

# Genos

DIGITAL WORKSTATION

**Data List**

**Datenliste**

**Liste des données**

**Elenco dati**

**Datalijst**

**zeszyt Data List, tabele danych**

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# Voice List / Voice-Liste / Liste des voix / Elenco delle voci / Voice-lijst / Lista brzmień

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!		
				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	-			80sHarvox	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		
		GrowingHook	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		
		LekroCodes	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!		
BassTromb Tenuto	109			1	58	Regular		
Tuba	109			0	59	Regular		
OrchTrumpets	109		3	57	Live!			
OrchTrombones	109		3	58	Live!			
OrchHorns	109		0	61	Live!			
OrchTrumpsFast	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!	
		KinoStringsViols	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!	
		Seattle1stViols	9	32	44	S.Art!	
		Seattle2ndViols	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!
			BigBand4AltoSax	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!	
	Woodwind		BaritoneSax	109	0	68	Regular
		SmoothSaxesOctave	9	37	83	S.Art!	
		SaxSection	109	116	67	Live!	
		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		
	LiebllichGedackt		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				

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			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
	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	

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			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!	
		TremoloBowling	8	34	49	S.Art!	
		TremoloBowling2	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!	

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			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!

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			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
	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
	VoodooLead		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

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			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		
		MegaVoice	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
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		

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

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

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



MSB	LSB	PC# (1-128)	Voice Name	Velocity Switch Points (under B5)												above C6	above C8
				1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100	101-110	111-127		
8	0	102	PopDaa	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	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	103	PopBaa	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	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	106	PopHoo	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	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	107	PopDoo	Doo p	Oo p legato	Doo vib p	Oo vib p legato	Doo f	Oo f legato	Doo vib f	Oo vib f legato	Yoo p	Yoo vib p	Yoo f	Yoo vib f	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	104	PopShoo	Shoo p	Oo p legato	Shoo vib p	Oo vib p legato	Shoo f	Oo f legato	Shoo vib f	Oo vib f legato	Yoo p	Yoo vib p	Yoo f	Yoo vib f	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	111	PopHee	Hee vib p	Ee vib p legato	Hee vib p	Ee vib p legato	Hee vib p	Ee vib p legato	Hee vib p	Ee vib p legato	Wee vib p	Wee vib p	Wee vib p	Wee vib p	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	108	PopBee	Bee vib p	Ee vib p legato	Bee vib p	Ee vib p legato	Bee vib p	Ee vib p legato	Bee vib p	Ee vib p legato	Waa p	Waa vib p	Waa f	Waa vib f	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	116	PopHaaLegato2	Haa p	Aa p legato2	Haa vib p	Aa vib p legato2	Haa f	Aa f legato2	Haa vib f	Aa vib f legato2	Waa p	Waa vib p	Waa f	Waa vib f	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	121	PopHooLegato2	Hoo p	Oo p legato2	Hoo vib p	Oo vib p legato2	Hoo f	Oo f legato2	Hoo vib f	Oo vib f legato2	Yoo p	Yoo vib p	Yoo f	Yoo vib f	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127
8	0	126	PopHeeLegato2	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	111-127	C6-D#6: 1-60, 61-127 E6-B6: 1-30, 31-60, 61-90, 91-127



MSB	LSB	PC# (1-128)	Voice Name	Velocity Switch Points (under B5)												above C6	above C8
				1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75		
8	4	13	Mandolin	soft	med	hard	dead	mute	hammer	slide up	harmonics	1-127	strum noise				
8	0	14	UkuleleThumbDown	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-127	strum noise				
8	0	14	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					
8	0	14	Note 0-71	S4 soft	S4 soft/med	S4 med	S4 dead	S4 mute	S4 hammer	S4 harmonics		strum noise					
8	11	2	SteelAcousticFinger	finger soft/med	finger med	finger hard	dead	mute	hammer	slide up	harmonics	1-127	strum noise				
8	12	2	SteelACThumbPick	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-127	strum noise				
8	12	2	Note 52-95	finger soft/med	finger med	finger hard	finger dead	finger mute	finger hammer	finger harmonics		strum noise					
8	12	2	Note 0-51	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-127	strum noise				
8	12	2	Note 0-51	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	open soft	open hard	dead	81-120	121-127	1-127	strum noise					
8	5	18	ActiveBassFingSlap	1-60	61-80	open soft	open hard	dead	81-120	121-127	1-127	strum noise					
8	3	19	ActiveBassPick	1-20	21-40	41-60	61-80	81-90	91-105	106-120	121-127	1-127	strum noise				
8	4	19	ActiveBassPickOpen	open soft	open hard	mute soft	mute hard	dead	81-120	121-127	1-127	strum noise					
8	5	19	ActiveBassPickMute	1-60	61-80	open soft	open hard	dead	81-120	121-127	1-127	strum noise					
8	3	18	ActiveBassFingHmrOn	1-20	21-40	41-60	61-80	81-90	91-105	106-120	121-127	1-127	strum noise				
8	2	19	ActiveBassPickHmrOn	open soft	open hard	pick mute soft	pick mute hard	dead	81-120	121-127	1-127	strum noise					
8	0	21	ActiveBassSlap	pick soft	pick hard	thumb -> C#1 -> pop med	thumb -> C#1 -> pop hard	pop dead	thumb hammer on -> B2 -> pop hammer on	thumb hammer on -> C#1 -> pop hammer on	harmonics	SE					
8	10	2	D-FolkGuitar	thumb -> B2 -> pop med	thumb -> C#1 -> pop med	thumb -> C#1 -> pop hard	thumb dead	mute	hammer	slide up	harmonics	strum noise					
8	10	2	D-FolkGuitar	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-127	strum noise				
8	10	2	D-FolkGuitar	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					
				1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75			76-90	91-105	106-120	121-127	
8	13	2	D&HardFolkTwin1 Element1 (DFolk) Element2 (HardFolk)	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127			
				soft	med	hard	dead	mute	hammer	slide up	harmonics	strum noise										
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	14	2	D&WarmFolkTwin1 Element1 (DFolk) Element2 (WarmFolk)	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127			
				soft	med	hard	dead	mute	hammer	slide up	harmonics	strum noise										
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	15	2	D&HardFolkTwin2 Element1 (DFolk) Element2 (HardFolk)	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127			
				soft	med	hard	dead	mute	hammer	slide up	harmonics	strum noise										
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	16	2	D&WarmFolkTwin2 Element1 (DFolk) Element2 (WarmFolk)	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127			
				soft	med	hard	dead	mute	hammer	slide up	harmonics	strum noise										
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	3	49	KinoSmall	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	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											
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	4	49	KinoSmallComp	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	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											
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	5	49	KinoSmallCompOctCb Note 36-95 Note 0-35	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	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											
				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	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											
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	3	50	KinoLargeComp	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	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											
				1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120	121-127	1-20	21-40	41-60	61-67	68-75	76-83	84-90	91-105	106-120
8	4	50	KinoLargeOctCb Note 36-95 Note 0-35	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	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											
				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
				1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127	1-20	21-40	41-60	61-80		
			KinoLargeAmbiOctCb	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127						
8	5	50	Note 36-95 Note 0-35	<b>p</b>	<b>mf</b>	<b>f</b>	<b>legato</b>	<b>spiccato mf</b>	<b>spiccato f</b>	<b>tremolo</b>	<b>glissando down</b>						
				1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127						
				<b>octave shifted Cb p</b>	<b>octave shifted Cb mf</b>	<b>octave shifted Cb f</b>	<b>octave shifted Cb legato</b>	<b>oct shifted Cb spiccato mf</b>	<b>oct shifted Cb spiccato f</b>	<b>oct shifted Cb tremolo</b>	<b>glissando down</b>						
8	6	49	KinoSmallAmbi	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127						
				<b>p</b>	<b>mf</b>	<b>f</b>	<b>legato</b>	<b>spiccato mf</b>	<b>spiccato f</b>	<b>tremolo</b>	<b>glissando down</b>						
8	6	50	KinoLargeAmbi	1-20	21-40	41-60	61-80	81-95	96-110	111-120	121-127						
				<b>p</b>	<b>mf</b>	<b>f</b>	<b>legato</b>	<b>spiccato mf</b>	<b>spiccato f</b>	<b>tremolo</b>	<b>glissando down</b>						
8	10	4	60sVintage	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127						
				<b>open soft</b>	<b>open med</b>	<b>open hard</b>	<b>dead</b>	<b>mute</b>	<b>hammer</b>	<b>slide</b>	<b>pick harmonics</b>						
8	11	4	60sVintageSlap	1-20	21-40	41-60	61-75	76-90	91-105	106-120	121-127						
				<b>open soft</b>	<b>open med</b>	<b>slap</b>	<b>dead</b>	<b>mute</b>	<b>hammer</b>	<b>slide</b>	<b>pick harmonics</b>						

**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 Note#	Note	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)
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 Note#	Note	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)
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																

\*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

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)			33				41				42				49			
MIDI Note#	Note	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)
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				Crash 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																

\*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.

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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)			57				58				59				60			
MIDI Note#	Note	Keyboard Note	HipHopKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	BreakKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	AnalogT8Kit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	AnalogT9Kit	Alternate Group (*1)	Key Off (*2)	Revo! (*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				SnareRockRollDist			
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."

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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

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)			61				62				67				68			
MIDI Note#	Note	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)
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											

\*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

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)			69				70				71				72			
MIDI Note#	Note	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)
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 3 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 L 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 B3P				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			

\*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

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)			73				87				88				89			
MIDI Note#	Note	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)
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															

\*1 Alternate Group:

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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				8			
PC# (1-128)			90				91				92				18			
MIDI Note#	Note	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)
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 Tap 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.

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Same as StandardKit No Sound

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			
LSB (0-127)			8				8				8			
PC# (1-128)			74				75				76			
MIDI Note#	Note	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)
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:

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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)			77				78				79			
MIDI Note#	Note	Keyboard Note	JazzBrushExpanded	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	VintageMutedKit	Alternate Group (*1)	Key Off (*2)	Revo! (*3)	JazzStickKit	Alternate Group (*1)	Key Off (*2)	Revo! (*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				Triangle Mute			
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		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	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			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	Keyboard 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 Note#	MIDI Note	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)
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 Note#	Note	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)
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 Note#	Note	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)
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 Peepkp 1 BB		●									
88	E5	E6	Special 15 Peepkp 2 BB		●									
89	F5	F6	Special 7 Laughter 1 BB		●									
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)			8				8				8			
PC# (1-128)			43				120				46			
MIDI	Keyboard	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	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 3 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 AF			●	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

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

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
RetroPop	AcousticRock
	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	
	Rumbalsland	
	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
EasyListening	Dixieland
	Ragtime
	FiveFour
	AfroCuban
	JumpJive
	PartyAGogo
	HappyBeat
	OrchestralSwing1
	OrchestralSwing2
	Orchestral6-8
	LushBallad
	DreamyBallad
	EasyBallad
	EpicBallad
	Orchestral12-8
Tijuana	
Latin	70sPopDuo1
	70sPopDuo2
	70sEasyPop
	70sChartBallad
	EasySwing
	EasyPop
	EasyListening
	MidnightSwing
	40sSwingBallad
	EuroPopOrgan
	TheatreOrgBallad
	OrganSwing
	OrganBossa
	RomanticWaltz
	ChillPerformer
CloudyBay	
NightWalk	
Play4Sofa	
AngelSun	
8BeatAdria	
Hawaiian	
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
Classic&Events	GuitarSerenade
	TheatreShowtime
	RussianWaltz
	VienneseWaltz
	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 multi-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
DJ Phrase	FunkyHalfTime
	Buffalo
	ElectroReggae
	HipHopMix1
	HipHopMix2
	HipHopMix3
	ElectroBeat
	ElectroHouseDrum
	DanceMix1
	DanceMix2
Legacy/ SteelGuitar	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	
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
NylonAccomp	
NylonGuitarBossa2	
NylonGuitarBossa3	
FlamencoGuitar3	
FlamencoGuitar4	
A.GtrAccomp	
Legacy/ VintageGuitar	E.Gtr16BeatCut1
	E.Gtr16BeatCut2
	E.Gtr16BeatCut3
	FunkyGtr16Beat3
	FunkyGtr16Beat4
	FunkyGtr16Beat5
	DiscoGuitar
	E.Gtr16BitShuffle1
	E.Gtr16BitShuffle2
	E.Gtr16BeatPick
	E.Gtr8BeatShuffle
	E.Guitar6-8
	E.Gtr8BeatStrum1
	E.Gtr8BeatStrum2
	E.GtrRock1
	E.GtrRock2
	JazzGuitarSwing2
	Legacy/Vocal
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	

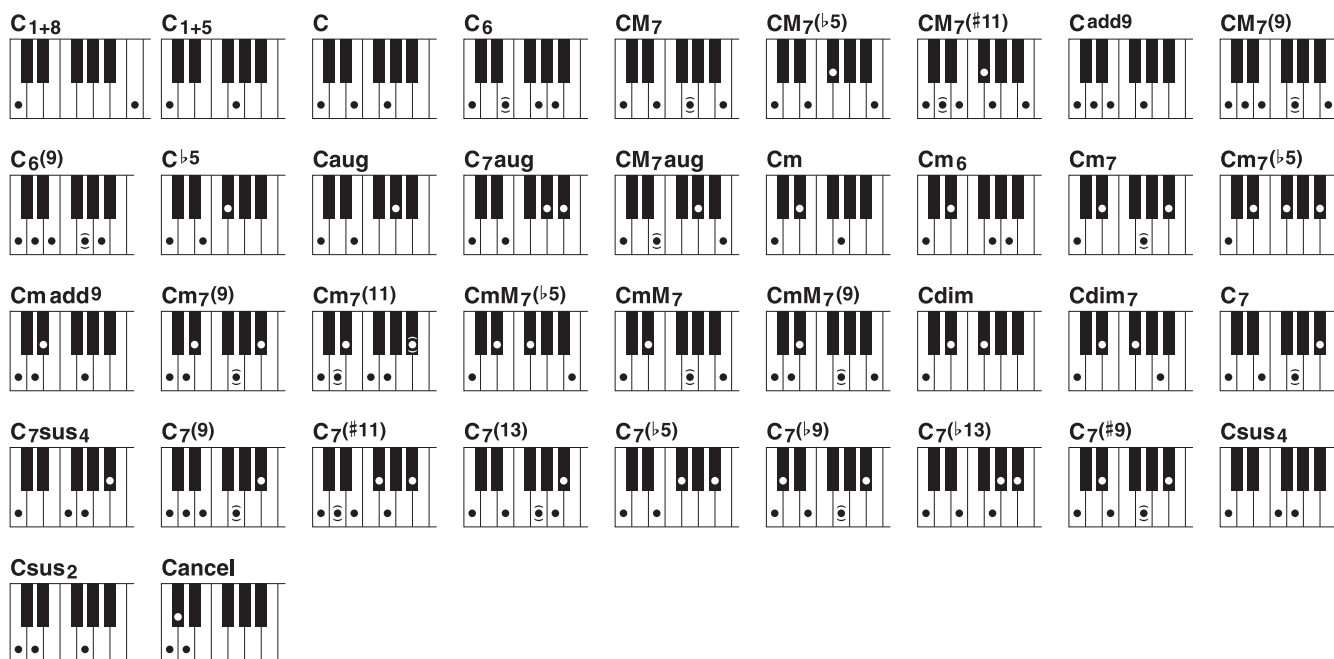
Category	Bank Name
Legacy/Vocal	GospelChoirOffBeat
Legacy/ Brass&Strings	PopBrassFastSwing2
	PopBrassMedSwing2
	BigBandSwing3
	BigBandSwing4
	BigBandSwing5
	BrassSwing
	TrumpetSwing
	Brass8Beat
	BrassChords1
	BrassChords2
	BrassChords3
	OrchestraMarch
	StringsArpeggio
	StringsBallad
StringsLegato	
BaroqueStrings	
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
Legacy/SFX	TechnoSeq3
	Garage
	EurodanceMix3
	DanceSynth
	Wooshes2
	Wooshes3
	Breathing
	CarFX2
	DayFX
	NightFX
	WaterFX
	WeatherFX1
WeatherFX2	
HorrorShowFX1	
HorrorShowFX2	
OrdnanceFX	
TransportFX	
AmbienceFX	

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

<b>Voice Name</b>
PopSection
BalladHorns
R&B Saxes
BallroomSaxes
MillerTime
LushStrings
SoloQuartet
Hollywoodwind
BalladWoodwind
OrchestralWoodwind
SwingingMutes
Flute&Mutes
OrchestralHorns
AllThatJazz
LazyBlues
ClassicStrings
RomanticBowling
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
FlutelLead
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 [M7b5]	1+3+b5+7	CM7(b5)
Major seventh add sharp eleventh [M7(#11)]	1+(2)+3+#4+5+7	CM7(#11)
Add ninth [(9)]	1+2+3+5	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 [(b5)]	1+3+b5	Cb5
Augmented [aug]	1+3+#5	Caug
Seventh augmented [7aug]	1+3+#5+b7	C7aug
Major seventh augmented [M7aug]	1+(3)+#5+7	CM7aug
Minor [m]	1+b3+5	Cm
Minor sixth [m6]	1+b3+5+6	Cm6
Minor seventh [m7]	1+b3+(5)+b7	Cm7
Minor seventh flatted fifth [m7b5]	1+b3+b5+b7	Cm7(b5)
Minor add ninth [m(9)]	1+2+b3+5	Cm add9
Minor seventh ninth [m7(9)]	1+2+b3+(5)+b7	Cm7(9)
Minor seventh eleventh [m7(11)]	1+(2)+b3+4+5+(b7)	Cm7(11)
Minor major seventh flatted fifth [mM7b5]	1+b3+b5+7	CmM7(b5)
Minor major seventh [mM7]	1+b3+(5)+7	CmM7
Minor major seventh ninth [mM7(9)]	1+2+b3+(5)+7	CmM7(9)
Diminished [dim]	1+b3+b5	Cdim
Diminished seventh [dim7]	1+b3+b5+6	Cdim7
Seventh [7]	1+3+(5)+b7	C7
Seventh suspended fourth [7sus4]	1+4+5+b7	C7sus4
Seventh ninth [7(9)]	1+2+3+(5)+b7	C7(9)
Seventh add sharp eleventh [7(#11)]	1+(2)+3+#4+5+b7	C7(#11)
Seventh add thirteenth [7(13)]	1+3+(5)+6+b7	C7(13)
Seventh flatted fifth [7b5]	1+3+b5+b7	C7(b5)
Seventh flatted ninth [7(b9)]	1+b2+3+(5)+b7	C7(b9)
Seventh add flatted thirteenth [7(b13)]	1+3+5+b6+b7	C7(b13)
Seventh sharp ninth [7(#9)]	1+#2+3+(5)+b7	C7(#9)
Suspended fourth [sus4]	1+4+5	Csus4
One plus two plus five [sus2]	1+2+5	Csus2
cancel	1+b2+2	Cancel

- Notes in parentheses can be omitted.

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

**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	
Delay	Plate 1	Reverb simulating a plate reverb unit.	4	16	REVERB1	
	Tempo Delay 1	Tempo-synchronized delay.	21	0	TEMPO DELAY	
	Tempo Delay 2		21	16	TEMPO DELAY	
	Tempo Echo	Tempo-synchronized echo.	21	8	TEMPO DELAY	
	Tempo Cross 1	Tempo-synchronized cross delay.	22	0	TEMPO CROSS DELAY	
	Tempo Cross 2		22	16	TEMPO CROSS DELAY	
	Tempo Cross 3		22	17	TEMPO CROSS DELAY	
	Tempo Cross 4		22	18	TEMPO CROSS DELAY	
Modulation	Chorus 1	Conventional chorus program with rich, warm chorusing.	66	17	CHORUS	
	Chorus 2		66	8	CHORUS	
	Symphonic 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		71	19	AUTO PAN1
	Tremolo 3	Rich Tremolo effect with both volume and pitch modulation.	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 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		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		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 choring.	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		78	22	AUTO WAH DISTORTION
	Auto Wah + OD Heavy	Overdrive distortion can be applied to the output of Auto Wah.	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		79	2	TEMPO AUTO WAH2
	Tmp AutoWah + OD Hard	Tempo-synchronized Auto Wah. Overdrive distortion can be applied to the output.	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		82	17	TOUCH WAH2
	Touch Wah + Overdrive 2	Overdrive distortion can be applied to the output of Touch Wah.	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
	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 + 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

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

- 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

## 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, DI Chorus M, Flanger1 M, Flanger2 M, Flanger3 M, Delay St, Echo1 St, Echo2 St, Chorus St, DI Chorus St, Flanger1 St, Flanger2 St, Flanger3 St	0	16		
15	Delay Ctrl	0 – 127	0	127		
16	Delay Time	0 – 127	0	127		

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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		

**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	

**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						

**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						

**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	Woofers Speed Slow	0.0rpm – 88.3rpm	0	127	Table#24	
14	Horn Speed Slow	0.0rpm – 89.6rpm	0	127	Table#25	
15	Woofers Speed Fast	189.3rpm – 736.8rpm	1	127	Table#26	
16	Horn Speed Fast	209.4rpm – 817.6rpm	1	127	Table#27	

**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		

**ROTARY SPEAKER1**

Block : Chorus, Variation, Insertion1-28

No.	Parameter	Display	Min	Max	Table	Control
1	Woofers Speed Slow	0.0rpm – 159.0rpm	0	63	Table#28	
2	Horn Speed Slow	0.0rpm – 159.0rpm	0	63	Table#28	
3	Woofers 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 Woofers	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		●

**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		

**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						



**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		

**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						

**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						

**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						

**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 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						

**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						

**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						

**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						

**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						

**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						

**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						

**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						

**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		

**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						

**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						

**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		

**NO EFFECT**

Block : Reverb, Chorus, Variation

No.	Parameter	Display	Min	Max	Table	Control
1						
2						
3						
4						
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**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		

**THRU**

Block : Variation, Insertion1-28

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

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

**Table#1**  
Reverb Time [s]

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

**Table#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#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#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	0.553	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.						

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	1324.5
13	8.2	45	143.3	77	651.4	109	1346.3
14	8.6	46	147.6	78	673.1	110	1368.0
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	191.0	88	890.3	120	1867.4
25	56.4	57	195.3	89	912.0	121	1910.8
26	60.8	58	199.6	90	933.7	122	1954.3
27	65.1	59	203.9	91	955.4	123	1997.7
28	69.4	60	208.2	92	977.1	124	2041.1
29	73.8	61	212.5	93	998.8	125	2084.6
30	78.1	62	216.8	94	1020.5	126	2128.0
31	82.5	63	221.1	95	1042.3	127	2171.4

Table#15 VCM Phaser Speed [Hz]

Data	Value	Data	Value	Data	Value	Data	Value
0	0.100	51	0.265	102	0.668	153	1.682
1	0.103	52	0.271	103	0.683	154	1.703
2	0.105	53	0.276	104	0.694	155	1.724
3	0.108	54	0.281	105	0.704	156	1.767
4	0.110	55	0.287	106	0.715	157	1.808
5	0.113	56	0.289	107	0.725	158	1.829
6	0.116	57	0.294	108	0.747	159	1.872
7	0.118	58	0.300	109	0.758	160	1.893
8	0.121	59	0.308	110	0.768	161	1.935
9	0.124	60	0.310	111	0.789	162	1.977
10	0.126	61	0.318	112	0.799	163	2.000
11	0.129	62	0.323	113	0.810	164	2.040
12	0.131	63	0.329	114	0.831	165	2.082
13	0.134	64	0.334	115	0.841	166	2.124
14	0.137	65	0.342	116	0.862	167	2.145
15	0.139	66	0.347	117	0.873	168	2.187
16	0.142	67	0.357	118	0.894	169	2.229
17	0.145	68	0.363	119	0.904	170	2.271
18	0.147	69	0.368	120	0.925	171	2.313
19	0.150	70	0.373	121	0.936	172	2.355
20	0.152	71	0.379	122	0.957	173	2.397
21	0.155	72	0.389	123	0.967	174	2.439
22	0.158	73	0.394	124	0.988	175	2.503
23	0.160	74	0.400	125	1.000	176	2.544
24	0.163	75	0.410	126	1.030	177	2.587
25	0.166	76	0.415	127	1.051	178	2.629
26	0.168	77	0.426	128	1.062	179	2.671
27	0.171	78	0.431	129	1.083	180	2.734
28	0.173	79	0.442	130	1.104	181	2.776
29	0.179	80	0.447	131	1.125	182	2.860
30	0.181	81	0.457	132	1.146	183	2.902
31	0.184	82	0.463	133	1.167	184	2.944
32	0.187	83	0.473	134	1.188	185	2.986
33	0.192	84	0.478	135	1.209	186	3.028
34	0.195	85	0.489	136	1.230	187	3.070
35	0.200	86	0.499	137	1.251	188	3.154
36	0.202	87	0.510	138	1.272	189	3.196
37	0.205	88	0.515	139	1.304	190	3.280
38	0.210	89	0.526	140	1.325	191	3.323
39	0.213	90	0.536	141	1.346	192	3.365
40	0.218	91	0.547	142	1.367	193	3.449
41	0.221	92	0.557	143	1.410	194	3.491
42	0.226	93	0.568	144	1.430	195	3.575
43	0.229	94	0.578	145	1.451	196	3.659
44	0.234	95	0.589	146	1.472	197	3.701
45	0.237	96	0.599	147	1.493	198	3.785
46	0.242	97	0.610	148	1.535	199	3.827
47	0.247	98	0.620	149	1.556	200	3.911
48	0.250	99	0.631	150	1.577	201	3.995
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
4	20.0	29	85.0	54	355	79	1.50k
5	21.2	30	90.0	55	375	80	1.60k
6	22.4	31	95.0	56	400	81	1.70k
7	23.6	32	100	57	425	82	1.80k
8	25.0	33	106	58	450	83	1.90k
9	26.5	34	112	59	475	84	2.00k
10	28.0	35	118	60	500	85	2.12k
11	30.0	36	125	61	530	86	2.24k
12	31.5	37	132	62	560	87	2.36k
13	33.5	38	140	63	600	88	2.50k
14	35.5	39	150	64	630	89	2.65k
15	37.5	40	160	65	670	90	2.80k
16	40.0	41	170	66	710	91	3.00k
17	42.5	42	180	67	750	92	3.15k
18	45.0	43	190	68	800	93	3.35k
19	47.5	44	200	69	850	94	3.55k
20	50.0	45	212	70	900	95	3.75k
21	53.0	46	224	71	950	96	4.00k
22	56.0	47	236	72	1.00k	97	4.25k
23	60.0	48	250	73	1.06k	98	4.50k
24	63.0	49	265	74	1.12k	99	4.75k
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						

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**Table#21**  
**VCM Wah Speed [Hz]**

Data	Value	Data	Value	Data	Value	Data	Value
0	1.00	51	0.294	102	0.852	153	2.460
1	1.03	52	0.302	103	0.873	154	2.502
2	1.05	53	0.308	104	0.883	155	2.566
3	1.08	54	0.315	105	0.904	156	2.608
4	1.10	55	0.321	106	0.935	157	2.671
5	0.113	56	0.326	107	0.946	158	2.734
6	0.116	57	0.334	108	0.967	159	2.776
7	0.118	58	0.342	109	0.988	160	2.818
8	0.121	59	0.347	110	0.999	161	2.902
9	0.124	60	0.357	111	1.020	162	2.944
10	0.126	61	0.363	112	1.051	163	3.028
11	0.129	62	0.368	113	1.072	164	3.070
12	0.131	63	0.379	114	1.093	165	3.154
13	0.134	64	0.384	115	1.115	166	3.196
14	0.137	65	0.394	116	1.136	167	3.280
15	0.139	66	0.405	117	1.157	168	3.336
16	0.142	67	0.410	118	1.188	169	3.407
17	0.145	68	0.421	119	1.209	170	3.491
18	0.147	69	0.426	120	1.241	171	3.575
19	0.152	70	0.436	121	1.262	172	3.659
20	0.155	71	0.447	122	1.293	173	3.701
21	0.157	72	0.457	123	1.314	174	3.785
22	0.163	73	0.463	124	1.346	175	3.869
23	0.166	74	0.473	125	1.367	176	3.953
24	0.168	75	0.484	126	1.409	177	4.037
25	0.173	76	0.494	127	1.430	178	4.122
26	0.176	77	0.505	128	1.451	179	4.206
27	0.179	78	0.515	129	1.493	180	4.290
28	0.184	79	0.526	130	1.514	181	4.374
29	0.187	80	0.536	131	1.556	182	4.500
30	0.189	81	0.547	132	1.598	183	4.584
31	0.195	82	0.563	133	1.619	184	4.668
32	0.200	83	0.573	134	1.661	185	4.795
33	0.202	84	0.584	135	1.703	186	4.879
34	0.208	85	0.599	136	1.724	187	4.963
35	0.210	86	0.610	137	1.766	188	5.090
36	0.216	87	0.620	138	1.808	189	5.173
37	0.221	88	0.636	139	1.851	190	5.299
38	0.226	89	0.652	140	1.872	191	5.383
39	0.231	90	0.662	141	1.914	192	5.524
40	0.234	91	0.673	142	1.956	193	5.636
41	0.239	92	0.694	143	1.999	194	5.720
42	0.244	93	0.704	144	2.040	195	5.888
43	0.250	94	0.725	145	2.082	196	5.972
44	0.255	95	0.736	146	2.124	197	6.140
45	0.260	96	0.747	147	2.166	198	6.224
46	0.265	97	0.768	148	2.229	199	6.393
47	0.271	98	0.778	149	2.250	200	6.477
48	0.276	99	0.799	150	2.313	201	6.665
49	0.284	100	0.820	151	2.355	202	6.813
50	0.289	101	0.831	152	2.397	203	6.897

**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	40.8	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	4					

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**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#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	0.446	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	10.000
31	0.311	63	1.000	95	3.221		

**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	-0.40
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</				



**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#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

**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

**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
Arpeggio / ChordSeq2	Chillout 1
	Chillout 2
	Chillout 3
	Chillout 4
	Chillout 5
	Chillout 6
	Chillout 7
	Chillout 8
	Chillout 9
	Chillout 10
	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 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 wokalne**

**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/TYPER 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.
Key Root * These are effective only When the Chordal Type parameter is set to Scale Diatonic.	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.
	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#		
Key Type * These are effective only When the Chordal Type parameter is set to Scale Diatonic.	B	
	Maj	
	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 compresses 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					

**No Effect**

No.	Parameter	Display	Min	Max	Table
1					
2					
3					
4					
5					
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					

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

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group		
<b>Home</b>															
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	-	
<b>Style Control</b>															
ACMP On/Off	O	X	X	X	X	-	X	-	X	O	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	X	O	Style	-	
Sync Stop	O	X	X	X	X	-	X	-	X	X	X	O	Style	-	
<b>Transpose +/-</b>															
Transpose Assign	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Transpose	O	X	X	X	X	-	X	-	X	X	X	O	Transpose	-	
<b>Tempo</b>															
Master Tempo	O	X	X	X	X	-	O	Tempo	O	X	X	O	Tempo	-	
<b>Song</b>															
<b>MIDI Song</b>															
Synchro Start	O	X	X	X	X	-	X	-	X	X	X	O	Song	-	
<b>Audio Song</b>															
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	-	
<b>Multi Pad</b>															
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
<b>Registration</b>															
Regist Memory Contents	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Mixer</b>															
<b>Panel1</b>															
<b>Pan/Volume</b>															
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	-	-	
<b>Chorus/Reverb</b>															
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			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	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	-	-		
<b>Effect</b>																
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	-		
<b>EQ</b>																
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	-	-		
<b>Filter</b>																
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	-		
<b>Panel2</b>																
<b>Pan/Volume</b>																
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	-	-		
<b>Chorus/Reverb</b>																
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		
<b>Effect</b>																
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		
<b>Style1/Style2</b>																
<b>Filter</b>																
Resonance	O	X	X	X	X	-	X	-	O	X	X	O	Style	-		
Cutoff	O	X	X	X	X	-	X	-	O	X	X	O	Style	-		
<b>EQ</b>																
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	-		
<b>Effect</b>																
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	-		
<b>Chorus/Reverb</b>																
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	-		
<b>Pan/Volume</b>																
Pan	O	X	X	X	X	-	X	-	O	X	X	O	Style	-		
Volume	O	X	X	X	X	-	X	-	O	X	X	O	Style	-		
<b>Song Ch1-8/Song Ch9-16</b>																
<b>Filter</b>																
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	-	-		
<b>EQ</b>																
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			Registration		Parameter Lock Group	Note
	System	MIDI	User Effect	Song	Song Setup Group			Style Data	OTS	Multi Pad	Regist	Freeze Group				
<b>Effect</b>																
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	-	-		
<b>Chorus/Reverb</b>																
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	-	-		
<b>Pan/Volume</b>																
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	-	-		
<b>Master</b>																
<b>Compressor</b>																
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	-	-		
<b>EQ</b>																
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	
<b>Voice</b>																
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	-	-		
<b>Reverb</b>																
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		
<b>Chorus</b>																
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		
<b>Variation</b>																
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		
<b>Assign Detail Setting</b>																
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	-	-		
<b>Channel On/Off</b>																
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				Voice Set	Voice Set Group	Song		Style			Registration		Parameter Lock Group	Note
	System	MIDI	User Effect	System			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group		
<b>Line Out</b>															
Line Out	0	0	X	X	X	-	X	-	X	X	X	0	Line Out	-	
<b>Score</b>															
<b>View Setting</b>															
Size	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Left On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Right On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Chord On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Lyrics On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Pedal On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Note On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Fingering On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Color On/Off	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
<b>Play Setting</b>															
Extra On/Off	0	X	X	X	X	-	X	-	X	X	X	0	Song	-	
Left On/Off	0	X	X	X	X	-	0	Guide Setting	X	X	X	0	Song	-	
Right On/Off	0	X	X	X	X	-	0	Guide Setting	X	X	X	0	Song	-	
<b>Detail Setting</b>															
Right Ch	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Left Ch	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Key Signature	X	X	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Quantize	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
Note Name	0	0	X	X	X	-	0	Score Setting	X	X	X	X	-	-	
<b>Lyrics</b>															
Background	0	0	X	X	X	-	0	Lyrics Setting	X	X	X	X	-	-	Cannot be reset with Factory Reset.
<b>PlaySetting</b>															
Extra On/Off	0	X	X	X	X	-	X	-	X	X	X	0	Song	-	
Left On/Off	0	X	X	X	X	-	0	Guide Setting	X	X	X	0	Song	-	
Right On/Off	0	X	X	X	X	-	0	Guide Setting	X	X	X	0	Song	-	
<b>Text Viewer</b>															
Text File	0	X	X	X	X	-	X	-	X	X	X	0	Text	-	
Background	0	0	X	X	X	-	0	Lyrics Setting	X	X	X	X	-	-	Cannot be reset with Factory Reset.
<b>PlaySetting</b>															
Extra On/Off	0	X	X	X	X	-	X	-	X	X	X	0	Song	-	
Left On/Off	0	X	X	X	X	-	0	Guide Setting	X	X	X	0	Song	-	
Right On/Off	0	X	X	X	X	-	0	Guide Setting	X	X	X	0	Song	-	
<b>Mic Setting</b>															
<b>Vocal Setting</b>															
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	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
EQ Low Gain	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
EQ Mid Frequency	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
EQ Mid Gain	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
EQ High Frequency	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
EQ High Gain	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Noise Gate On/Off	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Noise Gate Threshold	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Compressor On/Off	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Compressor Threshold	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Compressor Ratio	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Compressor Out	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Pitch Detect Voice Range	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Pitch Detect Response	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Pitch Detect Background Noise Cut	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
User Setting	0	0	X	0	X	-	X	-	X	X	X	X	-	-	
Mic Volume	0	X	X	X	X	-	0	Vocal Harmony/ Mic Setting	X	X	X	0	Vocal Harmony/ Mic Setting	Vocal Harmony/ Mic Setting	
<b>Talk Setting</b>															
Talk Setting Volume	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk EQ Low Frequency	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk EQ Low Gain	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk EQ Mid Frequency	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk EQ Mid Gain	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk EQ High Frequency	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk EQ High Gain	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk Noise Gate On/Off	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk Noise Gate Threshold	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk Compressor On/Off	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk Compressor Threshold	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk Compressor Ratio	0	X	X	0	X	-	X	-	X	X	X	X	-	-	
Talk Compressor Out	0	X	X	0	X	-	X	-	X	X	X	X	-	-	

Parameter	Backup/Restore	Setup				Voice Set Group	Song			Style			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect	Voice Set		Voice Set Group	Song	Song Setup Group	Style Data	OTS	Multi Pad	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	-	-		
<b>Vocal Harmony</b>																
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		
<b>Harmony Edit</b>																
<b>Harmony Assign</b>																
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		
<b>Detail Setting</b>																
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		
<b>Part Mixer</b>																
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	Setup				Voice Set	Voice Set Group	Song		Style			Registration		Parameter Lock Group	Note
	Backup/Restore	System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	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	
<b>Vocal Harmony Effect</b>															
Parameters	O	X	X	O	X	-	O	Vocal Harmony/Mic Setting	X	X	X	O	Vocal Harmony/Mic Setting	Vocal Harmony/Mic Setting	
<b>Synth Vocoder Overview</b>															
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	
<b>Synth Vocoder Detail</b>															
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	
<b>Keyboard Harmony/Arpeggio</b>															
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			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect				Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group		
Speed	0	X	X	X	0	Keyboard Harmony/Arpeggio	0	Keyboard Voice	X	0	X	0	Keyboard Harmony/Arpeggio	-		
Assign	0	X	X	X	0	Keyboard Harmony/Arpeggio	0	Keyboard Voice	X	0	X	0	Keyboard Harmony/Arpeggio	-		
Chord Note Only	0	X	X	X	0	Keyboard Harmony/Arpeggio	0	Keyboard Voice	X	0	X	0	Keyboard Harmony/Arpeggio	-		
Minimum Velocity	0	X	X	X	0	Keyboard Harmony/Arpeggio	0	Keyboard Voice	X	0	X	0	Keyboard Harmony/Arpeggio	-		
<b>Split&amp;Fingering</b>																
Split Point(Left)	0	0	X	X	X	-	X	-	X	X	X	0	Style	Split Point		
Split Point(Style)	0	0	X	X	X	-	0	Guide Setting	X	X	X	0	Style	Split Point		
Split Point(Right3)	0	0	X	X	X	-	X	-	X	X	X	0	Voice	Split Point		
Fingering Type	0	0	X	X	X	-	X	-	X	X	X	0	Style	Fingering Type		
Chord Detection Area	0	0	X	X	X	-	X	-	X	X	X	0	Style			
Manual Bass	0	0	X	X	X	-	X	-	X	X	X	0	Style			
<b>Regist Sequence</b>																
Sequence Data	0	X	X	X	X	-	X	-	X	X	X	0	-	-	One sequence data per Regist Bank file	
Sequence On/Off	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
Pedal Control Regist+	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
Pedal Control Regist-	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
Sequence End	0	X	X	X	X	-	X	-	X	X	X	0	-	-	One sequence end per Regist Bank file	
<b>Registration Freeze</b>																
Freeze On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Setting	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
<b>Metronome</b>																
<b>Metronome</b>																
Metronome On/Off	X	X	X	X	X	-	X	-	X	X	X	X	-	-		
Volume	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
Sound	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
Time Signature	X	X	X	X	X	-	0	-	0	X	X	X	-	-		
<b>Tap Tempo</b>																
Volume	0	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Style	-		
Sound	0	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Style	-		
<b>Live Control</b>																
Knob Function Assign	0	0	X	X	X	-	X	-	X	X	X	0	Live Control	-		
Slider Function Assign	0	0	X	X	X	-	X	-	X	X	X	0	Live Control	-		
Detail Setting	0	0	X	X	X	-	X	-	X	X	X	0	Live Control	-		
<b>Detail</b>																
Arpeggio Velocity	0	X	X	X	X	-	X	-	X	X	X	0	Keyboard Harmony/Arpeggio	-	Firmware V1.10 or later	
Arpeggio Gate Time	0	X	X	X	X	-	X	-	X	X	X	0	Keyboard Harmony/Arpeggio	-	Firmware V1.10 or later	
Arpeggio Unit Multiply	0	X	X	X	X	-	X	-	X	X	X	0	Keyboard Harmony/Arpeggio	-	Firmware V1.10 or later	
Style Retrigger Rate	0	X	X	X	X	-	X	-	X	X	X	0	Style	-	Firmware V1.10 or later	
Style Retrigger On/Off	0	X	X	X	X	-	X	-	X	X	X	0	Style	-	Firmware V1.10 or later	
<b>Assignable</b>																
Home Shortcuts	0	0	X	X	X	-	X	-	X	X	X	X	-	-		
Foot Pedals Function	0	0	X	X	X	-	X	-	X	X	X	0	Foot Pedals	-		
Foot Pedals Detail Setting	0	0	X	X	X	-	X	-	X	X	X	0	Foot Pedals	-		
Assignable Buttons	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
Assignable Buttons Detail Setting	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
Rotary Sp/Assignable	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
Rotary Sp/Assignable Detail Setting	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
<b>Detail</b>																
Fade In Time	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
Fade Out Time	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
Fade Out Hold Time	0	0	X	X	X	-	X	-	X	X	X	0	Assignable Buttons	-		
<b>Menu</b>																
Pedal Polarity	0	0	X	X	X	-	X	-	X	X	X	X	-	-		



Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song			Style			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group			
<b>Voice Edit</b>																
<b>Common</b>																
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	-		
<b>Sound</b>																
<b>Filter</b>																
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	-		
<b>EG</b>																
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	-		
<b>Vibrato</b>																
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	-		
<b>Modulation(+)</b>																
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			Registration		Parameter Lock Group	Note
	System	MIDI	User Effect	Song	Song Setup Group	Style Data			OTS	Multi Pad	Regist	Freeze Group						
													Back	Restore	System	Style		
Modulation(+) Amplitude(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) Amplitude(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) Amplitude(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) Amplitude(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(+) LFO Pitch(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Pitch(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Pitch(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Pitch(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(+) LFO Filter(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Filter(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Filter(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Filter(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(+) LFO Amplitude(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Amplitude(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Amplitude(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(+) LFO Amplitude(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
<b>Modulation(-)</b>																		
Modulation(-) Filter(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) Filter(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) Filter(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) Filter(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(-) Amplitude(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) Amplitude(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) Amplitude(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) Amplitude(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(-) LFO Pitch(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Pitch(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Pitch(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Pitch(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(-) LFO Filter(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Filter(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Filter(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Filter(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
Modulation(-) LFO Amplitude(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Amplitude(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Amplitude(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
Modulation(-) LFO Amplitude(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
<b>After Touch</b>																		
After Touch Filter(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch Filter(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch Filter(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch Filter(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
After Touch Amplitude(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch Amplitude(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch Amplitude(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch Amplitude(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
After Touch LFO Pitch(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Pitch(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Pitch(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Pitch(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
After Touch LFO Filter(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Filter(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Filter(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Filter(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
After Touch LFO Amplitude(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Amplitude(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Amplitude(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-				
After Touch LFO Amplitude(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-				
<b>Effect</b>																		
Insertion Effect On/Off(Right1)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect Type(Right1)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect On/Off(Right2)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect Type(Right2)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect On/Off(Right3)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect Type(Right3)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect On/Off(Left)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Style	-				
Insertion Effect Type(Left)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Style	-				
Insertion Effect Type Parameter(Right1)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect Type Parameter(Right2)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect Type Parameter(Right3)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Voice	-				
Insertion Effect Type Parameter(Left)	0	X	X	X	0	Effect	0	Keyboard Voice	X	0	X	0	Style	-				

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group		
<b>EQ</b>															
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	-	
<b>Organ Flute</b>															
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	-	
<b>Style Creator</b>															
<b>Step Edit</b>															
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	-	-	
<b>Basic</b>															
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	-	-	
<b>Play Root</b>															
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	-	-	
<b>NTR/NTT</b>															
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	-	-	
<b>High Key/Note Limit</b>															
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	-	-	
<b>RTR</b>															
RTR	X	X	X	X	X	-	X	-	O	X	X	X	-	-	
<b>Step Edit</b>															
<b>Channel-Chd/1-16/SysEx./Lyric&gt;Filter</b>															
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		Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist		
<b>MIDI Multi Pad Creator</b>														
<b>MIDI Multi Pad Recording</b>														
<b>Step Edit</b>														
Main Filter	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Control Change Filter	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Repeat	X	X	X	X	X	-	X	-	X	X	0	X	-	-
Chord Match	X	X	X	X	X	-	X	-	X	X	0	X	-	-
<b>Audio Link Multi Pad</b>														
Audio Level	X	X	X	X	X	-	X	-	X	X	0	X	-	-
<b>Voice Setting</b>														
<b>Tune</b>														
Tuning (Left)	0	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Style	-
Tuning(Right1)	0	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Voice	-
Tuning(Right2)	0	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Voice	-
Tuning(Right3)	0	X	X	X	X	-	0	Keyboard Voice	X	0	X	0	Voice	-
Octave (Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-
Octave (Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-
Octave (Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-
Octave (Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-
Portamento Time(Left)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Style	-
Portamento Time(Right1)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-
Portamento Time(Right2)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-
Portamento Time(Right3)	0	X	X	X	0	Voice	0	Keyboard Voice	X	0	X	0	Voice	-
<b>Voice Set Filter</b>														
Voice Set On/Off(Left)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Voice Set On/Off(Right1)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Voice Set On/Off(Right2)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Voice Set On/Off(Right3)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
<b>S.Art2/Arpeggio</b>														
S.Art2 Auto Articulation(Head)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
S.Art2 Auto Articulation(Joint)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
S.Art2 Auto Articulation(Tail)	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Arpeggio Quantize	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Arpeggio Hold	0	0	X	X	X	-	X	-	X	X	X	X	-	-
<b>Style Setting</b>														
<b>Setting</b>														
Dynamics Control	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Display Tempo	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Stop ACMP	0	0	X	X	X	-	X	-	X	X	X	0	Style	-
OTS Link Timing	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Synchro Stop Window	0	0	X	X	X	-	X	-	X	X	X	0	Style	-
Multi Pad Synchro Stop (Style Stop)	0	0	X	X	X	-	X	-	X	X	X	0	Style	Firmware V1.20 or later
Multi Pad Synchro Stop (Style Ending)	0	0	X	X	X	-	X	-	X	X	X	0	Style	Firmware V1.20 or later
<b>Change Behavior</b>														
Section Set	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Tempo	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Part On/Off	0	0	X	X	X	-	X	-	X	X	X	X	-	-
<b>Song Setting</b>														
<b>Guide</b>														
Type	0	0	X	X	X	-	0	Guide Setting	X	X	X	X	-	-
<b>Part Ch</b>														
Right	0	0	X	X	X	-	0	-	X	X	X	X	-	-
Left	0	0	X	X	X	-	0	-	X	X	X	X	-	-
Auto Set	0	0	X	X	X	-	X	-	X	X	X	X	-	-
<b>Lyrics</b>														
Language	0	0	X	X	X	-	0	Lyrics Setting	X	X	X	X	-	-
<b>Play</b>														
Quick Start	0	0	X	X	X	-	X	-	X	X	X	X	-	-
MIDI Song Fast Forward Type	0	0	X	X	X	-	X	-	X	X	X	X	-	-
Style Synchro Stop	0	0	X	X	X	-	X	-	X	X	X	0	Song	Firmware V1.20 or later
Multi Pad Synchro Stop	0	0	X	X	X	-	X	-	X	X	X	0	Song	Firmware V1.20 or later
<b>Tuning</b>														
<b>Master Tune</b>														
Master Tune	0	0	X	X	X	-	X	-	X	X	X	X	-	-
<b>Scale Tune</b>														
Scale Type	0	X	X	X	X	-	X	-	X	X	X	0	Scale Tune	-
Base Note	0	X	X	X	X	-	X	-	X	X	X	0	Scale Tune	-
Tune	0	X	X	X	X	-	X	-	X	X	X	0	Scale Tune	-
Part Select	0	X	X	X	X	-	X	-	X	X	X	0	Scale Tune	-

Parameter	Backup/Restore	Setup			Voice Set	Voice Set Group	Song		Style			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group		
<b>Transpose</b>															
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	-	
<b>Keyboard/Joystick</b>															
<b>Keyboard</b>															
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	-	
<b>Joystick</b>															
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	-	
<b>MIDI</b>															
Setting	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
Preset Setting Name	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
<b>System</b>															
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	-	-	
<b>Transmit</b>															
Ch	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Filter	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
<b>Receive</b>															
Part	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
Filter	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
<b>On Bass Note</b>															
Bass(On Bass Note)	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
<b>Chord Detect</b>															
Chord Detect	O	X	O	X	X	-	X	-	X	X	X	X	-	-	
<b>External Controller</b>															
MIDI Port	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
MIDI Ch	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>Utility</b>															
<b>Speaker/Connectivity</b>															
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.
<b>Display/Touch Screen</b>															
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	-	-	
<b>Parameter Lock</b>															
Parameter Lock	O	O	X	X	X	-	X	-	X	X	X	X	-	-	
<b>System</b>															
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	-	-	
<b>Time</b>															
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			Registration		Parameter Lock Group	Note
		System	MIDI	User Effect			Song	Song Setup Group	Style Data	OTS	Multi Pad	Regist	Freeze Group		
<b>Wireless LAN (*)</b>															
Wireless LAN Mode	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Host Name	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
<b>Wireless LAN Infrastructure mode</b>															
SSID	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Security	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Password	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
DHCP	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
IP Address	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Subnet Mask	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Gateway	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
DNS Server1	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
DNS Server2	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Host Name	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
<b>Wireless LAN Access Point mode</b>															
SSID	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Security	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Password	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Channel	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
DHCP Server	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
IP Address	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Subnet Mask	O	x	x	x	x	-	x	-	x	x	x	x	-	-	
Host Name	O	x	x	x	x	-	x	-	x	x	x	x	-	-	

\* 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	Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary
0	00	0000 0000	32	20	0010 0000	64	40	0100 0000	96	60	0110 0000
1	01	0000 0001	33	21	0010 0001	65	41	0100 0001	97	61	0110 0001
2	02	0000 0010	34	22	0010 0010	66	42	0100 0010	98	62	0110 0010
3	03	0000 0011	35	23	0010 0011	67	43	0100 0011	99	63	0110 0011
4	04	0000 0100	36	24	0010 0100	68	44	0100 0100	100	64	0110 0100
5	05	0000 0101	37	25	0010 0101	69	45	0100 0101	101	65	0110 0101
6	06	0000 0110	38	26	0010 0110	70	46	0100 0110	102	66	0110 0110
7	07	0000 0111	39	27	0010 0111	71	47	0100 0111	103	67	0110 0111
8	08	0000 1000	40	28	0010 1000	72	48	0100 1000	104	68	0110 1000
9	09	0000 1001	41	29	0010 1001	73	49	0100 1001	105	69	0110 1001
10	0A	0000 1010	42	2A	0010 1010	74	4A	0100 1010	106	6A	0110 1010
11	0B	0000 1011	43	2B	0010 1011	75	4B	0100 1011	107	6B	0110 1011
12	0C	0000 1100	44	2C	0010 1100	76	4C	0100 1100	108	6C	0110 1100
13	0D	0000 1101	45	2D	0010 1101	77	4D	0100 1101	109	6D	0110 1101
14	0E	0000 1110	46	2E	0010 1110	78	4E	0100 1110	110	6E	0110 1110
15	0F	0000 1111	47	2F	0010 1111	79	4F	0100 1111	111	6F	0110 1111
16	10	0001 0000	48	30	0011 0000	80	50	0101 0000	112	70	0111 0000
17	11	0001 0001	49	31	0011 0001	81	51	0101 0001	113	71	0111 0001
18	12	0001 0010	50	32	0011 0010	82	52	0101 0010	114	72	0111 0010
19	13	0001 0011	51	33	0011 0011	83	53	0101 0011	115	73	0111 0011
20	14	0001 0100	52	34	0011 0100	84	54	0101 0100	116	74	0111 0100
21	15	0001 0101	53	35	0011 0101	85	55	0101 0101	117	75	0111 0101
22	16	0001 0110	54	36	0011 0110	86	56	0101 0110	118	76	0111 0110
23	17	0001 0111	55	37	0011 0111	87	57	0101 0111	119	77	0111 0111
24	18	0001 1000	56	38	0011 1000	88	58	0101 1000	120	78	0111 1000
25	19	0001 1001	57	39	0011 1001	89	59	0101 1001	121	79	0111 1001
26	1A	0001 1010	58	3A	0011 1010	90	5A	0101 1010	122	7A	0111 1010
27	1B	0001 1011	59	3B	0011 1011	91	5B	0101 1011	123	7B	0111 1011
28	1C	0001 1100	60	3C	0011 1100	92	5C	0101 1100	124	7C	0111 1100
29	1D	0001 1101	61	3D	0011 1101	93	5D	0101 1101	125	7D	0111 1101
30	1E	0001 1110	62	3E	0011 1110	94	5E	0101 1110	126	7E	0111 1110
31	1F	0001 1111	63	3F	0011 1111	95	5F	0101 1111	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 Events	Status byte		1st Data byte		2nd Data byte		Voice		[MIDI]					[Internal sequencer]											
	Status	(n:Channel Number)	Data (HEX)	Parameter	Data (HEX)	Parameter	Regular/Drum/S.Art Piano/Organ Flutes	Mic/Vocal Harmony	MIDI Reception					MIDI Transmission					PLAY		REC				
									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)	0	0 (Harmony Channel)	0	0	0	0	0	0	X	X	X	0	X	0	X	0			
Key On [GM1][GM2]	9nH	(n:Channel Number)	kk	Key no. (0 - 127)	vv	Key On :vv=1 - 127 Key Off :vv=0	0	0 (Harmony Channel)	0	0	0	0	0	0	●	0	0	0	0	●	0	X	0		
Control Change	BnH		0 (00H)	Bank Select MSB [GM2]	0 (00H) 0 (00H) 8 (08H) 8 (08H) 64 (40H) 104 (68H) 104 (68H) 118 (76H) 119 (77H) 120 (78H) 121 (79H) 126 (7EH) 127 (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	0	X	0	0	0	0	0	0	●	0	●	●	X	0	0	0	0		
			1 (01H)	Modulation [GM1][GM2]	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	0	0	●	0	0	0	●	0	0	0	
			5 (05H)	Portamento Time [GM2]	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	0	0	●	0	X	0	X	0	0	0	0
			6 (06H)	Data Entry MSB [GM2]	0 - 127 (00H...7FH)	Data	0	0 (Harmony Channel)	0	0	0	0	0	0	0	0	●	0	0	0	X	0	X	0	0
			7 (07H)	Main Volume [GM1][GM2]	0 - 127 (00H...7FH)	Data	0	0 (A/D Part Receive Channel)	0	0	0	0	0	0	0	0	●	●	●	●	X	0	0	0	0
			10 (0AH)	Panpot [GM1][GM2]	0 - 127 (00H...7FH)	L64...C...R63	0	0 (A/D Part Receive Channel)	0	0	0	0	0	0	0	0	●	●	●	●	X	0	0	0	0
			11 (0BH)	Expression [GM1][GM2]	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	0	0	●	●	●	●	●	0	0	0	0
			16 (10H)	General Purpose Controller	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	X	0	●	0	X	0	●	0	0	0	X
			32 (20H)	Bank Select LSB [GM2]	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	0	0	●	0	●	●	X	0	0	0	0
			38 (26H)	Data Entry LSB [GM2]	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	0	0	●	0	X	0	X	0	X	0	0
			64 (40H)	Sustain (Damper) [GM1][GM2]	0 - 127 (00H...7FH)	Data	0	0 (Harmony Channel)	0	0	0	0	0	X	0	0	●	0	X	0	●	0	0	0	0
			65 (41H)	Portamento [GM2]	0 - 127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0	X	0	0	0	0	0	X	0	0	●	0	X	0	●	0	0	0	0
			66 (42H)	Sostenuto [GM2]	0 - 127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0	X	0	0	0	0	0	X	0	0	●	0	X	0	●	0	0	0	0
			67 (43H)	Soft Pedal [GM2]	0 - 127 (00H...7FH)	0...63, 64...127 (OFF, ON)	0	X	0	0	0	0	0	X	0	0	●	0	X	0	●	0	0	0	0
			71 (47H)	Resonance [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	●	0	●	●	X	0	0	0	0
			72 (48H)	Release Time [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	●	0	0	0	X	0	0	0	0
			73 (49H)	Attack Time [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	●	0	0	0	X	0	0	0	0
			74 (4AH)	Cutoff [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	●	0	●	●	X	0	0	0	0
			75 (4BH)	Decay Time [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	X	X	X	0	X	0	0	0	X
			76 (4CH)	Vibrato Rate [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	X	X	X	0	X	0	0	0	X
77 (4DH)	Vibrato Depth [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	X	X	X	0	X	0	0	0	X			
78 (4EH)	Vibrato Delay [GM2]	0 - 127 (00H...7FH)	-64...0...+63	0	X	0	0	0	0	0	0	0	0	X	X	X	0	X	0	0	0	X			
80 (50H)	General Purpose Controller (Articulation 1)	0 - 127 (00H...7FH)	0: OFF 127: ON	0 (S.Art/S.Art2 Voice only)	X	0	X	X	X	X	●	X	0	0	X	0	X	0	0	0	0	0			
81 (51H)	General Purpose Controller (Articulation 2)	0 - 127 (00H...7FH)	0: OFF 127: ON	0 (S.Art2 Voice only)	X	0	X	X	X	X	●	X	0	0	X	0	X	0	0	0	0	0			

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

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



MIDI Events	[MIDI]																[Internal sequencer]						
	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 (Articulation 3)	0 - 127 (00H...7FH)	0: OFF 127: ON	0 (S.Art2 Voice only)	X	0	X	X	X	X	●	X	0	0	X	0	0	0		
			84 (54H)	Portamento Control	0 - 127 (00H...7FH)	Key no. (0 - 127)	0	X	0	0	X	0	0	0	0	0	●	0	X	0	X	0	
			91 (5BH)	Effect1 Depth (Reverb Send Level) [GM2]	0 - 127 (00H...7FH)	Data	0	0	0	0	0	0	0	0	0	●	●	●	●	X	0	0	0
			93 (5DH)	Effect3 Depth (Chorus Send Level) [GM2]	0 - 127 (00H...7FH)	Data	0	0	0	0	0	0	0	0	0	●	●	●	●	X	0	0	0
			94 (5EH)	Effect4 Depth (Variation Send Level)	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	0	0	0	0	0	●	●	X	0	0	X
			96 (60H)	RPN Increment	- -	The data byte is ignored.	0	0	0	0	0	0	X	0	0	X	0	X	0	X	0	X	X
			97 (61H)	RPN Decrement	- -	The data byte is ignored.	0	0	0	0	0	0	X	0	0	X	0	X	0	X	0	X	X
			98 (62H)	NRPN LSB	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	X	0	0	●	0	0	0	X	0	0	0
			99 (63H)	NRPN MSB	0 - 127 (00H...7FH)	Data	0	X	0	0	0	0	X	0	0	●	0	0	0	X	0	0	0
			100 (64H)	RPN LSB [GM2]	0 - 127 (00H...7FH)	Data	0	0	0	0	0	0	0	0	0	●	0	0	0	X	0	0	0
101 (65H)	RPN MSB [GM2]	0 - 127 (00H...7FH)	Data	0	0	0	0	0	0	0	0	0	●	0	0	0	X	0	0	0			
Mode Message	BnH	(n:Channel Number)	120 (78H)	All Sound Off [GM2]	0 (00H)	Data	0	X	0	0	0	0	0	X	0	X	0	X	0	X	X		
			121 (79H)	Reset All Controllers [GM1][GM2]	0 (00H)	Data	0	X	0	X	X	X	X	X	X	0	X	0	X	0	X	X	
			122 (7AH)	Local Control	0 127 (00H...7FH)	OFF ON	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	
			123 (7BH)	All Note Off [GM1][GM2]	0 (00H)	Data	0	0	0	0	0	0	0	0	0	X	0	X	0	X	0	X	X
			124 (7CH)	Omni Off [GM2]	0 (00H)	Data	0	X	0	X	0	X	X	X	X	X	0	X	0	X	0	X	X
			125 (7DH)	Omni On [GM2]	0 (00H)	Data	0	X	0	X	0	X	X	X	X	X	0	X	0	X	0	X	X
			126 (7EH)	Mono [GM2]	0 - 16 (00H...10H)	Data	0	X	0	X	0	X	X	X	X	X	0	X	0	X	0	X	X
127 (7FH)	Poly [GM2]	0 (00H)	Data	0	X	0	X	0	X	X	X	X	X	0	X	0	X	0	X	X			
Program Change [GM1][GM2]	CnH	(n:Channel Number)	pp (00H...7FH)	Voice Number (0 - 127)	- - -	0	X	0	0	0	0	0	0	●	0	●	●	X	0	0	0		
Channel After Touch [GM1][GM2]	DnH	(n:Channel Number)	vv (00H...7FH)	Data	- - -	0	X	0	0	0	0	0	0	●	0	X	0	●	0	X	0		
Polyphonic After Touch	AnH	(n:Channel Number)	kk (00H...7FH)	Key no. (0 - 127)	vv (00H...7FH)	Data	0	X	0	X	X	X	X	X	X	X	0	X	0	X	X		
Pitch Bend Change [GM1][GM2]	EnH	(n:Channel Number)	cc (00H...7FH)	LSB	dd (00H...7FH)	MSB	0	0	0	0	0	0	0	●	0	0	0	●	0	0	0		
Realtime Message	F8H	MIDI Clock	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	FAH	Start	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	FBH	Continue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	FCH	Stop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	FEH	Active Sense [GM2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
FFH	System Reset	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

● : Transmitted via panel operations and keyboard/controller performances. ○ : 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
01H	08H	mmH	--	Vibrato Rate	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	0	X	0	0	●	0	0	0	X	0	0	0
01H	09H	mmH	--	Vibrato Depth	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	0	X	0	0	●	0	0	0	X	0	0	0
01H	0AH	mmH	--	Vibrato Delay	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	0	X	0	0	●	0	0	0	X	0	0	0
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	X	X	0	X	X	0	X	0	X	0	0	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	X	X	0	X	X	0	X	0	X	0	0	X
01H	30H	mmH	--	EQ Bass Gain	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	X	X	0	X	X	X	0	X	0	0	X	
01H	31H	mmH	--	EQ Treble Gain	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	X	X	0	X	X	X	0	X	0	0	X	
01H	34H	mmH	--	EQ Bass Frequency	mm : 04H – 28H (32...2.0k [Hz])	0	X	0	X	X	X	X	X	X	0	X	0	0	X	
01H	35H	mmH	--	EQ Treble Frequency	mm : 1CH – 3AH (500...16.0k [Hz])	0	X	0	X	X	X	X	X	X	0	X	0	0	X	
01H	63H	mmH	--	EG Attack Time	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	X	X	0	X	X	0	X	0	X	0	0	X
01H	64H	mmH	--	EG Decay Time	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	0	X	0	0	●	0	0	0	X	0	0	0
01H	66H	mmH	--	EG Release	mm : 00H – 40H – 7FH (-64...0...+63)	0	X	0	X	X	0	X	X	0	X	0	X	0	0	X
14H	rrH	mmH	--	Drum Low Pass Filter Cutoff Frequency	rr : drum instrument note number mm : 00H – 40H – 7FH (-64...0...+63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
15H	rrH	mmH	--	Drum Low Pass Filter Resonance	rr : drum instrument note number mm : 00H – 40H – 7FH (-64...0...+63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
16H	rrH	mmH	--	Drum EG Attack Rate	rr : drum instrument note number mm : 00H – 40H – 7FH (-64...0...+63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
17H	rrH	mmH	--	Drum EG Decay Rate	rr : drum instrument note number mm : 00H – 40H – 7FH (-64...0...+63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
18H	rrH	mmH	--	Drum Pitch Coarse	rr : drum instrument note number mm : 00H – 40H – 7FH (-64...0...+63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
19H	rrH	mmH	--	Drum Pitch Fine	rr : drum instrument note number mm : 00H – 40H – 7FH (-64...0...+63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
1AH	rrH	mmH	--	Drum Level	rr : drum instrument note number mm : 00H – 7FH (0...127)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
1CH	rrH	mmH	--	Drum Pan	rr : drum instrument note number mm : 00H, 01H – 40H – 7FH (RND, L63...C...R63)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
1DH	rrH	mmH	--	Drum Reverb Send Level	rr : drum instrument note number mm : 00H – 7FH (0...127)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	X	X
1EH	rrH	mmH	--	Drum Chorus Send Level	rr : drum instrument note number mm : 00H – 7FH (0...127)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	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)	0 (Drum only)	X	0	X	X	X	X	X	X	0	0	X	0	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	0	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	0	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	0	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	0	X	X	X	X

● : Transmitted via panel operations and keyboard/controller performances. 0 : 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
00H	00H	mmH	--	Pitch Bend Sensitivity [GM1][GM2]	mm : 00H - 18H (0...+24 [semitones])	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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]	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00H	02H	mmH	--	Coarse Tune [GM1][GM2]	mm : 28H - 40H - 58H (-24...0...+24 [semitones])	0	X	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00H	05H	mmH	llH	Modulation Sensitivity [GM2]	mm : Specified in semitone steps ll : Specified in 100/128 cent steps	0	X	0	X	X	X	X	X	X	X	0	X	0	X	0	X
7FH	7FH	--	--	Null [GM2]	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X

● : Transmitted via panel operations and keyboard/controller performances. ○ : 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)

Address				Data	Parameter	Description	XG Default (H)	Voice		MIDI Reception					MIDI Transmission					PLAY		REC	
(H)	(H)	(H)	(H)					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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X	X
			04	1	00-7F	MASTER VOLUME	0...127	7F	0	X	0	0	0	0	0	0	0	0	0	0	0	0	X
			05	1	00-7F	MASTER ATTENUATOR	0...127	00	X	X	0	0	0	0	0	0	0	0	0	0	0	X	X
			06	1	28-58	TRANSPOSE	-24...0...+24 [semitones]	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	X
			7D	1	N	DRUM SETUP RESET	N:Drum setup number	-	0 (Drum only)	X	0	0	0	0	0	0	0	0	0	0	0	X	X
			7E	1	00	XG SYSTEM ON	00=XG system ON	-	0	X	0	0	0	0	0	0	0	0	0	0	0	X	0
			7F	1	00	ALL PARAMETER RESET	00=ON	-	0	X	0	0	0	0	0	0	0	0	0	0	0	X	X

TOTAL SIZE 07

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

### MIDI Parameter Change table (SYSTEM INFORMATION)

Address				Data	Parameter	Description	Voice		MIDI Reception					MIDI Transmission					PLAY		REC		
(H)	(H)	(H)	(H)				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	20-7F : : 20-7F	Model Name 1 : : Model Name 14 NOT USED NOT USED	32...127 (ASCII CHARACTER) : : 32...127 (ASCII CHARACTER)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

										[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
02	01	00	2	00-7F REVERB TYPE MSB 00-7F REVERB TYPE LSB	Refer to Effect Parameter List Refer to Effect Parameter List	01 (=HALL1) 00	0	0	0				●				0	0	0
		02	1	00-7F REVERB PARAMETER 1	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		03	1	00-7F REVERB PARAMETER 2	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		04	1	00-7F REVERB PARAMETER 3	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		05	1	00-7F REVERB PARAMETER 4	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		06	1	00-7F REVERB PARAMETER 5	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		07	1	00-7F REVERB PARAMETER 6	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		08	1	00-7F REVERB PARAMETER 7	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		09	1	00-7F REVERB PARAMETER 8	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		0A	1	00-7F REVERB PARAMETER 9	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		0B	1	00-7F REVERB PARAMETER 10	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
		0C	1	00-7F REVERB RETURN	--dB...0dB...+6dB (0...64...127)	40	0	0	0				●				0	0	0
		0D	1	01-7F REVERB PAN	L63...C...R63	40	0	0	0				0				0	0	X
TOTAL SIZE										0E									

		02	01	10	1	00-7F REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
				11	1	00-7F REVERB PARAMETER 12	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
				12	1	00-7F REVERB PARAMETER 13	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
				13	1	00-7F REVERB PARAMETER 14	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
				14	1	00-7F REVERB PARAMETER 15	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
				15	1	00-7F REVERB PARAMETER 16	Refer to Effect Parameter List	Depends on Reverb Type	0	0	0				●				0	0	0
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
02	01	20	2	00-7F CHORUS TYPE MSB 00-7F CHORUS TYPE LSB	Refer to Effect Parameter List Refer to Effect Parameter List	41 (=CHORUS1) 00	0	0	0				●				0	0	0
		22	1	00-7F CHORUS PARAMETER 1	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		23	1	00-7F CHORUS PARAMETER 2	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		24	1	00-7F CHORUS PARAMETER 3	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		25	1	00-7F CHORUS PARAMETER 4	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		26	1	00-7F CHORUS PARAMETER 5	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		27	1	00-7F CHORUS PARAMETER 6	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		28	1	00-7F CHORUS PARAMETER 7	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		29	1	00-7F CHORUS PARAMETER 8	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		2A	1	00-7F CHORUS PARAMETER 9	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		2B	1	00-7F CHORUS PARAMETER 10	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
		2C	1	00-7F CHORUS RETURN	--dB...0dB...+6dB (0...64...127)	40	0	0	0				●				0	0	0
		2D	1	01-7F CHORUS PAN	L63...C...R63	40	0	0	0				0				0	0	X
		2E	1	00-7F SEND CHORUS TO REVERB	--dB...0dB...+6dB (0...64...127)	00	0	0	0				0				0	0	X
TOTAL SIZE										0F									

		02	01	30	1	00-7F CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
				31	1	00-7F CHORUS PARAMETER 12	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
				32	1	00-7F CHORUS PARAMETER 13	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
				33	1	00-7F CHORUS PARAMETER 14	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
				34	1	00-7F CHORUS PARAMETER 15	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
				35	1	00-7F CHORUS PARAMETER 16	Refer to Effect Parameter List	Depends on Chorus Type	0	0	0				●				0	0	0
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
02	01	40	2	00-7F 00-7F	VARIATION TYPE MSB VARIATION TYPE LSB	Refer to Effect Parameter List Refer to Effect Parameter List	05 (=DELAY L, C, R) 00	0	0		0				●		0	0	0
		42	2	00-7F 00-7F	VARIATION PARAMETER 1 MSB VARIATION PARAMETER 1 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		44	2	00-7F 00-7F	VARIATION PARAMETER 2 MSB VARIATION PARAMETER 2 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		46	2	00-7F 00-7F	VARIATION PARAMETER 3 MSB VARIATION PARAMETER 3 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		48	2	00-7F 00-7F	VARIATION PARAMETER 4 MSB VARIATION PARAMETER 4 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		4A	2	00-7F 00-7F	VARIATION PARAMETER 5 MSB VARIATION PARAMETER 5 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		4C	2	00-7F 00-7F	VARIATION PARAMETER 6 MSB VARIATION PARAMETER 6 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		4E	2	00-7F 00-7F	VARIATION PARAMETER 7 MSB VARIATION PARAMETER 7 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		50	2	00-7F 00-7F	VARIATION PARAMETER 8 MSB VARIATION PARAMETER 8 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		52	2	00-7F 00-7F	VARIATION PARAMETER 9 MSB VARIATION PARAMETER 9 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		54	2	00-7F 00-7F	VARIATION PARAMETER 10 MSB VARIATION PARAMETER 10 LSB	Refer to Effect Parameter List Refer to Effect Parameter List	Depends on Variation Type	0	0		0				●		0	0	0
		56	1	00-7F	VARIATION RETURN	--dB...0dB...+6dB (0...64...127)	40	0	0		0				●		0	0	0
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	0	0		0				0		0	0	X
		58	1	00-7F	SEND VARIATION TO REVERB	--dB...0dB...+6dB (0...64...127)	00	0	0		0				0		0	0	X
		59	1	00-7F	SEND VARIATION TO CHORUS	--dB...0dB...+6dB (0...64...127)	00	0	0		0				0		0	0	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	0	0		0				●		0	0	0
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16 (0...15) Transmission: Part1...16 (0...15) AD (64) OFF (127)	7F	0	0		0				●		0	0	0
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	0	0		0				0		0	0	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	0	0		0				0		0	0	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	0	0		0				0		0	0	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	0	0		0				0		0	0	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	0	0		0				0		0	0	X

TOTAL SIZE 21

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

TOTAL SIZE 06

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

MIDI Parameter Change table (MULTI EQ)

				[MIDI]										[Internal sequencer]							
Address (H)	Size (H)	Data (H)	Parameter	Description * The MULTI EQ parameter cannot be reset to its factory setting with XG SYSTEM ON.	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	40	00	1	00-04	EQ TYPE	flat, jazz, pops, rock, classic	○	○			○					○			○	X	X
		01	1	34-4C	EQ GAIN1	-12...0...+12 [dB]	○	○			○					●			○	X	X
		02	1	04-28	EQ FREQUENCY1	32...2.0k [Hz]	○	○			○					●			○	X	X
		03	1	01-78	EQ Q1	0.1...12.0	○	○			○					●			○	X	X
		04	1	00-01	EQ SHAPE1	shelving, peaking	○	○			○					○			○	X	X
		05	1	34-4C	EQ GAIN2	-12...0...+12 [dB]	○	○			○					●			○	X	X
		06	1	0E-36	EQ FREQUENCY2	100...10.0k [Hz]	○	○			○					●			○	X	X
		07	1	01-78	EQ Q2	0.1...12.0	○	○			○					●			○	X	X
		08	1		NOT USED		-	-			-					-			-	-	-
		09	1	34-4C	EQ GAIN3	-12...0...+12 [dB]	○	○			○					●			○	X	X
		0A	1	0E-36	EQ FREQUENCY3	100...10.0k [Hz]	○	○			○					●			○	X	X
		0B	1	01-78	EQ Q3	0.1...12.0	○	○			○					●			○	X	X
		0C	1		NOT USED		-	-			-					-			-	-	-
		0D	1	34-4C	EQ GAIN4	-12...0...+12 [dB]	○	○			○					●			○	X	X
		0E	1	0E-36	EQ FREQUENCY4	100...10.0k [Hz]	○	○			○					●			○	X	X
		0F	1	01-78	EQ Q4	0.1...12.0	○	○			○					●			○	X	X
		10	1		NOT USED		-	-			-					-			-	-	-
		11	1	34-4C	EQ GAIN5	-12...0...+12 [dB]	○	○			○					●			○	X	X
		12	1	1C-3A	EQ FREQUENCY5	0.5k...16.0k [Hz]	○	○			○					●			○	X	X
		13	1	01-78	EQ Q5	0.1...12.0	○	○			○					●			○	X	X
		14	1	00-01	EQ SHAPE5	shelving, peaking	○	○			○					○			○	X	X

TOTAL SIZE 15

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

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

TOTAL SIZE 14

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

MIDI Parameter Change table (EFFECT2)

				[MIDI]										[Internal sequencer]							
Address (H)	Size (H)	Data (H)	Parameter	Description * The EFFECT2 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)		
03	n	00	2	00-7F	INSERTION EFFECT TYPE MSB	Refer to Effect Parameter List	○	○			○					●			○	○	○
		00-7F		INSERTION EFFECT TYPE LSB	Refer to Effect Parameter List																
		02	1	00-7F	INSERTION EFFECT PARAMETER 1	Refer to Effect Parameter List	○	○			○					●			○	○	○
		03	1	00-7F	INSERTION EFFECT PARAMETER 2	Refer to Effect Parameter List	○	○			○					●			○	○	○
		04	1	00-7F	INSERTION EFFECT PARAMETER 3	Refer to Effect Parameter List	○	○			○					●			○	○	○
		05	1	00-7F	INSERTION EFFECT PARAMETER 4	Refer to Effect Parameter List	○	○			○					●			○	○	○
		06	1	00-7F	INSERTION EFFECT PARAMETER 5	Refer to Effect Parameter List	○	○			○					●			○	○	○
		07	1	00-7F	INSERTION EFFECT PARAMETER 6	Refer to Effect Parameter List	○	○			○					●			○	○	○
		08	1	00-7F	INSERTION EFFECT PARAMETER 7	Refer to Effect Parameter List	○	○			○					●			○	○	○
		09	1	00-7F	INSERTION EFFECT PARAMETER 8	Refer to Effect Parameter List	○	○			○					●			○	○	○
		0A	1	00-7F	INSERTION EFFECT PARAMETER 9	Refer to Effect Parameter List	○	○			○					●			○	○	○
		0B	1	00-7F	INSERTION EFFECT PARAMETER 10	Refer to Effect Parameter List	○	○			○					●			○	○	○

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

Address (H)	Size (H)	Data (H)	Parameter	Description  * The EFFECT2 parameter cannot be reset to its factory setting with XG SYSTEM ON.	[MIDI]										[Internal sequencer]				
					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)
	0C	1	00-7F	INSERTION EFFECT PART NUMBER	Reception : Part1...16 (0...15) Transmission : Part1...16 (0...15) AD (64) OFF (127)	○	○		○					●			○	○	○
	0D	1	00-7F	MW INSERTION CONTROL DEPTH	-64...0...+63	○	○		○					○			○	○	X
	0E	1	00-7F	BEND INSERTION CONTROL DEPTH	-64...0...+63	○	○		○					○			○	○	X
	0F	1	00-7F	CAT INSERTION CONTROL DEPTH	-64...0...+63	○	○		○					○			○	○	X
	10	1	00-7F	AC1 INSERTION CONTROL DEPTH	-64...0...+63	○	○		○					○			○	○	X
	11	1	00-7F	AC2 INSERTION CONTROL DEPTH	-64...0...+63	○	○		○					○			○	○	○
TOTAL SIZE					12														

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

	30	2	00-7F	INSERTION EFFECT PARAMETER 1 MSB	Refer to Effect Parameter List	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			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	○	○		○					●			○	○	○
			00-7F	INSERTION EFFECT PARAMETER 10 LSB	Refer to Effect Parameter List														
TOTAL SIZE					14														

● : Transmitted via panel operations and keyboard/controller performances. ○ : 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	
						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
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	X	
			07	1	00-7F	VOCAL HARMONY PARAMETER 6	X	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	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	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 00-7F	VOCAL EFFECT TYPE MSB VOCAL EFFECT TYPE LSB		X	O	O	●	O	O	X
		62	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 1 MSB VOCAL EFFECT PARAMETER 1 LSB		X	O	O	●	O	O	X
		64	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 2 MSB VOCAL EFFECT PARAMETER 2 LSB		X	O	O	●	O	O	X
		66	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 3 MSB VOCAL EFFECT PARAMETER 3 LSB		X	O	O	●	O	O	X
		68	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 4 MSB VOCAL EFFECT PARAMETER 4 LSB		X	O	O	●	O	O	X
		6A	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 5 MSB VOCAL EFFECT PARAMETER 5 LSB		X	O	O	●	O	O	X
		6C	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 6 MSB VOCAL EFFECT PARAMETER 6 LSB		X	O	O	●	O	O	X
		6E	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 7 MSB VOCAL EFFECT PARAMETER 7 LSB		X	O	O	●	O	O	X
		70	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 8 MSB VOCAL EFFECT PARAMETER 8 LSB		X	O	O	●	O	O	X
		72	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 9 MSB VOCAL EFFECT PARAMETER 9 LSB		X	O	O	●	O	O	X
		74	2	00-7F 00-7F	VOCAL EFFECT PARAMETER 10 MSB VOCAL EFFECT PARAMETER 10 LSB		X	O	O	○	O	O	X
		76	1	00-7F	VOCAL EFFECT SWITCH	ON (1-127), OFF (0)	X	O	O	●	O	O	O
		77	1	00-7F	VOCAL EFFECT OUTPUT LEVEL		X	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. ○ : Available

## MIDI Parameter Change table (MULTI PART)

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	[MIDI]										[Internal sequencer]										
						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)						
08	nn	00	1	00-20	ELEMENT RESERVE	0...32																				
		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	O	O	X		
		02	1	00-7F	BANK SELECT LSB	0...127	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	O	O	X		
		03	1	00-7F	PROGRAM NUMBER	1...128	00	O	X	O	O	X	O	O	X	X	X	O	X	O	X	O	O	X		
		04	1	00-0F, 7F	Rcv CHANNEL	1...16, OFF	Part No.	O	X	O	X	X	X	X	X	X	X	O	X	O	X	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	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	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	X			
		08	1	28-58	NOTE SHIFT	-24...0...+24 [semitones]	40	O	X	O	O	X	O	O	X	X	X	O	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	0800	O	X	O	O	O	O	O	X	X	X	O	X	O	X	O	X			
		0B	1	00-7F	VOLUME	0...127	64	O	X	O	O	X	O	O	X	X	X	O	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	X	O	O			
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	O	X	O	O	X	X	O	●	O	X	O	X	O	X	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	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	O	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	O	X			
		11	1	00-7F	DRY LEVEL	0...127	7F	O	X	O	O	O	O	O	X	O	O	O	X	O	X	O	O			
		12	1	00-7F	CHORUS SEND	0...127	00	O	X	O	O	X	O	O	X	X	X	O	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	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	X	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	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	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	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	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	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	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	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	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	O	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	X	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	O	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 Data Format / MIDI-Datenformat / Format des données MIDI / Formato dati MIDI / MIDI-gegevensindeling / Format danych MIDI

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	04-2B	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	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	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	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	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	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	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)

Address (H)	Size (H)	Data (H)	Parameter	Description <small>* The A/D PART parameter cannot be reset to its factory setting with XG SYSTEM ON.</small>	[MIDI]					[Internal sequencer]					PLAY		REC						
					Voice		MIDI Reception			MIDI Transmission			PLAY	REW	From panel (Right1/ Right2/ Right3/ Left)								
					Regul/ 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				
10	0n	00	1	00-01	INPUT GAIN	MIC, LINE	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		X	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	X			
		0C	1		NOT USED																		
		0D	1		NOT USED																		
		0E	1	01-7F	PAN	L63...C...R63	X	O		O					●		O	X	X	X			
		0F	1		NOT USED																		
		10	1		NOT USED																		
		11	1	00-7F	DRY LEVEL	0...127	X	O		O					●		O	X	X	X			
		12	1	00-7F	CHORUS SEND	0...127	X	O		O					●		O	X	X	X			
		13	1	00-7F	REVERB SEND	0...127	X	O		O					●		O	X	X	X			
		14	1	00-7F	VARIATION SEND	0...127	X	O		O					●		O	X	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]					[Internal sequencer]								
						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
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		01	1	00-7F	PITCH FINE	-64...0...+63 [cent]	40	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		02	1	00-7F	LEVEL	0...127	Depends on the note	0 (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	0 (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	0 (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	0 (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	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		07	1	00-7F	VARIATION SEND	0...127	7F	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	0 (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	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	0 (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	0 (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	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	0 (Drum only)	X		O (Available only for Song parts)		O				O	X	X
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	0 (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	0 (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	0 (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	0 (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	0 (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 Event	Data Format	[MIDI]										[Internal sequencer]							
		Voice		MIDI Reception					MIDI Transmission			PLAY		REC From panel (Right1/ Right2/ Right3/ Left)					
		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			
Master Volume [GM2]	F0 7F XN 04 01 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn 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	0	X							O									X
Master Fine Tuning [GM2]	F0 7F XN 04 03 SS TT F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn 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	0	X							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 0xxxxnnn 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	0	X							O							O	X	X
Reverb Parameter [GM2]	F0 7F XN 04 05 01 01 01 01 PP VV ... F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxxnnn 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	0	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 0xxxxnnn 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	0	O							O							O	O	X

MIDI Event	Data Format	[MIDI]											[Internal sequencer]																															
		Voice		MIDI Reception					MIDI Transmission				PLAY		REC																													
		Regular/ Drum/ S.Art Piano/ Organ Flutes	Mic/ Vocal Harmony	Song	Right 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]	<p>F0 7F XN 09 01 0M PP RR ... F7</p> <p>11110000 F0 = Exclusive status                      01111111 7F = Universal Real Time                      0xxxxnnn 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)                      0pppppppp PP = Controlled Parameter                      0rrrrrrrr RR = Range                      :                      :                      11110111 F7 = End of Exclusive</p> <p>Make sure to set both the Controlled Parameter and the Range.                      Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Control Parameter(pp)</th> <th>Range(RR)</th> <th>Description</th> <th>Default Value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H - 58H</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H - 7FH</td> <td>-9600...0...+9450 cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H - 7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H - 7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H - 7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H - 7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table>	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	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
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pp=05 LFO Amplitude Depth	00H - 7FH	0...127	00H																																									
Controller (Control Change) [GM2]	<p>F0 7F XN 09 03 0M CC PP RR ... F7</p> <p>11110000 F0 = Exclusive status                      01111111 7F = Universal Real Time                      0xxxxnnn 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)                      0ccccc CC = Controller Number (01H - 1FH, 40H - 5FH)                      0pppppppp PP = Controlled Parameter                      0rrrrrrrr RR = Range                      :                      :                      11110111 F7 = End of Exclusive</p> <p>Make sure to set both the Controlled Parameter and the Range.                      Parameters not set will be restored to their default values.</p> <table border="1"> <thead> <tr> <th>Control Parameter(pp)</th> <th>Range(RR)</th> <th>Description</th> <th>Default Value</th> </tr> </thead> <tbody> <tr> <td>pp=00 Pitch Control</td> <td>28H - 58H</td> <td>-24...0...+24 semitones</td> <td>40H</td> </tr> <tr> <td>pp=01 Filter Cutoff Control</td> <td>00H - 7FH</td> <td>-9600...0...+9450 cents</td> <td>40H</td> </tr> <tr> <td>pp=02 Amplitude Control</td> <td>00H - 7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>pp=03 LFO Pitch Depth</td> <td>00H - 7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=04 LFO Filter Depth</td> <td>00H - 7FH</td> <td>0...127</td> <td>00H</td> </tr> <tr> <td>pp=05 LFO Amplitude Depth</td> <td>00H - 7FH</td> <td>0...127</td> <td>00H</td> </tr> </tbody> </table>	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	O	X	O	X	X	X	X	X	X	X	O	X	O	X	X
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Key-Based Instrument [GM2]	<p>F0 7F XN 0A 01 0M KK CC VV ... F7</p> <p>11110000 F0 = Exclusive status                      01111111 7F = Universal Real Time                      0xxxxnnn 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                      0ccccc CC = Controller Number                      0vvvvvvv VV = Value                      :                      :                      11110111 F7 = End of Exclusive</p> <p>Make sure to set both the Controlled Number and the Value.</p> <table border="1"> <thead> <tr> <th>Control Number(CC)</th> <th>Value(VV)</th> <th>Description</th> <th>Default Value</th> </tr> </thead> <tbody> <tr> <td>CC=07H Volume</td> <td>00H - 7FH</td> <td>-100...0...+100%</td> <td>40H</td> </tr> <tr> <td>CC=0AH Pan</td> <td>00H - 7FH</td> <td>L63...C...R63 (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5BH Reverb Send Level</td> <td>00H - 7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> <tr> <td>CC=5DH Chorus Send Level</td> <td>00H - 7FH</td> <td>0...Max (absolute)</td> <td>(Preset value)</td> </tr> </tbody> </table>	Control Number(CC)	Value(VV)	Description	Default Value	CC=07H Volume	00H - 7FH	-100...0...+100%	40H	CC=0AH Pan	00H - 7FH	L63...C...R63 (absolute)	(Preset value)	CC=5BH Reverb Send Level	00H - 7FH	0...Max (absolute)	(Preset value)	CC=5DH Chorus Send Level	00H - 7FH	0...Max (absolute)	(Preset value)	O (Drum only)	X	O	X	X	X	X	X	X	X	O	X	O	X	X								
Control Number(CC)	Value(VV)	Description	Default Value																																									
CC=07H Volume	00H - 7FH	-100...0...+100%	40H																																									
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CC=5DH Chorus Send Level	00H - 7FH	0...Max (absolute)	(Preset value)																																									

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

MIDI Event	Data Format	[MIDI]										[Internal sequencer]				
		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]	<b>F0 7E XN 09 01 F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0 - F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive	0	-													
GM2 System On [GM2]	<b>F0 7E XN 09 03 F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0 - F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000011 03 = Sub-ID #2=General MIDI2 On 11110111 F7 = End of Exclusive	0	-													X
General MIDI System Off [GM1] [GM2]	<b>F0 7E XN 09 02 F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0 - F, whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000010 02 = Sub-ID #2=General MIDI Off 11110111 F7 = End of Exclusive	0	-													X
Scale/Octave Tuning [GM2]	<b>F0 7E XN 08 08 JJ GG MM SS ... F7</b> 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxxnnn XN = When N is received N=0 - F, whichever is received. X=ignored 00001000 08 = Sub-ID #1=MIDI Tuning Standard 00001000 08 = Sub-ID #2=scale/octave tuning 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	0	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 Event	Data Format	[MIDI]																																																																																																																			
		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	<p><b>F0 43 7E 00 ss dd F7</b></p> <p>11110000 F0 = Exclusive status                      01000011 43 = YAMAHA ID                      01111110 7E = Style                      00000000 00 =                      0sssssss ss = Switch No.</p> <p>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</p> <p>0ddddddd dd = Switch On/Off                      00H (Off)                      7FH (On)</p> <p>11110111 F7 = End of Exclusive</p>	-	-					O					•																																																																																																								
Tempo Control	<p><b>F0 43 7E 01 t4 t3 t2 t1 F7</b></p> <p>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</p>	-	-					O					•																																																																																																								
Chord Control	<p><b>F0 43 7E tt d1 d2 d3 d4 F7</b></p> <p>Type1 (tt=02)</p> <p>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</p> <p>cr : Chord Root 0ffffnnn                      ff: ♭ or ♯, nnnn: note(root)</p> <table border="0"> <tr><td>0000nnnn</td><td>0n bb♭</td><td>0fff0000</td><td>x0 reserved</td></tr> <tr><td>0001nnnn</td><td>1n bb</td><td>0fff0001</td><td>x1 C</td></tr> <tr><td>0010nnnn</td><td>2n b</td><td>0fff0010</td><td>x2 D</td></tr> <tr><td>0011nnnn</td><td>3n natural</td><td>0fff0011</td><td>x3 E</td></tr> <tr><td>0100nnnn</td><td>4n #</td><td>0fff0100</td><td>x4 F</td></tr> <tr><td>0101nnnn</td><td>5n ##</td><td>0fff0101</td><td>x5 G</td></tr> <tr><td>0110nnnn</td><td>6n ###</td><td>0fff0110</td><td>x6 A</td></tr> <tr><td></td><td></td><td>0fff0111</td><td>x7 B</td></tr> </table> <p>ct : Chord Type 0 - 34, 127</p> <table border="0"> <tr><td>00000000</td><td>00 0 Maj</td><td>00010010</td><td>12 18 dim7</td></tr> <tr><td>00000001</td><td>01 1 Maj6</td><td>00010011</td><td>13 19 7ch</td></tr> <tr><td>00000010</td><td>02 2 Maj7</td><td>00010100</td><td>14 20 7sus4</td></tr> <tr><td>00000011</td><td>03 3 Maj7(#11)</td><td>00010101</td><td>15 21 7b5</td></tr> <tr><td>00000100</td><td>04 4 Maj(9)</td><td>00010110</td><td>16 22 7(9)</td></tr> <tr><td>00000101</td><td>05 5 Maj7(9)</td><td>00010111</td><td>17 23 7(#11)</td></tr> <tr><td>00000110</td><td>06 6 Maj6(9)</td><td>00011000</td><td>18 24 7(13)</td></tr> <tr><td>00000111</td><td>07 7 aug</td><td>00011001</td><td>19 25 7(b9)</td></tr> <tr><td>00001000</td><td>08 8 min</td><td>00011010</td><td>1A 26 7(b13)</td></tr> <tr><td>00001001</td><td>09 9 min6</td><td>00011011</td><td>1B 27 7(#9)</td></tr> <tr><td>00001010</td><td>0A 10 min7</td><td>00011100</td><td>1C 28 Maj7aug</td></tr> <tr><td>00001011</td><td>0B 11 min7b5</td><td>00011101</td><td>1D 29 7aug</td></tr> <tr><td>00001100</td><td>0C 12 min(9)</td><td>00011110</td><td>1E 30 1+8</td></tr> <tr><td>00001101</td><td>0D 13 min7(9)</td><td>00011111</td><td>1F 31 1+5</td></tr> <tr><td>00001110</td><td>0E 14 min7(11)</td><td>00100000</td><td>20 32 sus4</td></tr> <tr><td>00001111</td><td>0F 15 minMaj7</td><td>00100001</td><td>21 33 1+2+5</td></tr> <tr><td>00010000</td><td>10 16 minMaj7(9)</td><td>00100010</td><td>22 34 cc</td></tr> <tr><td>00010001</td><td>11 17 dim</td><td></td><td></td></tr> </table> <p>bn : On Bass Note Same as Chord root                      127.No bass chord</p> <p>bt : Bass Chord Same as Chord type                      127.No bass chord</p> <p>* Not received when 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.</p>	0000nnnn	0n bb♭	0fff0000	x0 reserved	0001nnnn	1n bb	0fff0001	x1 C	0010nnnn	2n b	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	00000000	00 0 Maj	00010010	12 18 dim7	00000001	01 1 Maj6	00010011	13 19 7ch	00000010	02 2 Maj7	00010100	14 20 7sus4	00000011	03 3 Maj7(#11)	00010101	15 21 7b5	00000100	04 4 Maj(9)	00010110	16 22 7(9)	00000101	05 5 Maj7(9)	00010111	17 23 7(#11)	00000110	06 6 Maj6(9)	00011000	18 24 7(13)	00000111	07 7 aug	00011001	19 25 7(b9)	00001000	08 8 min	00011010	1A 26 7(b13)	00001001	09 9 min6	00011011	1B 27 7(#9)	00001010	0A 10 min7	00011100	1C 28 Maj7aug	00001011	0B 11 min7b5	00011101	1D 29 7aug	00001100	0C 12 min(9)	00011110	1E 30 1+8	00001101	0D 13 min7(9)	00011111	1F 31 1+5	00001110	0E 14 min7(11)	00100000	20 32 sus4	00001111	0F 15 minMaj7	00100001	21 33 1+2+5	00010000	10 16 minMaj7(9)	00100010	22 34 cc	00010001	11 17 dim			-	-					O					X
0000nnnn	0n bb♭	0fff0000	x0 reserved																																																																																																																		
0001nnnn	1n bb	0fff0001	x1 C																																																																																																																		
0010nnnn	2n b	0fff0010	x2 D																																																																																																																		
0011nnnn	3n natural	0fff0011	x3 E																																																																																																																		
0100nnnn	4n #	0fff0100	x4 F																																																																																																																		
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0110nnnn	6n ###	0fff0110	x6 A																																																																																																																		
		0fff0111	x7 B																																																																																																																		
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00000010	02 2 Maj7	00010100	14 20 7sus4																																																																																																																		
00000011	03 3 Maj7(#11)	00010101	15 21 7b5																																																																																																																		
00000100	04 4 Maj(9)	00010110	16 22 7(9)																																																																																																																		
00000101	05 5 Maj7(9)	00010111	17 23 7(#11)																																																																																																																		
00000110	06 6 Maj6(9)	00011000	18 24 7(13)																																																																																																																		
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00001000	08 8 min	00011010	1A 26 7(b13)																																																																																																																		
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00001010	0A 10 min7	00011100	1C 28 Maj7aug																																																																																																																		
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00001100	0C 12 min(9)	00011110	1E 30 1+8																																																																																																																		
00001101	0D 13 min7(9)	00011111	1F 31 1+5																																																																																																																		
00001110	0E 14 min7(11)	00100000	20 32 sus4																																																																																																																		
00001111	0F 15 minMaj7	00100001	21 33 1+2+5																																																																																																																		
00010000	10 16 minMaj7(9)	00100010	22 34 cc																																																																																																																		
00010001	11 17 dim																																																																																																																				
	<p>Type2 (tt=03)</p> <p>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</p>	-	-					O					X																																																																																																								

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



**System Exclusive Messages (XG)**

MIDI Event	Data Format	[MIDI]											
		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	<b>F0 43 1n 4C hh mm ll dd ... F7</b> 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 0ddddd dd = Data : : 11110111 F7 = End of Exclusive	0 (*1)				0 (*1)				0 (*1)			
XG Bulk Dump	<b>F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7</b> 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 0ddddd dd = Data : : 0ddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	0 (*1)				0 (*1)				0 (*1)			
XG Parameter Request	<b>F0 43 3n 4C hh mm ll F7</b> 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	-	-			0 (*1)				0 (*1)			
XG Dump Request	<b>F0 43 2n 4C hh mm ll F7</b> 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n=always 0 (when transmit), n=0-F (when receive) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm = Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-			0 (*1)				0 (*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 Event	Data Format	[MIDI]											
		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	<b>F0 43 73 01 02 F7</b> 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-	-			0							X
External Clock	<b>F0 43 73 01 03 F7</b> 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-			0							X
Organ Flutes data Bulk Dump	<b>F0 43 73 01 06 0B 00 00 01 06 0n [Bulk Data] sum F7</b> 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 - 06H 3rd [1 1/3'] 00 - 06H 4th [1 3/5'] 00 - 06H 5th [2'] 00 - 06H 6th [2 2/3'] 00 - 06H 7th [4'] 00 - 06H 8th [5 1/3'] 00 - 06H 9th [8'] 00 - 06H 10th [16'] 00 - 06H 11th [Attack 2'] 00 - 06H 12th [Attack 2 2/3'] 00 - 06H 13th [Attack 4'] 00 - 06H 14th Settings [Attack Length] 00 - 06H 15th [Response] 00 - 06H 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)	0 (Organ Flute)	X	0	0	X	X	0	●	X	X	0	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	<p><b>F0 43 73 01 51 00 00 02 05 A1 A2 A3 A4 dd F7</b></p> <p>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.</p> <p>Display address    Score display    Lyrics display                      A1                00H            00H                      A2                00H            00H                      A3                00H            01H                      A4                00H            00H</p>	X	X		X					X			
MIDI Master Tuning	<p><b>F0 43 1n 27 30 00 00 0m 0l cc F7</b></p> <p>11110000 F0 = Exclusive status                      01000011 43 = YAMAHA ID                      0001nnnn 1n = always 0 (when transmit), n=0 - F (when receive)                      00100111 27 = Model ID of TG100                      00110000 30 = Address High                      00000000 00 = Address Mid                      00000000 00 = Address Low                      0000mmmm 0m = Master Tune MSB                      00001111 0l = Master Tune LSB                      0ccccccc cc = don't care                      11110111 F7 = End of Exclusive</p>	O	O		O					X			
GuideON	<p><b>F0 43 73 01 1F 00 cc dd F7</b></p> <p>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</p> <p>0ddddddd dd = Mode                      00:Off, 01:Follow Lights, 02:Any Key, 03:Karao Key, 04:Vocal Cue Time                      06=Your Tempo                      11110111 F7 = End of Exclusive</p>	-	-		O					X			
Audio Song Control	<p><b>F0 43 73 01 50 19 00 0d dd F7</b></p> <p>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</p>	X	X		O				X	X	X	O	X

● : Transmitted via panel operations and keyboard/controller performances. ○ : 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))	<p><b>F0 43 73 01 11 0n 50 10 dd F7</b></p> <p>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</p>	X	O		O								●

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

# 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

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
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**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].
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**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 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.

**MIDI Implementation Chart / MIDI-Implementationsstabelle / MIDI Implementation Chart /  
 Prospetto di implementazione MIDI / MIDI Implementation-tabel / Schemat implementacji MIDI**

Yamaha [ Digital Workstation ]  
 Model Genos MIDI Implementation Chart

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 Version : 1.0

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

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