Data	Value	Data	Value
0	0.0	32	81.0
1	2.4	33	83.4
2	4.8	34	85.8
3	7.8	35	88.2
4	10.2	36	90.6
5	12.6	37	93.6
6	15.0	38	96.0
7	17.4	39	98.4
8	20.4	40	100.8
9	22.8	41	103.2
10	25.2	42	106.2
11	27.6	43	108.6
12	30.6	44	111.0
13	33.0	45	113.4
14	35.4	46	116.4
15	37.8	47	118.8
16	40.2	48	121.2
17	43.2	49	123.6
18	45.6	50	126.0
19	48.0	51	129.0
20	50.4	52	131.4
21	52.8	53	133.8
22	55.8	54	136.2
23	58.2	55	138.6
24	60.6	56	141.6
25	63.0	57	144.0
26	65.4	58	146.4
27	68.4	59	148.8
28	70.8	60	151.2
29	73.2	61	154.2
30	75.6	62	156.6
31	78.0	63	159.0

Table#29
Rotary Sp1 Speed Fast [rpm]

Data	Value	Data	Value
64	161.4	96	504.6
65	166.8	97	525.0
66	171.6	98	544.8
67	176.4	99	565.2
68	181.8	100	585.6
69	186.6	101	606.0
70	192.0	102	648.0
71	196.8	103	684.0
72	202.2	104	726.0
73	207.0	105	768.0
74	211.8	106	810.0
75	217.2	107	846.0
76	222.0	108	888.0
77	232.2	109	930.0
78	242.4	110	972.0
79	252.6	111	1008.0
80	262.2	112	1050.0
81	272.4	113	1092.0
82	282.6	114	1170.0
83	292.8	115	1254.0
84	303.0	116	1332.0
85	313.2	117	1416.0
86	322.8	118	1494.0
87	333.0	119	1572.0
88	343.2	120	1656.0
89	363.6	121	1734.0
90	383.4	122	1818.0
91	403.8	123	1896.0
92	424.2	124	1980.0
93	444.0	125	2058.0
94	464.4	126	2220.0
95	484.8	127	2382.0

Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets / Tabella assegnazione dati degli effetti / Effect Data Assign-tabel / Tabela przypisania danych efektów

Table#30
Uni Comp Attack [ms]

Data	Value	Data	Value	Data	Value	Data	Value
0	0.010	32	0.096	64	0.927	96	8.920
1	0.011	33	0.103	65	0.995	97	9.574
2	0.012	34	0.111	66	1.068	98	10.28
3	0.013	35	0.119	67	1.146	99	11.03
4	0.014	36	0.128	68	1.230	100	11.84
5	0.015	37	0.137	69	1.320	101	12.71
6	0.016	38	0.147	70	1.417	102	13.64
7	0.017	39	0.158	71	1.521	103	14.64
8	0.018	40	0.170	72	1.632	104	15.71
9	0.019	41	0.182	73	1.752	105	16.86
10	0.020	42	0.195	74	1.880	106	18.10
11	0.022	43	0.210	75	2.018	107	19.43
12	0.023	44	0.225	76	2.166	108	20.85
13	0.025	45	0.242	77	2.325	109	22.38
14	0.027	46	0.259	78	2.496	110	24.02
15	0.029	47	0.278	79	2.679	111	25.79
16	0.031	48	0.299	80	2.875	112	27.68
17	0.033	49	0.321	81	3.086	113	29.71
18	0.036	50	0.344	82	3.312	114	31.88
19	0.038	51	0.369	83	3.555	115	34.22
20	0.041	52	0.396	84	3.816	116	36.73
21	0.044	53	0.425	85	4.095	117	39.42
22	0.047	54	0.457	86	4.396	118	42.32
23	0.051	55	0.490	87	4.718	119	45.42
24	0.055	56	0.526	88	5.064	120	48.75
25	0.059	57	0.565	89	5.435	121	52.32
26	0.063	58	0.606	90	5.834	122	56.16
27	0.068	59	0.650	91	6.262	123	60.28
28	0.073	60	0.698	92	6.721	124	64.70
29	0.078	61	0.749	93	7.214	125	69.44
30	0.084	62	0.804	94	7.743	126	74.53
31	0.090	63	0.863	95	8.311	127	80.00

Table#31
Uni Comp Release [ms]

Data	Value	Data	Value	Data	Value	Data	Value
0	6.250	32	22.45	64	80.61	96	289.5
1	6.505	33	23.36	65	83.90	97	301.3
2	6.770	34	24.31	66	87.32	98	313.6
3	7.046	35	25.30	67	90.88	99	326.4
4	7.333	36	26.34	68	94.58	100	339.7
5	7.632	37	27.41	69	98.44	101	353.5
6	7.943	38	28.53	70	102.4	102	367.9
7	8.267	39	29.69	71	106.6	103	382.9
8	8.604	40	30.90	72	111.0	104	398.5
9	8.955	41	32.16	73	115.5	105	414.8
10	9.320	42	33.47	74	120.2	106	431.7
11	9.700	43	34.83	75	125.1	107	449.3
12	10.09	44	36.25	76	130.2	108	467.6
13	10.51	45	37.73	77	135.5	109	486.7
14	10.93	46	39.27	78	141.0	110	506.5
15	11.38	47	40.87	79	146.8	111	527.2
16	11.84	48	42.54	80	152.8	112	548.6
17	12.33	49	44.27	81	159.0	113	571.0
18	12.83	50	46.08	82	165.5	114	594.3
19	13.35	51	47.95	83	172.2	115	618.5
20	13.90	52	49.91	84	179.2	116	643.7
21	14.46	53	51.94	85	186.5	117	670.0
22	15.05	54	54.06	86	194.2	118	697.3
23	15.67	55	56.26	87	202.1	119	725.7
24	16.31	56	58.56	88	210.3	120	755.3
25	16.97	57	60.94	89	218.9	121	786.1
26	17.66	58	63.43	90	227.8	122	818.1
27	18.38	59	66.01	91	237.1	123	851.4
28	19.13	60	68.71	92	246.7	124	886.2
29	19.91	61	71.51	93	256.8	125	922.3
30	20.72	62	74.42	94	267.3	126	959.9
31	21.57	63	77.45	95	278.2	127	999.0

Table#32
Uni Comp Ratio

Data	Value	Data	Value	Data	Value	Data	Value
0	1.00	32	2.60	64	4.30	96	18.00
1	1.05	33	2.65	65	4.40	97	19.00
2	1.10	34	2.70	66	4.50	98	20.00
3	1.15	35	2.75	67	4.60	99	21.00
4	1.20	36	2.80	68	4.70	100	22.00
5	1.25	37	2.85	69	4.80	101	24.00
6	1.30	38	2.90	70	4.90	102	26.00
7	1.35	39	2.95	71	5.00	103	28.00
8	1.40	40	3.00	72	5.20	104	30.00
9	1.45	41	3.05	73	5.40	105	32.00
10	1.50	42	3.10	74	5.60	106	34.00
11	1.55	43	3.15	75	5.80	107	36.00
12	1.60	44	3.20	76	6.00	108	38.00
13	1.65	45	3.25	77	6.20	109	40.00
14	1.70	46	3.30	78	6.40	110	45.00
15	1.75	47	3.35	79	6.60	111	50.00
16	1.80	48	3.40	80	6.80	112	55.00
17	1.85	49	3.45	81	7.00	113	60.00
18	1.90	50	3.50	82	7.50	114	65.00
19	1.95	51	3.55	83	8.00	115	70.00
20	2.00	52	3.60	84	8.50	116	75.00
21	2.05	53	3.65	85	9.00	117	80.00
22	2.10	54	3.70	86	9.50	118	85.00
23	2.15	55	3.75	87	10.00	119	90.00
24	2.20	56	3.80	88	10.50	120	95.00
25	2.25	57	3.85	89	11.00	121	100.00
26	2.30	58	3.90	90	12.00	122	120.00
27	2.35	59	3.95	91	13.00	123	150.00
28	2.40	60	4.00	92	14.00	124	200.00
29	2.45	61	4.05	93	15.00	125	300.00
30	2.50	62	4.10	94	16.00	126	500.00
31	2.55	63	4.20	95	17.00	127	∞

Table#33
Uni Comp EQ Q

Data	Value	Data	Value	Data	Value	Data	Value
0	0.100	32	0.322	64	1.037	96	3.340
1	0.104	33	0.334	65	1.076	97	3.465
2	0.108	34	0.346	66	1.116	98	3.594
3	0.112	35	0.359	67	1.157	99	3.728
4	0.116	36	0.373	68	1.201	100	3.866
5	0.120	37	0.387	69	1.245	101	4.010
6	0.125	38	0.401	70	1.292	102	4.160
7	0.129	39	0.416	71	1.340	103	4.314
8	0.134	40	0.431	72	1.389	104	4.475
9	0.139	41	0.448	73	1.441	105	4.642
10	0.144	42	0.464	74	1.495	106	4.814
11	0.149	43	0.481	75	1.551	107	4.994
12	0.155	44	0.499	76	1.608	108	5.179
13	0.161	45	0.518	77	1.668	109	5.372
14	0.167	46	0.537	78	1.730	110	5.572
15	0.173	47	0.557	79	1.795	111	5.780
16	0.179	48	0.578	80	1.861	112	5.995
17	0.186	49	0.599	81	1.931	113	6.218
18	0.193	50	0.622	82	2.003	114	6.449
19	0.200	51	0.645	83	2.077	115	6.690
20	0.208	52	0.669	84	2.154	116	6.939
21	0.215	53	0.694	85	2.235	117	7.197
22	0.223	54	0.720	86	2.318	118	7.465
23	0.232	55	0.746	87	2.404	119	7.743
24	0.240	56	0.774	88	2.494	120	8.031
25	0.249	57	0.803	89	2.586	121	8.330
26	0.259	58	0.833	90	2.683	122	8.640
27	0.268	59	0.864	91	2.783	123	8.962
28	0.278	60	0.896	92	2.886	124	9.295
29	0.289	61	0.930	93	2.994	125	9.641
30	0.299	62	0.964	94	3.105	126	10.00
31	0.311	63	1.000	95	3.221		

Table#34
Uni Comp EQ Freq [Hz]

Data	Value	Data	Value	Data	Value	Data	Value
0	11.89	32	74.99	64	473.2	96	2.985k
1	12.59	33	79.43	65	501.2	97	3.162k
2	13.34	34	84.14	66	530.9	98	3.350k
3	14.13	35	89.13	67	562.3	99	3.548k
4	14.96	36	94.41	68	595.7	100	3.758k
5	15.85	37	100.0	69	631.0	101	3.981k
6	16.79	38	105.9	70	668.3	102	4.217k
7	17.78	39	112.2	71	707.9	103	4.467k
8	18.84	40	118.9	72	749.9	104	4.732k
9	19.95	41	125.9	73	794.3	105	5.012k
10	21.13	42	133.4	74	841.4	106	5.309k
11	22.39	43	141.3	75	891.3	107	5.623k
12	23.71	44	149.6	76	944.1	108	5.957k
13	25.12	45	158.5	77	1.000k	109	6.310k
14	26.61	46	167.9	78	1.059k	110	6.683k
15	28.18	47	177.8	79	1.122k	111	7.079k
16	29.85	48	188.4	80	1.189k	112	7.499k
17	31.62	49	199.5	81	1.259k	113	7.943k
18	33.50	50	211.3	82	1.334k	114	8.414k
19	35.48	51	223.9	83	1.413k	115	8.913k
20	37.58	52	237.1	84	1.496k	116	9.441k
21	39.81	53	251.2	85	1.585k	117	10.00k
22	42.17	54	266.1	86	1.679k	118	10.59k
23	44.67	55	281.8	87	1.778k	119	11.22k
24	47.32	56	298.5	88	1.884k	120	11.89k
25	50.12	57	316.2	89	1.995k	121	12.59k
26	53.09	58	335.0	90	2.113k	122	13.34k
27	56.23	59	354.8	91	2.239k	123	14.13k
28	59.57	60	375.8	92	2.371k	124	14.96k
29	63.10	61	398.1	93	2.512k	125	15.85k
30	66.83	62	421.7	94	2.661k	126	16.79k
31	70.79	63	446.7	95	2.818k	127	17.78k

Table#35
Uni Comp Post HPF [Hz]

Data	Value	Data	Value	Data	Value	Data	Value
0	Off	32	3.02	64	9.12	96	27.54
1	1.04	33	3.13	65	9.44	97	28.51
2	1.07	34	3.24	66	9.77	98	29.51
3	1.11	35	3.35	67	10.12	99	30.55
4	1.15	36	3.47	68	10.47	100	31.62
5	1.19	37	3.59	69	10.84	101	32.73
6	1.23	38	3.72	70	11.22	102	33.88
7	1.27	39	3.85	71	11.61	103	35.08
8	1.32	40	3.98	72	12.02	104	36.31
9	1.36	41	4.12	73	12.45	105	37.58
10	1.41	42	4.27	74	12.88	106	38.90
11	1.46	43	4.42	75	13.34	107	40.27
12	1.51	44	4.57	76	13.80	108	41.69
13	1.57	45	4.73	77	14.29	109	43.15
14	1.62	46	4.90	78	14.79	110	44.67
15	1.68	47	5.07	79	15.31	111	46.24
16	1.74	48	5.25	80	15.85	112	47.86
17	1.80	49	5.43	81	16.41	113	49.55
18	1.86	50	5.62	82	16.98	114	51.29
19	1.93	51	5.82	83	17.58	115	53.09
20	2.00	52	6.03	84	18.20	116	54.95
21	2.07	53	6.24	85	18.84	117	56.89
22	2.14	54	6.46	86	19.50	118	58.88
23	2.21	55	6.68	87	20.18	119	60.95
24	2.29	56	6.92	88	20.89	120	63.10
25	2.37	57	7.16	89	21.63	121	65.31
26	2.45	58	7.41	90	22.39	122	67.61
27	2.54	59	7.67	91	23.17	123	69.98
28	2.63	60	7.94	92	23.99	124	72.44
29	2.72	61	8.22	93	24.83	125	74.99
30	2.82	62	8.51	94	25.70	126	77.62
31	2.92	63	8.81	95	26.61	127	80.35

Table#36
VCM Comp Level [dB]

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

Table#37
VCM Comp Attack Time [ms]

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

Table#38
VCM Comp Release Time [ms]

Data	Value	Data	Value	Data	Value	Data	Value	Data	Value
0	10.88	41	33.30	82	100.54	123	212.60	164	369.50
1	10.90	42	34.40	83	102.74	124	215.90	165	373.88
2	10.94	43	35.54	84	104.96	125	219.22	166	378.30
3	11.00	44	36.70	85	107.22	126	222.56	167	382.74
4	11.10	45	37.88	86	109.50	127	225.94	168	387.20
5	11.22	46	39.10	87	111.80	128	229.34	169	391.70
6	11.36	47	40.34	88	114.14	129	232.76	170	396.22
7	11.54	48	41.60	89	116.50	130	236.22	171	400.76
8	11.74	49	42.90	90	118.88	131	239.70	172	405.34
9	11.96	50	44.22	91	121.30	132	243.20	173	409.94
10	12.22	51	45.56	92	123.74	133	246.74	174	414.56
11	12.50	52	46.94	93	126.20	134	250.30	175	419.22
12	12.80	53	48.34	94	128.70	135	253.88	176	423.90
13	13.14	54	49.76	95	131.22	136	257.50	177	428.60
14	13.50	55	51.22	96	133.76	137	261.14	178	433.34
15	13.88	56	52.70	97	136.34	138	264.80	179	438.10
16	14.30	57	54.20	98	138.94	139	268.50	180	442.88
17	14.74	58	55.74	99	141.56	140	272.22	181	447.70
18	15.20	59	57.30	100	144.22	141	275.96	182	452.54
19	15.70	60	58.88	101	146.90	142	279.74	183	457.40
20	16.22	61	60.50	102	149.60	143	283.54	184	462.30
21	16.76	62	62.14	103	152.34	144	287.36	185	467.22
22	17.34	63	63.80	104	155.10	145	291.22	186	472.16
23	17.94	64	65.50	105	157.88	146	295.10	187	477.14
24	18.56	65	67.22	106	160.70	147	299.00	188	482.14
25	19.22	66	68.96	107	163.54	148	302.94	189	487.16
26	19.90	67	70.74	108	166.40	149	306.90	190	492.22
27	20.60	68	72.54	109	169.30	150	310.88	191	497.30
28	21.34	69	74.36	110	172.22	151	314.90	192	502.40
29	22.10	70	76.22	111	175.16	152	318.94	193	507.54
30	22.88	71	78.10	112	178.14	153	323.00	194	512.70
31	23.70	72	80.00	113	181.14	154	327.10	195	517.88
32	24.54	73	81.94	114	184.16	155	331.22	196	523.10
33	25.40	74	83.90	115	187.22	156	335.36	197	528.34
34	26.30	75	85.88	116	190.30	157	339.54	198	533.60
35	27.22	76	87.90	117	193.40	158	343.74	199	538.90
36	28.16	77	89.94	118	196.54	159	347.96	200	544.22
37	29.14	78	92.00	119	199.70	160	352.22		
38	30.14	79	94.10	120	202.88	161	356.50		
39	31.16	80	96.22	121	206.10	162	360.80		
40	32.22	81	98.36	122	209.34	163	365.14		

Table#39
LO-FI Sampling Frequency Control [Hz]

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

Table#40
Ring Mod OSC Freq Course [Hz]

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

Keyboard Harmony/Arpeggio Type List / Tastatur Harmonie/Liste der Arpeggio-Typen / Harmonie clavier/Liste de types d'arpège / Armonia della tastiera/Elenco dei tipi di arpeggio / Toetsenbord Harmonie/Lijst met arpeggiotypen / Harmonia klawiatury/Lista rodzajów arpeggia

Category	Name
Harmony	Standard Duet 1
	Standard Duet 2
	Standard Trio
	Full Chord
	Rock Duet
	Country Duet 1
	Country Duet 2
	Country Trio
	Block
	4-Way Close 1
	4-Way Close 2
	4-Way Close 3
	4-Way Close 4
	4-Way Open 1
	4-Way Open 2
	4-Way Open 3
	1+5
	Octave
	Strum
	Multi Assign
Echo	Echo
	Tremolo
	Trill
Arpeggio / Up&Down	Up Octave 1
	Up Octave 2
	Up Octave 3
	Up Octave 4
	Down Octave 1
	Down Octave 2
	Down Octave 3
	Down Octave 4
	Up&Down A Octave 1
	Up&Down A Octave 2
	Up&Down A Octave 3
	Up&Down A Octave 4
	Up&Down B Octave 1
	Up&Down B Octave 2
	Up&Down B Octave 3
	Up&Down B Octave 4
	2 Octave Up
	4 Octave Up
	Up&Down 1
	Up&Down 2
	Up&Down 3
	Up&Down 4
	Up&Random 1
	Up&Random 2
	Up&Random 3
	Up&Random 4
Arpeggio / SynthSeq1	Classic Arpeggio 1
	Classic Arpeggio 2
	Classic Arpeggio 3
	Classic Arpeggio 4
	Classic Arpeggio 5
	Synth Riff Arpeggio 1
	Synth Riff Arpeggio 2
	Synth Riff Arpeggio 3
	Synth Riff Arpeggio 4
	Synth Riff Arpeggio 5
	Melodic Arpeggio 1
	Melodic Arpeggio 2
	Melodic Arpeggio 3
	Melodic Arpeggio 4
	Melodic Arpeggio 5
Arpeggio / SynthSeq2	Synth Sequence 1
	Synth Sequence 2
	Synth Sequence 3
	Synth Sequence 4

Category	Name
Arpeggio / SynthSeq2	Synth Sequence 5
	Synth Sequence 6
	Synth Sequence 7
	Synth Sequence 8
	Synth Sequence 9
	Synth Sequence 10
	Synth Sequence 11
	Synth Sequence 12
	Synth Sequence 13
	Octave Sequence 1
	Octave Sequence 2
	Octave Sequence 3
	Octave Sequence 4
	Octave Sequence 5
	Mute Arpeggio 1
	Mute Arpeggio 2
	Mute Arpeggio 3
	Sequence S&H 1
	Sequence S&H 2
	Poly Arpeggio 1
	Poly Arpeggio 2
	Syncopation 1
	Syncopation 2
	X-Sweep 1
	X-Sweep 2
	X-Sweep 3
Arpeggio / ChordSeq1	Chord Arpeggio 1
	Chord Arpeggio 2
	Chord Arpeggio 3
	Chord Arpeggio 4
	Chord Arpeggio 5
	Chord Arpeggio 6
	Chord Arpeggio 7
	Chord Arpeggio 8
	Chord Arpeggio 9
	Chord Arpeggio 10
	Chord Arpeggio 11
	Chord Arpeggio 12
	Chord Arpeggio 13
	Chord Random 1
	Chord Random 2
	Chillout 1
	Chillout 2
	Chillout 3
	Chillout 4
	Chillout 5
	Chillout 6
	Chillout 7
	Chillout 8
	Chillout 9
	Chillout 10
Arpeggio / ChordSeq2	Synth Chord 1
	Synth Chord 2
	Synth Chord 3
	Synth Chord 4
	Synth Chord 5
	Synth Chord 6
	Synth Chord 7
	Synth Chord 8
	Synth Chord 9
	Synth Chord 10
	Synth Chord 11
	Synth Chord 12
	Synth Chord 13
	Synth Chord 14
	Synth Chord 15
Arpeggio / Trance	Trance 1
	Trance 2

Category	Name
Arpeggio / Trance	Trance 3
	Trance 4
	Trance 5
	Trance 6
	Trance 7
	Trance 8
	Trance 9
	Trance 10
	Trance 11
	Trance 12
	Trance 13
	Trance 14
	Trance 15
	Trance 16
	Trance 17
	Dream Dance 1
	Dream Dance 2
	Techno
Arpeggio / Electro	Electro 1
	Electro 2
	Electro 3
	Electro 4
	Electro 5
	Electro 6
	Electro 7
	Electro 8
	Electro 9
	Electro 10
	Electro 11
	Electro 12
	Electro 13
	Electro 14
	Electro 15
	Electro 16
	Electro 17
	Acid 1
	Acid 2
	Acid 3
Arpeggio / Filter&Gate	Filter Control 1
	Filter Control 2
	Filter Control 3
	Filter Control 4
	Filter Control 5
	Filter Control 6
	Filter Control 7
	Filter Control 8
	Filter Control 9
	Filter Control 10
	Gate Control 1
	Gate Control 2
	Gate Control 3
	Gate Control 4
	Gate Control 5
	Gate Control 6
	Gate Control 7
	Gate Control 8
	Gate Control 9
	Gate Control 10
Arpeggio / Guitar	Finger Pickin 1
	Finger Pickin 2
	Finger Pickin 3
	Finger Pickin 4
	Finger Pickin 5
	Finger Pickin 6
	Finger Pickin 7
	Finger Pickin Swing 1
	Finger Pickin Swing 2
	Finger Pickin Swing 3

Category	Name
Arpeggio / MegaGuitar	Strumming 1
	Strumming 2
	Strumming 3
	Strumming 4
	Strumming 5
	Strumming 6
	Strumming 7
	Strumming Swing 1
	Strumming Swing 2
	Strumming Swing 3
	Funk Guitar 1
	Funk Guitar 2
	Funk Guitar 3
	Funk Guitar 4
	Funk Guitar 5
Arpeggio / Keyboard	Piano Arpeggio 1
	Piano Arpeggio 2
	Piano Arpeggio 3
	Piano Arpeggio 4
	Piano Arpeggio 5
	Piano Arpeggio 6
	Piano Arpeggio 7
	Piano Arpeggio 8
	Piano Arpeggio 9
	Piano Arpeggio 10
	Piano Arpeggio 11
	Piano Arpeggio 12
	Piano Arpeggio 13
	Piano Arpeggio 14
	Piano Arpeggio 15
	Piano Club 1
	Piano Club 2
	Clavi 1
	Clavi 2
	Clavi 3

Vocal Harmony Type List

Category	Type Name	Description	MSB	LSB	Default Setting of Vocal Harmony On/Off	Default Setting of Vocal Effect On/Off
Vocal Harmony	DuetHarmony	Standard setting for lead vocal plus 1 harmony part with vibrato. Useful for many music genres.	12	49	ON	OFF
	StandardHarmony	Standard setting for lead vocal plus 2 or 3 harmony parts with vibrato. Useful for many music genres.	12	50	ON	OFF
	EasyHarmony	Standard setting for lead vocal plus 2 simple harmony parts with vibrato. Useful for many music genres.	12	51	ON	ON
	LightHarmony	A light sound with 2 or 3 harmony parts on the lead vocal pitch.	12	52	ON	OFF
	StudioSingers	Lead vocal with harmony with suitable EQ and less reverb, good for studio productions.	12	57	ON	ON
	QuartetHarmony	Standard setting for lead vocal plus 3 harmony parts with vibrato. Useful for many music genres.	12	53	ON	OFF
	BigHarmony	3 harmony parts overlap the lead vocals, makes a powerful harmony. Useful for many music genres.	12	54	ON	OFF
	BigAcapella	Characteristic acapella sound of lead vocal + 3 voice open harmony (2 voice harmony + bass part.)	12	55	ON	OFF
	BigChoir	A powerful sound with 2 or 3 harmony parts on the lead vocal pitch.	12	56	ON	ON
	VocoderSchlager	Vocoder sound for harmony in Schlager music.	12	58	ON	OFF
	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	Good for studio productions with suitable EQ setting and less 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
	DestinyPop	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" button on in the Vocal Harmony display, and it add harmony parts with Vocal Doubler effect.	12	34	OFF	ON
	VocoderVH	Standard vocoder setting; ideal for controlling harmony notes with "UPPER" part.	12	6	ON	OFF
	VocoderMono	Standard vocoder setting; ideal for controlling with "UPPER" part. You can play mono (single-note) melodies.	12	7	ON	OFF
	Rock&Roll	Good for Rock&Roll songs from the 50's and 60's with typical delay sound. Turn the "Harmony" button on in the Vocal Harmony display, and it add harmony parts with Blues chords.	12	35	OFF	ON
	TempoCross	Tempo Cross Delay on lead vocal. Turn the "Harmony" on the Vocal Harmony display 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" button on in the Vocal Harmony display, and it add Harmony 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; use as old fashioned gramophone sound.	12	40	ON	ON
	PokerPhaser	Good for modern Pop songs using 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 C major scale and the harmony parts will create suitable chord notes based on the C major scale. You can edit the key root and type by "Harmony Assign" setting on the Vocal Harmony display.	12	10	ON	OFF
	BalladChoir	Good for Ballad backing vocals with long reverb time.	12	11	ON	ON
	ChurchChoir	Good for standard church songs and Christmas songs with long reverb time; 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 dominant 7th feel.	12	14	ON	ON
	CosmicChoir	Extreme phasing 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&B Diva	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. Change volume of Harm.3 for an additional (3rd) part below.	12	18	ON	ON
	QueenOfPop	Good for Pop and R&B songs using Tempo Delay. Turn the "Harmony" button on in the Vocal Harmony display, and it add 2nd Voice.	12	43	OFF	ON
	Bob->Mary	Male singer can sound like Female voice with long romantic reverb. Use "Balance" on the Vocal Harmony display to add a male duet partner.	12	19	ON	ON
	Mary->Bob	Female singer can sound like Male voice with short reverb. Use "Balance" on the Vocal Harmony display to add a female duet partner.	12	20	ON	OFF
	FlangingVocals	Useful for modern Pop, Rock and Dance music.	12	44	OFF	ON
	JazzySingers	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	Want to be a child again? 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
	BohemianVocoder	Tempo flanging Vocoder Type; good for Rock or Pop songs and Intros.	12	47	ON	ON
	RobotVoice	Do you want to sound like a robot? This is the setting. Use Harm.3 for variation.	12	48	ON	ON

Category	Type Name	Description	MSB	LSB	Default Setting of Vocal Harmony On/Off	Default Setting of Vocal Effect On/Off
Vocal Harmony	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	Bypass without any harmonies and effects.	64	0	OFF	OFF
Synth Vocoder	MonsterPad	Big vocoder sound with added octave for playing single notes in the lower keyboard range.	13	11	ON	ON
	DigiStack	Classic soft vocoder sound with added noise for better speech intelligibility.	13	18	ON	ON
	Reflecting	Strong detuned effect makes atmospheric vocoder sound.	13	23	ON	ON
	MonsterFX	Vocoder sound with phaser for vocal sound effects.	13	28	ON	ON
	PhatStack	Strongly detuned vocoder sound with a mixture of natural and electronic vocal sound.	13	29	ON	ON
	UniVCO	Spacious ensemble vocoder sound with added noise for better speech intelligibility.	13	31	ON	ON
	JP Saw	Slightly detuned vocoder sound for vocal sound effects.	13	34	ON	ON
	PulseWave10	Classic vocoder sound with a mixture of natural and electronic vocal sound.	13	35	ON	ON
	PulseWave25	Classic vocoder sound with phaser.	13	36	ON	ON
	DigiWave	Classic vocoder sound with upshifted formants for vocal sound effects.	13	37	ON	ON
	FatSaw	Fat synth vocoder sound with fat saw tooth wave sound.	13	1	ON	ON
	SimpleSaw	Simple synth vocoder sound with simple saw tooth wave sound.	13	0	ON	ON
	SyncSaw	Sync sound image. You can feel the phaser sound as well.	13	2	ON	ON
	StrongDetune	Strong detuned Sound.	13	3	ON	ON
	VP Pad	Pad oriented synth vocoder sound.	13	4	ON	ON
	ChoirWithYou	Choir oriented synth vocoder. You can hear your own voice as well.	13	5	ON	ON
	Organ	Organ oriented synth vocoder sound.	13	6	ON	ON
	Sweeping	Produces a sweeping sound image.	13	7	ON	ON
	Atmosphere	Pad oriented synth vocoder sound with soft pad sound.	13	8	ON	ON
	AmbientFX	Richly textured sound.	13	9	ON	ON

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. 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. 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, HARM. 1, 2 and 3 can be independently selected for use for duets. It can also be used for octave transposing. Basically, the highest tone (HARM.1) is an octave above the lowest tone (HARM.3), and this tone (HARM.1 or HARM.3) 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 (HARM.1) is an octave above the lowest tone (HARM.3). 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. HARM.1 is a tone above and nearest the input pitch. HARM.2, tone which is below the input pitch and nearest the input pitch, handles a major triad as add 6th chord. HARM.3 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.
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. HARM.1 is a tone above and nearest the input pitch. HARM.2, 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. HARM.1 is harmony of above tone with priority on the chord character. HARM.2, harmony near the below side, handles a major triad as add 6th chord, and since it handles the major second as a scale tone, 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.

Type Name	Description
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.

Vocal Effect Type List

Type Name	Description	MSB	LSB
Romantic Reverb	Long reverb for vocal part. Romantic image.	1	0
80s Pop Reverb	Long reverb for vocal part. 80's pop image.	1	16
Room	Reverb simulating the acoustics of a room.	2	0
Concert Stage	Reverb simulating the concert stage.	3	0
Plate	Reverb simulating a plate reverb unit.	4	0
Vocal Doubler	Immediate delay with center focused feeling.	5	16
Stereo Spread	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
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 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
Tempo Flanger	Tempo-synchronized flanger.	107	0
Tempo Phaser	Tempo-synchronized phaser.	108	0
Tempo Auto Pan	Tempo-synchronized auto pan.	121	0
No Effect	No effect.	0	0

Harmony Assign Parameters (for Vocal Harmony Types)

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.	C	Determines the root key for the transposition. Use this in combination with Key Type below to enable modal scale harmony transposition.
	C#	
	D	
	D#	
	E	
	F	
	F#	
	G	
	G#	
	A	
	A#	
	B	
Key Type * These are effective only When the Chordal Type parameter is set to Scale Diatonic.	Maj	Determines the scale type for the transposition. Use this in combination with Key Root above to enable modal scale harmony transposition.
	min(Natural)	
	min(Harmonic)	

Detail Setting Parameters (for Vocal Harmony Types)

Parameter	Value	Description
Pitch Correct Mode	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.
Humanize	Off	The harmony will not be humanized.
	1	The harmony will be humanized so as to feel more natural. An authentic-sounding widening impression of more people playing.effect will be applied, giving the impression of more people playing.
	2	The harmony will be humanized so as to have a more distinct groove. Even faster passages will retain their rhythmic essence.
	3	The harmony will reflect the way in which vocalist and back chorus interact, with the lead be slightly relaxed.vocal out front. In addition, the timing will be slightly relaxed.
Lead Pitch Detect Speed /Harm Pitch Detect Speed	as Mic Setting	This setting gives priority to the speed which is set on the VOCAL page of the MIC SETTING display.
	1(Slow)	This setting responds most slowly to pitch changes, and even if the vocal is slightly off pitch, the harmony easily follows.
	2	This setting responds relatively slowly to pitch changes, and even if the vocal is slightly off pitch, the harmony easily follows.
	3	This setting responds relatively quickly to pitch changes, and even if the vocal is slightly off pitch, the harmony easily follows.
	4(Normal)	This setting responds relatively quickly to pitch changes, and pitch detection is moderately precise.
	5	This setting responds a little quickly to pitch changes, and even if the vocal is slightly off pitch, the harmony easily follows.
	6	This setting responds a little quickly to pitch changes, and pitch detection is moderately precise.
	7	This setting responds a little quickly to pitch changes, and sensitivity of pitch detection is slightly low.
	8	This setting responds a little quickly to pitch changes, and sensitivity of pitch detection is slightly high.
	9	This setting responds fairly quickly to pitch changes, and even if the vocal is slightly off pitch, the harmony easily follows.
	10	This setting responds a little quickly to pitch changes, and pitch detection is moderately precise.
	11	This setting responds a little quickly to pitch changes, and sensitivity of pitch detection is slightly low.
	12	This setting responds a little quickly to pitch changes, and sensitivity of pitch detection is slightly high.
	13	This setting responds quickly to pitch changes, and sensitivity of pitch detection is slightly high.
	14	This setting responds even more quickly to pitch changes, and sensitivity of pitch detection is slightly high.
	15(Fast)	This setting responds even more quickly to pitch changes, and even if the vocal is slightly off however, sensitivity is high.pitch, the harmony easily follows; however, sensitivity is high.
Harmony Effect	Thru	This is a bypass setting. It has no harmony effect.
	Basic	This setting is suited for male vocalists.
	Lite	This setting is suited for male vocalists. It attenuates the bass range and provides a light image.
	Female	This setting is suited for female vocalists.
	Female Lite	This setting is suited for female vocalists. It attenuates the bass range and provides a light image.
	EQ Hi	This EQ setting emphasizes the treble range.
	EQ HiLo	This EQ setting emphasizes the treble and bass ranges.
	EQ Heavy	This EQ setting has a heavy feeling.
	EQ Lite	This EQ setting has a light feeling, while emphasizing the bass range.
	EQ Mid	This EQ setting emphasizes the mid range.
	EQ Wide	This is a well-balanced EQ setting which covers a wide spectrum range.
	Cmp	This compresses strong peaks for a narrower dynamic range.
	Cmp&EQ Hi	This EQ setting emphasizes the treble range. It also compresses strong peaks for a narrower dynamic range.
	Cmp&EQ HiLo	This EQ setting emphasizes the treble and bass ranges. It also compresses strong peaks for a narrower dynamic range.
	Cmp&EQ Heavy	This EQ setting has a heavy feel. It also uses compresses strong peaks for a narrower dynamic range.
	Cmp&EQ Lite	This EQ setting has a light feel, while emphasizing the bass range. It also compresses strong peaks for a narrower dynamic range.
	Cmp&EQ Mid	An EQ setting which emphasizes the mid range, it also compresses strong peaks for a narrower dynamic range.
	Cmp&EQ Wide	This is a well-balanced EQ setting covering a wide range. It also compress strong peaks for a narrower dynamic range.
	Cmp&EQ Solid	This compresses strong peaks and consonant sounds, etc.
Harmony Stability	Dynamic	This tends to add harmony with motion according to the input sound.
	Stable	This has a relatively stable sound with little harmony motion.
Lead Vibrato Depth	0 – 127	This specifies the vibrato depth of the lead sound.
Harm Vibrato Depth	0 – 127	This specifies the vibrato depth of the harmony sound.
Vibrato Speed	0 – 127	It specifies the vibrato speed of both the lead and harmony sounds.
Vibrato Delay	0 – 127	It specifies the vibrato delay of both the lead and harmony sounds.

Vocal Effect Parameter List

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

Romantic Reverb, 80s Pop Reverb, Room, Concert 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 Time	0.1ms – 99.3ms	0	63	Table#2
4	HPF Cutoff Frequency	Thru, 22Hz – 8.0kHz	0	52	Table#3
5	LPF Cutoff Frequency	1.0kHz – 18kHz, Thru	34	60	Table#3
6					
7					
8					
9					
10					
11	Reverb Delay Time	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					

Vocal Doubler, Stereo Spread, Delay, Short Delay, Rock & Roll Delay

No.	Parameter	Display	Min	Max	Table
1	Lch Delay Time	0.1ms – 1.4860s	1	14860	
2	Rch Delay Time	0.1ms – 1.4860s	1	14860	
3	Cch Delay Time	0.1ms – 1.4860s	1	14860	
4	Feedback Delay Time	0.1ms – 1.4860s	1	14860	
5	Feedback Level	-63 – +0 – +63	1	127	
6	Cch Level	0 – 127	0	127	
7	Feedback 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 – 16kHz	28	58	Table#3
16	EQ High Gain	-12dB – +0dB – +12dB	52	76	

Cross Delay

No.	Parameter	Display	Min	Max	Table
1	L->R Delay Time	0.1ms – 743.0ms	1	7430	
2	R->L Delay Time	0.1ms – 743.0ms	1	7430	
3	Feedback Level	-63 – +0 – +63	1	127	
4	Input Select	L, R, L&R	0	2	
5	Feedback 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 – 16kHz	28	58	Table#3
16	EQ High Gain	-12dB – +0dB – +12dB	52	76	

Tempo Delay

No.	Parameter	Display	Min	Max	Table
1	Delay Time	32nd/3 – 4thx6	0	19	Table#5
2	Feedback Level	-63 – +0 – +63	1	127	
3	Feedback High Damp	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	Table#3
14	EQ Low Gain	-12dB – +0dB – +12dB	52	76	
15	EQ High Frequency	500Hz – 16kHz	28	58	Table#3
16	EQ High Gain	-12dB – +0dB – +12dB	52	76	

Tempo Cross Delay

No.	Parameter	Display	Min	Max	Table
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 Damp	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	Table#3
14	EQ Low Gain	-12dB – +0dB – +12dB	52	76	
15	EQ High Frequency	500Hz – 16kHz	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 – 50.0ms	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 – 16kHz	28	58	Table#3
9	EQ High Gain	-12dB – +0dB – +12dB	52	76	
10					
11	EQ Mid Frequency	100Hz – 10kHz	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 Hi-Fi, EQ TEL

No.	Parameter	Display	Min	Max	Table
1	EQ Low Gain	-12dB – +0dB – +12dB	52	76	
2	EQ Mid Frequency	100Hz – 16kHz	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 – 16kHz	28	58	Table#3
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	Mono, Stereo	0	1	
16					

Gramophone, Robot

No.	Parameter	Display	Min	Max	Table
1	Sampling Freq Control	44.1kHz – 345.0Hz	0	127	Table#39
2	Word Length	1 – 127	1	127	
3	Output Gain	-6dB – +0dB– +6dB	0	12	
4	LPF Cutoff Frequency	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, 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					
11					
12					
13					
14					
15					
16					

Tempo Flanger

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 – 50.0ms	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 – 16kHz	28	58	Table#3
9	EQ High Gain	-12dB – +0dB – +12dB	52	76	
10					
11	EQ Mid Frequency	100Hz – 10kHz	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					

Tempo Phaser

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 – 16kHz	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					

Tempo Auto Pan

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 – 16kHz	28	58	Table#3
9	EQ High Gain	-12dB – +0dB – +12dB	52	76	
10					
11	EQ Mid Frequency	100Hz – 10kHz	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					

No Effect

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

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Home															
Voice(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Voice(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Part On/Off(Left)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Part On/Off(Right1)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Part On/Off(Right2)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Part On/Off(Right3)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Registration Bank File	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
SongA(MIDI/Audio)	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
SongB(MIDI/Audio)	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Style	O	X	X	X	X	-	X	-	X	X	X	O	Style		
Vocal Harmony Type	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Multi Pad File	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Multi Pad	-	
Style Control															
ACMP On/Off	O	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	
Auto Fill In	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Section	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Sync Start	O	X	X	X	X	-	X	-	X	O (On)	X	O	Style	-	
Sync Stop	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Transpose +/-															
Transpose Assign	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Transpose	O	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Tempo															
Master Tempo	O	X	X	X	X	-	O	Tempo	O	X	X	O	Tempo	-	
Song															
MIDI Song															
Synchro Start	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Audio Song															
Pitch Shift	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Time Stretch	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Vocal Cancel	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Multi Pad															
Synchro Start	O	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Audio Link Multi Pad Simultaneous Play	O	O	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	Firmware V1.20 or later
Registration															
Regist Memory Contents	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Mixer															
Panel1															
Pan/Volume															
Volume(Style) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Volume(Multi Pad) Offset	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Multi Pad	-	
Volume(Left)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Volume(Right1)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Right2)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Right3)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Song A) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Volume(Song B) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Pan(Style) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Pan(Multi Pad) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Pan(Left)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Pan(Right1)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pan(Right2)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pan(Right3)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pan(Song A) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Pan(Song B) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Chorus/Reverb															
Reverb Depth(Style) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Reverb Depth(Multi Pad) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Reverb Depth(Left)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Reverb Depth(Right1)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth(Right2)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth(Right3)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Reverb Depth(Song A) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Reverb Depth(Song B) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Chorus Depth(Style) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Chorus Depth(Multi Pad) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Chorus Depth(Left)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Chorus Depth(Right1)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth(Right2)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Chorus Depth(Right3)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Chorus Depth(Song A) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Chorus Depth(Song B) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Effect															
Insertion Effect Depth(Left)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Insertion Effect Depth(Right1)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Depth(Right2)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Depth(Right3)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ															
Low Gain(Style) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Low Gain(Multi Pad) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
Low Gain(Left)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
Low Gain(Right1)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
Low Gain(Right2)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
Low Gain(Right3)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
Low Gain(Song A) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Low Gain(Song B) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
High Gain(Style) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
High Gain(Multi Pad) Offset	O	X	X	X	X	-	X	-	X	X	X	O	Multi Pad	-	
High Gain(Left)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
High Gain(Right1)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
High Gain(Right2)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
High Gain(Right3)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
High Gain(Song A) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
High Gain(Song B) Offset	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Filter															
Cutoff(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Cutoff(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Cutoff(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Cutoff(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Resonance(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Resonance(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Resonance(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Resonance(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel2															
Pan/Volume															
Pan(Mic)	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Volume(Mic)	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Volume(AUX In)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Volume(WirelessLAN)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Chorus/Reverb															
Reverb Depth(Mic)	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Chorus Depth(Mic)	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Effect															
Insertion Effect Depth(Mic)	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Style1/Style2															
Filter															
Resonance	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Cutoff	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
EQ															
Low Gain	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
High Gain	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Effect															
Insertion Effect Depth	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Variation Effect Depth	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Chorus/Reverb															
Reverb Depth	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Chorus Depth	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Pan/Volume															
Pan	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Volume	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Song Ch1-8/Song Ch9-16															
Filter															
Resonance Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-	
Cutoff Song Part	X	X	X	X	X	-	O	Filter	X	X	X	X	-	-	
EQ															
EQ Low Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	
EQ High Gain Song Part	X	X	X	X	X	-	O	EQ	X	X	X	X	-	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Effect															
Insertion Effect Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Variation Effect Depth	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Chorus/Reverb															
Reverb Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Chorus Depth Song Part	X	X	X	X	X	-	O	Effect	X	X	X	X	-	-	
Pan/Volume															
Part Volume Song	X	X	X	X	X	-	O	Volume	X	X	X	X	-	-	
Part Pan Song	X	X	X	X	X	-	O	Pan	X	X	X	X	-	-	
Master															
Compressor															
On/Off	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Type	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Compression	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Texture	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Output	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
EQ															
Type	O	O	X	X	X	-	X	-	X	X	X	X	-	Master EQ	
Parameter	O	X	X	O	X	-	X	-	X	X	X	X	-	Master EQ	
Voice															
Voice(Style)	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	
Voice(Song)	X	X	X	X	X	-	O	Voice	X	X	X	X	-	-	
Reverb															
Type	O	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Reverb Type	
Return Level	O	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Reverb Return Level	
Chorus															
Type	O	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	-	
Return Level	O	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Chorus Return Level	
Variation															
Variation Effect Type	O	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	-	
Variation Effect Return Level	O	X	X	X	X	-	O	Effect	O	X	X	O	Style/Song	Variation Effect(System) Return Level	
Assign Detail Setting															
Insertion Effect1 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect2 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect3 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect4 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect5 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect6 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect7 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect8 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect9 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect10 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect11 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect12 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect13 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect14 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect15 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect16 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect17 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect18 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect19 Type	O	X	X	X	X	-	O	Effect	X	X	X	O	Voice/Song	-	
Insertion Effect20 Type	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Song/Vocal Harmony/Mic Setting	Vocal Harmony/ Mic Setting	
Insertion Effect21 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect22 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect23 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect24 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect25 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect26 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect27 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Insertion Effect28 Type	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
Effect Parameter(Reverb/Chorus/ Variation)	O	X	X	O	X	-	O	Effect	X	X	X	X	-	-	
Effect Parameter(Insertion1-19)	O	X	X	O	X	-	O	Effect	X	X	X	O	Voice	-	
Effect Parameter(Insertion20)	O	X	X	O	X	-	O	Effect/Vocal Harmony/Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Effect Parameter(Insertion21-28)	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Channel On/Off															
Channel On/Off(Song)	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Channel On/Off(Style)	O	X	X	X	X	-	X	-	O	X	X	O	Style	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Line Out															
Line Out	O	O	X	X	X	-	X	-	X	X	X	O	Line Out	-	
Score															
View Setting															
Size	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Left On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Right On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Chord On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Lyrics On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Pedal On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Note On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Fingering On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Color On/Off	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Play Setting															
Extra On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Left On/Off	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Song	-	
Right On/Off	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Song	-	
Detail Setting															
Right Ch	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Left Ch	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Key Signature	X	X	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Quantize	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Note Name	O	O	X	X	X	-	O	Score Setting	X	X	X	X	-	-	
Lyrics															
Background	O	O	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	Cannot be reset with Factory Reset.
PlaySetting															
Extra On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Left On/Off	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Song	-	
Right On/Off	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Song	-	
Text Viewer															
Text File	O	X	X	X	X	-	X	-	X	X	X	O	Text	-	
Background	O	O	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	Cannot be reset with Factory Reset.
PlaySetting															
Extra On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
Left On/Off	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Song	-	
Right On/Off	O	X	X	X	X	-	O	Guide Setting	X	X	X	O	Song	-	
Mic Setting															
Vocal Setting															
Mic On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Vocal/Talk Select	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
EQ Low Frequency	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
EQ Low Gain	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
EQ Mid Frequency	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
EQ Mid Gain	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
EQ High Frequency	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
EQ High Gain	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Noise Gate On/Off	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Noise Gate Threshold	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Compressor On/Off	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Compressor Threshold	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Compressor Ratio	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Compressor Out	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Pitch Detect Voice Range	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Pitch Detect Response	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Pitch Detect Background Noise Cut	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
User Setting	O	O	X	O	X	-	X	-	X	X	X	X	-	-	
Mic Volume	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Talk Setting															
Talk Setting Volume	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk EQ Low Frequency	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk EQ Low Gain	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk EQ Mid Frequency	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk EQ Mid Gain	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk EQ High Frequency	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk EQ High Gain	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Noise Gate On/Off	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Noise Gate Threshold	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Compressor On/Off	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Compressor Threshold	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Compressor Ratio	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Compressor Out	O	X	X	O	X	-	X	-	X	X	X	X	-	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Talk Setting Pan	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Setting Reverb Depth	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Setting Chorus Depth	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Talk Setting Level Reduction	O	X	X	O	X	-	X	-	X	X	X	X	-	-	
Vocal Harmony															
On/Off	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Type	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Mode	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Song Channel	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Keyboard	O	X	X	X	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Song Channel Mute/Play	O	X	X	X	X	-	X	-	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Balance	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Chord Source	O	X	X	X	X	-	X	-	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Chordal Type	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Effect On/Off	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Effect Type	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Effect Depth To Lead	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Effect Depth To Harmony	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Reverb Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Chorus Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony Edit															
Harmony Assign															
Session Table	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Key Root	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Key Type	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Transpose Mode	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Detail Setting															
Pitch Correct Mode	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Humanize	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Lead Pitch Detect Speed	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony Pitch Detect Speed	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony Effect	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony Stability	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Lead Vibrato Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony Vibrato Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vibrato Speed	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vibrato Delay	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Part Mixer															
Lead Transpose	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Lead Detune	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Lead Formant	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Lead Volume	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Lead Pan	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony1 Transpose	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony1 Detune	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony1 Formant Shift	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony1 Volume	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony1 Pan	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Harmony1 Degree	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony2 Transpose	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony2 Detune	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony2 Formant Shift	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony2 Volume	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony2 Pan	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony2 Degree	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony3 Transpose	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony3 Detune	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony3 Formant Shift	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony3 Volume	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony3 Pan	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Harmony3 Degree	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vocal Harmony Effect															
Parameters	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Synth Vocoder Overview															
Carrier	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vocal Effect Type	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vocal Effect Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Reverb Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Chorus Depth	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Synth Vocoder Detail															
Carrier Volume	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Carrier Octave	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Carrier Noise	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vocoder Attack	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Vocoder Release	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Formant Shift	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Formant Offset	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
HPF Freq	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
HPF Output Level	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF1 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF2 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF3 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF4 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF5 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF6 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF7 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF8 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF9 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
BPF10 Gain	O	X	X	O	X	-	O	Vocal Harmony/ Mic Setting	X	X	X	O	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
Keyboard Harmony/Arpeggio															
Harmony/Echo/Arpeggio	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	
Type	O	X	X	X	O	Keyboard Harmony/ Arpeggio	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	
Volume	O	X	X	X	O	Keyboard Harmony/ Arpeggio	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Speed	O	X	X	X	O	Keyboard Harmony/ Arpeggio	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	
Assign	O	X	X	X	O	Keyboard Harmony/ Arpeggio	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	
Chord Note Only	O	X	X	X	O	Keyboard Harmony/ Arpeggio	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	
Minimum Velocity	O	X	X	X	O	Keyboard Harmony/ Arpeggio	O	Keyboard Voice	X	O	X	O	Keyboard Harmony/ Arpeggio	-	
Split&Fingering															
Split Point(Left)	O	O	X	X	X	-	X	-	X	X	X	O	Style	Split Point	
Split Point(Style)	O	O	X	X	X	-	O	Guide Setting	X	X	X	O	Style	Split Point	
Split Point(Right3)	O	O	X	X	X	-	X	-	X	X	X	O	Voice	Split Point	
Fingering Type	O	O	X	X	X	-	X	-	X	X	X	O	Style	Fingering Type	
Chord Detection Area	O	O	X	X	X	-	X	-	X	X	X	O	Style		
Manual Bass	O	O	X	X	X	-	X	-	X	X	X	O	Style		
Regist Sequence															
Sequence Data	O	X	X	X	X	-	X	-	X	X	X	O	-	-	One sequence data per Regist Bank file
Sequence On/Off	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Pedal Control Regist+	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Pedal Control Regist-	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Sequence End	O	X	X	X	X	-	X	-	X	X	X	O	-	-	One sequence end per Regist Bank file
Registration Freeze															
Freeze On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Setting	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Metronome															
Metronome															
Metronome On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-	
Volume	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Sound	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Time Signature	X	X	X	X	X	-	O	-	O	X	X	X	-	-	
Tap Tempo															
Volume	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Sound	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Live Control															
Knob Function Assign	O	O	X	X	X	-	X	-	X	X	X	O	Live Control	-	
Slider Function Assign	O	O	X	X	X	-	X	-	X	X	X	O	Live Control	-	
Detail Setting	O	O	X	X	X	-	X	-	X	X	X	O	Live Control	-	
Detail															
Arpeggio Velocity	O	X	X	X	X	-	X	-	X	X	X	O	Keyboard Harmony/ Arpeggio	-	Firmware V1.10 or later
Arpeggio Gate Time	O	X	X	X	X	-	X	-	X	X	X	O	Keyboard Harmony/ Arpeggio	-	Firmware V1.10 or later
Arpeggio Unit Multiply	O	X	X	X	X	-	X	-	X	X	X	O	Keyboard Harmony/ Arpeggio	-	Firmware V1.10 or later
Style Retrigger Rate	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	Firmware V1.10 or later
Style Retrigger On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	Firmware V1.10 or later
Assignable															
Home Shortcuts	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Foot Pedals Function	O	O	X	X	X	-	X	-	X	X	X	O	Foot Pedals	-	
Foot Pedals Detail Setting	O	O	X	X	X	-	X	-	X	X	X	O	Foot Pedals	-	
Assignable Buttons	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Assignable Buttons Detail Setting	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Rotary Sp/Assignable	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Rotary Sp/Assignable Detail Setting	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Detail															
Fade In Time	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Fade Out Time	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Fade Out Hold Time	O	O	X	X	X	-	X	-	X	X	X	O	Assignable Buttons	-	
Menu															
Pedal Polarity	O	O	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Voice Edit															
Common															
Volume(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Touch Sense Depth(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Depth(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Depth(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Depth(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Touch Sense Offset(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Offset(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Offset(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Touch Sense Offset(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Part Octave(Right)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Part Octave(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Mono/Poly(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Mono/Poly(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Mono/Poly(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Mono/Poly(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Mono Type(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Mono Type(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Mono Type(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Mono Type(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Portamento Time(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Panel Sustain(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Panel Sustain(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Sound															
Filter															
Cutoff(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Cutoff(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Cutoff(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Cutoff(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Resonance(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Resonance(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Resonance(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Resonance(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG															
EG Attack(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Attack(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG Decay(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Decay(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
EG Release(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
EG Release(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato															
Vibrato Depth(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Speed(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Delay(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Delay(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(+)															
Modulation(+) Filter(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) Filter(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) Filter(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) Filter(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Modulation(+) Amplitude(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) Amplitude(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) Amplitude(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) Amplitude(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(+) LFO Pitch(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Pitch(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Pitch(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Pitch(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(+) LFO Filter(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Filter(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Filter(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Filter(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(+) LFO Amplitude(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Amplitude(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Amplitude(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(+) LFO Amplitude(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(-)															
Modulation(-) Filter(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) Filter(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) Filter(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) Filter(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(-) Amplitude(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) Amplitude(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) Amplitude(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) Amplitude(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(-) LFO Pitch(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Pitch(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Pitch(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Pitch(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(-) LFO Filter(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Filter(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Filter(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Filter(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Modulation(-) LFO Amplitude(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Amplitude(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Amplitude(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Modulation(-) LFO Amplitude(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
After Touch															
After Touch Filter(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch Filter(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch Filter(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch Filter(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
After Touch Amplitude(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch Amplitude(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch Amplitude(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch Amplitude(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
After Touch LFO Pitch(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Pitch(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Pitch(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Pitch(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
After Touch LFO Filter(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Filter(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Filter(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Filter(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
After Touch LFO Amplitude(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Amplitude(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Amplitude(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
After Touch LFO Amplitude(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Effect															
Insertion Effect On/Off(Right1)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Type(Right1)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect On/Off(Right2)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Type(Right2)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect On/Off(Right3)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Type(Right3)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect On/Off(Left)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Insertion Effect Type(Left)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	
Insertion Effect Type Parameter(Right1)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Type Parameter(Right2)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Type Parameter(Right3)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Voice	-	
Insertion Effect Type Parameter(Left)	O	X	X	X	O	Effect	O	Keyboard Voice	X	O	X	O	Style	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
EQ															
EQ Low Freq(Right1)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq(Right2)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq(Right3)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ Low Freq(Left)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
EQ High Freq(Right1)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq(Right2)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq(Right3)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Voice	-	
EQ High Freq(Left)	O	X	X	X	O	EQ	O	Keyboard Voice	X	O	X	O	Style	-	
Organ Flute															
Footage(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Footage(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Footage(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Footage(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato On/Off(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato On/Off(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato On/Off(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato On/Off(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Depth(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Depth(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Vibrato Speed(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Vibrato Speed(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Attack Footage(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Footage(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Footage(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Footage(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Attack Mode(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Mode(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Mode(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Mode(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Attack Length(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Length(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Length(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Attack Length(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Response(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Response(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Response(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Response(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Volume(Right1)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Right2)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Right3)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Volume(Left)	O	X	X	X	O	-	O	Keyboard Voice	X	O	X	O	Style	-	
Style Creator															
Step Edit															
Main Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Basic															
Pattern Length	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Tempo	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Beat	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Play Root															
Play/Source Root	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Play/Source Chord	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
NTR/NTT															
NTR	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
NTT	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
NTT Bass	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
High Key/Note Limit															
High Key	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Note Limit Low	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Note Limit High	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
RTR															
RTR	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
Step Edit															
Channel-Chd/1-16/SysEx./Lyric>Filter															
Main Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Style Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
MIDI Multi Pad Creator															
MIDI Multi Pad Recording															
Step Edit															
Main Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Control Change Filter	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Repeat	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Chord Match	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Audio Link Multi Pad															
Audio Level	X	X	X	X	X	-	X	-	X	X	O	X	-	-	
Voice Setting															
Tune															
Tuning (Left)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Tuning(Right1)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Tuning(Right2)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Tuning(Right3)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Octave (Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Octave (Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Octave (Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Octave (Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time(Left)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Style	-	
Portamento Time(Right1)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time(Right2)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Portamento Time(Right3)	O	X	X	X	O	Voice	O	Keyboard Voice	X	O	X	O	Voice	-	
Voice Set Filter															
Voice Set On/Off(Left)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set On/Off(Right1)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set On/Off(Right2)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Voice Set On/Off(Right3)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
S.Art2/Arpeggio															
S.Art2 Auto Articulation(Head)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
S.Art2 Auto Articulation(Joint)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
S.Art2 Auto Articulation(Tail)	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Arpeggio Quantize	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Arpeggio Hold	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Style Setting															
Setting															
Dynamics Control	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Display Tempo	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Stop ACMP	O	O	X	X	X	-	X	-	X	X	X	O	Style	-	
OTS Link Timing	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Synchro Stop Window	O	O	X	X	X	-	X	-	X	X	X	O	Style	-	
Multi Pad Synchro Stop (Style Stop)	O	O	X	X	X	-	X	-	X	X	X	O	Style	-	Firmware V1.20 or later
Multi Pad Synchro Stop (Style Ending)	O	O	X	X	X	-	X	-	X	X	X	O	Style	-	Firmware V1.20 or later
Change Behavior															
Section Set	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Tempo	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Part On/Off	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Song Setting															
Guide															
Type	O	O	X	X	X	-	O	Guide Setting	X	X	X	X	-	-	
Part Ch															
Right	O	O	X	X	X	-	O	-	X	X	X	X	-	-	
Left	O	O	X	X	X	-	O	-	X	X	X	X	-	-	
Auto Set	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Lyrics															
Language	O	O	X	X	X	-	O	Lyrics Setting	X	X	X	X	-	-	
Play															
Quick Start	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
MIDI Song Fast Forward Type	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Style Synchro Stop	O	O	X	X	X	-	X	-	X	X	X	O	Song	-	Firmware V1.20 or later
Multi Pad Synchro Stop	O	O	X	X	X	-	X	-	X	X	X	O	Song	-	Firmware V1.20 or later
Tuning															
Master Tune															
Master Tune	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Scale Tune															
Scale Type	O	X	X	X	X	-	X	-	X	X	X	O	Scale Tune	-	
Base Note	O	X	X	X	X	-	X	-	X	X	X	O	Scale Tune	-	
Tune	O	X	X	X	X	-	X	-	X	X	X	O	Scale Tune	-	
Part Select	O	X	X	X	X	-	X	-	X	X	X	O	Scale Tune	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Transpose															
Master Transpose	O	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Song Transpose	O	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Keyboard Transpose	O	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
Keyboard/Joystick															
Keyboard															
Initial Touch Curve	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Fixed Velocity	O	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Initial Touch Part On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
After Touch Curve	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
After Touch Part On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Joystick															
Modulation(+) Part On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Modulation(-) Part On/Off	O	X	X	X	X	-	X	-	X	X	X	O	Voice	-	
Pitch Bend Range (Left)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Style	-	
Pitch Bend Range (Right1)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pitch Bend Range (Right2)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
Pitch Bend Range (Right3)	O	X	X	X	X	-	O	Keyboard Voice	X	O	X	O	Voice	-	
MIDI															
Setting	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Preset Setting Name	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
System															
Local Control	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Clock	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Transmit Clock	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Transpose MIDI Input	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Start/Stop	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
SysEx Transmit	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
SysEx Receive	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Chord SysEx Transmit	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Chord SysEx Receive	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Transmit															
Ch	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Filter	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Receive															
Part	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Filter	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
On Bass Note															
Bass(On Bass Note)	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Chord Detect															
Chord Detect	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
External Controller															
MIDI Port	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
MIDI Ch	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Utility															
Speaker/Connectivity															
Speaker	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Digital Out Level	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Display Out Content	O	O	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Display/Touch Screen															
Display Time Stamp	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Display Pop-up Display Time	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Display Transition Effect	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Touch Screen Sound	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Brightness LED	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Parameter Lock															
Parameter Lock	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
System															
Language	O	O	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Owner Name	O	O	X	X	X	-	X	-	X	X	X	X	-	-	Cannot be reset with Factory Reset.
Auto Power Saving	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Auto Power Off	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Time															
Set Automatically	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Time Zone	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Daylight Saving Time	O	O	X	X	X	-	X	-	X	X	X	X	-	-	

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style		Multi Pad	Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS		Regist	Freeze Group		
Wireless LAN (*)															
Wireless LAN Mode	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Host Name	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Wireless LAN Infrastructure mode															
SSID	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Security	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Password	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
DHCP	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
IP Address	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Subnet Mask	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Gateway	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
DNS Server1	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
DNS Server2	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Host Name	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Wireless LAN Access Point mode															
SSID	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Security	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Password	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Channel	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
DHCP Server	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
IP Address	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Subnet Mask	O	×	×	×	×	-	×	-	×	×	×	×	-	-	
Host Name	O	×	×	×	×	-	×	-	×	×	×	×	-	-	

* The wireless LAN function may not be included depending on you area.

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato dati MIDI / MIDI-gegevensindeling / Format danych MIDI

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexa-decimal numbers may include the letter “H” as a suffix. Also, “n” can freely be defined as any whole number. To enter data/values, refer to the table below.

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

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

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

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

- Except the table above, for example 144–159 (decimal)/9nH/10010000–1001 1111 (binary) denotes the Note On Message for each channel (1–16). 176–191/BnH/1011 0000–1011 1111 denotes the Control Change Message for each channel (1–16). 192-207/CnH/1100 0000–1100 1111 denotes the Program Change Message for each channel (1–16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.

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

MIDI CHANNEL MESSAGE (1)

[MIDI] [Internal sequencer]

MIDI Events	Status byte		1st Data byte			2nd Data byte			Voice		MIDI Reception					MIDI Transmission					PLAY		REC
	Status		Data	(HEX)	Parameter	Data	(HEX)	Parameter	Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
Key Off [GM1][GM2]	8nH	(n:Channel Number)	kk		Key no. (0 – 127)	vv		Velocity (0 – 127)	O	O (Harmony Channel)	O	O	O	O	O	X	X	X	O	X	O	X	O
Key On [GM1][GM2]	9nH	(n:Channel Number)	kk		Key no. (0 – 127)	vv		Key On :vv=1 – 127 Key Off :vv=0	O	O (Harmony Channel)	O	O	O	O	O	●	O	O	O	●	O	X	O
Control Change	BnH		0	(00H)	Bank Select MSB [GM2]	0 0 8 8 8 64 104 104 118 119 120 121 126 127	(00H) (00H) (08H) (08H) (08H) (40H) (68H) (68H) (76H) (77H) (78H) (79H) (7EH) (7FH)	Normal 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	O	X	O	O	O (Regist)	O	O	●	O	●	●	X	O	O	O
			1	(01H)	Modulation [GM1][GM2]	0 – 127	(00H... 7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O
			5	(05H)	Portamento Time [GM2]	0 – 127	(00H... 7FH)	Data	O (Except S.Art Piano, Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	X	O	O	O
			6	(06H)	Data Entry MSB [GM2]	0 – 127	(00H... 7FH)	Data	O	O (Harmony Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	X	O
			7	(07H)	Main Volume [GM1][GM2]	0 – 127	(00H... 7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
			10	(0AH)	Panpot [GM1][GM2]	0 – 127	(00H... 7FH)	L64…C…R63	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
			11	(0BH)	Expression [GM1][GM2]	0 – 127	(00H... 7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	●	●	●	●	O	O	O
			16	(10H)	General Purpose Controller	0 – 127	(00H... 7FH)	Data	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	X
			32	(20H)	Bank Select LSB [GM2]	0 – 127	(00H... 7FH)	Data	O	X	O	O	O (Regist)	O	O	●	O	●	●	X	O	O	O
			38	(26H)	Data Entry LSB [GM2]	0 – 127	(00H... 7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	●	O	X	O	X	O	X	O
			64	(40H)	Sustain (Damper) [GM1][GM2]	0 – 127	(00H... 7FH)	Data	O	O (Harmony Channel)	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
			65	(41H)	Portamento [GM2]	0 – 127	(00H... 7FH)	0…63, 64…127 (OFF, ON)	O (Except S.Art Piano, Organ Flutes)	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
			66	(42H)	Sostenuto [GM2]	0 – 127	(00H... 7FH)	0…63, 64…127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
			67	(43H)	Soft Pedal [GM2]	0 – 127	(00H... 7FH)	0…63, 64…127 (OFF, ON)	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	O	O
			71	(47H)	Resonance [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
			72	(48H)	Release Time [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
			73	(49H)	Attack Time [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
			74	(4AH)	Cutoff [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	●	O	●	●	X	O	O	O
			75	(4BH)	Decay Time [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
			76	(4CH)	Vibrato Rate [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
			77	(4DH)	Vibrato Depth [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
			78	(4EH)	Vibrato Delay [GM2]	0 – 127	(00H... 7FH)	-64…0…+63	O	X	O	O	O (All Keyboard parts)	O	O	X	X	X	O	X	O	O	X
			80	(50H)	General Purpose Controller (Articuration 1)	0 – 127	(00H... 7FH)	0: OFF 127: ON	O (S.Art/S.Art2 Voice only)	X	O	X	X	X	X	●	X	O	O	X	O	O	O
			81	(51H)	General Purpose Controller (Articuration 2)	0 – 127	(00H... 7FH)	0: OFF 127: ON	O (S.Art2 Voice only)	X	O	X	X	X	X	●	X	O	O	X	O	O	O

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

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

[MIDI] [Internal sequencer]

MIDI Events	Status byte		1st Data byte			2nd Data byte			Voice		MIDI Reception					MIDI Transmission					PLAY		REC
	Status		Data	(HEX)	Parameter	Data	(HEX)	Parameter	Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
Control Change	BnH		82	(52H)	General Purpose Controller (Articuration 3)	0 – 127	(00H... 7FH)	0: OFF 127: ON	O (S.Art2 Voice only)	X	O	X	X	X	X	●	X	O	O	X	O	O	O
			84	(54H)	Portamento Control	0 – 127	(00H... 7FH)	Key no. (0 – 127)	O	X	O	O	X	O	O	O	O	●	O	X	O	X	O
			91	(5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0 – 127	(00H... 7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
			93	(5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0 – 127	(00H... 7FH)	Data	O	O (A/D Part Receive Channel)	O	O	O (All Keyboard parts)	O	O	●	●	●	●	X	O	O	O
			94	(5EH)	Effect4 Depth (Variation Send Level)	0 – 127	(00H... 7FH)	Data	O	X	O	O	O (All Keyboard parts)	O	O	O	O	●	●	X	O	O	X
			96	(60H)	RPN Increment	–	–	The data byte is ignored.	O	O (Harmony Channel)	O	O	X	O	O	X	O	X	O	X	O	X	X
			97	(61H)	RPN Decrement	–	–	The data byte is ignored.	O	O (Harmony Channel)	O	O	X	O	O	X	O	X	O	X	O	X	X
			98	(62H)	NRPN LSB	0 – 127	(00H... 7FH)	Data	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
			99	(63H)	NRPN MSB	0 – 127	(00H... 7FH)	Data	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
			100	(64H)	RPN LSB [GM2]	0 – 127	(00H... 7FH)	Data	O	O (Harmony Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
			101	(65H)	RPN MSB [GM2]	0 – 127	(00H... 7FH)	Data	O	O (Harmony Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
Mode Message	BnH	(n:Channel Number)	120	(78H)	All Sound Off [GM2]	0	(00H)	Data	O	X	O	O	O (All Keyboard parts) (*1)	O	O	X	O	X	O	X	O	X	X
			121	(79H)	Reset All Controllers [GM1][GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
			122	(7AH)	Local Control	0 127	(00H) (7FH)	OFF ON	–	–	O					X	X	X	X	X	X	X	X
			123	(7BH)	All Note Off [GM1][GM2]	0	(00H)	Data	O	O (Harmony Channel)	O	O	O (All Keyboard parts)	O	O	X	O	X	O	X	O	X	X
			124	(7CH)	Omni Off [GM2]	0	(00H)	Data	O	X	O (*1)	X	X	X	X	X	O	X	O	X	O	X	X
			125	(7DH)	Omni On [GM2]	0	(00H)	Data	O	X	O (*2)	X	X	X	X	X	O	X	O	X	O	X	X
			126	(7EH)	Mono [GM2]	0 – 16	(00H... 10H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
			127	(7FH)	Poly [GM2]	0	(00H)	Data	O	X	O	X	X	X	X	X	O	X	O	X	O	X	X
Program Change [GM1][GM2]	CnH	(n:Channel Number)	pp	(00H... 7FH)	Voice Number (0 – 127)	–	–	–	O	X	O	O	O (Regist)	O	O	●	O	●	●	X	O	O	O
Channel After Touch [GM1][GM2]	DnH	(n:Channel Number)	vv	(00H... 7FH)	Data	–	–	–	O	X	O	O	O (All Keyboard parts)	X	O	●	O	X	O	●	O	X	O
Polyphonic After Touch	AnH	(n:Channel Number)	kk	(00H... 7FH)	Key no. (0 – 127)	vv	(00H... 7FH)	Data	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Pitch Bend Change [GM1][GM2]	EnH	(n:Channel Number)	cc	(00H... 7FH)	LSB	dd	(00H... 7FH)	MSB	O	O (Harmony Channel)	O	O	O (All Keyboard parts)	O	O	●	O	O	O	●	O	O	O
Realtime Message	F8H	MIDI Clock	–		–	–		–	–	–	O (Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)					O (Transmitted when the Clock is set to Internal and the Transmit Clock is set to On.)					–	–	–
	FAH	Start	–		–	–		–	–	–	O Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)					O (Transmitted when the Transmit Clock is set to On.)					–	–	–
	FBH	Continue	–		–	–		–	–	–	X					X					–	–	–
	FCH	Stop	–		–	–		–	–	–	O Received when the Clock is set to MIDI A, MIDI B, USB1, or USB2.)					O (Transmitted when the Transmit Clock is set to On.)					–	–	–
	FEH	Active Sense [GM2]	–		–	–		–	–	–	O					O					–	–	–
	FFH	System Reset	–		–	–		–	–	–	X					X					–	–	–

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

About Mic/Vocal Harmony column:
(HarmonyChannel): The relevant parameters are received by the Song part designated by the HARMONY CHANNEL of the SPECIAL EFFECT parameters in the XG format.
(A/D Part Receive Channel): The relevant parameters are received by the Song part designated by the Rcv CHANNEL of the A/D PART parameters in the XG format.

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

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

MIDI CHANNEL MESSAGE (2)

NRPN (Non Registered Parameter Number) [MIDI] [Internal sequencer]

NRPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
01H	08H	mmH	--	Vibrato Rate	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	09H	mmH	--	Vibrato Depth	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	0AH	mmH	--	Vibrato Delay	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	30H	mmH	--	EQ Bass Gain	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	31H	mmH	--	EQ Treble Gain	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	X	X	O	X	X	X	X	O	X	O	O	X
01H	34H	mmH	--	EQ Bass Frequency	mm : 04H – 28H (32…2.0k [Hz])	O	X	O	X	X	X	X	X	X	X	O	X	O	O	X
01H	35H	mmH	--	EQ Treble Frequency	mm : 1CH – 3AH (500…16.0k [Hz])	O	X	O	X	X	X	X	X	X	X	O	X	O	O	X
01H	63H	mmH	--	EG Attack Time	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
01H	64H	mmH	--	EG Decay Time	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	O	X	O	O	●	O	O	O	X	O	O	O
01H	66H	mmH	--	EG Release	mm : 00H – 40H – 7FH (-64…0…+63)	O	X	O	X	X	O	X	X	O	X	O	X	O	O	X
14H	rrH	mmH	--	Drum Low Pass Filter Cutoff Frequency	rr : drum instrument note number mm : 00H – 40H – 7FH (-64…0…+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
15H	rrH	mmH	--	Drum Low Pass Filter Resonance	rr : drum instrument note number mm : 00H – 40H – 7FH (-64…0…+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
16H	rrH	mmH	--	Drum EG Attack Rate	rr : drum instrument note number mm : 00H – 40H – 7FH (-64…0…+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
17H	rrH	mmH	--	Drum EG Decay Rate	rr : drum instrument note number mm : 00H – 40H – 7FH (-64…0…+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
18H	rrH	mmH	--	Drum Pitch Coarse	rr : drum instrument note number mm : 00H – 40H – 7FH (-64…0…+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
19H	rrH	mmH	--	Drum Pitch Fine	rr : drum instrument note number mm : 00H – 40H – 7FH (-64…0…+63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1AH	rrH	mmH	--	Drum Level	rr : drum instrument note number mm : 00H – 7FH (0…127)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1CH	rrH	mmH	--	Drum Pan	rr : drum instrument note number mm : 00H, 01H – 40H – 7FH (RND, L63…C…R63)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1DH	rrH	mmH	--	Drum Reverb Send Level	rr : drum instrument note number mm : 00H – 7FH (0…127)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1EH	rrH	mmH	--	Drum Chorus Send Level	rr : drum instrument note number mm : 00H – 7FH (0…127)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
1FH	rrH	mmH	--	Drum Variation Send Level	rr : drum instrument note number mm : 00H – 7FH (0…127) (Variation Connection = SYSTEM) mm : 00H, 01H – 7FH (OFF, ON) (Variation Connection = INSERTION)	O (Drum only)	X	O	X	X	X	X	X	X	O	O	X	O	X	X
30H	rrH	mmH	--	Drum EQ Bass Gain	rr : drum instrument note number mm : 00H – 7FH (0…127)	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X
31H	rrH	mmH	--	Drum EQ Treble Gain	rr : drum instrument note number mm : 00H – 7FH (0…127)	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X
34H	rrH	mmH	--	Drum EQ Bass Frequency	rr : drum instrument note number mm : 04H – 28H (32…2.0k [Hz])	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X
35H	rrH	mmH	--	Drum EQ Treble Frequency	rr : drum instrument note number mm : 1CH – 3AH (500…16.0k [Hz])	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X

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

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

RPN (Registered Parameter Number) [MIDI] [Internal sequencer]

RPN		Data Entry		Parameter	Data Range	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
MSB	LSB	MSB	LSB			Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1][GM2]	mm : 00H – 18H (0…+24 [semitones])	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
00H	01H	mmH	llH	Fine Tune [GM1][GM2]	mm ll : 00H 00H -100 [cent] : : mm ll : 40H 00H 0 [cent] : : mm ll : 7FH 7FH 100 [cent]	O	X	O	O	O (All Keyboard parts)	O	O	●	O	O	O	X	O	O	O
00H	02H	mmH	--	Coarse Tune [GM1][GM2]	mm : 28H – 40H – 58H (-24…0…+24 [semitones])	O	X	O	O	O (All Keyboard parts)	O	O	X	O	O	O	X	O	O	X
00H	05H	mmH	llH	Modulation Sensitivity [GM2]	mm : Specified in semitone steps ll : Specified in 100/128 cent steps	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
7FH	7FH	--	--	Null [GM2]	–	O	O	O	O	O (All Keyboard parts)	O	O	X	O	O	O	X	O	X	X

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

About Mic/Vocal Harmony column:
The relevant parameters are received by the Song part designated by the HARMONY CHANNEL or the MELODY CHANNEL of the SPECIAL EFFECT parameters in the XG format.

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

XG PARAMETER CHANGE TABLE

- Not received when the MIDI setting “System Exclusive Message - Receive” is set to off.
- Not transmitted when the MIDI setting “System Exclusive Message - Transmit” is set to off.

MIDI Parameter Change table (XG SYSTEM)

[MIDI] [Internal sequencer]

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

TOTAL SIZE 07

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

MIDI Parameter Change table (SYSTEM INFORMATION)

[MIDI] [Internal sequencer]

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

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

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

TOTAL SIZE 0E

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

TOTAL SIZE 06

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

TOTAL SIZE 0F

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

TOTAL SIZE 06

								MIDI										[Internal sequencer]		
Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
								Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
02	01	40	2	00 – 7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05 (=DELAY L, C, R)	O	O			O					●			O	O	O
				00 – 7F	VARIATION TYPE LSB	Refer to Effect Parameter List	00															
		42	2	00 – 7F	VARIATION PARAMETER 1 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 1 LSB	Refer to Effect Parameter List																
		44	2	00 – 7F	VARIATION PARAMETER 2 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 2 LSB	Refer to Effect Parameter List																
		46	2	00 – 7F	VARIATION PARAMETER 3 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 3 LSB	Refer to Effect Parameter List																
		48	2	00 – 7F	VARIATION PARAMETER 4 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 4 LSB	Refer to Effect Parameter List																
		4A	2	00 – 7F	VARIATION PARAMETER 5 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 5 LSB	Refer to Effect Parameter List																
		4C	2	00 – 7F	VARIATION PARAMETER 6 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 6 LSB	Refer to Effect Parameter List																
		4E	2	00 – 7F	VARIATION PARAMETER 7 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 7 LSB	Refer to Effect Parameter List																
		50	2	00 – 7F	VARIATION PARAMETER 8 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 8 LSB	Refer to Effect Parameter List																
		52	2	00 – 7F	VARIATION PARAMETER 9 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 9 LSB	Refer to Effect Parameter List																
		54	2	00 – 7F	VARIATION PARAMETER 10 MSB	Refer to Effect Parameter List	Depends on Variation Type	O	O			O					●			O	O	O
				00 – 7F	VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List																
		56	1	00 – 7F	VARIATION RETURN	-∞dB…0dB…+6dB (0…64…127)	40	O	O			O					●			O	O	O
		57	1	01 – 7F	VARIATION PAN	L63…C…R63	40	O	O			O					O			O	O	X
		58	1	00 – 7F	SEND VARIATION TO REVERB	-∞dB…0dB…+6dB (0…64…127)	00	O	O			O					O			O	O	X
		59	1	00 – 7F	SEND VARIATION TO CHORUS	-∞dB…0dB…+6dB (0…64…127)	00	O	O			O					O			O	O	X
		5A	1	00 – 01	VARIATION CONNECTION	INSERTION, SYSTEM	00	O	O			O					●			O	O	O
		5B	1	00 – 7F	VARIATION PART NUMBER	Reception: Part1…16 (0…15) Transmission: Part1…16 (0…15) AD (64) OFF (127)	7F	O	O			O					●			O	O	O
		5C	1	00 – 7F	MW VARIATION CONTROL DEPTH	-64…0…+63	40	O	O			O					O			O	O	X
		5D	1	00 – 7F	BEND VARIATION CONTROL DEPTH	-64…0…+63	40	O	O			O					O			O	O	X
		5E	1	00 – 7F	CAT VARIATION CONTROL DEPTH	-64…0…+63	40	O	O			O					O			O	O	X
		5F	1	00 – 7F	AC1 VARIATION CONTROL DEPTH	-64…0…+63	40	O	O			O					O			O	O	X
		60	1	00 – 7F	AC2 VARIATION CONTROL DEPTH	-64…0…+63	40	O	O			O					O			O	O	X
TOTAL SIZE			21																			

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

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

MIDI Parameter Change table (MULTI EQ)

Address (H)			Size (H)	Data (H)	Parameter	Description	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Internal sequencer] PLAY		REC
						* The MULTI EQ parameter cannot be reset to its factory setting with XG SYSTEM ON.	Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
02	40	00	1	00 – 04	EQ TYPE	flat, jazz, pops, rock, classic	O	O		O				O					O	X	X
		01	1	34 – 4C	EQ GAIN1	-12…0…+12 [dB]	O	O		O				●					O	X	X
		02	1	04 – 28	EQ FREQUENCY1	32…2.0k [Hz]	O	O		O				●					O	X	X
		03	1	01 – 78	EQ Q1	0.1…12.0	O	O		O				●					O	X	X
		04	1	00 – 01	EQ SHAPE1	shelving, peaking	O	O		O				O					O	X	X
		05	1	34 – 4C	EQ GAIN2	-12…0…+12 [dB]	O	O		O				●					O	X	X
		06	1	0E – 36	EQ FREQUENCY2	100…10.0k [Hz]	O	O		O				●					O	X	X
		07	1	01 – 78	EQ Q2	0.1…12.0	O	O		O				●					O	X	X
		08	1		NOT USED		–	–		–				–					–	–	–
		09	1	34 – 4C	EQ GAIN3	-12…0…+12 [dB]	O	O		O				●					O	X	X
		0A	1	0E – 36	EQ FREQUENCY3	100…10.0k [Hz]	O	O		O				●					O	X	X
		0B	1	01 – 78	EQ Q3	0.1…12.0	O	O		O				●					O	X	X
		0C	1		NOT USED		–	–		–				–					–	–	–
		0D	1	34 – 4C	EQ GAIN4	-12…0…+12 [dB]	O	O		O				●					O	X	X
		0E	1	0E – 36	EQ FREQUENCY4	100…10.0k [Hz]	O	O		O				●					O	X	X
		0F	1	01 – 78	EQ Q4	0.1…12.0	O	O		O				●					O	X	X
		10	1		NOT USED		–	–		–				–					–	–	–
		11	1	34 – 4C	EQ GAIN5	-12…0…+12 [dB]	O	O		O				●					O	X	X
		12	1	1C – 3A	EQ FREQUENCY5	0.5k…16.0k [Hz]	O	O		O				●					O	X	X
		13	1	01 – 78	EQ Q5	0.1…12.0	O	O		O				●					O	X	X
		14	1	00 – 01	EQ SHAPE5	shelving, peaking	O	O		O				O					O	X	X

TOTAL SIZE 15

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

		20	1	34 – 4C	EQ GAIN6	-12 - +12[dB]	O	O		O				●					O	X	X
		21	1	0E – 36	EQ FREQUENCY6	100-10.0[kHz]	O	O		O				●					O	X	X
		22	1	01 – 78	EQ Q6	0.1-12.0	O	O		O				●					O	X	X
		23	1		NOT USED		O	O		O				O					O	X	X
		24	1	34 – 4C	EQ GAIN7	-12 - +12[dB]	O	O		O				●					O	X	X
		25	1	0E – 36	EQ FREQUENCY7	100-10.0[kHz]	O	O		O				●					O	X	X
		26	1	01 – 78	EQ Q7	0.1-12.0	O	O		O				●					O	X	X
		27	1		NOT USED		-	-		-				-					-	-	-
		28	1	34 – 4C	EQ GAIN8	-12 - +12[dB]	O	O		O				●					O	X	X
		29	1	0E – 36	EQ FREQUENCY8	100-10.0[kHz]	O	O		O				●					O	X	X
		2A	1	01 – 78	EQ Q8	0.1-12.0	O	O		O				O					O	X	X
		2B	1		NOT USED		-	-		-				-					-	-	-
		2C	1	34 – 4C	EQ GAIN9	-12 - +12[dB]	O	O		O				●					O	X	X
		2D	1	0E – 36	EQ FREQUENCY9	100-10.0[kHz]	O	O		O				●					O	X	X
		2E	1	01 – 78	EQ Q9	0.1-12.0	O	O		O				●					O	X	X
		2F	1		NOT USED		-	-		-				-					-	-	-
		30	1	34 – 4C	EQ GAIN10	-12 - +12[dB]	O	O		O				●					O	X	X
		31	1	0E – 36	EQ FREQUENCY10	100-10.0[kHz]	O	O		O				●					O	X	X
		32	1	01 – 78	EQ Q10	0.1-12.0	O	O		O				●					O	X	X
		33	1		NOT USED		O	O		O				O					O	X	X

TOTAL SIZE 14

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

MIDI Parameter Change table (EFFECT2)

Address (H)			Size (H)	Data (H)	Parameter	Description	[MIDI] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Internal sequencer] PLAY		REC
						* The EFFECT2 parameter cannot be reset to its factory setting with XG SYSTEM ON.	Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
03	n	00	2	00 – 7F	INSERTION EFFECT TYPE MSB	Refer to Effect Parameter List	O	O		O				●					O	O	O
				00 – 7F	INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List															
		02	1	00 – 7F	INSERTION EFFECT PARAMETER 1	Refer to Effect Parameter List	O	O		O				●					O	O	O
		03	1	00 – 7F	INSERTION EFFECT PARAMETER 2	Refer to Effect Parameter List	O	O		O				●					O	O	O
		04	1	00 – 7F	INSERTION EFFECT PARAMETER 3	Refer to Effect Parameter List	O	O		O				●					O	O	O
		05	1	00 – 7F	INSERTION EFFECT PARAMETER 4	Refer to Effect Parameter List	O	O		O				●					O	O	O
		06	1	00 – 7F	INSERTION EFFECT PARAMETER 5	Refer to Effect Parameter List	O	O		O				●					O	O	O
		07	1	00 – 7F	INSERTION EFFECT PARAMETER 6	Refer to Effect Parameter List	O	O		O				●					O	O	O
		08	1	00 – 7F	INSERTION EFFECT PARAMETER 7	Refer to Effect Parameter List	O	O		O				●					O	O	O
		09	1	00 – 7F	INSERTION EFFECT PARAMETER 8	Refer to Effect Parameter List	O	O		O				●					O	O	O
		0A	1	00 – 7F	INSERTION EFFECT PARAMETER 9	Refer to Effect Parameter List	O	O		O				●					O	O	O
		0B	1	00 – 7F	INSERTION EFFECT PARAMETER 10	Refer to Effect Parameter List	O	O		O				●					O	O	O

							[MIDI]												[Internal sequencer]		
Address (H)			Size (H)	Data (H)	Parameter	Description	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
						* The EFFECT2 parameter cannot be reset to its factory setting with XG SYSTEM ON.	Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		0C	1	00 – 7F	INSERTION EFFECT PART NUMBER	Reception : Part1...16 (0...15) Transmission : Part1...16 (0...15) AD (64) OFF (127)	O	O	O					●					O	O	O
		0D	1	00 – 7F	MW INSERTION CONTROL DEPTH	-64…0…+63	O	O	O					O					O	O	X
		0E	1	00 – 7F	BEND INSERTION CONTROL DEPTH	-64…0…+63	O	O	O					O					O	O	X
		0F	1	00 – 7F	CAT INSERTION CONTROL DEPTH	-64…0…+63	O	O	O					O					O	O	X
		10	1	00 – 7F	AC1 INSERTION CONTROL DEPTH	-64…0…+63	O	O	O					O					O	O	X
		11	1	00 – 7F	AC2 INSERTION CONTROL DEPTH	-64…0…+63	O	O	O					O					O	O	O
TOTAL SIZE			12																		
		20	1	00 – 7F	INSERTION EFFECT PARAMETER 11	Refer to Effect Parameter List	O	O	O					●					O	O	O
		21	1	00 – 7F	INSERTION EFFECT PARAMETER 12	Refer to Effect Parameter List	O	O	O					●					O	O	O
		22	1	00 – 7F	INSERTION EFFECT PARAMETER 13	Refer to Effect Parameter List	O	O	O					●					O	O	O
		23	1	00 – 7F	INSERTION EFFECT PARAMETER 14	Refer to Effect Parameter List	O	O	O					●					O	O	O
		24	1	00 – 7F	INSERTION EFFECT PARAMETER 15	Refer to Effect Parameter List	O	O	O					●					O	O	O
		25	1	00 – 7F	INSERTION EFFECT PARAMETER 16	Refer to Effect Parameter List	O	O	O					●					O	O	O
TOTAL SIZE			6																		
		30	2	00 – 7F	INSERTION EFFECT PARAMETER 1 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 1 LSB	Refer to Effect Parameter List															
		32	2	00 – 7F	INSERTION EFFECT PARAMETER 2 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 2 LSB	Refer to Effect Parameter List															
		34	2	00 – 7F	INSERTION EFFECT PARAMETER 3 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 3 LSB	Refer to Effect Parameter List															
		36	2	00 – 7F	INSERTION EFFECT PARAMETER 4 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 4 LSB	Refer to Effect Parameter List															
		38	2	00 – 7F	INSERTION EFFECT PARAMETER 5 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 5 LSB	Refer to Effect Parameter List															
		3A	2	00 – 7F	INSERTION EFFECT PARAMETER 6 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 6 LSB	Refer to Effect Parameter List															
		3C	2	00 – 7F	INSERTION EFFECT PARAMETER 7 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 7 LSB	Refer to Effect Parameter List															
		3E	2	00 – 7F	INSERTION EFFECT PARAMETER 8 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 8 LSB	Refer to Effect Parameter List															
		40	2	00 – 7F	INSERTION EFFECT PARAMETER 9 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 9 LSB	Refer to Effect Parameter List															
		42	2	00 – 7F	INSERTION EFFECT PARAMETER 10 MSB	Refer to Effect Parameter List	O	O	O					●					O	O	O
				00 – 7F	INSERTION EFFECT PARAMETER 10 LSB	Refer to Effect Parameter List															
TOTAL SIZE			14																		

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

The second byte of the address is considered as an Insertion effect number.
n : insertion effect number (n = 0–19)

For effect types that do not require MSB, the Parameters for Address 02–0B will be received and the Parameters for Address 30–42 will not be received.
For effect types that require MSB, the Parameters for Address 30–42 will be received and the Parameters for Address 02–0B will not be received.
Type MSB of the effect types that require Parameter MSB are: 5, 6, 7, 8, 95, 96, 97, 98, 104.

When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02–0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02–0B will not be received.

MIDI Parameter Change table (SPECIAL EFFECT)

[MIDI] [Internal sequencer]

Address (H)			Size (H)	Data (H)	Parameter	Description	Voice		MIDI Reception					MIDI Transmission						PLAY		REC
						* The SPECIAL EFFECT parameter cannot be reset to its factory setting with XG SYSTEM ON.	Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower		PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
04	00	00	2	00 – 7F	VOCAL HARMONY TYPE MSB	Vocal Haomony (12), Synth Vocoder (13), Vocoder XG (89), Chordal XG (90), Detune XG (91), Chromatic XG (92), Thru (0…11, 14…88, 93…127)	X	O		O					●					O	O	X
				00 – 7F	VOCAL HARMONY TYPE LSB																	
		02	1	00 – 7F	VOCAL HARMONY PARAMETER 1		X	O		O					●					O	O	X
		03	1	00 – 7F	VOCAL HARMONY PARAMETER 2		X	O		O					●					O	O	X
		04	1	00 – 7F	VOCAL HARMONY PARAMETER 3		X	O		O					●					O	O	X
		05	1	00 – 7F	VOCAL HARMONY PARAMETER 4		X	O		O					●					O	O	X
		06	1	00 – 7F	VOCAL HARMONY PARAMETER 5		X	O		O					O					O	O	X
		07	1	00 – 7F	VOCAL HARMONY PARAMETER 6		X	O		O					O					O	O	X
		08	1	00 – 7F	VOCAL HARMONY PARAMETER 7		X	O		O					●					O	O	X
		09	1	00 – 7F	VOCAL HARMONY PARAMETER 8		X	O		O					●					O	O	X
		0A	1	00 – 7F	VOCAL HARMONY PARAMETER 9		X	O		O					●					O	O	X
		0B	1	00 – 7F	VOCAL HARMONY PARAMETER 10		X	O		O					O					O	O	X
		0C	1	00 – 7F	VOCAL HARMONY PART NUMBER	ON (64), OFF (0…63, 65…127)	X	O		O					●					O	O	O
		0D	1	00 – 7F	MW INSERTION CONTROL DEPTH	-64…0…+63	X	X		X					X					X	X	X
		0E	1	00 – 7F	BEND INSERTION CONTROL DEPTH	-64…0…+63	X	X		X					X					X	X	X
		0F	1	00 – 7F	CAT INSERTION CONTROL DEPTH	-64…0…+63	X	X		X					X					X	X	X
		10	1	00 – 7F	AC1 INSERTION CONTROL DEPTH	-64…0…+63	X	X		X					X					X	X	X
		11	1	00 – 7F	AC2 INSERTION CONTROL DEPTH	-64…0…+63	X	X		X					X					X	X	X
TOTAL SIZE			0D																			
		14	1	00 – 7F	HARMONY CHANNEL	1…16 (0…15), OFF (127)	X	O		O					●					O	O	X
		15	1	00 – 7F	MELODY CHANNEL	1…16 (0…15), OFF (127)	X	O		O					O					O	O	X
TOTAL SIZE			2																			
		16	1	00 – 7F	Lead Output Level		X	O		O					●					O	O	X
		17	1	00 – 7F	Harmony Output Level		X	O		O					●					O	O	X
TOTAL SIZE			2																			
		18	1	00 – 7F	Lead Vocal Effect Dry Level		X	O		O					●					O	O	X
		19	1	00 – 7F	Harmony Vocal Effect Dry Level		X	O		O					●					O	O	X
		1A	1	00 – 7F	Lead Vocal Effect Send Level		X	O		O					●					O	O	X
		1B	1	00 – 7F	Harmony Vocal Effect Send Level		X	O		O					●					O	O	X
TOTAL SIZE			4																			
		20	1	00 – 7F	VOCAL HARMONY PARAMETER 11		X	O		O					●					O	O	X
		21	1	00 – 7F	VOCAL HARMONY PARAMETER 12		X	O		O					●					O	O	X
		22	1	00 – 7F	VOCAL HARMONY PARAMETER 13		X	O		O					●					O	O	X
		23	1	00 – 7F	VOCAL HARMONY PARAMETER 14		X	O		O					●					O	O	X
		24	1	00 – 7F	VOCAL HARMONY PARAMETER 15		X	O		O					●					O	O	X
		25	1	00 – 7F	VOCAL HARMONY PARAMETER 16		X	O		O					●					O	O	X
TOTAL SIZE			6																			
		26	1	00 – 7F	VOCAL HARMONY PARAMETER 17		X	O		O					●					O	O	X
		27	1	00 – 7F	VOCAL HARMONY PARAMETER 18		X	O		O					●					O	O	X
		28	1	00 – 7F	VOCAL HARMONY PARAMETER 19		X	O		O					●					O	O	X
		29	1	00 – 7F	VOCAL HARMONY PARAMETER 20		X	O		O					●					O	O	X
		2A	1	00 – 7F	VOCAL HARMONY PARAMETER 21		X	O		O					●					O	O	X
		2B	1	00 – 7F	VOCAL HARMONY PARAMETER 22		X	O		O					●					O	O	X
		2C	1	00 – 7F	VOCAL HARMONY PARAMETER 23		X	O		O					●					O	O	X
		2D	1	00 – 7F	VOCAL HARMONY PARAMETER 24		X	O		O					●					O	O	X
		2E	1	00 – 7F	VOCAL HARMONY PARAMETER 25		X	O		O					●					O	O	X
		2F	1	00 – 7F	VOCAL HARMONY PARAMETER 26		X	O		O					●					O	O	X
		30	1	00 – 7F	VOCAL HARMONY PARAMETER 27		X	O		O					●					O	O	X
		31	1	00 – 7F	VOCAL HARMONY PARAMETER 28		X	O		O					●					O	O	X
		32	1	00 – 7F	VOCAL HARMONY PARAMETER 29		X	O		O					●					O	O	X
		33	1	00 – 7F	VOCAL HARMONY PARAMETER 30		X	O		O					●					O	O	X
		34	1	00 – 7F	VOCAL HARMONY PARAMETER 31		X	O		O					●					O	O	X
		35	1	00 – 7F	VOCAL HARMONY PARAMETER 32		X	O		O					●					O	O	X
		36	1	00 – 7F	VOCAL HARMONY PARAMETER 33		X	O		O					●					O	O	X
		37	1	00 – 7F	VOCAL HARMONY PARAMETER 34		X	O		O					●					O	O	X
		38	1	00 – 7F	VOCAL HARMONY PARAMETER 35		X	O		O					●					O	O	X
		39	1	00 – 7F	VOCAL HARMONY PARAMETER 36		X	O		O					●					O	O	X
		3A	1	00 – 7F	VOCAL HARMONY PARAMETER 37		X	O		O					●					O	O	X
		3B	1	00 – 7F	VOCAL HARMONY PARAMETER 38		X	O		O					●					O	O	X
		3C	1	00 – 7F	VOCAL HARMONY PARAMETER 39		X	O		O					●					O	O	X
		3D	1	00 – 7F	VOCAL HARMONY PARAMETER 40		X	O		O					●					O	O	X
		3E	1	00 – 7F	VOCAL HARMONY PARAMETER 41		X	O		O					●					O	O	X
		3F	1	00 – 7F	VOCAL HARMONY PARAMETER 42		X	O		O					●					O	O	X
		40	1	00 – 7F	VOCAL HARMONY PARAMETER 43		X	O		O					●					O	O	X
		41	1	00 – 7F	VOCAL HARMONY PARAMETER 44		X	O		O					●					O	O	X
		42	1	00 – 7F	VOCAL HARMONY PARAMETER 45		X	O		O					●					O	O	X
		43	1	00 – 7F	VOCAL HARMONY PARAMETER 46		X	O		O					●					O	O	X
		44	1	00 – 7F	VOCAL HARMONY PARAMETER 47		X	O		O					●					O	O	X
		45	1	00 – 7F	VOCAL HARMONY PARAMETER 48		X	O		O					●					O	O	X
TOTAL SIZE			20																			

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

TOTAL SIZE 18

04	00	7A	1	00 – 7F	VOCAL EFFECT PARAMETER 11		X	O	O	●	O	O	X
		7B	1	00 – 7F	VOCAL EFFECT PARAMETER 12		X	O	O	●	O	O	X
		7C	1	00 – 7F	VOCAL EFFECT PARAMETER 13		X	O	O	●	O	O	X
		7D	1	00 – 7F	VOCAL EFFECT PARAMETER 14		X	O	O	●	O	O	X
		7E	1	00 – 7F	VOCAL EFFECT PARAMETER 15		X	O	O	●	O	O	X
		7F	1	00 – 7F	VOCAL EFFECT PARAMETER 16		X	O	O	●	O	O	X

TOTAL SIZE 6

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

MIDI Parameter Change table (MULTI PART)

								[MIDI]										[Internal sequencer]		
Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY	REC
								Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	From panel (Right1/ Right2/ Right3/ Left)
08	nn	00	1	00 – 20	ELEMENT RESERVE	0…32	part10, 26=0, other parts=2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		01	1	00 – 7F	BANK SELECT MSB	0…127	part10=7F, other parts=00	O	X	O	O	X	O	O	X	X	X	O	X	O	X
		02	1	00 – 7F	BANK SELECT LSB	0…127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X
		03	1	00 – 7F	PROGRAM NUMBER	1…128	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X
		04	1	00 – 0F, 7F	Rcv CHANNEL	1…16, OFF	Part No.	O	X	O	X	X	X	X	X	X	X	O	X	O	X
		05	1	00 – 01	MONO/POLY MODE	MONO, POLY	01	O	X	O	X	X	X	X	X	X	X	O	X	O	O
		06	1	00 – 02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	O	X	O	X	X	O	X	X	X	X	O	X	O	X
		07	1	00 – 03	PART MODE	NORMAL, DRUM, DRUMS1…2	part10=02, other parts=00	O	X	O	X	X	X	X	●	X	●	●	X	O	X	O
		08	1	28 – 58	NOTE SHIFT	-24…0…+24 [semitones]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		09 0A	2	00 – 0F 00 – 0F	DETUNE	-12.8…0…+12.7 [Hz] 1st bit3 – 0→bit7 – 4 2nd bit3 – 0→bit3 – 0	08 00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		0B	1	00 – 7F	VOLUME	0…127	64	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		0C	1	00 – 7F	VELOCITY SENSE DEPTH	0…127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		0D	1	00 – 7F	VELOCITY SENSE OFFSET	0…127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		0E	1	00 – 7F	PAN	RND, L63…C…R63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		0F	1	00 – 7F	NOTE LIMIT LOW	C-2…G8	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		10	1	00 – 7F	NOTE LIMIT HIGH	C-2…G8	7F	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		11	1	00 – 7F	DRY LEVEL	0…127	7F	O	X	O	O	X	O	O	X	O	O	O	X	O	O	O
		12	1	00 – 7F	CHORUS SEND	0…127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		13	1	00 – 7F	REVERB SEND	0…127	28	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		14	1	00 – 7F	VARIATION SEND	0…127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	O	O
		15	1	00 – 7F	VIBRATO RATE	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		16	1	00 – 7F	VIBRATO DEPTH	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		17	1	00 – 7F	VIBRATO DELAY	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		18	1	00 – 7F	FILTER CUTOFF FREQUENCY	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		19	1	00 – 7F	FILTER RESONANCE	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1A	1	00 – 7F	EG ATTACK TIME	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1B	1	00 – 7F	EG DECAY TIME	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1C	1	00 – 7F	EG RELEASE TIME	-64…0…+63	40	O	X	O	O	X	O	O	X	X	X	O	X	O	O	X
		1D	1	28 – 58	MW PITCH CONTROL	-24…0…+24 [semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		1E	1	00 – 7F	MW LOW PASS FILTER CONTROL	-9600…0…+9450 [cent]	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		1F	1	00 – 7F	MW AMPLITUDE CONTROL	-100…0…+100 [%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		20	1	00 – 7F	MW LFO PMOD DEPTH	0…127	0A	O	X	O	O	X	X	O	●	O	O	O	X	O	O	O
		21	1	00 – 7F	MW LFO FMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	O	O	X	O	O	O
		22	1	00 – 7F	MW LFO AMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	O	O	X	O	O	O

[MIDI] [Internal sequencer]

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
								Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
		23	1	28 – 58	BEND PITCH CONTROL	-24…0…+24 [semitones]	42	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		24	1	00 – 7F	BEND LOW PASS FILTER CONTROL	-9600…0…+9450 [cent]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		25	1	00 – 7F	BEND AMPLITUDE CONTROL	-100…0…+100 [%]	40	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		26	1	00 – 7F	BEND LFO PMOD DEPTH	0…127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		27	1	00 – 7F	BEND LFO FMOD DEPTH	0…127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
		28	1	00 – 7F	BEND LFO AMOD DEPTH	0…127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	X
TOTAL SIZE		29																				
		30	1	00 – 01	Rcv PITCH BEND	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		31	1	00 – 01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		32	1	00 – 01	Rcv PROGRAM CHANGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		33	1	00 – 01	Rcv CONTROL CHANGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		34	1	00 – 01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		35	1	00 – 01	Rcv NOTE MESSAGE	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		36	1	00 – 01	Rcv RPN	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		37	1	00 – 01	Rcv NRPN	OFF, ON	XGmode=01, GMmode=00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		38	1	00 – 01	Rcv MODULATION	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		39	1	00 – 01	Rcv VOLUME	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3A	1	00 – 01	Rcv PAN	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3B	1	00 – 01	Rcv EXPRESSION	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3C	1	00 – 01	Rcv HOLD1	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3D	1	00 – 01	Rcv PORTAMENTO	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3E	1	00 – 01	Rcv SOSTENUTO	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		3F	1	00 – 01	Rcv SOFT PEDAL	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		40	1	00 – 01	Rcv BANK SELECT	OFF, ON	01	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		41	1	00 – 7F	SCALE TUNING C	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		42	1	00 – 7F	SCALE TUNING C#	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		43	1	00 – 7F	SCALE TUNING D	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		44	1	00 – 7F	SCALE TUNING D#	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		45	1	00 – 7F	SCALE TUNING E	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		46	1	00 – 7F	SCALE TUNING F	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		47	1	00 – 7F	SCALE TUNING F#	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		48	1	00 – 7F	SCALE TUNING G	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		49	1	00 – 7F	SCALE TUNING G#	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		4A	1	00 – 7F	SCALE TUNING A	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		4B	1	00 – 7F	SCALE TUNING A#	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		4C	1	00 – 7F	SCALE TUNING B	-64…0…+63 [cent]	40	O	X	O	O	X	O	O	●	●	●	O	X	O	O	O
		4D	1	28 – 58	CAT PITCH CONTROL	-24…0…+24 [semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		4E	1	00 – 7F	CAT LOW PASS FILTER CONTROL	-9600…0…+9450 [cent]	40	O	X	O	O	X	X	O	●	O	X	O	●	O	O	X
		4F	1	00 – 7F	CAT AMPLITUDE CONTROL	-100…0…+100 [%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		50	1	00 – 7F	CAT LFO PMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	X	O	●	O	O	X
		51	1	00 – 7F	CAT LFO FMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	X	O	●	O	O	X
		52	1	00 – 7F	CAT LFO AMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	X	O	●	O	O	X
		53	1	28 – 58	PAT PITCH CONTROL	-24…0…+24 [semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		54	1	00 – 7F	PAT LOW PASS FILTER CONTROL	-9600…0…+9450 [cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		55	1	00 – 7F	PAT AMPLITUDE CONTROL	-100…0…+100 [%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		56	1	00 – 7F	PAT LFO PMOD DEPTH	0…127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		57	1	00 – 7F	PAT LFO FMOD DEPTH	0…127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		58	1	00 – 7F	PAT LFO AMOD DEPTH	0…127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		59	1	00 – 5F	AC1 CONTROLLER NUMBER	0…95	10	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		5A	1	28 – 58	AC1 PITCH CONTROL	-24…0…+24 [semitones]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		5B	1	00 – 7F	AC1 LOW PASS FILTER CONTROL	-9600…0…+9450 [cent]	40	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		5C	1	00 – 7F	AC1 AMPLITUDE CONTROL	-100…0…+100 [%]	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		5D	1	00 – 7F	AC1 LFO PMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		5E	1	00 – 7F	AC1 LFO FMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		5F	1	00 – 7F	AC1 LFO AMOD DEPTH	0…127	00	O	X	O	O	X	X	O	●	O	X	O	X	O	O	O
		60	1	00 – 5F	AC2 CONTROLLER NUMBER	0…95	11	O	X	O	O	X	X	X	X	X	X	O	X	O	O	O
		61	1	28 – 58	AC2 PITCH CONTROL	-24…0…+24 [semitones]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		62	1	00 – 7F	AC2 LOW PASS FILTER CONTROL	-9600…0…+9450 [cent]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		63	1	00 – 7F	AC2 AMPLITUDE CONTROL	-100…0…+100 [%]	40	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		64	1	00 – 7F	AC2 LFO PMOD DEPTH	0…127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		65	1	00 – 7F	AC2 LFO FMOD DEPTH	0…127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		66	1	00 – 7F	AC2 LFO AMOD DEPTH	0…127	00	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
		67	1	00 – 01	PORTAMENTO SWITCH	OFF, ON	00	0 (Except S.Art Piano, Organ Flutes)	X	O	O	X	X	O	X	X	X	O	X	O	O	X
		68	1	00 – 7F	PORTAMENTO TIME	0…127	00	O	X	O	O	X	X	O	X	X	X	O	X	O	O	X
		69	1	00 – 7F	PITCH EG INITIAL LEVEL	-64…0…+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6A	1	00 – 7F	PITCH EG ATTACK TIME	-64…0…+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6B	1	00 – 7F	PITCH EG RELEASE LEVEL	-64…0…+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6C	1	00 – 7F	PITCH EG RELEASE TIME	-64…0…+63	40	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6D	1	01 – 7F	VELOCITY LIMIT LOW	1…127	01	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
		6E	1	01 – 7F	VELOCITY LIMIT HIGH	1…127	7F	O	X	O	O	X	X	O	X	X	X	O	X	O	X	X
TOTAL SIZE		3F																				

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

TOTAL SIZE 04

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

TOTAL SIZE 0C

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

0A	nn	00	1		NOT USED		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		01	1	00 – 01	Mono Priority	Lastest, Highest	00	O (Regular only)	–	O	X	X	X	X	●	O	X	O	X	O	O	O
		02	1	00 – 01	Portamento Mono Legato	Normal, Pitch Poly	00	O (Regular only)	–	O	X	X	X	X	●	O	X	O	X	O	O	O

TOTAL SIZE 03

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

TOTAL SIZE 06

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

nn = PART NUMBER

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

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

MIDI Parameter Change table (A/D PART)

[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.	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
						Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
10	0n	00	1	00 – 01	INPUT GAIN	MIC, LINE	X	X		X					X			X	X	X
		01	1	00 – 7F	BANK SELECT MSB	0…127	X	X		X					X			X	X	X
		02	1	00 – 7F	BANK SELECT LSB	0…127	X	X		X					X			X	X	X
		03	1	00 – 7F	PROGRAM NUMBER	1…128	X	X		X					X			X	X	X
		04	1	00 – 0F, 7F	Rcv CHANNEL	1…32 (*1), OFF	X	O		O					O			O	X	X
		05	1		NOT USED		–	–		–					–			–	–	–
		06	1		NOT USED		–	–		–					–			–	–	–
		07	1		NOT USED		–	–		–					–			–	–	–
		08	1		NOT USED		–	–		–					–			–	–	–
		09	1		NOT USED		–	–		–					–			–	–	–
		0A	1		NOT USED		–	–		–					–			–	–	–
		0B	1	00 – 7F	VOLUME	0…127	X	O		O					●			O	X	X
		0C	1		NOT USED		–	–		–					–			–	–	–
		0D	1		NOT USED		–	–		–					–			–	–	–
		0E	1	01 – 7F	PAN	L63…C…R63	X	O		O					●			O	X	X
		0F	1		NOT USED		–	–		–					–			–	–	–
		10	1		NOT USED		–	–		–					–			–	–	–
		11	1	00 – 7F	DRY LEVEL	0…127	X	O		O					●			O	X	X
		12	1	00 – 7F	CHORUS SEND	0…127	X	O		O					●			O	X	X
		13	1	00 – 7F	REVERB SEND	0…127	X	O		O					●			O	X	X
		14	1	00 – 7F	VARIATION SEND	0…127	X	O		O					●			O	X	X

TOTAL SIZE 15

*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] Voice		[MIDI] MIDI Reception					[MIDI] MIDI Transmission					[Internal sequencer] PLAY		REC
								Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
3n	rr	00	1	00 – 7F	PITCH COARSE	-64…0…+63	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		01	1	00 – 7F	PITCH FINE	-64…0…+63 [cent]	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		02	1	00 – 7F	LEVEL	0…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		03	1	00 – 7F	ALTERNATE GROUP	OFF, 1…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		04	1	00 – 7F	PAN	RND, L63…C…R63	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		05	1	00 – 7F	REVERB SEND	0…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		06	1	00 – 7F	CHORUS SEND	0…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		07	1	00 – 7F	VARIATION SEND	0…127	7F	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		08	1	00 – 01	KEY ASSIGN	SINGLE, MULTI	00	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		09	1	00 – 01	Rcv NOTE OFF	OFF, ON	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		0A	1	00 – 01	Rcv NOTE ON	OFF, ON	01	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		0B	1	00 – 7F	LOW PASS FILTER CUTOFF FREQUENCY	-64…0…+63	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		0C	1	00 – 7F	LOW PASS FILTER RESONANCE	-64…0…+63	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		0D	1	00 – 7F	EG ATTACK RATE	-64…0…+63	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		0E	1	00 – 7F	EG DECAY1 RATE	-64…0…+63	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
		0F	1	00 – 7F	EG DECAY2 RATE	-64…0…+63	40	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
TOTAL SIZE 10																						
		20	1	00 – 7F	EQ BASS GAIN	-12…+12 [dB]	40	X	X	X					O					X	X	X
		21	1	00 – 7F	EQ TREBLE GAIN	-12…+12 [dB]	40	X	X	X					O					X	X	X
		22	1		NOT USED		–	–	–	–					–					–	–	–
		23	1		NOT USED		–	–	–	–					–					–	–	–
		24	1	04 – 28	EQ BASS FREQUENCY	32…2.0k [Hz]	0C	X	X	X					O					X	X	X
		25	1	1C – 3A	EQ TREBLE FREQUENCY	500…16.0k [Hz]	36	X	X	X					O					X	X	X
		26	1		NOT USED		–	–	–	–					–					–	–	–
		27	1		NOT USED		–	–	–	–					–					–	–	–
		28	1		NOT USED		–	–	–	–					–					–	–	–
		29	1		NOT USED		–	–	–	–					–					–	–	–
		2A	1		NOT USED		–	–	–	–					–					–	–	–
		2B	1		NOT USED		–	–	–	–					–					–	–	–
		2C	1		NOT USED		–	–	–	–					–					–	–	–
		2D	1		NOT USED		–	–	–	–					–					–	–	–
TOTAL SIZE 0E																						
		70	4	00 – 7F	SOURCE DRUM KIT(Bank Select MSB)	0…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
				00 – 7F	SOURCE DRUM KIT(Bank Select LSB)	0…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
				00 – 7F	SOURCE DRUM KIT(Program Number)	0…127	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
				0D – 5B	SOURCE DRUM KIT(Note Number)	C-1…G5	Depends on the note	O (Drum only)	X	O (Available only for Song parts)					O					O	X	X
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.

SYSTEM EXCLUSIVE MESSAGES (1)

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

- Not received when the MIDI setting “System Exclusive Message - Receive” is set to off.
- Not transmitted when the MIDI setting “System Exclusive Message - Transmit” is set to off.

System Exclusive Messages (Universal Real Time Messages)

[MIDI] [Internal sequencer]

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

[MIDI] [Internal sequencer]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission					PLAY		REC
		Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower	PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)
Channel Pressure (Aftertouch) [GM2]	F0 7F XN 09 01 0M PP RR ... F7	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Controller (Control Change) [GM2]	F0 7F XN 09 03 0M CC PP RR ... F7	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
Key-Based Instrument [GM2]	F0 7F XN 0A 01 0M KK CC VV ... F7	O (Drum only)	X	O	X	X	X	X	X	X	X	O	X	O	X	X

Channel Pressure (Aftertouch) [GM2]

```
11110000  F0  = Exclusive status
01111111  7F  = Universal Real Time
0xxxnnnn  XN  = When N is received N=0 – F, whichever is received. X=ignored
00001001  09  = Sub-ID #1=Controller Destination Setting
00000001  01  = Sub-ID #2=Controller Type:01 (Channel Pressure)
0000mmmm  0M  = MIDI Channel (00 – 0F)
0ppppppp  PP  = Controlled Parameter
0rrrrrrr  RR  = Range
    :         :
11110111  F7  = End of Exclusive
```

Make sure to set both the Controlled Parameter and the Range.
Parameters not set will be restored to their default values.

Control Parameter(pp)	Range(RR)	Description	Default Value
pp=00 Pitch Control	28H – 58H	-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

Controller (Control Change) [GM2]

```
11110000  F0  = Exclusive status
01111111  7F  = Universal Real Time
0xxxnnnn  XN  = When N is received N=0 – F,whichever is received. X=ignored
00001001  09  = Sub-ID #1=Controller Destination Setting
00000011  03  = Sub-ID #2=Controller Type:03 (Control Change)
0000mmmm  0M  = MIDI Channel (00 – 0F)
0ccccccc  CC  = Controller Number (01H – 1FH, 40H – 5FH)
0ppppppp  PP  = Controlled Parameter
0rrrrrrr  RR  = Range
    :         :
11110111  F7  = End of Exclusive
```

Make sure to set both the Controlled Parameter and the Range.
Parameters not set will be restored to their default values.

Control Parameter(pp)	Range(RR)	Description	Default Value
pp=00 Pitch Control	28H – 58H	-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

Key-Based Instrument [GM2]

```
11110000  F0  = Exclusive status
01111111  7F  = Universal Real Time
0xxxnnnn  XN  = When N is received N=0 – F, whichever is received. X=ignored
00001010  0A  = Sub-ID #1=Key-Based Instrument Control
00000001  01  = Sub-ID #2=Controller
0000mmmm  0M  = MIDI Channel (00 – 0F)
0kkkkkkk  KK  = Key Number
0ccccccc  CC  = Controller Number
0vvvvvvv  VV  = Value
    :         :
11110111  F7  = End of Exclusive
```

Make sure to set both the Controlled Number and the Value.

Control Number(CC)	Value(VV)	Description	Default Value
CC=07H Volume	00H – 7FH	-100…0…+100%	40H
CC=0AH Pan	00H – 7FH (absolute)	L63…C…R63	(Preset value)
CC=5BH Reverb Send Level	00H – 7FH (absolute)	0…Max	(Preset value)
CC=5DH Chorus Send Level	00H – 7FH (absolute)	0…Max	(Preset value)

System Exclusive Messages (Universal Non-Real Time Messages)

		[MIDI]											[Internal sequencer]		
MIDI Event	**Data Format**	**Voice**		**MIDI Reception**					**MIDI Transmission**					**PLAY**	**REC**
		Regular/ Drum/ S.Art Piano/ Organ Flutes	**Mic/ Vocal Harmony**	**Song**	**Right1 Right2 Right3 Left**	**Keyboard**	**Style**	**Extra**	**Right1 Right2 Right3 Left**	**M.Pad**	**Style**	**Song**	**Upper Lower**	**PLAY**	**REW**	**From panel (Right1/ Right2/ Right3/ Left)**
GM1 System On [GM1] [GM2]	F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0 – F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive	O	–	O (Available only for Song parts and Extra parts)					O					O	X	O
GM2 System On [GM2]	F0 7E XN 09 03 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0 – F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000011 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive	O	–	O (Available only for Song parts and Extra parts)					O					O	X	X
General MIDI System Off [GM1] [GM2]	F0 7E XN 09 02 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0 – F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000010 02 = Sub-ID #2=General MIDI Off 11110111 F7 = End of Exclusive	O	–	O (Available only for Song parts and Extra parts)					O					O	X	X
Scale/ Octave Tuning [GM2]	F0 7E XN 08 08 JJ GG MM SS ... F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0 – F, whichever is received. X=ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 1byte form 0jjjjjjj JJ = Channel/option byte1 bits 0 to 1 = channel 15 to 16 bits 2 to 6 = reserved 0ggggggg GG = Channel byte2 - bits0 to 6 = channel 8 to 14 0mmmmmmm MM = Channel byte2 - bits0 to 6 = channel 1 to 7 0sssssss SS = 12byte tuning offset of 12 semitones from C to B 00H means -64cent 40H means 0cent 7FH means +63cent : : 11110111 F7 = End of Exclusive	O	X	O (Available only for Song parts)					O					O	X	X

SYSTEM EXCLUSIVE MESSAGES (2)

- Not received when the MIDI setting “System Exclusive Message - Receive” is set to off.
- Not transmitted when the MIDI setting “System Exclusive Message - Transmit” is set to off.

System Exclusive Messages (Style)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
Section Control	F0 43 7E 00 ss dd F7	–	–			O					●		
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7	–	–			O					●		
Chord Control	F0 43 7E tt d1 d2 d3 d4 F7	–	–			O					●		
	Type2 (tt=03)	–	–			O					X		

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

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

0ddddddd  dd  = Switch On/Off
                    00H (Off)
                    7FH (On)
11110111  F7  = End of Exclusive
```

F0 43 7E 01 t4 t3 t2 t1 F7

```
11110000  F0  = Exclusive status
01000011  43  = YAMAHA ID
01111110  7E  = Style
00000001  01  =
0ttttttt  t4  = tempo4
0ttttttt  t3  = tempo3
0ttttttt  t2  = tempo2
0ttttttt  t1  = tempo1
11110111  F7  = End of Exclusive
```

F0 43 7E tt d1 d2 d3 d4 F7

Type1 (tt=02)

```
11110000  F0  = Exclusive status
01000011  43  = YAMAHA ID
01111110  7E  = Style
00000010  02  = type 1
0ddddddd  d1  = chord root (cr)
0ddddddd  d2  = chord type (ct)
0ddddddd  d3  = bass note (bn)
0ddddddd  d4  = bass type (bt)
11110111  F7  = End of Exclusive

    cr : Chord Root 0fffnnnn
         fff: ♭ or ♯, nnnn: note(root)
         0000nnnn 0n ♭♭♭              0fff0000 x0 reserved
         0001nnnn 1n ♭♭               0fff0001 x1 C
         0010nnnn 2n ♭                0fff0010 x2 D
         0011nnnn 3n natural          0fff0011 x3 E
         0100nnnn 4n ♯                0fff0100 x4 F
         0101nnnn 5n ♯♯               0fff0101 x5 G
         0110nnnn 6n ♯♯♯              0fff0110 x6 A
                                      0fff0111 x7 B

    ct : Chord Type 0 – 34, 127
         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 7♭5
         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(♭9)
         00001000 08  8 min           00011010 1A 26 7(♭13)
         00001001 09  9 min6          00011011 1B 27 7(♯9)
         00001010 0A 10 min7          00011100 1C 28 Maj7aug
         00001011 0B 11 min7♭5        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
    bn : On Bass Note                 Same as Chord root
                                      127:No bass chord
    bt : Bass Chord                   Same as Chord type
                                      127:No bass chord
```

* Not received when the MIDI setting “Chord System Exclusive Message - Receive” is set to off.
* Not transmitted when the MIDI setting “Chord System Exclusive Message - Transmit” is set to off.

Type2 (tt=03)

```
11110000  F0  = Exclusive status
01000011  43  = YAMAHA ID
01111110  7E  = Style
00000011  03  = type 2
0ddddddd  dd  = note1
0ddddddd  dd  = note2
0ddddddd  dd  = note3
    :         :
0ddddddd  dd  = note10
11110111  F7  = End of Exclusive
```

System Exclusive Messages (XG)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
XG Parameter Changes	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 11110111 F7 = End of Exclusive	O (*1)				O (*1)					O (*1)		
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 0ddddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	O (*1)				O (*1)					O (*1)		
XG Parameter Request	F0 43 3n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	–	–			O (*1)					O (*1)		
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n=always 0(when transmit), n=0-F(when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	–	–			O (*1)					O (*1)		

*1: Depends on parameter. Refer to "XG PARAMETER CHANGE TABLE".

System Exclusive Messages (Others)

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

[MIDI]

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

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	Upper Lower
Display open/close	F0 43 73 01 51 00 00 02 05 A1 A2 A3 A4 dd F7 00000001 01 = Model ID (Clavinova common ID) 01010001 51 = PK/CL common variable length data 00000000 00 = 00000000 00 = Panel 00000010 02 = Display open/close 00000101 05 = Size A1 = Display address 1 A2 = Display address 2 A3 = Display address 3 A4 = Display address 4 dd = 00 → Display is opened at the time of starting and closed at the time of stopping. *This message is effective only for playback from an internal sequencer. Display address / Score display / Lyrics display A1 00H 00H A2 00H 00H A3 00H 01H A4 00H 00H	X	X	X					X				
MIDI Master Tuning	F0 43 1n 27 30 00 00 0m 0l cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n n= always 0 (when transmit), n=0 – F (when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	O	O	O					X				
GuideON	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) cc 1/Right 2/Left: 00 On On; 01 Off On; 02 On Off; 03 Off Off 0ddddddd dd = Mode 00:Off, 01:Follow Lights, 02:Any Key, 03:Karao Key, 04:Vocal Cue Time 06=YourTempo 11110111 F7 = End of Exclusive	–	–	O					X				
Audio Song Control	F0 43 73 01 50 19 00 00 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = SubID 00011001 19 = SubID (Audio Song Control) 00000000 00 = SubID 00000000 00 = SubID (Start/Stop Control) 0ddddddd dd = Data dd=00H:Start, 01H:Stop, 02H:Pause 11110111 F7 = End of Exclusive	X	X	O					X	X	X	O	X

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

System Exclusive Messages Special Operators (Vocal Harmony Additional Parameters)

[MIDI]

MIDI Event	Data Format	Voice		MIDI Reception					MIDI Transmission				
		Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right1 Right2 Right3 Left	Keyboard	Style	Extra	Right1 Right2 Right3 Left	M.Pad	Style	Song	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. 0ddddddd dd = data 00H : Off 01H : Upper 02H : Lower 11110111 F7 = End of Exclusive	X	O	O							●		

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

Data Format	Parameter	Description	Note
FF 05 len [Data]	Lyrics	len = Data length, [Data] = Lyrics Data	-
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 = Tempo value: "B7 1B 00" – "01 D4 C0" (Tempo 5 – 500)	Entered when recording.
FF 58 04 nn dd cc bb	Beat	nn = Numerator, dd = Denominator (power of 2) cc = MIDI clock per metronome click, bb = Number of thirty-second notes in MIDI quarter note	Entered when recording.
FF 59 02 sf mi	Key Signature	sf = -7 – 7 mi = 0: Major key, 1: minor key	Entered from the [MENU] → [Score] → Detail Setting display.

YAMAHA META EVENT

FF 7F 06 43 73 0A 00 07 dd	Score Start Bar	ddH: Start from this measure dd = -100 – 1, 1 – 100	Same as "ScBar" entered from the display called up via [RECORDING] → MIDI [Multi Recording] → [Step Edit] → Target = "SysEx".
FF 7F len 43 73 0D 01 [Data]	Keyboard Voice	Voice settings for the Right 1 – 3 and Left parts.	Entered to the Song, from the display called up via [RECORDING] → MIDI [Multi Recording] → [Setup].

YAMAHA XF META EVENT

FF 7F 07 43 7B 01 cr ct bn bt	Chord Name	Refer to "Chord Control" in the MIDI Data Format (System Exclusive Messages)	Entered when recording.
FF 7F 05 43 7B 03 20 08	Phrase Mark	Used as a marker for each phrase when executing Phrase Mark repeat playback.	Used when performing the Phrase Mark repeat playback.
FF 7F 04 43 7B 04 dd	Phrase Max	Maximum Phrase Number	Used when performing the Phrase Mark repeat playback.
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	Sets the Right and Left parameters on the display called up via [MENU] → [Song Setting] → [Part Ch]. rr = Right (0: Off, 1-16CH) ll = Left (0: Off, 1-16CH)	Entered when recording.
FF 7F len 43 7B 21 00 pp [Data]	Lyrics Bitmap	Specifies the background picture of the Lyrics display. pp = Display type (0: Center, 1: Tile) [Data] = File Path	Entered to the Song, from the display called up via [RECORDING] → MIDI [Multi Recording] → [Setup].

Song System Exclusive Message List / Liste der System-Exclusive-Meldungen der Songs / Liste des messages exclusifs au système de morceaux / Elenco di System Exclusive message song / Song System Exclusive Message-lijst / Lista komunikatów System Exclusive dla utworu

Data Format	Parameter	Description	Note
Guide			
F0 43 73 01 1F 00 cc dd F7	Guide Mode	ccH = Part Select No 00H (TRACK1 = ON, TRACK2 = ON) 01H (TRACK1 = OFF, TRACK2 = ON) 02H (TRACK1 = ON, TRACK2 = OFF) 03H (TRACK1 = OFF, TRACK2 = OFF) ddH = Mode 00H = Guide OFF 01H = Follow Lights 02H = Any Key 03H = Karao-Key 06 = Your Tempo	Entered to the Song, from the display called up via [RECORDING] → MIDI [Multi Recording] → [Setup].
Score			
F0 43 73 01 50 12 00 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON	Entered to the Song, from the display called up via [RECORDING] → MIDI [Multi Recording] → [Setup].
F0 43 73 01 50 12 00 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON	
F0 43 73 01 50 12 00 05 dd F7	Size designation	00H: SMALL, 01H: MIDDLE, 02H: LARGE, 03H: X-LARGE	
F0 43 73 01 50 12 00 06 dd F7	Left Ch	00H – 0FH: CH, 7EH: OFF, 7FH: AUTO	
F0 43 73 01 50 12 00 07 dd F7	Right Ch	00H – 0FH: CH, 7EH: OFF, 7FH: AUTO	
F0 43 73 01 50 12 00 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON	
F0 43 73 01 50 12 00 09 dd F7	Quantize	00H: Quarter, 01H: Eighth, 02H: Sixteenth, 03H: Thirty-second	
F0 43 73 01 50 12 00 0A dd F7	NoteName	00H: ABC, 01H: Fixed Do, 02H: Movable Do	
F0 43 73 01 50 12 00 0B dd F7	Color Note	00H: OFF, 7FH: ON	
Style			
F0 43 73 01 51 00 00 00 03 10 00 dd F7	STYLE SPLIT POINT	dd = STYLE SPLIT POINT (Note Number)	Entered to the Song, from the display called up via [RECORDING] → MIDI [Multi Recording] → [Setup].
F0 43 73 01 51 05 00 03 04 00 00 dd dd F7	Style No.	dd dd = Style No.	Entered when recording.
F0 43 7E 00 ss dd F7	Section Control	Refer to the MIDI Data Format.	Entered when recording.

Yamaha [Digital Workstation] Date:1-Aug-2017
Model Genos MIDI Implementation Chart Version : 1.0

Function...	Transmitted	Recognized	Remarks
Basic Default	1 - 16	1 - 16	
Channel Changed	1 - 16	1 - 16	
Default	3	3	
Mode Messages	x	x	
Altered	**********	x	
Note	0 - 127	0 - 127	
Number : True voice	**********	0 - 127	
Velocity Note ON	o 9nH,v=1-127	o 9nH,v=1-127	
Note OFF	x 9nH,v=0	x	
After Key's	x	o	
Touch Ch's	o	o	
Pitch Bend	o	o 0 - 24 semi	
0,32	o	o	Bank Select
1,5,7,10,11	o	o	
16	o	o	General Purpose Controller
6,38	o	o	Data Entry
64,65,66,67	o	o	
Control 71,72,73,74	o	o	Sound Controller
Change 80,81,82	o	o	
84	o	o	Portamento Cntrl
91,93,94	o	o	Effect Depth
96,97	x	o	RPN Inc,Dec
98,99	o	o	NRPN LSB,MSB
100,101	o	o	RPN LSB,MSB
Prog	o 0 - 127	o 0 - 127	
Change : True #	**********		
System Exclusive	o	o	
: Song Pos.	x	x	
Common : Song Sel.	x	x	
: Tune	x	x	
System :Clock	o	o	
Real Time:Commands	o	o	
:All Sound OFF	x	o(120,126,127)	
Aux :Reset All Cntrls	x	o(121)	
:Local ON/OFF	x	o(122)	
Mes- :All Notes OFF	x	o(123 - 125)	
sages:Active Sense	o	o	
:Reset	x	x	
Notes:			

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