

# *CP5 / CP50*

## STAGE PIANO

### Data List

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# Performance List

## CP5 Performance List

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 1	001	CF Grand	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PopNewAge Kit: Standard 1	—	—		off	
PRE 1	002	S6 Grand	R1	S6 Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 60'sSwing Kit: Standard 1	—	—		off	
PRE 1	003	RockBright	R1	CF Grand	VCM EQ 501	Clean Amp	Stage2	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: WestCoast Kit: Standard 1	—	—		off	
PRE 1	004	S6 Calm	R1	S6 Grand	VCM EQ 501	Clean Amp	Rich Room	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 8Beat Kit: Room	—	—		off	
PRE 1	005	HonkyTonk	R1	CF Grand	VCM EQ 501	Clean Amp	Room1	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Dixieland Kit: Standard 2	—	—		off	
PRE 1	006	DanceGrand	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: TrancePop Kit: AnalogT9	—	—		off	
PRE 1	007	Rock Comp	R1	CF Grand	CLASSIC COMPRESSOR	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ContmpRock Kit: Standard 1	—	—		off	
PRE 1	008	Old School	R1	CF Grand	COMP DISTORTION	Clean Amp	Woody Room	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Bluegrass Kit: Jazz	—	—		off	
PRE 1	009	CF+DX EP	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	DX Legend	816Chorus	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PopNewAge Kit: Analog	—	—		off	
PRE 1	010	CF+Rd	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	75Rd 1	G CHORUS	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 8Beat Kit: Standard 1	—	—		off	
PRE 1	011	CF+Dyno	R1	Dyno	SPX CHORUS	Power Amp 78Rd II	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ContempBld Kit: Electronic	—	—		off	
PRE 1	012	CF+Strings	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Slow Str 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Chillout2 Kit: Standard 2	—	—		off	
PRE 1	013	S6+Strings	R1	S6 Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Slow Str 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PopNewAge Kit: Analog	—	—		off	

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 1	014	CF+BellPad	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Planet	2 MODULATOR	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: FmklySoul Kit: Analog	—	—		off	
PRE 1	015	CF+AnaPad	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Soft Pad 1	ENSEMBLE DETUNE	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PopNewAge Kit: Standard 1	—	—		off	
PRE 1	016	S6+Pad	R1	S6 Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Soft Pad 1	ENSEMBLE DETUNE	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ModernJazz Kit: Standard 2	—	—		off	
PRE 1	017	CF+Vox	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Choir 2	2 MODULATOR	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: CharBld Kit: Analog	—	—		off	
PRE 1	018	PhaseRd/CF	R1	CF Grand	MULTI BAND COMP	Clean Amp	Rich Plate	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	75Rd 1	MAX90	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: EPBallad Kit: Analog	—	—		off	
PRE 1	019	Strings/CF	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	SectionSt1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Slow&Easy Kit: Standard 2	—	—		off	
PRE 1	020	AcBass/CF	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Plate	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	AcousticBa	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PopWaltz Kit: Brush	—	—		on	
PRE 1	021	ABa/CF+Str	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	on
			R2	Strings 2	VCM EQ 501	Clean Amp		—	
			L1	AcousticBa	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ClsChpHop Kit: Break	—	—		off	
PRE 1	022	Ba/CF+Str	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	on
			R2	Strings 2	VCM EQ 501	Clean Amp		—	
			L1	Fretless 2	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Chillout1 Kit: Standard 2	—	—		on	
PRE 1	023	Ba/CF+Pad	R1	CF Grand	VCM EQ 501	Clean Amp	Rich Hall	—	on
			R2	Soft Pad 1	SPX CHORUS	Clean Amp		—	
			L1	FingerBa 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PowerRock1 Kit: Rock	—	—		on	
PRE 1	024	CP 80	R1	CP80	816Chorus	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: RockBld2 Kit: Standard 1	—	—		off	
PRE 1	025	CP80Chorus	R1	CP80	D Chorus	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: RockBld2 Kit: Electronic	—	—		off	
PRE 1	026	CP80 Trem	R1	CP80	TREMOLO	Clean Amp	Room1	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PowerRock1 Kit: Rock	—	—		off	

CP5 Performance List

Table with columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows include PRE 1 027 Rain CP80, PRE 1 028 CP80+DX EP, PRE 1 029 CP+Dyno, PRE 1 030 Rock CP, PRE 1 031 DXLegend 1, PRE 1 032 FullTime, PRE 1 033 DX Woody, PRE 1 034 FM Mellow, PRE 1 035 DX7IIChrus, PRE 1 036 DXLegend 2, PRE 1 037 DX+DigiBel, PRE 1 038 DX+AnaPad, PRE 1 039 Ballad DX.

Table with columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows include PRE 1 040 80s Pop, PRE 2 001 71Rd Trem, PRE 2 002 71RdDriven, PRE 2 003 73Rd, PRE 2 004 73RdPhaser, PRE 2 005 Simple RII, PRE 2 006 Driven RII, PRE 2 007 Fast Phase, PRE 2 008 RII Chorus, PRE 2 009 78Rd, PRE 2 010 78RdChorus, PRE 2 011 Dyno.

CP5 Performance List

Table with 10 columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows include PRE 2 012 DynoChorus, PRE 2 013 Dyno+DX, PRE 2 014 Rds+AnaPad, PRE 2 015 Dyno+Str, PRE 2 016 Jazz Jam, PRE 2 017 ABa/73+Str, PRE 2 018 Jam Groove, PRE 2 019 Samba Rds, PRE 2 020 Ba/Dyno+Pd, PRE 2 021 Wurli77, PRE 2 022 RoundWurli, PRE 2 023 Wurli Dist.

Table with 10 columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows include PRE 2 024 Busted6X9, PRE 2 025 BossaWurli, PRE 2 026 N Wurli, PRE 2 027 BrightClav, PRE 2 028 ClaviNasty, PRE 2 029 Wah Clavi, PRE 2 030 ClavWahFC2, PRE 2 031 ClavPhaser, PRE 2 032 ClavFlange, PRE 2 033 Clavi Mute, PRE 2 034 FunkyClavi, PRE 2 035 Harpsichrd, PRE 2 036 HipHarpsi.

CP5 Performance List

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 2	037	Jazz Fast	R1	Perc.Organ	ROTARY SPEAKER	Clean Amp	Rich Room	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ModernJazz Kit: Jazz	—	—		off	
PRE 2	038	Vib Slow	R1	JazzOrgan	ROTARY SPEAKER	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: EasyPop Kit: Standard 1	—	—		off	
PRE 2	039	Vintage C	R1	Vintage C	ROTARY SPEAKER	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: AcousticRk Kit: Standard 1	—	—		off	
PRE 2	040	Soft Perc	R1	70sPercOrg	ROTARY SPEAKER	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: SoulBeat Kit: Room	—	—		off	
PRE 3	001	Fat B	R1	Soft Organ	ROTARY SPEAKER	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Gospel2 Kit: Standard 1	—	—		off	
PRE 3	002	Rotary B	R1	RotaryOrg	TREMOLO	Clean Amp	Rich Room	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: SoulShuffle Kit: Standard 1	—	—		off	
PRE 3	003	ChurchDrbr	R1	EvenBarOrg	ROTARY SPEAKER	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: RockBld2 Kit: Standard 1	—	—		off	
PRE 3	004	OrComp/Dst	R1	JazzOrgan	AMP SIMULATOR 1	Clean Amp	Rich Room	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Soft Organ	AMP SIMULATOR 1	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: RockBld1 Kit: Rock	—	—		off	
PRE 3	005	Latin B	R1	Perc.Organ	ROTARY SPEAKER	Clean Amp	Room1	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	FingerBa 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: CaribRock Kit: Standard 1	—	—		on	
PRE 3	006	PrgRokOrgn	R1	Rock Perc	ROTARY SPEAKER	Clean Amp	Rich Hall	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	PickBa 0	LO-FI	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: BritPopSwg Kit: Rock	—	—		on	
PRE 3	007	Transistor	R1	1967 Keys	TREMOLO	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Dixieland Kit: Standard 1	—	—		off	
PRE 3	008	Compact	R1	Compact	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 70'sBl1 Kit: Standard 1	—	—		off	

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 3	009	PetitOrg	R1	Petit	ROTARY SPEAKER	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: CaribRock Kit: Standard 1	—	—		off	
PRE 3	010	BigChurch	R1	ChurchOrg1	G CHORUS	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	EvenBarOrg	G CHORUS	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 70'sDisco Kit: Analog	—	—		off	
PRE 3	011	Nylon	R1	Nylon Gt 1	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: BritPop Kit: Brush	—	—		off	
PRE 3	012	Steel6	R1	Steel Gt 1	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Country8Bt Kit: Standard 1	—	—		off	
PRE 3	013	Steel12	R1	Steel Gt 1	ENSEMBLE DETUNE	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Steel Gt 1	ENSEMBLE DETUNE	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Unplugged2 Kit: Standard 1	—	—		off	
PRE 3	014	GuitarBck	R1	Clean Gt 1	SPX CHORUS	Clean Amp	Room1	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Steel Gt 1	HARMONIC ENHANCER	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 8Beat Kit: Rock	—	—		off	
PRE 3	015	RockLdGtr	R1	Dist Gt 1	COMP DISTORTION DELAY	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Dist Gt 2	COMP DISTORTION DELAY	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 8Beat Kit: Rock	—	—		off	
PRE 3	016	Vibes	R1	Vibraphone	TREMOLO	Clean Amp	Rich Room	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	HardVibes	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PianoJazz Kit: Brush	—	—		off	
PRE 3	017	Jazz Vibes	R1	HardVibes	TREMOLO	Clean Amp	Rich Room	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	AcousticBa	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: PianoJazz Kit: Brush	—	—		on	
PRE 3	018	MarimbaJoy	R1	Marimba 1	VCM EQ 501	Clean Amp	Rich Room	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	FlangeBa 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: AfroCuban Kit: Hit	—	—		on	
PRE 3	019	ChurchBell	R1	Glocken	EARLY REFLECTION	Clean Amp	Rich Hall	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Carillon	PITCH CHANGE	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Reggae Kit: AnalogT9	—	—		off	
PRE 3	020	SVCelesta	R1	Celesta	VCM EQ 501	Clean Amp	Rich Hall	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Strings 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 16BeatPop Kit: Hip Hop	—	—		off	

CP5 Performance List

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 3	021	Kosmos	R1	VP Soft	ENSEMBLE DETUNE	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Chillout2 Kit: Analog	—	—		off	
PRE 3	022	DarkNight	R1	Darklight	AUTO PAN	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	GlassPad	TEMPO FLANGER	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Chillout1 Kit: Analog	—	—		off	
PRE 3	023	Ether	R1	SlwAtTrem	EARLY REFLECTION	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Amb Pad	EARLY REFLECTION	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ContempBld Kit: Standard 1	—	—		off	
PRE 3	024	AnaGroovey	R1	Analog Str	MAX90	Clean Amp	Rich Plate	—	on
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	BobbyBass	CLASSIC COMPRESSOR	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 70'sDisco Kit: Analog	—	—		on	
PRE 3	025	Choirs	R1	Choir Aah	VCM EQ 501	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Itopia	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 6-8SlowRk Kit: Standard 2	—	—		off	
PRE 3	026	Choir+Str	R1	Choir 2	ENSEMBLE DETUNE	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Orchestra2	ENSEMBLE DETUNE	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 70'sBld2 Kit: Analog	—	—		off	
PRE 3	027	Strings1	R1	Sweet Vn	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Slow Str 1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 12-8Ballad Kit: Standard 2	—	—		off	
PRE 3	028	Strings2	R1	Strings 2	G CHORUS	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Quartet	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: CoolJzBld Kit: Brush	—	—		off	
PRE 3	029	Strings+Vn	R1	Sweet Vn	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Orchestra1	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ModernR&B Kit: Break	—	—		off	
PRE 3	030	AnaStrings	R1	Syn Str 3	Symphonic	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Orchestra1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: NewR&B Kit: Hip Hop	—	—		off	
PRE 3	031	Harp	R1	Harp	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	CF Grand	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: FastBossa Kit: Standard 2	—	—		off	
PRE 3	032	BrassSect1	R1	BrassSect1	VCM EQ 501	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Tb Section	TEMPO DELAY STEREO	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: ModernR&B Kit: AnalogT9	—	—		off	
PRE 3	033	BrassSect2	R1	BrassSect2	VCM EQ 501	Clean Amp	Stage1	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Tb Section	Small Phaser	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Chillout1 Kit: Hit	—	—		off	

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 3	034	Brass+Sax	R1	BrassSect3	VCM EQ 501	Clean Amp	Room1	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	BrassSect1	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Rock&Roll Kit: Dance	—	—		off	
PRE 3	035	Polybrass	R1	FaatDance	G CHORUS	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	OberBrass3	DELAY LCR	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 8Beat Kit: Rock	—	—		off	
PRE 3	036	AnalogHorn	R1	OberBrass1	TEMPO DELAY STEREO	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	OberBrass2	816Chorus	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: RockShuffle Kit: Standard 1	—	—		off	
PRE 3	037	Horn Orch	R1	Orchestra1	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	FrenchHorn	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: RockBld2 Kit: Hip Hop	—	—		off	
PRE 3	038	Brass Orch	R1	Horn+Str 1	VCM EQ 501	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Trumpet	ENSEMBLE DETUNE	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: AcousticJz Kit: Brush	—	—		off	
PRE 3	039	Bell Orch	R1	Horn+Str 1	VCM EQ 501	Clean Amp	Rich Plate	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Glocken	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: Unplugged1 Kit: Standard 2	—	—		off	
PRE 3	040	Woodwinds	R1	Flute 1	Small Phaser	Clean Amp	Rich Hall	—	off
			R2	CF Grand	Small Phaser	Clean Amp		—	
			L1	Bassoon	VCM EQ 501	Clean Amp		—	
			L2	CF Grand	Small Phaser	Clean Amp		—	
			TRACK	Phrase: 70'sBld2 Kit: Standard 2	—	—		off	

☐ : Parts turned off by default.

CP50 Performance List

Table with 10 columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows 1-100.

Table with 10 columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows 101-200.

CP50 Performance List

Table with columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows include PRE 2 001 to PRE 2 020.

Table with columns: Bank, No., Performance Name, Part, Voice/Drum pattern, Modulation Effect, Power Amp, Reverb, Auto Key On Start (all key), Split. Rows include PRE 2 021 to PRE 2 040.



CP50 Performance List

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 3	001	Fat B	R	Soft Organ	ROTARY SPEAKER	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: Gospel2 Kit: Standard 1	—	—		off	
PRE 3	002	Rotary B	R	RotaryOrg	TREMOLO	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Room	—	
			TRACK	Phrase: SoulShuffle Kit: Standard 1	—	—		off	
PRE 3	003	ChurchDrbr	R	EvenBarOrg	ROTARY SPEAKER	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: RockBld2 Kit: Standard 1	—	—		off	
PRE 3	004	OrComp/Dst	R	JazzOrgan	AMP SIMULATOR 1	Clean Amp		—	on
			L	Soft Organ	AMP SIMULATOR 1	Clean Amp	Rich Room	—	
			TRACK	Phrase: RockBld1 Kit: Rock	—	—		off	
PRE 3	005	Latin B	R	Perc.Organ	ROTARY SPEAKER	Clean Amp		—	on
			L	FingerBa 1	VCM EQ 501	Clean Amp	Room1	—	
			TRACK	Phrase: CaribRock Kit: Standard 1	—	—		on	
PRE 3	006	PrgRokOrgn	R	Rock Perc	ROTARY SPEAKER	Clean Amp		—	on
			L	PickBa 0	LO-FI	Clean Amp	Rich Hall	—	
			TRACK	Phrase: BritPopSwg Kit: Rock	—	—		on	
PRE 3	007	Transistor	R	1967 Keys	TREMOLO	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Plate	—	
			TRACK	Phrase: Dixieland Kit: Standard 1	—	—		off	
PRE 3	008	Compact	R	Compact	VCM EQ 501	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: 70'sBld1 Kit: Standard 1	—	—		off	
PRE 3	009	PetitOrg	R	Petit	ROTARY SPEAKER	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Plate	—	
			TRACK	Phrase: CaribRock Kit: Standard 1	—	—		off	
PRE 3	010	BigChurch	R	ChurchOrg1	G CHORUS	Clean Amp		—	off
			L	EvenBarOrg	G CHORUS	Clean Amp	Rich Hall	—	
			TRACK	Phrase: 70'sDisco Kit: Analog	—	—		off	
PRE 3	011	Nylon	R	Nylon Gt 1	VCM EQ 501	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: BritPop Kit: Brush	—	—		off	
PRE 3	012	Steel6	R	Steel Gt 1	VCM EQ 501	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: Country8Bt Kit: Standard 1	—	—		off	
PRE 3	013	Steel12	R	Steel Gt 1	ENSEMBLE DETUNE	Clean Amp		—	off
			L	Steel Gt 1	ENSEMBLE DETUNE	Clean Amp	Rich Hall	—	
			TRACK	Phrase: Unplugged2 Kit: Standard 1	—	—		off	
PRE 3	014	GuitarBack	R	Clean Gt 1	SPX CHORUS	Clean Amp		—	off
			L	Steel Gt 1	HARMONIC ENHANCER	Clean Amp	Room1	—	
			TRACK	Phrase: 8Beat Kit: Rock	—	—		off	
PRE 3	015	RockLdGtr	R	Dist Gt 1	COMP DISTORTION DELAY	Clean Amp		—	off
			L	Dist Gt 2	COMP DISTORTION DELAY	Clean Amp	Rich Hall	—	
			TRACK	Phrase: 8Beat Kit: Rock	—	—		off	
PRE 3	016	Vibes	R	Vibraphone	TREMOLO	Clean Amp		—	off
			L	HardVibes	VCM EQ 501	Clean Amp	Rich Room	—	
			TRACK	Phrase: PianoJazz Kit: Brush	—	—		off	
PRE 3	017	Jazz Vibes	R	HardVibes	TREMOLO	Clean Amp		—	on
			L	AcousticBa	VCM EQ 501	Clean Amp	Rich Room	—	
			TRACK	Phrase: PianoJazz Kit: Brush	—	—		on	
PRE 3	018	MarimbaJoy	R	Marimba 1	VCM EQ 501	Clean Amp		—	on
			L	FlangeBa 1	VCM EQ 501	Clean Amp	Rich Room	—	
			TRACK	Phrase: AfroCuban Kit: Hit	—	—		on	

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 3	019	ChurchBell	R	Glocken	EARLY REFLECTION	Clean Amp		—	on
			L	Carillon	PITCH CHANGE	Clean Amp	Rich Hall	—	
			TRACK	Phrase: Reggae Kit: AnalogT9	—	—		off	
PRE 3	020	St/Celesta	R	Celesta	VCM EQ 501	Clean Amp		—	on
			L	Strings 1	VCM EQ 501	Clean Amp	Rich Hall	—	
			TRACK	Phrase: 16BeatPop Kit: Hip Hop	—	—		off	
PRE 3	021	Kosmos	R	VP Soft	ENSEMBLE DETUNE	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: Chillout2 Kit: Analog	—	—		off	
PRE 3	022	DarkNight	R	Darklight	AUTO PAN	Clean Amp		—	off
			L	GlassPad	TEMPO FLANGER	Clean Amp	Rich Plate	—	
			TRACK	Phrase: Chillout1 Kit: Analog	—	—		off	
PRE 3	023	Ether	R	SlwAtTrem	EARLY REFLECTION	Clean Amp		—	off
			L	Amb Pad	EARLY REFLECTION	Clean Amp	Rich Hall	—	
			TRACK	Phrase: ContempBld Kit: Standard 1	—	—		off	
PRE 3	024	AnaGroovey	R	Analog Str	MAX90	Clean Amp		—	on
			L	BobbyBass	CLASSIC COMPRESSOR	Clean Amp	Rich Plate	—	
			TRACK	Phrase: 70'sDisco Kit: Analog	—	—		on	
PRE 3	025	Choirs	R	Choir Aah	VCM EQ 501	Clean Amp		—	off
			L	Itopia	VCM EQ 501	Clean Amp	Rich Plate	—	
			TRACK	Phrase: 6-8SlowRk Kit: Standard 2	—	—		off	
PRE 3	026	Choir+Str	R	Choir 2	ENSEMBLE DETUNE	Clean Amp		—	off
			L	Orchestra2	ENSEMBLE DETUNE	Clean Amp	Rich Plate	—	
			TRACK	Phrase: 70'sBld2 Kit: Analog	—	—		off	
PRE 3	027	Strings1	R	Sweet Vn	VCM EQ 501	Clean Amp		—	off
			L	Slow Str 1	VCM EQ 501	Clean Amp	Rich Hall	—	
			TRACK	Phrase: 12-8Ballad Kit: Standard 2	—	—		off	
PRE 3	028	Strings2	R	Strings 2	G CHORUS	Clean Amp		—	off
			L	Quartet	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: CoolJzBld Kit: Brush	—	—		off	
PRE 3	029	Strings+Vn	R	Sweet Vn	VCM EQ 501	Clean Amp		—	off
			L	Orchestra1	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: ModernR&B Kit: Break	—	—		off	
PRE 3	030	AnaStrings	R	Syn Str 3	Symphonic	Clean Amp		—	off
			L	Orchestra1	VCM EQ 501	Clean Amp	Rich Hall	—	
			TRACK	Phrase: NewR&B Kit: Hip Hop	—	—		off	
PRE 3	031	Harp	R	Harp	VCM EQ 501	Clean Amp		—	off
			L	CF Grand	Small Phaser	Clean Amp	Rich Hall	—	
			TRACK	Phrase: FastBossa Kit: Standard 2	—	—		off	
PRE 3	032	BrassSect1	R	BrassSect1	VCM EQ 501	Clean Amp		—	off
			L	Tb Section	TEMPO DELAY STEREO	Clean Amp	Rich Plate	—	
			TRACK	Phrase: ModernR&B Kit: AnalogT9	—	—		off	
PRE 3	033	BrassSect2	R	BrassSect2	VCM EQ 501	Clean Amp		—	off
			L	Tb Section	Small Phaser	Clean Amp	Stage1	—	
			TRACK	Phrase: Chillout1 Kit: Hit	—	—		off	
PRE 3	034	Brass+Sax	R	BrassSect3	VCM EQ 501	Clean Amp		—	off
			L	BrassSect1	VCM EQ 501	Clean Amp	Room1	—	
			TRACK	Phrase: Rock&Roll Kit: Dance	—	—		off	
PRE 3	035	Polybrass	R	FaatDance	G CHORUS	Clean Amp		—	off
			L	OberBrass3	DELAY LCR	Clean Amp	Rich Hall	—	
			TRACK	Phrase: 8Beat Kit: Rock	—	—		off	
PRE 3	036	AnalogHorn	R	OberBrass1	TEMPO DELAY STEREO	Clean Amp		—	off
			L	OberBrass2	816Chorus	Clean Amp	Rich Hall	—	
			TRACK	Phrase: RockShuffle Kit: Standard 1	—	—		off	
PRE 3	037	Horn Orch	R	Orchestra1	VCM EQ 501	Clean Amp		—	off
			L	FrenchHorn	VCM EQ 501	Clean Amp	Rich Hall	—	
			TRACK	Phrase: RockBld2 Kit: Hip Hop	—	—		off	

CP50 Performance List

Bank	No.	Performance Name	Part	Voice/Drum pattern	Modulation Effect	Power Amp	Reverb	Auto Key On Start (all key)	Split
PRE 3	038	Brass Orch	R	Horn+Str 1	VCM EQ 501	Clean Amp	Rich Hall	—	off
			L	Trumpet	ENSEMBLE DETUNE	Clean Amp		—	
			TRACK	Phrase: AcousticJz Kit: Brush	—	—		off	
PRE 3	039	Bell Orch	R	Horn+Str 1	VCM EQ 501	Clean Amp	Rich Plate	—	off
			L	Glocken	VCM EQ 501	Clean Amp		—	
			TRACK	Phrase: Unplugged1 Kit: Standard 2	—	—		off	
PRE 3	040	Woodwinds	R	Flute 1	Small Phaser	Clean Amp	Rich Hall	—	off
			L	Bassoon	VCM EQ 501	Clean Amp		—	
			TRACK	Phrase: 70'sBlid2 Kit: Standard 2	—	—		off	

: Parts turned off by default.

# Voice List

## CP5 Voice List

Category	Voice No.	Voice Name
Piano	1	CF Grand
	2	S6 Grand
E.Piano	1	CP80
	2	CP88
	3	71Rd I
	4	73Rd I
	5	75Rd I
	6	78Rd II
	7	Dyno
	8	69Wr
	9	77Wr
	10	DX Legend
	11	DX Woody
	12	DX FTine
	13	DX 7 II
	14	DX Mellow
	15	DX Crisp
Keyboard	1	Clavi
	2	Clavi ST
	3	Clavi Mt
	4	Harpsi 1
	5	Harpsi 2
	6	RockRotar2
	7	Full CV
	8	Rotary Vel
	9	Progressiv
	10	RockOrgan1
	11	DrawOrg 2
	12	60sOrgan 3
	13	LightOrgan
	14	RockOrgan2
	15	60sOrgan 4
	16	RotaryOrg
	17	FastRotarC
	18	RockRotar1
	19	DetPercOrg
	20	DrawOrg 1
	21	Perc.Organ
	22	Vintage C
	23	Rock Perc
	24	EvenBarOrg
	25	Soft Organ
	26	JazzOrgan
	27	Petit
	28	70sPercOrg
	29	60sOrgan 1
	30	60sOrgan 2
	31	1967 Keys
	32	Compact
	33	Panther
	34	Saw Combo
	35	PipeOrganT
	36	ChurchOrg2
	37	PipeOrgan4
	38	Bandoneon
	39	ChurchOrg1
	40	PipeOrgan1
	41	PipeOrgan2
	42	PipeOrgan3
	43	Puff Organ
	44	Trem.Organ
	45	Musette
	46	Tango
	47	Celesta
	48	Orgel

Category	Voice No.	Voice Name
Guitar	1	Nylon Gt 1
	2	Nylon+Harm
	3	Steel Gt 1
	4	12StrGt 1
	5	12StrGt 2
	6	Clean Gt 1
	7	60's Clean
	8	FunkGuitar
	9	Clean Gt 3
	10	12StrClean
	11	Dist Gt 1
	12	OverTheTop
	13	Crunch Gt
	14	Crunch Oct
	15	Mute Dist
	16	JazzGuitar
	17	Nylon Gt 2
	18	Steel Gt 2
	19	Clean Gt 2
	20	Dist Gt 2
	21	HawaiianGt
	22	Banjo
	23	Mandolin
	24	DigiBell 3
	25	Bell Harp
	26	TubularBel
	27	SftCrystal
	28	RoundGlock
	29	Marimba 2
	30	Vib ST
	31	Dulcimer
	32	SteelDrums
	33	Agogo
	34	Glocken
	35	AirBells
	36	DigiBell 1
	37	Star Dust
	38	DigiBell 2
	39	Carillon
	40	Vibraphone
	41	HardVibes
	42	Marimba 1
	43	Balimba
	44	MusicBox
	45	Xylophone
	46	Kalimba
	47	Kanoon
	48	Shamisen
	49	Sitar
Bass	1	AcousticBa
	2	FingerBa 2
	3	FingerBa 1
	4	FlangeBa 1
	5	FlangeBa 2
	6	PickBa OM
	7	PickBa M
	8	PickBa O
	9	Slap Bass
	10	Fretless 1
	11	Fretless 2
	12	SynthBass5
	13	Big Bass
	14	101 Bass
	15	Competitor
	16	PercPunch

Category	Voice No.	Voice Name
Bass	17	SynthBass6
	18	TranceBass
	19	Dark Bass
	20	ClickSynBa
	21	SynthBass1
	22	SynthBass2
	23	SynthBass3
	24	AcidBass
	25	SynthBass4
	26	SquareBass
	27	Long Spit
	28	FundamentI
	29	One Voice
	30	Fat Sine
	31	FatSineRes
	32	BobbyBass
Pads/Choirs	1	NeoCrystal
	2	Bell Pad 2
	3	SharpTeeth
	4	Ring Pad
	5	Analog Pad
	6	LFO Pad
	7	Chill Scap
	8	Str Pad
	9	Back Pad
	10	Planet
	11	Atmosphere
	12	Click Pad
	13	Harp Vox
	14	Pad 80
	15	Poly Pad
	16	Glass Harp
	17	Bell Pad 1
	18	Digi Stuff
	19	NewAgePad
	20	Darklight
	21	Vapor
	22	Soft Pad 1
	23	VP Soft
	24	GlassPad
	25	Soft Pad 2
	26	SinePad
	27	Echoes
	28	Amb Pad
	29	Pan Pad
	30	Sci-Fi
	31	Big Pan
	32	Goblins
	33	SweepPad 1
	34	GoblinsSyn
	35	Celestial
	36	Converge
	37	Creation
38	SweepPad 2	
39	Da Pad	
40	Ancestral	
41	Soundtrack	
42	Echo Pad	
43	Rain	
44	Dark Star	
45	Mind Bell	
46	Choir 1	
47	Air Choir	
48	Choir Aah	
49	Choir 2	

CP5 Voice List

Category	Voice No.	Voice Name
Pads/Choirs	50	VoiceOohs1
	51	ltopia
	52	Choir 3
	53	Slow Vox
	54	Slow Choir
	55	VoiceOohs2
	56	Twist
	57	ZEN
Strings	1	Velo Str
	2	SectionSt4
	3	Warm Str
	4	Flute+Str
	5	TremOrchst
	6	Trem+Horn
	7	70's Str 2
	8	SectionSt1
	9	SectionSt2
	10	Orchestra1
	11	SectionSt3
	12	ArcoString
	13	Strings 1
	14	Strings 2
	15	Orchestra2
	16	Strings 3
	17	Orchestra3
	18	Slow Str 1
	19	Legato Str
	20	Slow Str 2
	21	SlwAtTrem
	22	Trem Str
	23	Pizzicato
	24	Quartet
	25	Sweet Vn
	26	Harp
	27	Light Pad
	28	Slow Str 3
	29	Syn Str 1
	30	Analog Str
	31	Syn Str 2
	32	Syn Str 3
	33	60's Str
	34	70's Str 1
	35	Tron Str
Synth	1	DancyHook
	2	FaaatDance
	3	TechnoBrss
	4	After 1984
	5	AnalogLd 3
	6	Saw Lead 3
	7	Wire Lead
	8	Big Lead 2
	9	AnalogLd 4
	10	Early Lead
	11	Trojan
	12	Punch Lead
	13	Soft RnB
	14	Popcorn
	15	Impact
	16	Synth Tp
	17	AnalogLd 1
	18	Big Lead 1
	19	DynmicMini
	20	Crying
	21	Saw Lead 1
	22	Digital Ld

Category	Voice No.	Voice Name	
Synth	23	Mini Three	
	24	Sky Walk	
	25	AnalogLd 2	
	26	Saw Lead 2	
	27	Mini Soft	
	28	Inda Night	
	29	Orbit Sine	
	30	Tiny Lead	
	31	Syn Whistl	
	32	RapLead	
	33	FunkLead 1	
	34	RezzPunch	
	35	FunkLead 2	
	36	SquareLd 1	
	37	SquareLd 2	
	38	Voice Lead	
	39	Wind Lead	
	40	CalliopeLd	
	Brass	1	BrassSect4
		2	SaxSection
		3	High Brass
		4	5th Horns
		5	Horn+Str 2
		6	Sweet Tp
		7	Tp&TbSect
		8	Sfz Brass
		9	BrassSect1
		10	BrassSect2
		11	BrassSect3
		12	MellowBr 1
		13	MellowBr 2
		14	Soft Brass
		15	FrenchHorn
		16	Horn+Str 1
		17	Brass+Str
		18	Trumpet
		19	Tb Section
		20	SoftSynBr1
		21	SoftSynBr2
		22	SynthBrass
23		Big Squish	
24		AnalogBrss	
25		OberBrass1	
26		OberBrass2	
27		OberBrass3	
28		Funky Poly	
29		ChoirBrass	
Woodwind	1	Sweet Alto	
	2	Flute 2	
	3	Bottle	
	4	Alto Sax	
	5	Tenor Sax	
	6	Flute 1	
	7	Recorder	
	8	Clarinet	
	9	Oboe	
	10	Bassoon	
	11	Harmonica	
	12	Ocarina	
	13	PanFlute	
	14	Shakuhachi	
	15	Bagpipe	

CP50 Voice List

Category	Voice No.	Voice Name
Piano	1	CF Grand
E.Piano	1	CP80
	2	CP88
	3	75Rd I
	4	69Wr
	5	77Wr
	6	DX Legend
	7	DX Woody
	8	DX FTine
	9	DX 7 II
	10	DX Mellow
	11	DX Crisp
Keyboard	1	Clavi
	2	Clavi ST
	3	Clavi Mt
	4	Harpsi 1
	5	Harpsi 2
	6	RotaryOrg
	7	FastRotarC
	8	RockRotar1
	9	DetPercOrg
	10	DrawOrg 1
	11	Perc.Organ
	12	Vintage C
	13	Rock Perc
	14	EvenBarOrg
	15	Soft Organ
	16	JazzOrgan
	17	Petit
	18	70sPercOrg
	19	60sOrgan 1
	20	60sOrgan 2
	21	1967 Keys
	22	Compact
	23	Panther
	24	Saw Combo
	25	ChurchOrg1
	26	PipeOrgan1
	27	PipeOrgan2
	28	PipeOrgan3
	29	Puff Organ
	30	Trem.Organ
	31	Musette
	32	Tango
	33	Celesta
	34	Orgel
Guitar	1	Nylon Gt 1
	2	Steel Gt 1
	3	Clean Gt 1
	4	60's Clean
	5	Dist Gt 1
	6	Nylon Gt 2
	7	Steel Gt 2
	8	Clean Gt 2
	9	Dist Gt 2
	10	Glocken
	11	AirBells
	12	DigiBell 1
	13	Star Dust
	14	DigiBell 2
	15	Carillon
	16	Vibraphone
	17	HardVibes
	18	Marimba 1
	19	Balimba

Category	Voice No.	Voice Name
Guitar	20	MusicBox
	21	Xylophone
	22	Kalimba
	23	Kanoon
	24	Shamisen
	25	Sitar
Bass	1	AcousticBa
	2	FingerBa 1
	3	FlangeBa 1
	4	FlangeBa 2
	5	PickBa OM
	6	PickBa M
	7	PickBa O
	8	Slap Bass
	9	Fretless 1
	10	Fretless 2
	11	ClickSynBa
	12	SynthBass1
	13	SynthBass2
	14	SynthBass3
	15	AcidBass
	16	SynthBass4
	17	SquareBass
	18	Long Spit
	19	Fundamentl
	20	One Voice
	21	Fat Sine
	22	FatSineRes
	23	BobbyBass
Pads/Choirs	1	Str Pad
	2	Back Pad
	3	Planet
	4	Atmosphere
	5	Click Pad
	6	Harp Vox
	7	Pad 80
	8	Poly Pad
	9	Glass Harp
	10	Bell Pad 1
	11	Digi Stuff
	12	NewAgePad
	13	Darklight
	14	Vapor
	15	Soft Pad 1
	16	VP Soft
	17	GlassPad
	18	Soft Pad 2
	19	SinePad
	20	Echoes
	21	Amb Pad
	22	Pan Pad
	23	Sci-Fi
	24	Big Pan
	25	Goblins
	26	SweepPad 1
	27	GoblinsSyn
	28	Celestial
	29	Converge
	30	Creation
	31	SweepPad 2
	32	Da Pad
	33	Ancestral
	34	Soundtrack
	35	Echo Pad
	36	Rain

Category	Voice No.	Voice Name	
Pads/Choirs	37	Dark Star	
	38	Mind Bell	
	39	Choir 1	
	40	Air Choir	
	41	Choir Aah	
	42	Choir 2	
	43	VoiceOohs1	
	44	ltopia	
	45	Twist	
	46	ZEN	
	Strings	1	SectionSt1
2		SectionSt2	
3		Orchestra1	
4		SectionSt3	
5		ArcoString	
6		Strings 1	
7		Strings 2	
8		Orchestra2	
9		Strings 3	
10		Orchestra3	
11		Slow Str 1	
12		Legato Str	
13		Slow Str 2	
14		SlwATrem	
15		Trem Str	
16		Pizzicato	
17		Quartet	
18		Sweet Vn	
19		Harp	
20		Syn Str 1	
21		Analog Str	
22		Syn Str 2	
23		Syn Str 3	
24		60's Str	
25		70's Str 1	
26		Tron Str	
Synth		1	DancyHook
		2	FaaatDance
		3	TechnoBrss
	4	After 1984	
	5	Synth Tp	
	6	AnalogLd 1	
	7	Big Lead 1	
	8	DynmicMini	
	9	Crying	
	10	Saw Lead 1	
	11	Digital Ld	
	12	Mini Three	
	13	Sky Walk	
	14	AnalogLd 2	
	15	Saw Lead 2	
	16	Mini Soft	
	17	Inda Night	
	18	Orbit Sine	
	19	Tiny Lead	
	20	Syn Whistl	
	21	Raplead	
	22	FunkLead 1	
	23	RezzPunch	
	24	FunkLead 2	
	25	SquareLd 1	
	26	SquareLd 2	
	27	Voice Lead	
	28	Wind Lead	
	29	CalliopeLd	

## CP50 Voice List

Category	Voice No.	Voice Name
Brass	1	BrassSect1
	2	BrassSect2
	3	BrassSect3
	4	Sfz Brass
	5	MellowBr 1
	6	MellowBr 2
	7	Soft Brass
	8	FrenchHorn
	9	Horn+Str 1
	10	Brass+Str
	11	Trumpet
	12	Tb Section
	13	SynthBrass
	14	Big Squish
	15	AnalogBrss
	16	OberBrass1
	17	OberBrass2
	18	OberBrass3
	19	Funky Poly
	20	ChoirBrass
Woodwind	1	Alto Sax
	2	Tenor Sax
	3	Flute 1
	4	Recorder
	5	Clarinet
	6	Oboe
	7	Bassoon
	8	Harmonica
	9	Ocarina
	10	PanFlute
	11	Shakuhachi
	12	Bagpipe

# Preset Drum Phrase List

Category	Phrase No.	Phrase Name	Time Signature	Original Tempo	Suitable Kit
Rock/Pop	1	8Beat	4/4	97	Room
	2	EasyPop	4/4	110	Standard 1
	3	ContmpRock	4/4	126	Standard 1
	4	AcousticRk	4/4	90	Rock
	5	FunkPpRock	4/4	95	Standard 2
	6	PowerRock1	4/4	121	Standard 1
	7	PowerRock2	4/4	112	Standard 2
	8	BritPop	4/4	86	Brush
	9	BritPopSwg	4/4	110	Standard 2
	10	UKSoulPop	4/4	96	Hip Hop
	11	8BitModern	4/4	92	Dance
	12	CaribRock	4/4	138	Standard 1
	13	WestCoast	4/4	100	Standard 2
	14	Clsc16Beat	4/4	99	Standard 1
	15	KoolShuffle	4/4	100	Standard 1
	16	PopShuffle	4/4	90	Hip Hop
	17	ScandPpShf	4/4	146	Standard 2
	18	RockShuffle	4/4	121	Standard 2
	19	60'sSwing	4/4	124	Standard 2
	20	60'sPnoPop	4/4	116	Standard 1
	21	VintagePop	4/4	132	Jazz
	22	BubbglmPop	4/4	128	Standard 2
Ballad	23	Unplugged1	4/4	120	Standard 1
	24	Unplugged2	4/4	120	Standard 1
	25	8BeatBld1	4/4	84	Standard 1
	26	8BeatBld2	4/4	100	Brush
	27	RockBld1	4/4	61	Rock
	28	RockBld2	4/4	72	Standard 2
	29	70'sBld1	4/4	69	Standard 1
	30	70'sBld2	4/4	72	Standard 1
	31	EPBallad	4/4	60	Standard 2
	32	16BeatBld1	4/4	60	Standard 2
	33	16BeatBld2	4/4	70	Standard 1
	34	CoolBallad	4/4	80	Standard 1
	35	ContempBld	4/4	77	Analog
	36	16BeatPop	4/4	80	Standard 1
	37	Slow&Easy	4/4	72	Dance
	38	Chillout1	4/4	79	Standard 2
	39	Chillout2	4/4	88	Hit
	40	Chillout3	4/4	80	Break
	41	6-8SlowRk	4/4	73	Standard 1
	42	6-8Modern	4/4	64	Standard 1
	43	12-8Ballad	4/4	72	Standard 1
	44	PopWaltz	3/4	94	Standard 1
	45	AnalogBld	4/4	76	Analog
	46	PopNewAge	4/4	66	Standard 2
	47	MdmPopBld	4/4	60	Break
R&B/HipHop	48	SoulR&B	4/4	54	Hip Hop
	49	SmoothBld	4/4	87	Standard 1
	50	R&BSoulBld	4/4	85	Dance

Category	Phrase No.	Phrase Name	Time Signature	Original Tempo	Suitable Kit
R&B/HipHop	51	ChartBld	4/4	61	Analog
	52	NewR&B Bld	4/4	76	Break
	53	NewR&B	4/4	97	Hip Hop
	54	ModernR&B	4/4	98	Analog
	55	ClscHipHop	4/4	93	Dance
	56	NewHipHop	4/4	85	Hip Hop
	57	EuroHipHop	4/4	94	Break
	58	USHipHop	4/4	104	Hip Hop
Dance	59	House	4/4	125	AnalogT9
	60	Garage	4/4	125	Break
	61	TrancePop	4/4	130	AnalogT9
	62	Dancehall	4/4	103	Break
	63	70'sDisco	4/4	120	Standard 2
Classic R&B	64	JazzFunk	4/4	120	Standard 2
	65	SoulBeat	4/4	124	Standard 1
	66	FrnklySoul	4/4	128	Standard 2
	67	Rock&Roll	4/4	172	Standard 1
	68	OldiesR&R	4/4	180	Brush
	69	DetroitPp1	4/4	172	Standard 1
	70	DetroitPp2	4/4	118	Standard 2
	71	SoulShuffle	4/4	98	Standard 1
	72	SlowBlues	4/4	49	Standard 2
	73	Gospel1	3/4	90	Standard 2
	74	Gospel2	3/4	72	Standard 1
	75	PnoBoogie	4/4	160	Standard 1
	Country	76	Country8Bt	4/4	136
77		CountryBld	4/4	72	Standard 1
78		CountryShf	4/4	126	Standard 1
79		CountryWlz	3/4	140	Brush
80		Bluegrass	4/4	140	Brush
Jazz	81	ModernJazz	4/4	218	Standard 1
	82	AcousticJz	4/4	152	Brush
	83	CoolJazz	4/4	120	Standard 1
	84	BigBand	4/4	144	Standard 1
	85	PianoJazz	4/4	123	Brush
	86	CoolJzBld	4/4	70	Brush
	87	JazzBallad	4/4	61	Brush
	88	JzWltzSlow	3/4	110	Brush
	89	JzWltzMed	3/4	180	Standard 2
	90	JzWltzFast	3/4	194	Brush
	91	Five-Four	5/4	168	Brush
	92	Dixieland	4/4	224	Standard 2
	93	Ragtime	4/4	176	Standard 2
	94	AfroCuban	4/4	200	Standard 1
World	95	Salsa	4/4	123	Standard 1
	96	Samba	4/4	96	Standard 2
	97	BossaNova	4/4	124	Brush
	98	FastBossa	4/4	175	Standard 1
	99	RockChaCha	4/4	120	Standard 2
	100	Reggae	4/4	90	Standard 1

## Preset Drum Kit List

Kit No.	Kit name
1	Standard 1
2	Standard 2
3	Brush
4	Classic
5	Hip Hop
6	Break
7	AnalogT9
8	Hit
9	Room
10	Rock
11	Electronic
12	Analog
13	Dance
14	Jazz



# Pre-Amplifier Block

## Pre-Amplifier Block Parameter List

### Piano Category

[1] CF Grand,

[2] S6 Grand (CP5 only)

No.	Parameter	Range	Value
<b>Piano Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	Key-off (Key-off Noise Level)	-16 – +16	48 – 80
4	---		
5	Hammer (Hammer Stiffness) *1	Soft2, Soft1, Normal, Hard1, Hard2	62 – 66
<b>Pre-amplifier Parameters</b>			
1	---		
2	---		
3	---		
4	---		
5	---		
6	---		
7	---		
8	---		
9	---		
10	Damper Resonance Level	-16 – +16	10 – 42
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		

### E. Piano Category

[1] CP80

[2] CP88

No.	Parameter	Range	Value
<b>Piano Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	Key-off (Key-off Noise Level)	-16 – +16	48 – 80
4	---		
5	Hammer (Hammer Stiffness)*1	Soft2, Soft1, Normal, Hard1, or Hard2	62 – 66
<b>Pre-amplifier Parameters</b>			
1	Bass	0 – 10.0	0 – 50
2	Middle	0 – 10.0	0 – 50
3	Treble	0 – 10.0	0 – 50
4	Brilliance	Low, Medium, High	0 – 2
5	Volume	0 – 127	0 – 127
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	Input Gain	-18.0dB – +4.0dB	28 – 72
16	---		

[3] 71Rd I (CP5 only)

[4] 73Rd I (CP5 only)

[5] 75Rd I

No.	Parameter	Range	Value
<b>Piano Type Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	Key-off (Key-off Noise Level)	-16 – +16	48 – 80
4	StrkPos (Striking Position)	Top3 to Top1, Default, or Rear1 to Rear3	61 – 67
5	Hammer (Hammer Stiffness) *1	Soft2, Soft1, Normal, Hard1, or Hard2	62 – 66
<b>Pre-amplifier Parameters</b>			
1	Bass	-10.0 – +10.0	0 – 50
2	Treble	-10.0 – +10.0	0 – 50
3	Vibrato Depth	0 – 10.0	0 – 50
4	Vibrato Speed	0 – 10.0	0 – 50
5	Volume	0 – 127	0 – 127
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	Input Gain	-18.0dB – +4.0dB	28 – 72
16	---		

[10] 78Rd II (CP5 only)

No.	Parameter	Range	Value
<b>Piano Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	Key-off (Key-off Noise Level)	-16 – +16	48 – 80
4	StrkPos (Striking Position)	Top3 to Top1, Default, or Rear1 to Rear3	61 – 67
5	Hammer (Hammer Stiffness)	Soft2, Soft1, Normal, Hard1, or Hard2	62 – 66
<b>Pre-amplifier Parameters</b>			
1	Bass	-10.0 – +10.0	0 – 50
2	Treble	-10.0 – +10.0	0 – 50
3	Vibrato Depth	0 – 10.0	0 – 50
4	Vibrato Speed	0 – 10.0	0 – 50
5	Volume	0 – 127	0 – 127
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	Input Gain	-18.0dB – +4.0dB	28 – 72
16	---		

\*1: The Hammer parameter is available on the CP5 only.

[11] Dyno (CP5 only)

No.	Parameter	Range	Value
<b>Piano Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	Key-off (Key-off Noise Level)	-16 – +16	48 – 80
4	StrkPos (Striking Position)	Top3 to Top1, Default, or Rear1 to Rear3	61 – 67
5	Hammer (Hammer Stiffness)	Soft2, Soft1, Normal, Hard1, or Hard2	62 – 66
<b>Pre-amplifier Parameters</b>			
1	Bass Boost	0 – 10.0	0 – 50
2	Normal	0 – 10.0	0 – 50
3	Overtone	0 – 10.0	0 – 50
4	---		
5	Volume	0 – 127	0 – 127
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	Input Gain	-18.0dB – +4.0dB	28 – 72
16	---		

[12] 69Wr

[13] 77Wr

No.	Parameter	Range	Value
<b>Piano Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	Key-off (Key-off Noise Level)	-16 – +16	48 – 80
4	StrkPos (Striking Position)	Top3 to Top1, Default, or Rear1 to Rear3	61 – 67
5	Hammer (Hammer Stiffness)*1	Soft2, Soft1, Normal, Hard1, or Hard2	62 – 66
<b>Pre-amplifier Parameters</b>			
1	Bass	-10.0 – +10.0	0 – 50
2	Mid Boost	0.0 – +10.0	0 – 50
3	Treble	-10.0 – +10.0	0 – 50
4	Vibrato Depth	0-10.0	0 – 50
5	Volume	0 – 127	0 – 127
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	Input Gain	-18.0dB – +4.0dB	28 – 72
16	---		

\*1: The Hammer parameter is available on the CP5 only.

[14] DX Legend

[15] DX Woody

[16] DX FTine

[17] DX 7 II

[18] DX Mellow

[19] DX Crisp

No.	Parameter	Range	Value
<b>Piano Parameters</b>			
1	Decay (Decay Time)	-16 – +16	0 – 127
2	Release (Release Time)	-16 – +16	0 – 127
3	---		
4	---		
5	---		
<b>Pre-amplifier Parameters</b>			
1	Low	-12.0dB – +12.0dB	40 – 88
2	Low Middle	-12.0dB – +12.0dB	40 – 88
3	High Middle	-12.0dB – +12.0dB	40 – 88
4	High	-12.0dB – +12.0dB	40 – 88
5	Volume	0 – 127	0 – 127
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	Input Gain	-18.0dB – +4.0dB	28 – 72
16	---		

# Modulation Effect Block

## Modulation Effect Type List

	Type name	Type (HEX)	
		MSB	LSB
1	SmallPha (Small Phaser)	20	00
2	Max90	21	00
3	Max100	22	00
4	Flanger	23	00
5	TouchWah (Touch Wah)	24	00
6	PedalWah (Pedal Wah)	25	00
7	Chorus	26	00
8	D Chorus	27	00
9	816Cho (816Chorus)	28	00
10	Sympho (Symphonic)	29	00
11	Other *2	—	—

\*2: For more details regarding the Other effect types and the corresponding parameters, see *Effect Type List for Other Group* (page 21) and *Effect Parameter List for Other Group* (page 22).

## Modulation Effect Parameter List

### [1] SmallPha (Small Phaser)

No.	Parameter	Range	Value	Control
1	Rate	0.092Hz – 16.270Hz (when <i>Color</i> is set to "0.") 0.06Hz – 11.07Hz (when <i>Color</i> is set to "1.")	0 – 127	●
2	Color	0, 1	0 – 1	
3	Drive	0 – 42	0 – 42	
4	---			
5	---			
6	---			
7	---			
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
13	---			
15	---			
16	---			

### [2] MAX90

No.	Parameter	Range	Value	Control
1	Speed	0.100Hz – 10.000Hz	0 – 127	●
2	Type	1, 2	0 – 1	
3	Drive	0 – 127	0 – 127	
4	---			
5	---			
6	---			
7	---			
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

### [3] MAX100

No.	Parameter	Range	Value	Control
1	Speed	0.100Hz – 10.000Hz	0 – 127	●
2	Mode	1, 2, 3, 4	0 – 3	
3	---			
4	---			
5	---			
6	---			
7	---			
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

### [4] Flanger

No.	Parameter	Range	Value	Control
1	Speed	0.040Hz – 10.00Hz	0 – 235	
2	Manual	0 – 127	0 – 127	
3	Depth	0 – 127	0 – 127	
4	Feedback	0 – 127	0 – 127	
5	---			
6	---			
7	Mix	0 – 127	0 – 127	●
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

### [5] TouchWah (Touch Wah)

No.	Parameter	Range	Value	Control
1	Sensitivity	0 – 127	0 – 127	●
2	Bottom	0 – 127	0 – 127	
3	Top	0 – 127	0 – 127	
4	Resonance Offset	-12.0 – +12.0	40 – 88	
5	---			
6	---			
7	Drive	0.0dB – +40.0dB	0 – 80	
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

[6] PedalWah (Pedal Wah)

No.	Parameter	Range	Value	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 – +12.0	40 – 88	
5	---			
6	---			
7	Drive	0.0dB – +40.0dB	0 – 80	
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

[9] 816Cho (816Chorus)

No.	Parameter	Range	Value	Control
1	Speed	0.100Hz – 10.000Hz	0 – 127	
2	Phase	0, 30, 45, 60, 90, ..., 330	0 – 15	
3	Depth	0 – 127	0 – 127	
4	Feedback	0 – 127	0 – 127	
5	---			
6	---			
7	---			
8	---			
9	---			
10	Mix	1 – 127	1 – 127	●
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

[7] Chorus

No.	Parameter	Range	Value	Control
1	Speed	0.040Hz – 10.00Hz	0 – 235	
2	---			
3	Depth	0 – 127	0 – 127	
4	---			
5	---			
6	---			
7	Mix	0 – 127	0 – 127	●
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

[10] Sympho (Symphonic)

No.	Parameter	Range	Value	Control
1	Speed	0.0Hz – 39.7Hz	0 – 127	
2	Depth	0 – 127	0 – 127	
3	Delay	0.0ms – 50.0ms	0 – 127	
4	---			
5	---			
6	---			
7	---			
8	---			
9	---			
10	Mix	1 – 127	1 – 127	●
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

[8] D Chorus

No.	Parameter	Range	Value	Control
1	Type	Type1 – Type5	0 – 4	
2	---			
3	---			
4	---			
5	---			
6	---			
7	---			
8	---			
9	---			
10	---			
11	---			
12	---			
13	---			
14	---			
15	---			
16	---			

Effect Type List for Other Group

Category	Effect Type Name	Type (HEX)		Mod Effect Power Amp Mic Insertion	Master Comp
		MSB	LSB		
DLY (DELAY)	CrsDly (CROSS DELAY)	02	00	●	
	T-CrsDly (TEMPO CROSS DELAY)	02	10	●	
	T-DlyMono (TEMPO DELAY MONO)	02	20	●	
	T-DlySt (TEMPO DELAY STEREO)	02	28	●	
	DlyLR (DELAY LR)	02	40	●	
	DlyLCR (DELAY LCR)	02	50	●	
	DlyLR(St) {DELAY LR (Stereo)}	02	48	●	
CHO (CHORUS)	G Cho (G CHORUS)	03	00	●	
	2Mod (2 MODULATOR)	03	10	●	
	SPX Cho (SPX CHORUS)	03	20	●	
	Ensemble (ENSEMBLE DETUNE)	03	40	●	
FLG (FLANGER)	ClscFig (CLASSIC FLANGER)	04	10	●	
	T-Flg (TEMPO FLANGER)	04	20	●	
	DynaFig (DYNAMIC FLANGER)	04	30	●	
PHA (PHASER)	T-Pha (TEMPO PHASER)	05	20	●	
	DynaPha (DYNAMIC PHASER)	05	30	●	
T&R (TOREMOLO&ROTARY)	AutoPan (AUTO PAN)	06	00	●	
	Tremolo (TREMOLO)	06	10	●	
	Rotary (ROTARY SPEAKER)	06	20	●	
DST (DISTORTION)	AmpSim1 (AMP SIMULATOR 1)	07	00	●	
	AmpSim2 (AMP SIMULATOR 2)	07	10	●	
	CmpDst (COMP DISTORTION)	07	20	●	
	CmpDst+ (COMP DISTORTION DELAY)	07	30	●	
CMP (COMPRESSOR)	ClscCmp (CLASSIC COMPRESSOR)	08	10	●	
	MCmp (MULTI BAND COMP)	08	20	●	●
L-F (LO-FI)	Lo-Fi (LO-FI)	0B	00	●	
	Noisy (NOISY)	0B	10	●	
	D-Turn (DIGITAL TURNTABLE)	0B	20	●	
TEC (TECH)	RingMod (RING MODULATOR)	0C	00	●	
	DynaRing (DYNAMIC RING MODULATOR)	0C	10	●	
	DynaFlt (DYNAMIC FILTER)	0C	20	●	
	Auto Syn (AUTO SYNTH)	0C	30	●	
	Isoltr (ISOLATOR)	0C	40	●	
	TechMod (TECH MODULATION)	0C	60	●	
MSC (MISC)	EQ501 (EQ 501)	0D	00	●	
	Enhans (HARMONIC ENHANCER)	0D	10	●	
	TalkMod (TALKING MODULATOR)	0D	20	●	
	PchChg (PITCH CHANGE)	0D	40	●	
	ER (EARLY REFLECTION)	0D	50	●	

## Effect Parameter List for Other Group Insertion Block

### Category — DELAY

#### [1] CROSS DELAY

No.	Parameter	Range	Value	Control
1	Delay Time L>R	0.1ms – 1638.3ms	(1 – 16383)	●
2	Delay Time R>L	0.1ms – 1638.3ms	(1 – 16383)	
3	Feedback Level	-63 – +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 Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	EQ Low Frequency	32Hz – 2.0kHz	(4 – 40)	
14	EQ Low Gain	-12dB – +12dB	(52 – 76)	
15	EQ High Frequency	500Hz – 16.0kHz	(28 – 58)	
16	EQ High Gain	-12dB – +12dB	(52 – 76)	

#### [2] TEMPO CROSS DELAY

No.	Parameter	Range	Value	Control
1	Delay Time L>R	32nd/3 – 4thx6	(0 – 19)	●
2	Delay Time R>L	32nd/3 – 4thx6	(0 – 19)	
3	Feedback Level	-63 – +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 – +63ms	(1 – 127)	
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY above.

#### [3] TEMPO DELAY MONO

No.	Parameter	Range	Value	Control
1	Delay Time	32nd/3 – 4thx6	(0 – 19)	●
2	Feedback Level	-63 – +63	(1 – 127)	
3	Feedback High Damp	0.1 – 1.0	(1 – 10)	
4	L/R Diffusion	-63ms – +63ms	(1 – 127)	
5	Lag	-63ms – +63ms	(1 – 127)	
6	—			
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY above.

#### [4] TEMPO DELAY STEREO

No.	Parameter	Range	Value	Control
1	Delay Time	32nd/3 – 4thx6	(0 – 19)	●
2	Feedback Level	-63 – +63	(1 – 127)	
3	Feedback High Damp	0.1 – 1.0	(1 – 10)	
4	L/R Diffusion	-63ms – +63ms	(1 – 127)	
5	Lag	-63ms – +63ms	(1 – 127)	
6	—			
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY above.

#### [5] DELAY L, R

No.	Parameter	Range	Value	Control
1	Delay Time L	0.1ms – 1638.3ms	(1 – 16383)	●
2	Delay Time R	0.1ms – 1638.3ms	(1 – 16383)	
3	Feedback Time 1	0.1ms – 1638.3ms	(1 – 16383)	
4	Feedback Time 2	0.1ms – 1638.3ms	(1 – 16383)	
5	Feedback Level	-63 – +63	(1 – 127)	
6	Feedback High Damp	0.1 – 1.0	(1 – 10)	
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY above.

#### [6] DELAY L, C, R

No.	Parameter	Range	Value	Control
1	Delay Time L	0.1ms_1638.3ms	(1 – 16383)	●
2	Delay Time R	0.1ms_1638.3ms	(1 – 16383)	
3	Delay Time C	0.1ms_1638.3ms	(1 – 16383)	
4	Feedback Time	0.1ms_1638.3ms	(1 – 16383)	
5	Feedback Level	-63_+63	(1 – 127)	
6	Delay Level C	0_127	(0 – 127)	
7	Feedback High Damp	0.1_1.0	(1 – 10)	
8	—			
9	—			
10	Dry/Wet Balance	D63>W_ D=W_ D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY above.

#### [7] DELAY L, R (STEREO)

No.	Parameter	Range	Value	Control
1	Delay Time L	0.1ms – 1638.3ms	(1 – 16383)	●
2	Delay Time R	0.1ms – 1638.3ms	(1 – 16383)	
3	Feedback Time L	0.1ms – 1638.3ms	(1 – 16383)	
4	Feedback Time R	0.1ms – 1638.3ms	(1 – 16383)	
5	Feedback Level	-63 – +63	(1 – 127)	
6	Feedback High Damp	0.1 – 1.0	(1 – 10)	
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY above.

### Category — CHORUS

#### [1] G CHORUS

No.	Parameter	Range	Value	Control
1	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	●
2	—			
3	PM Depth	0 – 127	(0 – 127)	
4	Feedback Level	-63 – +63	(1 – 127)	
5	Delay Offset	0.0ms – 50.0ms	(0 – 127)	
6	—			
7	—			
8	—			
9	—			
10	Dry / Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	—			
15	Input Mode	mono, stereo	(0 – 1)	
16	—			

6 – 9: Same as the parameters shaded in gray in CROSS DELAY above.

[2] 2 MODULATOR

No.	Parameter	Range	Value	Control
1	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	
2	AM Depth	0 – 127	(0 – 127)	
3	PM Depth	0 – 127	(0 – 127)	
4	Feedback Level	-63 – +63	(1 – 127)	
5	Delay Offset	0.0ms – 50.0ms	(0 – 127)	
6 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	Dry / Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	—			
15	Input Mode	mono, stereo	(0 – 1)	
16	—			

[3] SPX CHORUS

No.	Parameter	Range	Value	Control
1	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	
2	LFO Depth	0 – 127	(0 – 127)	
3	Feedback Level	-63 – +63	(1 – 127)	
4	Delay Offset	0.0ms – 50.0ms	(0 – 127)	
5	—			
6 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	—			
15	Input Mode	mono, stereo	(0 – 1)	
16	—			

[4] ENSEMBLE DETUNE

No.	Parameter	Range	Value	Control
1	Detune	-50cent – +50cent	(14 – 114)	
2	Initial Delay Lch	0.0ms – 50.0ms	(0 – 127)	
3	Initial Delay Rch	0.0ms – 50.0ms	(0 – 127)	
4	Spread	0 – 63	(0 – 63)	
5	—			
6	—			
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11 – 14: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
15	—			
16	—			

Category — FLANGER

[1] CLASSIC FLANGER

No.	Parameter	Range	Value	Control
1	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	
2	LFO Depth	0 – 127	(0 – 127)	
3	LFO Wave	Triangle, Sine, Random	(0 – 2)	
4	Delay Offset	0.09 – 36.21ms	(0 – 139)	
5	Feedback Level	-100 – +100%	(0 – 200)	
6 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	Modulation Phase	-180 – +180	(0 – 16)	
15	Feedback High Damp	0.1 – 1.0	(1 – 10)	
16	Analog Feel	0 – 10	(0 – 10)	

[2] TEMPO FLANGER

No.	Parameter	Range	Value	Control
1	LFO Speed	16th – 4thx16	(5 – 29)	
2	LFO Depth	0 – 127	(0 – 127)	
3	Feedback Level	-63 – +63	(1 – 127)	
4	Delay Offset	0.0ms – 50.0ms	(0 – 127)	
5	—			
6 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	LFO Phase Difference	-180deg – +180deg	(4 – 124)	
15	—			
16	—			

[3] DYNAMIC FLANGER

No.	Parameter	Range	Value	Control
1	Sensitivity	0 – 127	(0 – 127)	●
2	Delay Offset	0 – 127	(0 – 127)	
3	Feedback Level	-63 – +63	(1 – 127)	
4	Attack Time	0.3ms – 227ms	(0 – 127)	
5	Release Time	2.6ms – 2171ms	(0 – 127)	
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 Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13 – 16: Same as the parameters shaded in gray in CROSS DELAY on page 22.				

Category — PHASER

[1] TEMPO PHASER

No.	Parameter	Range	Value	Control
1	LFO Speed	16th – 4thx16	(5 – 29)	
2	LFO Depth	0 – 127	(0 – 127)	
3	Phase Shift Offset	0 – 127	(0 – 127)	
4	Feedback Level	-63 – +63	(1 – 127)	
5	—			
6 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	Stage	4 – 22	(4 – 22)	
12	Diffusion	mono, stereo	(0 – 1)	
13	—			
14	—			
15	—			
16	—			

[2] DYNAMIC PHASER

No.	Parameter	Range	Value	Control
1	Sensitivity	0 – 127	(0 – 127)	●
2	Dyna Level Offset	0 – 127	(0 – 127)	
3	Feedback Level	-63 – +63	(1 – 127)	
4	Attack Time	0.3ms – 227ms	(0 – 127)	
5	Release Time	2.6ms – 2171ms	(0 – 127)	
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 Balance	D63>W – D=W – D<W63	(1 – 127)	
11	Stage	4, 5, 6	(4 – 6)	
12	—			
13 – 16: Same as the parameters shaded in gray in CROSS DELAY on page 22.				

**Category — TREMOLO&ROTARY**

**[1] AUTO PAN**

No.	Parameter	Range	Value	Control
1	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	●
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 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	—			
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	—			
15	Input Mode	mono, stereo	(0 – 1)	
16	—			

**[2] TREMOLO**

No.	Parameter	Range	Value	Control
1	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	●
2	AM Depth	0 – 127	(0 – 127)	
3	PM Depth	0 – 127	(0 – 127)	
4	—			
5	—			
6 – 9: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
10	—			
11	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Mid Gain	-12dB – +12dB	(52 – 76)	
13	EQ Mid Width	0.1 – 12.0	(1 – 120)	
14	LFO Phase difference	-180deg – +180deg	(4 – 124)	
15	Input Mode	mono, stereo	(0 – 1)	
16	—			

**[3] ROTARY SPEAKER**

No.	Parameter	Range	Value	Control
1	Rotor Speed Slow	0.0Hz – 2.65Hz	(0 – 63)	
2	Horn Speed Slow	0.0Hz – 2.65Hz	(0 – 63)	
3	Rotor Speed Fast	2.69Hz – 39.70Hz	(64 – 127)	
4	Horn Speed Fast	2.69Hz – 39.70Hz	(64 – 127)	
5	Slow-Fast Time of R	0 – 127	(0 – 127)	
6	Slow-Fast Time of H	0 – 127	(0 – 127)	
7	Drive Rotor	0 – 127	(0 – 127)	
8	Drive Horn	0 – 127	(0 – 127)	
9	Rotor/Horn Balance	R63>H – R=H – R<H63	(1 – 127)	
10	—			
11 – 14: Same as the parameters shaded in gray in CROSS DELAY on page 22.				
15	Mic L-R Angle	0deg – 180deg	(0 – 60)	
16	Speed Control	Slow, Fast	(0 – 1)	●*3

\*3: Speed Control cannot be controlled using the pitch bend wheel.

**Category — DISTORTION**

**[1] AMP SIMULATOR 1**

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

**[2] AMP SIMULATOR 2**

No.	Parameter	Range	Value	Control
1	Overdrive	0 – 127	(0 – 127)	●
2	AMP Type	off, Stack, Combo, Tube, Crunch, Hi Gain, British	(0 – 6)	
3	LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
4	Output Level	0 – 127	(0 – 127)	
5	—			
6	—			
7	—			
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			
13	—			
14	—			
15	—			
16	—			

**[3] COMP DISTORTION**

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

**[4] COMP DISTORTION DELAY**

No.	Parameter	Range	Value	Control
1	Overdrive	0 – 100%	(0 – 100)	●
2	Device	Transistor, Vintage Tube, Distortion 1, Distortion 2, Fuzz	(0 – 4)	
3	Speaker Type	Flat, Stack, Combo, Twin, Radio, Megaphone	(0 – 5)	
4	Presence	-10 – 10	(0 – 20)	
5	Output Level	0 – 100%	(0 – 100)	
6	Delay Time L	0.1ms – 1638.3ms	(1 – 16383)	
7	Delay Time R	0.1ms – 1638.3ms	(1 – 16383)	
8	Feedback Time	0.1ms – 1638.3ms	(1 – 16383)	
9	Feedback Level	-63 – +63	(1 – 127)	
10	Dry/Wet Balance	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	Compress	-48dB – -6dB	(79 – 121)	
14	—			
15	—			
16	—			



**Category — COMPRESSOR**

**[1] CLASSIC COMPRESSOR**

No.	Parameter	Range	Value	Control
1	Attack	1ms – 40ms	(0 – 19)	
2	Release	10ms – 680ms	(0 – 15)	
3	Threshold	-48dB – -6dB	(79 – 121)	
4	Ratio	1 – 20.0	(0 – 7)	
5	Output Level	0 – 127	(0 – 127)	
6	—			
7	—			
8	—			
9	—			
10	—			
11	—			
12	—			
13	—			
14	—			
15	—			
16	—			

**[2] MULTI BAND COMP**

No.	Parameter	Range	Value	Control
1	Low Attack	1ms – 200ms	(0 – 29)	
2	Low Threshold	-54dB – -6dB	(73 – 121)	
3	Low Ratio	1 – 20.0	(0 – 7)	
4	Low Gain	-∞ – +18dB	(0 – 55)	
5	Mid Attack	1ms – 200ms	(0 – 29)	
6	Mid Threshold	-54dB – -6dB	(73 – 121)	
7	Mid Ratio	1 – 20.0	(0 – 7)	
8	Mid Gain	-∞ – +18dB	(0 – 55)	
9	High Attack	1ms – 200ms	(0 – 29)	
10	High Threshold	-54dB – -6dB	(73 – 121)	
11	High Ratio	1 – 20.0	(0 – 7)	
12	High Gain	-∞ – +18dB	(0 – 55)	
13	Divide Freq Low	16Hz – 20kHz	(0 – 124)	
14	Divide Freq High	16Hz – 20kHz	(0 – 124)	
15	Common Release	10msec – 3000msec	(0 – 23)	
16	—			

When the value of Bottom is greater than Top, the sound will not be modulated and only the Bottom value is available.

**Category — Lo-Fi**

**[1] LO-FI**

No.	Parameter	Range	Value	Control
1	Sampling Freq. Control	44.1 – 344Hz	(0 – 127)	
2	Word Length	1 – 127	(1 – 127)	
3	Output Gain	-6dB – +36dB	(0 – 42)	
4	Pre-LPF Cutoff Frequency	63Hz – 20.0kHz	(10 – 60)	
5	Filter Type	thru, Power Bass, Radio, Telephone, Clean, Low	(0 – 5)	
6	Pre-LPF Resonance	1 – 12.0	(10 – 120)	
7	Bit Assign	0 – 6	(0 – 6)	
8	Emphasis	off/on	(0 – 1)	
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	—			
12	—			
13	—			
14	—			
15	Input Mode	mono, stereo	(0 – 1)	
16	—			

**[2] NOISY**

No.	Parameter	Range	Value	Control
1	Mod Depth	0 – 10	(0 – 10)	●
2	Mod Speed	0 – 127	(0 – 127)	
3	Mod Feedback	-63 – +63	(1 – 127)	
4	Mod Mix Balance	1 – 127	(1 – 127)	
5	Drive	0 – 127	(0 – 127)	
6	AM Speed	0.00Hz – 39.7Hz	(0 – 127)	
7	AM Depth	0 – 127	(0 – 127)	
8	LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
9	LPF Resonance	1.0 – 12.0	(10 – 120)	
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	EQ Frequency	100Hz – 10.0kHz	(14 – 54)	
12	EQ Gain	-12 – +12dB	(52 – 76)	
13	EQ Width	1.0 – 12.0	(10 – 120)	
14	—			
15	—			
16	—			

**[3] DIGITAL TURNTABLE**

No.	Parameter	Range	Value	Control
1	Click Density	0 – 5	(0 – 5)	
2	Click Level	0 – 127	(0 – 127)	
3	Noise Tone	0 – 6	(0 – 6)	
4	Noise Mod Speed	0.00Hz – 39.7Hz	(0 – 127)	●
5	Noise Mod Depth	0 – 127	(0 – 127)	
6	Dry Send to Noise	0 – 127	(0 – 127)	
7	Noise LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
8	Noise LPF Q	1.0 – 12.0	(10 – 120)	
9	Noise Level	0 – 127	(0 – 127)	
10	—			
11	Dry Level	0 – 127	(0 – 127)	
12	Dry LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
13	—			
14	—			
15	—			
16	—			

**Category — TEC**

**[1] RING MODULATOR**

No.	Parameter	Range	Value	Control
1	OSC Frequency Coarse	0.5 – 5kHz	(0 – 127)	●
2	OSC Frequency Fine	0 – 127	(0 – 127)	
3	LFO Wave	tri, sine	(0 – 1)	
4	LFO Depth	0 – 127	(0 – 127)	
5	LFO Speed	0.0Hz – 39.70Hz	(0 – 127)	
6	HPF Cutoff Frequency	20Hz – 8.0kHz	(0 – 52)	
7	LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY on page 22.

**[2] DYNAMIC RING MODULATOR**

No.	Parameter	Range	Value	Control
1	Sensitivity	0 – 127	(0 – 127)	●
2	HPF Cutoff Frequency	20Hz – 8.0kHz	(0 – 52)	
3	LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
4	Attack Time	0.3ms – 227ms	(0 – 127)	
5	Release Time	2.6ms – 2171ms	(0 – 127)	
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 Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY on page 22.

**[3] DYNAMIC FILTER**

No.	Parameter	Range	Value	Control
1	Filter Type	LPF (12dB), LPF (18dB), LPF (24dB), HPF, BPF, BEF	(0 – 5)	
2	Sensitivity	0 – 127	(0 – 127)	●
3	Dyna Level Offset	0 – 127	(0 – 127)	
4	Resonance	-16 – +111	(0 – 127)	
5	Attack Time	0.3ms – 227ms	(0 – 127)	
6	Release Time	2.6ms – 2171ms	(0 – 127)	
7	Release Curve	0 – 127	(0 – 127)	
8	Direction	up, down	(0 – 1)	
9	Dyna Threshold Level	0 – 127	(0 – 127)	
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	—			
12	—			

13 – 16: Same as the parameters shaded in gray in CROSS DELAY on page 22.

**[4] AUTO SYNTH**

No.	Parameter	Range	Value	Control
1	Mod Speed	0 – 127	(0 – 127)	●
2	Mod Wave Type	Type A, Type B, Type C, Type D	(0 – 3)	
3	Mod Depth	0 – 127	(0 – 127)	
4	Mod Depth Ofst R	-63 – +63	(1 – 127)	
5	HPF Cutoff Frequency	20Hz – 8.0kHz	(0 – 52)	
6	LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
7	Delay Time	0.1 – 370.0ms	(1 – 3700)	
8	Delay Time Ofst R	0 – 884	(0 – 884)	
9	Delay Level	0 – 127	(0 – 127)	
10	Dry Mix Level	0 – 127	(0 – 127)	
11	Feedback Level	-63 – +63	(1 – 127)	
12	FB Level Ofst R	-63 – +63	(1 – 127)	
13	AM Speed	0.00Hz – 39.7Hz	(0 – 127)	
14	AM Wave	tri, sine, saw up, saw down	(0 – 3)	
15	AM Depth	0 – 127	(0 – 127)	
16	AM Inverse R	normal, inverse	(0 – 1)	

**[5] ISOLATOR**

No.	Parameter	Range	Value	Control
1	On/off Switch	on, off	(0 – 1)	●*3
2	Low Level	-64 – +63	(0 – 127)	
3	Mid Level	-64 – +63	(0 – 127)	
4	High Level	-64 – +63	(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	—			

\*3: On/off Switch cannot be controlled using the pitch bend wheel.

**[6] TECH MODULATION**

No.	Parameter	Range	Value	Control
1	Mod Speed	0 – 127	(0 – 127)	●
2	Mod Depth	0 – 127	(0 – 127)	
3	Mod Gain	-12 – +12dB	(52 – 76)	
4	Mod Mix Balance	D63>W – D=W – D<W63	(1 – 127)	
5	Pre Mod HPF Cutoff Frequency	20Hz – 8.0kHz	(0 – 52)	
6	Mod LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
7	Mod LPF Resonance	1.0 – 12.0	(10 – 120)	
8	Delay Time	0.1 – 740.0ms	(1 – 7400)	
9	Delay Time Ofst R	0 – 884	(0 – 884)	
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	
11	Feedback Level	-63 – +63	(1 – 127)	
12	FB Level Ofst R	-63 – +63	(1 – 127)	
13	Feedback Hi Damp	0.1 – 1.0	(1 – 10)	
14	FB Hi Damp Ofst R	-0.9 – +0.9	(1 – 19)	
15	—			
16	—			

**Category — MISC**

**[1] VCM EQ 501**

No.	Parameter	Range	Value	Control
1	EQ1 (LSH) Frequency	31.5Hz – 2.0kHz	(12 – 84)	
2	EQ1 (LSH) Gain	-12.0dB – +12.0dB	(60 – 300)	
3	EQ2 Q	0.50 – 16.00	(0 – 60)	
4	EQ2 Frequency	50.0 Hz – 20.0kHz	(20 – 124)	
5	EQ2 Gain	-18.0dB – +18.0dB	(0 – 360)	
6	EQ3 Q	0.50 – 16.00	(0 – 60)	
7	EQ3 Frequency	50.0 Hz – 20.0kHz	(20 – 124)	
8	EQ3 Gain	-18.0dB – +18.0dB	(0 – 360)	
9	EQ4 Q	0.50 – 16.00	(0 – 60)	
10	EQ4 Frequency	50.0 Hz – 20.0kHz	(20 – 124)	
11	EQ4 Gain	-18.0dB – +18.0dB	(0 – 360)	
12	EQ5 (HSH) Frequency	500Hz – 20.0kHz	(60 – 124)	
13	EQ5 (HSH) Gain	-12.0dB – +12.0dB	(60 – 300)	
14	Output Level	-12.0dB – +12.0dB	(60 – 300)	
15				
16				

**[2] HARMONIC ENHANCER**

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

**[3] Talking Modulator**

No.	Parameter	Range	Value	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	—			

**[4] PITCH CHANGE**

No.	Parameter	Range	Value	Control
1	Pitch 1	-24 – +24	(40 – 88)	
2	Fine 1	-50 – +50	(14 – 114)	
3	Initial Delay 1	0.1ms – 400.0ms	(0 – 127)	
4	Feedback Level 1	-63 – +63	(1 – 127)	
5	Pitch 2	-24 – +24	(40 – 88)	
6	Fine 2	-50 – +50	(14 – 114)	
7	Initial Delay 2	0.1ms – 400.0ms	(0 – 127)	
8	Feedback Level 2	-63 – +63	(1 – 127)	
9	—			
10	Dry/Wet Balance	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	—			

**[5] EARLY REFLECTION**

No.	Parameter	Range	Value	Control
1	Type	S-hall, L-hall, random, reverse, plate, spring	(0 – 5)	
2	Room Size	0.1 – 20.0	(0 – 127)	
3	Diffusion	0 – 10	(0 – 10)	
4	Initial Delay	0.1ms – 200.0ms	(0 – 127)	
5	Feedback Level	-63 – +63	(1 – 127)	
6	HPF Cutoff Frequency	20Hz – 8.0kHz	(0 – 52)	
7	LPF Cutoff Frequency	1.0kHz – 20.0kHz	(34 – 60)	
8	—			
9	—			
10	Dry/Wet Balance	D63>W – D=W – D<W63	(1 – 127)	●
11	Liveness	0 – 10	(0 – 10)	
12	Density	0 – 3	(0 – 3)	
13	Feedback High Damp	0.1 – 1.0	(1 – 10)	
14	—			
15	—			
16	—			

# Power-Amplifier/Compressor Block (CP5 only)

## Power-Amplifier/Compressor Type List

	Type name	Type (HEX)	
		MSB	LSB
1	71Rd I (PowerAmp 71Rd I)	30	08
2	73Rd I (PowerAmp 73Rd I)	31	08
3	75Rd I (PowerAmp 75Rd I)	32	08
4	78Rd II (PowerAmp 78Rd II)	33	08
5	69Wr (PowerAmp 69Wr)	34	08
6	77Wr (PowerAmp 77Wr)	35	08
7	Clean (Clean Amp)	36	00
8	Comp376 (Compressor 376)	37	00
9	Other *4	—	—

\*4: Details regarding the Other effect types and the corresponding parameters are as described for the Modulation Effect block. See *Effect Type List for Other Group* (page 21) and *Effect Parameter List for Other Group* (page 22).

## Power-Amplifier/Compressor Parameter List

### [1] – [6] Power Amp 71Rd I / 73Rd I / 75Rd I / 78Rd II / 69Wr / 77Wr

No.	Parameter	Range	Value
1	Line Balance	L63>S – L<S63	1 – 127
2	Output	0 – 127	0 – 127
3	---		
4	---		
5	---		
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		

### [7] Clean (Clean Amp)

No.	Parameter	Range	Value
1	Output	0 – 127	0 – 127
2	---		
3	---		
4	---		
5	---		
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		

### [8] Comp376 (Compressor 376)

No.	Parameter	Range	Value
1	Drive	0 – 100	0 – 100
2	Output	0 – 127	0 – 127
3	Ratio	2, 4, 8, 12, 20	0 – 4
4	Attack	0.203ms – 50.40ms	21 – 200
5	Release	11.96ms – 544.22ms	9 – 200
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		

## Mic Effect Block (CP5 only)

### Mic Effect Parameter

#### [1] NOISE GATE+COMP+EQ

No.	Parameter	Range	Value
1	Comp Attack	1ms – 40ms	(0 – 19)
2	Comp Release	10ms – 680ms	(0 – 15)
3	Comp Threshold	-48dB – -6dB	(79 – 121)
4	Comp Ratio	1.0 – 20.0	(0 – 7)
5	Comp Output Level	0 – 127	(0 – 127)
6	EQ Low Frequency	32Hz – 2.0kHz	(4 – 40)
7	EQ Low Gain	-12dB – +12dB	(52 – 76)
8	EQ High Frequency	500Hz – 16.0kHz	(28 – 58)
9	EQ High Gain	-12dB – +12dB	(52 – 76)
10	---		
11	Noise Gate Attack	1ms – 40ms	(0 – 19)
12	Noise Gate Release	10ms – 680ms	(0 – 15)
13	Noise Gate Threshold	-73dB – -30dB	(54 – 97)
14	EQ Mid Frequency	100Hz – 10.0kHz	(14 – 54)
15	EQ Mid Gain	-12dB – +12dB	(52 – 76)
16	EQ Mid Width	0.1 – 12.0	(1 – 120)

# Reverb Block

## Reverb Type List

	Type name	Type (HEX)	
		MSB	LSB
1	RichHall (Rich Hall)	01	00
2	RichPlate (Rich Plate)	01	01
3	RichRoom (Rich Room)	01	02
4	WoodRoom (Woody Room)	01	03
5	Room1	01	04
6	Room2	01	05
7	Stage1	01	06
8	Stage2	01	07

## Reverb Parameter List

- [1] RichHall (Rich Hall)
- [2] RichPlate (Rich Plate)
- [3] RichRoom (Rich Room)
- [5] Room1
- [6] Room2
- [7] Stage1
- [8] Stage2

No.	Parameter	Range	Value
1	Reverb Time	0.3s – 30.0ms	0 – 69
2	---		
3	---		
4	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52
5	---		
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	Feedback High Damp	0.1 – 1.0	1 – 10
15	---		
16	---		

### [4] WoodRoom (Woody Room)

No.	Parameter	Range	Value
1	Reverb Time	0.3s – 10.0ms	0 – 69
2	---		
3	---		
4	HPF Cutoff Frequency	20Hz – 8.0kHz	0 – 52
5	---		
6	---		
7	---		
8	---		
9	---		
10	---		
11	---		
12	---		
13	---		
14	---		
15	---		
16	---		

# MIDI Data Format

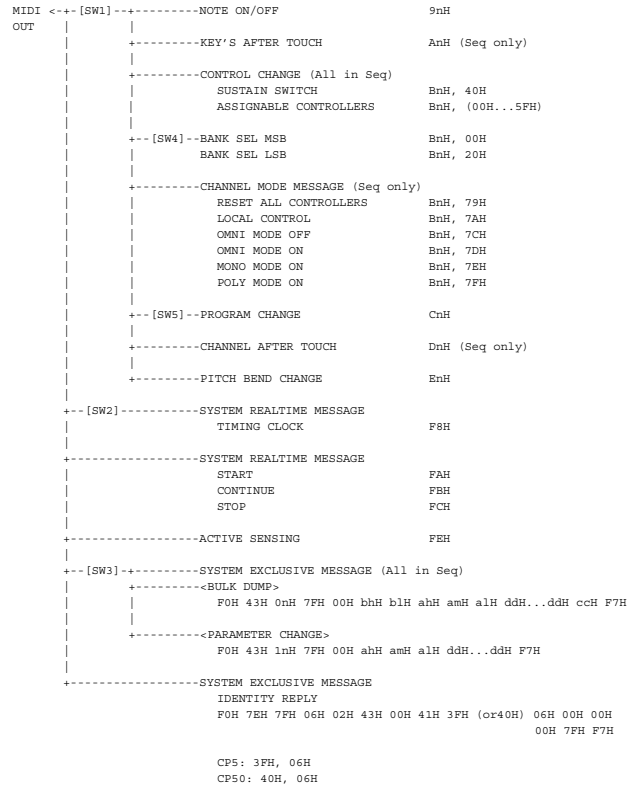
Many MIDI messages listed in the MIDI Data Format section are expressed in hexadecimal or binary numbers. Hexadecimal numbers may include the letter "H" as a suffix. The letter "n" indicates a certain whole number. The chart below lists the corresponding decimal number for each hexadecimal number.

Decimal	Hexadecimal	Decimal	Hexadecimal
0	0	64	40
1	1	65	41
2	2	66	42
3	3	67	43
4	4	68	44
5	5	69	45
6	6	70	46
7	7	71	47
8	8	72	48
9	9	73	49
10	0A	74	4A
11	0B	75	4B
12	0C	76	4C
13	0D	77	4D
14	0E	78	4E
15	0F	79	4F
16	10	80	50
17	11	81	51
18	12	82	52
19	13	83	53
20	14	84	54
21	15	85	55
22	16	86	56
23	17	87	57
24	18	88	58
25	19	89	59
26	1A	90	5A
27	1B	91	5B
28	1C	92	5C
29	1D	93	5D
30	1E	94	5E
31	1F	95	5F
32	20	96	60
33	21	97	61
34	22	98	62
35	23	99	63
36	24	100	64
37	25	101	65
38	26	102	66
39	27	103	67
40	28	104	68
41	29	105	69
42	2A	106	6A
43	2B	107	6B
44	2C	108	6C
45	2D	109	6D
46	2E	110	6E
47	2F	111	6F
48	30	112	70
49	31	113	71
50	32	114	72
51	33	115	73
52	34	116	74
53	35	117	75
54	36	118	76
55	37	119	77
56	38	120	78
57	39	121	79
58	3A	122	7A
59	3B	123	7B
60	3C	124	7C
61	3D	125	7D
62	3E	126	7E
63	3F	127	7F

### Additional Notes

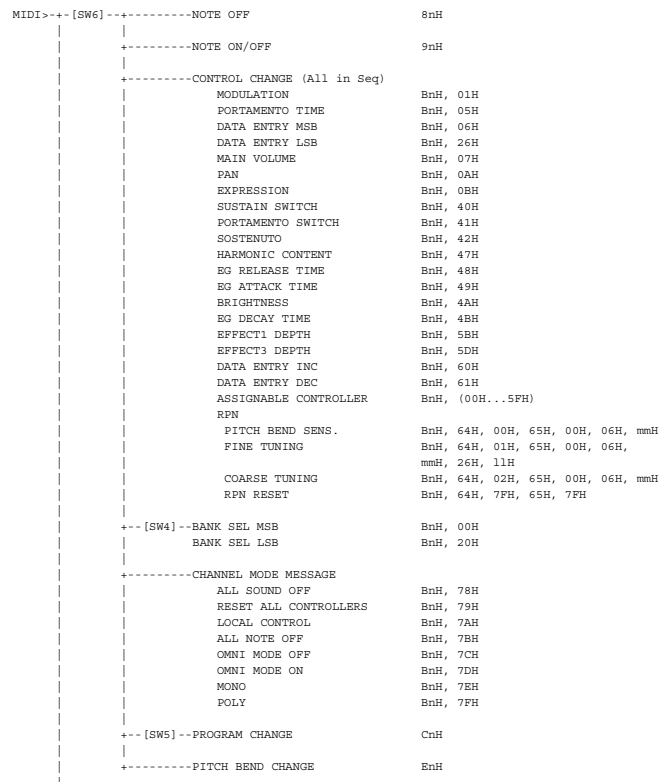
- For example, 144 – 159 (Decimal)/9nH/1001 0000 – 1001 1111 (Binary) indicate the note-on messages for the channels 1 through 16 respectively. 176 – 191/BnH/1011 0000 – 1011 1111 indicate the control change messages for the channels 1 through 16 respectively. 192 – 207/CnH/1100 0000 – 1100 1111 indicate the program change messages for the channels 1 through 16 respectively. 240/F0H/1111 0000 is positioned at the beginning of data to indicate a system exclusive message. 247/F7H/1111 0111 is positioned at the end of the system exclusive message.
- aaH (Hexadecimal)/Oaaaaaa (Binary) indicates the data addresses. The data address consists of High, Mid and Low.
- bbH/0bbbbbbb indicates byte counts.
- ccH/0ccccccc indicates check sums.
- ddH/0ddddddd indicates data/value.

## (1) TRANSMIT FLOW



- [SW1] MIDI Transmit Channel  
When Zone Switch (ZoneSw) is set to "on", MIDI data is transmitted via the corresponding zone transmit channels (TransCh).  
When Zone Switch (ZoneSw) is set to "off", MIDI data is transmitted via the system transmit channels (TxCh).
- [SW2] MIDI Sync (can be set whether the sequencer block uses the internal Timing Clock, or external Timing Clock messages received via MIDI IN)
- [SW3] MIDI Device Number  
When set to all, transmitted via 1.
- [SW4] SYSTEM Bank Select Switch
- [SW5] SYSTEM Program Change Switch

## (2) RECEIVE FLOW



[SW2]	SYSTEM REALTIME MESSAGE	
	TIMING CLOCK	F8H
	SYSTEM REALTIME MESSAGE	
	START	FAH
	CONTINUE	FBH
	STOP	FCH
	ACTIVE SENSING	FEH
[SW3]	SYSTEM EXCLUSIVE MESSAGE (All in Seq)	
	<BULK DUMP>	
	FOH 43H 0nH 7FH mmH bhH b1H ahH amH a1H ddH...ddH ccH F7H	
	mm = CP5: 10, CP50: 11	
	<PARAMETER CHANGE>	
	FOH 43H 1nH 7FH mmH ahH amH a1H ddH...ddH F7H	
	<BULK DUMP REQUEST>	
	FOH 43H 2nH 7FH mmH ahH amH a1H ddH...ddH F7H	
	<PARAMETER REQUEST>	
	FOH 43H 3nH 7FH mmH ahH amH a1H F7H	
	SYSTEM EXCLUSIVE MESSAGE	
	IDENTITY REQUEST	FOH 7EH 0nH 06H 01H F7H
	SYSTEM EXCLUSIVE MESSAGE	
	TEST ENTRY	FOH 43H 73H 01H 60H 00H F7H

[SW2] Complies with SYSTEM MIDI Sync setting. (This parameter can be received when it is not set to internal.)  
 [SW3] MIDI Device Number  
 [SW4] SYSTEM Bank Select Switch  
 [SW5] SYSTEM Program Change Switch  
 [SW6] MIDI Receive Channel and Receive Filter Complies with Receive Channel and Receive Switch.

(3) TRANSMIT/RECEIVE DATA

(3-1) CHANNEL VOICE MESSAGES

(3-1-1) NOTE OFF

STATUS	1000nnnn (8nH)	n = 0 - 15 CHANNEL NUMBER
NOTE No.	0kkkkkkk	k = 0 (C-2) - 127 (G8)
VELOCITY	0vvvvvvv	v: ignored

Receive only

(3-1-2) NOTE ON/OFF

STATUS	1001nnnn (9nH)	n = 0 - 15 CHANNEL NUMBER
NOTE NUMBER	0kkkkkkk	k = 0 (C-2) - 127 (G8)
VELOCITY NOTE ON	0vvvvvvv (v≠0)	
NOTE OFF	0vvvvvvv (v=0)	

(3-1-3) CONTROL CHANGE

STATUS	1011nnnn (BnH)	n = 0 - 15 CHANNEL NUMBER
CONTROL NUMBER	0ccccccc	
CONTROL VALUE	0vvvvvvv	

\*TRANSMITTED CONTROL NUMBER  
 c = 0 BANK SEL MSB ; v = 0 - 127 \*3  
 c = 32 BANK SEL LSB ; v = 0 - 127 \*3  
 c = 64 SUSTAIN SWITCH ; v = 0, 127 \*4  
 c = 0...95 ASSIGNABLE CONTROLLERS ; v = 0 - 127 \*4

The Sequencer Part will play back all recorded control change messages.

\*RECEIVED CONTROL NUMBER  
 c = 0 BANK SEL MSB ; v = 0 - 127 \*3  
 c = 32 BANK SEL LSB ; v = 0 - 127 \*3  
 c = 1 MODULATION ; v = 0 - 127 \*2  
 c = 5 PORTAMENTO TIME ; v = 0 - 127 \*1  
 c = 6 DATA ENTRY MSB ; v = 0 - 127 \*1  
 c = 38 DATA ENTRY LSB ; v = 0 - 127 \*1  
 c = 7 MAIN VOLUME ; v = 0 - 127 \*2  
 c = 10 PAN ; v = 0 - 127 \*2  
 c = 11 EXPRESSION ; v = 0 - 127 \*2  
 c = 31 EG SUSTAIN LEVEL ; v = 0: -64 - 64: 0 - 127: +63 \*2  
 c = 64 SUSTAIN SWITCH ; v = 0 - 63: OFF, 64 - 127: ON \*2  
 c = 65 PORTAMENTO SWITCH ; v = 0 - 63: OFF, 64 - 127: ON \*2  
 c = 66 SOSTENUTO ; v = 0 - 63: OFF, 64 - 127: ON \*2  
 c = 71 HARMONIC CONTENT ; v = 0: -64 - 64: 0 - 127: +63 \*2  
 c = 72 EG RELEASE TIME ; v = 0: -64 - 64: 0 - 127: +63 \*2  
 c = 73 EG ATTACK TIME ; v = 0: -64 - 64: 0 - 127: +63 \*2  
 c = 74 BRIGHTNESS ; v = 0: -64 - 64: 0 - 127: +63 \*2  
 c = 75 EG DECAY TIME ; v = 0: -64 - 64: 0 - 127: +63 \*2  
 c = 91 EFFECT1 DEPTH ; v = 0 - 127 \*1  
 c = 93 EFFECT3 DEPTH ; v = 0 - 127 \*1  
 c = 96 DATA ENTRY INC ; v = 127 \*4  
 c = 97 DATA ENTRY DEC ; v = 127 \*4  
 c = 0...95 ASSIGNABLE CONTROLLER ; v = 0 - 127 \*4

All Control Change events can be recorded to the sequence data.

\*1 Used only when a value is set using RPN.  
 \*2 Invalid with Drum Voices.  
 \*3 Relation between BANK CHANGE and PROGRAM is as follows:

CATEGORY	MSB	LSB	PROGRAM No.
Performance Preset 1	63	64	0...39 (1...40)
Preset 2	63	65	0...39 (1...40)
Preset 3	63	66	0...39 (1...40)
User 1	63	67	0...39 (1...40)
User 2	63	68	0...39 (1...40)
User 3	63	69	0...39 (1...40)
External 1	63	70	0...39 (1...40)
External 2	63	71	0...39 (1...40)
External 3	63	72	0...39 (1...40)

\*4 The default CONTROL NUMBERS of ASSIGNABLE CONTROLLER are as follows:

FOOT CONTROLLER 1	11
FOOT CONTROLLER 2	4
FOOT SWITCH	88

PORTAMENTO TIME is set the time it takes for the pitch to reach the next note played when PORTAMENTO SWITCH is set to on.

0: shortest time; 127: longest time  
 PAN position relatively changes according to the value for each performance part.  
 EFFECT1 DEPTH controls reverb send level.

HARMONIC CONTENT adjusts the resonance preset for each performance.  
 Setting a value adds to or subtracts from the center value, 64, since it is an offset parameter.  
 The larger the value more resonant sound will be produced.

The effective range may be narrower than the range you can designate depending on the selected voice.  
 The parameters, EG ATTACK TIME, EG DECAY TIME, EG SUSTAIN LEVEL, EG RELEASE TIME adjust the envelopes preset for each performance.

Setting these values add to or subtract from the center value, 64, since these are offset parameters.  
 BRIGHTNESS adjusts the cutoff frequency preset for each performance.

Setting a value adds to or subtracts from the center value, 64, since it is an offset parameter.  
 The smaller the value the cutoff frequency will be lowered.

The effective range may be narrower than the range you can designate depending on the selected voice.  
 Bank Select will be actually executed when the Program Change message is received.  
 Bank Select and Program Change numbers that are not supported by Yamaha will be ignored.

(3-1-4) PROGRAM CHANGE

STATUS	1100nnnn (CnH)	n = 0 - 15 CHANNEL NUMBER
PROGRAM NUMBER	0ppppppp	p = 0 - 127

(3-1-5) CHANNEL AFTER TOUCH

STATUS	1101nnnn (DnH)	n = 0 - 15 CHANNEL NUMBER
VALUE	0vvvvvvv	v = 0 - 127 AFTER TOUCH VALUE

(3-1-6) PITCH BEND CHANGE

STATUS	1110nnnn (EnH)	n = 0 - 15 CHANNEL NUMBER
LSB	0vvvvvvv	PITCH BEND CHANGE LSB
MSB	0vvvvvvv	PITCH BEND CHANGE MSB

Transmitted with a resolution of 7 bits.

(3-2) CHANNEL MODE MESSAGES

STATUS	1011nnnn (BnH)	n = 0 - 15 CHANNEL NUMBER
CONTROL NUMBER	0ccccccc	c = CONTROL NUMBER
CONTROL VALUE	0vvvvvvv	v = DATA VALUE

(3-2-1) ALL SOUND OFF (CONTROL NUMBER = 78H, DATA VALUE = 0)

All the sounds currently played including the channel messages such as note-on and hold-on in a certain channel are muted when receiving this message.

(3-2-2) RESET ALL CONTROLLERS (CONTROL NUMBER = 79H, DATA VALUE = 0)

Resets the values set for the following controllers.  
 PITCH BEND CHANGE 0 (center)  
 MODULATION 0 (minimum)  
 EXPRESSION 127 (maximum)  
 FOOT CONTROLLER 127 (maximum)  
 SUSTAIN SWITCH 0 (off)  
 SOSTENUTO SWITCH 0 (off)  
 RPN Not assigned; No change

Doesn't reset the following data:  
 PROGRAM CHANGE, BANK SELECT MSB/LSB, VOLUME, PAN, HARMONIC CONTENT, SUSTAIN LEVEL, RELEASE TIME, ATTACK TIME, DECAY TIME, BRIGHTNESS, EFFECT SEND LEVEL 1, EFFECT SEND LEVEL 3, PORTAMENTO SWITCH, PITCH BEND SENSITIVITY, FINE TUNING, COARSE TUNING

(3-2-3) ALL NOTE OFF (CONTROL NUMBER = 7BH, DATA VALUE = 0)

All the notes currently set to on in certain channel(s) are muted when receiving this message. However, if Sustain or Sostenuto is on, notes will continue sounding until these are turned off.

(3-2-4) OMNI MODE OFF (CONTROL NUMBER = 7CH, DATA VALUE = 0)

Performs the same function as when receiving ALL SOUND OFF.  
 Sets VOICE RECEIVE CHANNEL to "OMNI OFF" channel 1.

(3-2-5) OMNI MODE ON (CONTROL NUMBER = 7DH, DATA VALUE = 0)

Performs the same function as when receiving ALL SOUND OFF.  
 Sets VOICE RECEIVE CHANNEL to "OMNI ON."

(3-2-6) MONO (CONTROL NUMBER = 7EH, DATA VALUE = 0)

Sets Part Mode to "mono."

(3-2-7) POLY (CONTROL NUMBER = 7FH, DATA VALUE = 0)

Sets Part Mode to "poly."

(3-3) REGISTERED PARAMETER NUMBER

STATUS	1011nnnn (BnH)	n = 0 - 15 CHANNEL NUMBER
LSB	01100100 (64H)	
RPN LSB	0ppppppp	p = RPN LSB (Refer to the table as shown below.)
MSB	01100101 (65H)	
RPN MSB	0qqqqqqq	q = RPN MSB (Refer to the table as shown below.)
DATA ENTRY MSB	00000110 (06H)	
DATA VALUE	0mmmmmmm	m = Data Value
DATA ENTRY LSB	00100110 (26H)	
DATA VALUE	01111111	l = Data Value

First, designate the parameter using RPN MSB/LSB numbers. Then, set its value with data entry MSB/LSB.

RPN D. ENTRY  
 LSB MSB MSB LSB PARAMETER NAME DATA RANGE  
 00H 00H mmH --- PITCH BEND SENSITIVITY 00H - 0CH (0 - 12 semitones)  
 01H 00H mmH 11H MASTER FINE TUNE {mmH, 11H}={00H, 00H}-{40H, 00H}-{7FH, 7FH} (-8192\*100/8192) - 0 - (+8192\*100/8192)  
 02H 00H mmH --- MASTER COARSE TUNE 28H - 40H - 58H (-24 - 0 - +24 semitones)  
 7FH 7FH --- RPN RESET  
 RPN numbers will be left not designated.  
 The internal values are not affected.



**(3-4) SYSTEM REAL TIME MESSAGES**

**(3-4-1) ACTIVE SENSING**

STATUS 11111110 (FEH)

Transmitted at every 200 msec.  
Once this code is received, the instrument starts sensing.  
When no status nor data is received for over approximately 350 ms, MIDI receiving buffer will be cleared, and the sounds currently played is forcibly turned off.  
Also, the values of the Controllers are reset to the default settings.

**(3-5) SYSTEM EXCLUSIVE MESSAGE**

**(3-5-1) UNIVERSAL NON REALTIME MESSAGE**

**(3-5-1-1) IDENTITY REQUEST (Receive only)**

F0H 7EH 0nH 06H 01H F7H  
(\*n = Device No. However, this instrument receives under "omni.")

**(3-5-1-2) IDENTITY REPLY (Transmit only)**

F0H 7EH 7FH 06H 02H 43H 00H 41H ddH ddH 00H 00H 00H 7FH F7H

dd: Device Number Code  
CP5: 3FH, 06H  
CP50: 40H, 06H

**(3-5-2) PARAMETER CHANGE**

**(3-5-2-1) NATIVE PARAMETER CHANGE, MODE CHANGE**

```

11110000 F0 Exclusive status
01000011 43 YAMAHA ID
0001nnnn 1n device Number
0***** ** Model ID CP5: 7F, CP50: 7F
0***** ** Model ID CP5: 10, CP50: 11
0aaaaaaa aaaaaaa Address High
0aaaaaaa aaaaaaa Address Mid
0aaaaaaa aaaaaaa Address Low
0ddddd dddddd Data
| |
11110111 F7 End of Exclusive
    
```

For parameters with data size of 2 or more, the appropriate number of data bytes will be transmitted.  
See the following MIDI Data Table for Address.

**(3-5-3) BULK DUMP**

```

11110000 F0 Exclusive status
01000011 43 YAMAHA ID
0000nnnn 0n device Number
0***** ** Model ID CP5: 7F, CP50: 7F
0***** ** Model ID CP5: 10, CP50: 11
0bbbbbbb bbbbbbb Byte Count
0bbbbbbb bbbbbbb Byte Count
0aaaaaaa aaaaaaa Address High
0aaaaaaa aaaaaaa Address Mid
0aaaaaaa aaaaaaa Address Low
0 0 Data
| |
0ccccccc ccccccc Check-sum
11110111 F7 End of Exclusive
    
```

See the following MIDI Data Table for Address and Byte Count.  
The Check sum is the value that results in a value of 0 for the lower 7 bits when the Byte Count, Start Address, Data and Check sum itself are added.

**(3-5-4) DUMP REQUEST**

```

11110000 F0 Exclusive status
01000011 43 YAMAHA ID
0010nnnn 2n device Number
0***** ** Model ID CP5: 7F, CP50: 7F
0***** ** Model ID CP5: 10, CP50: 11
0aaaaaaa aaaaaaa Address High
0aaaaaaa aaaaaaa Address Mid
0aaaaaaa aaaaaaa Address Low
11110111 F7 End of Exclusive
    
```

See the following MIDI Data Table for Address and Byte Count.

**(3-5-5) PARAMETER REQUEST**

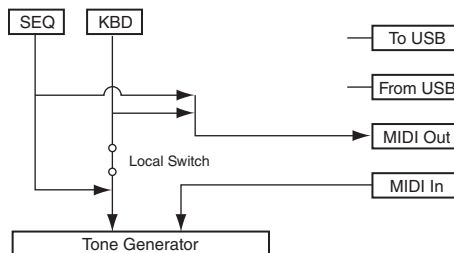
```

11110000 F0 Exclusive status
01000011 43 YAMAHA ID
0011nnnn 3n device Number
0***** ** Model ID CP5: 7F, CP50: 7F
0***** ** Model ID CP5: 10, CP50: 11
0aaaaaaa aaaaaaa Address High
0aaaaaaa aaaaaaa Address Mid
0aaaaaaa aaaaaaa Address Low
11110111 F7 End of Exclusive
    
```

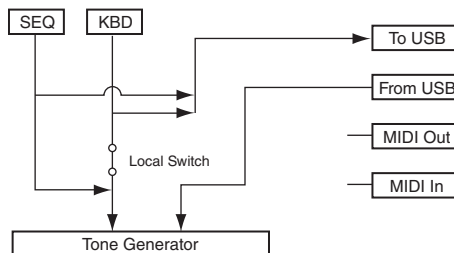
See the following MIDI Data Table for Address.

**(4) SYSTEM OVERVIEW (Keyboard, Sequencer and Tone Generator)**

**USB/MIDI = MIDI**



**USB/MIDI = USB**



Although three types of note on/note off data, received via MIDI, played by the internal sequencer and played on the keyboard will be distinguished, the other controllers (channel messages) equally affect the entire notes.

ALL SOUND OFF clears all the sounds in the specific channel(s) played by both the keyboard and the data via MIDI.

ALL NOTES OFF received via MIDI clears the sounds in the specific channel(s) played via MIDI.

# MIDI Data Table

## Bank Select

### Available Bank Select/Program Change

MSB	(HEX)	LSB	(HEX)	Program No.	Type	Memory
63	3F	64	40	0 – 39	Performance	PRE1
		65	41	0 – 39	Performance	PRE2
		66	42	0 – 39	Performance	PRE3
		67	43	0 – 39	Performance	USR1
		68	44	0 – 39	Performance	USR2
		69	45	0 – 39	Performance	USR3
		70	46	0 – 39	Performance	EXT1
		71	47	0 – 39	Performance	EXT2
		72	48	0 – 39	Performance	EXT3

## Parameter Base Address

Parameter Block	Top Address			Description
	H	M	L	
SYSTEM	00	00	00	System
	00	20	00	Master EQ
	00	21	00	Master Comp
BULK CONTROL	0E	00	00	Header
	0F	00	00	Footer
MULTIPLE BULK CONTROL	10	00	00	Header
	11	00	00	Footer
PERFORMANCE COMMON	30	00	00	Performance Common
PERFORMANCE PART	31	00	00	Part 1
				:
	31	03	00	Part 4
PERFORMANCE PART Pre-Amp	32	00	00	Part 1
				:
	32	03	00	Part 4
PERFORMANCE PART ModFx/Ins 1	33	00	00	Part 1
				:
	33	03	00	Part 4
PERFORMANCE PART PowAmp/Ins 2	34	00	00	Part 1 (CP5 only)
				:
	34	03	00	Part 4
PERFORMANCE PART BACKING PART	35	00	00	
PERFORMANCE PART AD PART	36	00	00	(CP5 only)
PERFORMANCE ZONE	37	00	00	Zone 1
				:
	37	03	00	Zone 4

## Bulk Dump Block

"Top Address" indicates the top address of each block designated by bulk dump operation. "Byte Count" indicates the data size contained in each block designated by bulk dump operation.

The Block from the Bulk Header to the Bulk Footer of the Performance can be received regardless their order.

They can be received even if all of them are not transmitted. They cannot be received if the irrelevant Block is included.

To execute 1 Performance bulk dump request, designate its corresponding Bulk Header address.

When the Multiple Bulk Control Footer is received, Performances will be saved to the Flash ROM.

For the information about "mm" and "nn" shown in the following list, refer to MIDI PARAMETER CHANGE TABLE (BULK CONTROL).

Parameter Block	Top Address					Byte Count	Description
	High	Mid	Low	Dec	Hex		
SYSTEM	00	00	00	40	28		Utility
	00	20	00	20	14		MasterEQ
	00	21	00	40	28		MasterComp
PERFORMANCE	0E	mm	nn	00	00		BULK HEADER
COMMON	30	00	00	24	18		Common
	30	01	00	40	28		Reverb
	30	02	00	24	18		Controller
	30	03	00	18	12		Assignable
	30	04	00	18	12		Backing
PART	31	pp	00	56	38		Part (pp = 00 – 03 (CP5), 00 – 01 (CP50); PartNo.)
	32	pp	00	40	28		PreAmp (pp = 00 – 03 (CP5), 00 – 01 (CP50); PartNo.)
	33	pp	00	40	28		ModFx (pp = 00 – 03 (CP5), 00 – 01 (CP50); PartNo.)
	34	pp	00	40	28		PowAmp (pp = 00 – 03 (CP5); PartNo.) (CP5 only)
BACKING PART	35	00	00	18	12		Backing Part
A/D PART	36	00	00	6	06		AD Part (CP5 only)
	36	01	00	40	28		AD Insertion (CP5 only)
	36	02	00	40	28		MicEffect (CP5 only)
ZONE	37	zz	00	16	10		Zone (zz = 00 – 03: ZoneNo.)
	0F	mm	nn	00	00		BULK FOOTER

Bulk Header / Footer	Address			Description
	High	Mid	Low	
HEADER	0E	mm	nn	
PERF PRESET		40	nn	Performance PRE1 (nn = 0 – 27)
		41	nn	Performance PRE2 (nn = 0 – 27)
		42	nn	Performance PRE3 (nn = 0 – 27)
PERF USER		43	nn	Performance USR1 (nn = 0 – 27)
		44	nn	Performance USR2 (nn = 0 – 27)
		45	nn	Performance USR3 (nn = 0 – 27)
PERF EDIT	4F	nn	Performance Edit Buffer (nn = 0)	
MULTIPLE CONTROL	10	00	00	
FOOTER	0F	mm	nn	
PERF PRESET		40	nn	Performance PRE1 (nn = 0 – 27)
		41	nn	Performance PRE2 (nn = 0 – 27)
		42	nn	Performance PRE3 (nn = 0 – 27)
PERF USER		43	nn	Performance USR1 (nn = 0 – 27)
		44	nn	Performance USR2 (nn = 0 – 27)
		45	nn	Performance USR3 (nn = 0 – 27)
PERF EDIT	4F	nn	Performance Edit Buffer (nn = 0)	
MULTIPLE CONTROL	11	00	00	

## MIDI PARAMETER CHANGE TABLE (SYSTEM)

### Utility parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	00	00	1	00	reserved		00	
		01	1	00	reserved		00	
		02	4	00-0F 00-0F 00-0F 00-0F	Master Tune	-102.4 - +102.3 [cent] 1st bit 3-0: bit 15-12 2nd bit 3-0: bit 11-8 3rd bit 3-0: bit 7-4 4th bit 3-0: bit 3-0	00 04 00 00	
		06	1	00	reserved		00	
		07	1	34-4C	Master Transpose	-12 - +12 [semitones]	40	
		08	1	00	reserved		00	
		09	1	00-01	Local Switch	off, on	01	
		0A	1	00-10, 7F	Basic Receive Channel	1 - 16, omni, off	00	
		0B	1	00-0F, 7F	Keyboard Transmit Channel	1 - 16, off	00	
		0C	1	00	reserved		00	
		0D	1	00	reserved		00	
		0E	1	00-01	Piano Tuning Curve	flat, stretch	01	
		0F	1	00	reserved		00	
		10	1	00-04	Keyboard Velocity Curve	norm, soft, hard, wide, fixed	00	
		11	1	01-7F	Keyboard Fixed Velocity	1 - 127	40	
		12	1	00-01	Receive/Transmit Bank Select	off, on	01	
		13	1	00-01	Receive/Transmit Program Change	off, on	01	
		14	1	00	reserved		00	
		15	1	00-01	MIDI IN/OUT	MIDI, USB	00	
		16	1	00	reserved		00	
		17	1	00	reserved		00	
		18	1	00	reserved		00	
		19	1	00	reserved		00	
		1A	1	00	reserved		00	
		1B	1	00	reserved		00	
		1C	1	00	reserved		00	
		1D	1	00	reserved		00	
		1E	1	00-01	AutoLoad Switch	off, on	00	
		1F	1	00-08	Power on Memory	PRE1, PRE2, PRE3, USR1, USR2, USR3, EXT1, EXT2, EXT3	00	
		20	1	00-27	Power on PgmNo.	1 - 40	00	
		21	1	00	reserved		00	
		22	1	00	reserved		00	
		23	1	00	reserved		00	
		24	1	00-64	FS Control Number	off, 1 - 95, 98 (Play/Stop), 99 (PCInc), 100 (PCDec)	58	
		25	1	00-5F	FC2 Control Number	off, 1 - 95	04	
		26	1	00-5F	FC1 Control Number	off, 1 - 95	0B	
		27	1	00-02	Sustain Pedal Select	FC3 (HalfOn), FC3 (HalfOff), FC4/5	00	

TOTAL SIZE = 40 28 (HEX)

### Master EQ parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	20	00	1	34-4C	EQ Gain 1	-12 - +12 [dB]	40	
		01	1	04-28	EQ Frequency 1	32 - 2000 [Hz]	0C	
		02	1	01-78	EQ Q 1	0.1 - 12.0	07	
		03	1	00-01	EQ Shape 1	shelv, peak	00	
		04	1	34-4C	EQ Gain 2	-12 - +12 [dB]	40	
		05	1	0E-36	EQ Frequency 2	100 - 10.0 [kHz]	14	
		06	1	01-78	EQ Q 2	0.1 - 12.0	07	
		07	1	01-01	NOT USED (EQ Shape 2)	peak	01	fixed
		08	1	34-4C	EQ Gain 3	-12 - +12 [dB]	40	
		09	1	0E-36	EQ Frequency 3	100 - 10.0 [kHz]	1C	
		0A	1	01-78	EQ Q 3	0.1 - 12.0	07	
		0B	1	00	NOT USED		00	
		0C	1	34-4C	EQ Gain 4	-12 - +12 [dB]	40	
		0D	1	0E-36	EQ Frequency 4	100 - 10.0 [kHz]	2C	
		0E	1	01-78	EQ Q 4	0.1 - 12.0	07	
		0F	1	00	NOT USED		00	
		10	1	34-4C	EQ Gain 5	-12 - +12 [dB]	40	
		11	1	1C-3A	EQ Frequency 5	0.5 - 16.0 [kHz]	34	
		12	1	01-78	EQ Q 5	0.1 - 12.0	07	
		13	1	00-01	EQ Shape 5	shelv, peak	00	

TOTAL SIZE = 20 14 (HEX)

### Master Compressor parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
00	21	00	2	08 20	reserved			
		02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 00-1D	Low Attack	1ms - 200ms		
		06	2	00 49-79	Low Threshold	-54dB - -6dB		
		08	2	00 00-07	Low Ratio	1.0 - 20.0		
		0A	2	00 00-37	Low Gain	-∞ - +18dB		
		0C	2	00 00-1D	Mid Attack	1ms - 200ms		
		0E	2	00 49-79	Mid Threshold	-54dB - -6dB		
		10	2	00 00-07	Mid Ratio	1.0 - 20.0		
		12	2	00 00-37	Mid Gain	-∞ - +18dB		
		14	2	00 00-1D	High Attack	1ms - 200ms		
		16	2	00 49-79	High Threshold	-54dB - -6dB		
		18	2	00 00-07	High Ratio	1.0 - 20.0		
		1A	2	00 00-37	High Gain	-∞ - +18dB		
		1C	2	00 00-7C	Divide Freq Low	16Hz - 20kHz		
		1E	2	00 00-7C	Divide Freq High	16Hz - 20kHz		
		20	2	00 00-17	Common Release	10ms - 3000ms		
		22	2	00 00	reserved			
		24	1	00	reserved		00	
		25	1	00	reserved		00	
		26	1	00-01	MComp On/Off	off, on	01	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

## MIDI PARAMETER CHANGE TABLE (PERFORMANCE COMMON)

### Common parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
30	00	00	1	20 - 7F	Performance Name 1	32 - 126 (ASCII)	40	'l'
		01	1	20 - 7F	Performance Name 2	32 - 126 (ASCII)	6E	'n'
		02	1	20 - 7F	Performance Name 3	32 - 126 (ASCII)	69	'i'
		03	1	20 - 7F	Performance Name 4	32 - 126 (ASCII)	74	't'
		04	1	20 - 7F	Performance Name 5	32 - 126 (ASCII)	20	
		05	1	20 - 7F	Performance Name 6	32 - 126 (ASCII)	50	'P'
		06	1	20 - 7F	Performance Name 7	32 - 126 (ASCII)	65	'e'
		07	1	20 - 7F	Performance Name 8	32 - 126 (ASCII)	72	'r'
		08	1	20 - 7F	Performance Name 9	32 - 126 (ASCII)	66	'f'
		09	1	20 - 7F	Performance Name 10	32 - 126 (ASCII)	20	
		0A	1	00	reserved		00	
		0B	1	00	reserved		00	
		0C	1	00	reserved		00	
		0D	1	00	reserved		00	
		0E	1	00 - 01	Master Keyboard Split On/Off	off, on	00	
		0F	1	00 - 7F	Master Keyboard Split Point	C-2 - G8	3C	
		10	1	00 - 01	Master Keyboard Zone On/Off	off, on	00	
		11	1	00	reserved		00	
		12	1	00	reserved		00	
		13	1	00	reserved		00	
		14	1	00	reserved		00	
		15	1	00	reserved		00	
		16	1	00	reserved		00	
		17	1	00	reserved		00	

TOTAL SIZE = 24 18 (HEX)

### Reverb parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
30	01	00	2	00 - 7F 00 - 7F	Reverb Type MSB Reverb Type LSB	Refer to Effect Parameter List		
		02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 - 7F 00 - 7F	Reverb Parameter 1 MSB Reverb Parameter 1 LSB	:		
		06	2	00 - 7F 00 - 7F	Reverb Parameter 2 MSB Reverb Parameter 2 LSB	:		
		08	2	00 - 7F 00 - 7F	Reverb Parameter 3 MSB Reverb Parameter 3 LSB	:		
		0A	2	00 - 7F 00 - 7F	Reverb Parameter 4 MSB Reverb Parameter 4 LSB	:		
		0C	2	00 - 7F 00 - 7F	Reverb Parameter 5 MSB Reverb Parameter 5 LSB	:		
		0E	2	00 - 7F 00 - 7F	Reverb Parameter 6 MSB Reverb Parameter 6 LSB	:		
		10	2	00 - 7F 00 - 7F	Reverb Parameter 7 MSB Reverb Parameter 7 LSB	:		
		12	2	00 - 7F 00 - 7F	Reverb Parameter 8 MSB Reverb Parameter 8 LSB	:		
		14	2	00 - 7F 00 - 7F	Reverb Parameter 9 MSB Reverb Parameter 9 LSB	:		
		16	2	00 - 7F 00 - 7F	Reverb Parameter 10 MSB Reverb Parameter 10 LSB	:		
		18	2	00 - 7F 00 - 7F	Reverb Parameter 11 MSB Reverb Parameter 11 LSB	:		
		1A	2	00 - 7F 00 - 7F	Reverb Parameter 12 MSB Reverb Parameter 12 LSB	:		
		1C	2	00 - 7F 00 - 7F	Reverb Parameter 13 MSB Reverb Parameter 13 LSB	:		
		1E	2	00 - 7F 00 - 7F	Reverb Parameter 14 MSB Reverb Parameter 14 LSB	:		
		20	2	00 - 7F 00 - 7F	Reverb Parameter 15 MSB Reverb Parameter 15 LSB	:		

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
		22	2	00 - 7F 00 - 7F	Reverb Parameter 16 MSB Reverb Parameter 16 LSB	:		
		24	1	00	reserved		00	
		25	1	00	reserved		00	
		26	1	00 - 01	Reverb On/Off	off, on	01	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

### Controller parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
30	02	00	1	00 - 01	Pitch Bend L1 Destination	off, modFx	00	
		01	1	00 - 01	Pitch Bend L2 Destination	off, modFx	00	CP5 only
		02	1	00 - 01	Pitch Bend R1 Destination	off, modFx	00	
		03	1	00 - 01	Pitch Bend R2 Destination	off, modFx	00	CP5 only
		04	1	00	reserved		00	
		05	1	00	reserved		00	
		06	1	00 - 02	Foot Controller 1 L1 Destination	off, volume, modFx	00	
		07	1	00 - 02	Foot Controller 1 L2 Destination	off, volume, modFx	00	CP5 only
		08	1	00 - 02	Foot Controller 1 R1 Destination	off, volume, modFx	00	
		09	1	00 - 02	Foot Controller 1 R2 Destination	off, volume, modFx	00	CP5 only
		0A	1	00	reserved		00	
		0B	1	00	reserved		00	
		0C	1	00 - 02	Foot Controller 2 L1 Destination	off, volume, modFx	00	
		0D	1	00 - 02	Foot Controller 2 L2 Destination	off, volume, modFx	00	CP5 only
		0E	1	00 - 02	Foot Controller 2 R1 Destination	off, volume, modFx	00	
		0F	1	00 - 02	Foot Controller 2 R2 Destination	off, volume, modFx	00	CP5 only
		10	1	00	reserved		00	
		11	1	00	reserved		00	
		12	1	00 - 03	Foot Switch L1 Destination	off, vibOn, bypsModFx, bypsPowAmp	00	
		13	1	00 - 03	Foot Switch L2 Destination	off, vibOn, bypsModFx, bypsPowAmp	00	CP5 only
		14	1	00 - 03	Foot Switch R1 Destination	off, vibOn, bypsModFx, bypsPowAmp	00	
		15	1	00 - 03	Foot Switch R2 Destination	off, vibOn, bypsModFx, bypsPowAmp	00	CP5 only
		16	1	00 - 01	Foot Switch Mode	momentary, latch	00	
		17	1	00	reserved		00	

TOTAL SIZE = 24 18 (HEX)

## MIDI PARAMETER CHANGE TABLE (PERFORMANCE PART)

### Assignable parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
30	03	00	1	00	reserved		00	
		01	1	00 – 11	Assignable Knob 1 FxBlock	off, pianoL 1, preAmpL 1, modFxD 1, powAmpL 1, ..., pianoR 2, preAmpR 2, modFxD 2, powAmpR 2, Reverb	00	
		02	1	00 – 0F	Assignable Knob 1 FxParam	param 1 .. param 16	00	
		03	1	00	reserved		00	
		04	1	00	reserved		00	
		05	1	00	reserved		00	
		06	1	00	reserved		00	
		07	1	00 – 11	Assignable Knob 2 FxBlock	off, pianoL 1, preAmpL 1, modFxD 1, powAmpL 1, ..., pianoR 2, preAmpR 2, modFxD 2, powAmpR 2, Reverb	00	
		08	1	00 – 0F	Assignable Knob 2 FxParam	param 1 .. param 16	00	
		09	1	00	reserved		00	
		0A	1	00	reserved		00	
		0B	1	00	reserved		00	
		0C	1	00	reserved		00	
		0D	1	00 – 11	Assignable Knob 3 FxBlock	off, pianoL 1, preAmpL 1, modFxD 1, powAmpL 1, ..., pianoR 2, preAmpR 2, modFxD 2, powAmpR 2, Reverb	00	
		0E	1	00 – 0F	Assignable Knob 3 FxParam	param 1 .. param 16	00	
		0F	1	00	reserved		00	
		10	1	00	reserved		00	
		11	1	00	reserved		00	

TOTAL SIZE = 18 12 (HEX)

### Backing parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
30	04	00	1	00 – 02	Backing Type	preDrum, usrSong, wave	00	
		01	1	00 – 7F	Song Number	1 – 128	00	
		02	2	00 – 01 1E – 2C	Tempo MSB Tempo LSB	30 – 300	00 78	
		04	1	00 – 2F	Beat	1/4 – 16/16	03	
		05	2	00 – 00 00 – 80	Start Key	C-2 – G8, all	00 80	
		07	1	00 – 7F	Kit Number	1 – 128	00	
		08	1	20 – 7E	Wave File Name 1	32 – 126 (ASCII)	20	
		09	1	20 – 7E	Wave File Name 2	32 – 126 (ASCII)	20	
		0A	1	20 – 7E	Wave File Name 3	32 – 126 (ASCII)	20	
		0B	1	20 – 7E	Wave File Name 4	32 – 126 (ASCII)	20	
		0C	1	20 – 7E	Wave File Name 5	32 – 126 (ASCII)	20	
		0D	1	20 – 7E	Wave File Name 6	32 – 126 (ASCII)	20	
		0E	1	20 – 7E	Wave File Name 7	32 – 126 (ASCII)	20	
		0F	1	20 – 7E	Wave File Name 8	32 – 126 (ASCII)	20	
		10	1	00 – 01	Auto Key-on Start	off, on	00	
		11	1	00	reserved		00	

TOTAL SIZE = 18 12 (HEX)

### Part parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
31	pp	00	1	00 – 7F	Bank Select MSB	0 – 127	00	
		01	1	00 – 7F	Bank Select LSB	0 – 127	00	
		02	1	00 – 7F	Program Number	1 – 128	00	
		03	1	00	reserved		00	
		04	1	00 – 01	Part Mode	mono, poly	01	
		05	1	00 – 7F	Note Limit Low	C-2 – G8	00	
		06	1	00 – 7F	Note Limit High	C-2 – G8	7F	
		07	1	00 – 06	Micro Tuning	Equal, PureMaj, PureMin, Pythag, MeanTn, WerckMt, KimBerger	00	
		08	1	00 – 0B	Micro Tuning Root	C – B	00	
		09	1	00	reserved		00	
		0A	1	00	reserved		00	
		0B	1	00 – 7F	Velocity Sense Depth	0 – 127	40	
		0C	1	00 – 7F	Velocity Send Offset	0 – 127	40	
		0D	1	00 – 7F	Volume	0 – 127	64	
		0E	1	01 – 7F	Pan	L63 – C – R63	40	
		0F	1	00 – 0C	Pitch Bend Range	0 – 12	02	
		10	2	00 – 0F 00 – 0F	Detune MSB Detune LSB	-12.8 – +12.7 [Hz] 1st bit 3-0: bit 7-4, 2nd bit 3-0: bit 3-0	08 00	
		12	1	00 – 7F	Reverb Send	0 – 127	28	
		13	1	00	reserved		00	
		14	1	00	reserved		00	
		15	1	28 – 58	Note Shift	-24 – +24 [semitones]	40	
		16	1	00 – 7F	Filter Cutoff Frequency	-64 – +63	40	
		17	1	00 – 7F	Filter Resonance/Width	-64 – +63	40	
		18	1	00	reserved		00	
		19	1	00 – 01	Portamento Switch	off, on	00	
		1A	1	00 – 7F	Portamento Time	0 – 127	40	
		1B	1	00 – 01	Portamento Mode	fingered, fulltime	01	
		1C	1	00	reserved		00	
		1D	1	00 – 7F	AEG Attack Time	-16 – +16	40	
		1E	1	00 – 7F	reserved		40	
		1F	1	00 – 7F	reserved		40	
		20	1	00	reserved		00	
		21	1	00	reserved		00	
		22	1	00 – 01	Part On/Off		01	
		23	1	00 – 7F	Decay Time	-16 – +16	40	
		24	1	00 – 7F	Release Time	-16 – +16	40	
		25	1	30 – 50	Key-off Sound Volume	-16 – +16	40	
		26	1	30 – 50	reserved	-16 – +16	40	
		27	1	3D – 43	Striking Position	top3, top2, top1, default, rear1, rear2, rear3	40	
		28	1	00	reserved		00	
		29	1	3E – 42	Hammer Stiffness	soft2, soft1, normal, hard1, hard2	40	
		2A	1	00	reserved		00	
		2B	1	00	reserved		00	
		2C	1	00	reserved		00	
		2D	1	00	reserved		00	
		2E	1	00	reserved		00	
		2F	1	00	reserved		00	
		30	1	00 – 01	Receive Control Change		01	
		31	1	00 – 01	Receive Pitch Bend		01	
		32	1	00 – 01	Receive FC1		01	

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
		33	1	00 – 01	Receive FC2		01	
		34	1	00 – 01	Receive FS		01	
		35	1	00 – 01	Receive Sustain		01	
		36	1	00 – 01	Receive Volume		01	
		37	1	00 – 01	Receive Pan		01	

TOTAL SIZE = 56 38 (HEX)

pp = Part Number

CP5: 00 – 03 (HEX) Part 1 – Part 4 (L1, R1, L2, R2) CP50: 00 – 01 (HEX) Part 1 – Part 2 (L, R)

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
		24	1	00	reserved		00	
		25	1	00	reserved		00	
		26	1	00 – 01	Pre-Amplifier On/Off	off, on	01	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

pp = Part Number

CP5: 00 – 03 (HEX) Part 1 – Part 4 (L1, R1, L2, R2) CP50: 00 – 01 (HEX) Part 1 – Part 2 (L, R)

**Pre-Amplifier parameters**

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
32	pp	02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 1 MSB Pre-Amplifier Parameter 1 LSB	Refer to <i>Pre-Amplifier Parameter List</i> .		
		06	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 2 MSB Pre-Amplifier Parameter 2 LSB	:		
		08	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 3 MSB Pre-Amplifier Parameter 3 LSB	:		
		0A	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 4 MSB Pre-Amplifier Parameter 4 LSB	:		
		0C	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 5 MSB Pre-Amplifier Parameter 5 LSB	:		
		0E	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 6 MSB Pre-Amplifier Parameter 6 LSB	:		
		10	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 7 MSB Pre-Amplifier Parameter 7 LSB	:		
		12	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 8 MSB Pre-Amplifier Parameter 8 LSB	:		
		14	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 9 MSB Pre-Amplifier Parameter 9 LSB	:		
		16	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 10 MSB Pre-Amplifier Parameter 10 LSB	:		
		18	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 11 MSB Pre-Amplifier Parameter 11 LSB	:		
		1A	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 12 MSB Pre-Amplifier Parameter 12 LSB	:		
		1C	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 13 MSB Pre-Amplifier Parameter 13 LSB	:		
		1E	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 14 MSB Pre-Amplifier Parameter 14 LSB	:		
		20	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 15 MSB Pre-Amplifier Parameter 15 LSB	:		
		22	2	00 – 7F 00 – 7F	Pre-Amplifier Parameter 16 MSB Pre-Amplifier Parameter 16 LSB	:		

**Modulation Effect/Insertion 1 parameters**

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
33	pp	00	2	00 – 7F 00 – 7F	Modulation Effect Type MSB Modulation Effect Type LSB	Refer to <i>Modulation Effect Type List and Effect Types List for Other Group</i> .		
		02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 – 7F 00 – 7F	Modulation Effect Parameter 1 MSB Modulation Effect Parameter 1 LSB	Refer to <i>Modulation Effect Parameter List and Effect Parameter List for Other Group</i> .		
		06	2	00 – 7F 00 – 7F	Modulation Effect Parameter 2 MSB Modulation Effect Parameter 2 LSB	:		
		08	2	00 – 7F 00 – 7F	Modulation Effect Parameter 3 MSB Modulation Effect Parameter 3 LSB	:		
		0A	2	00 – 7F 00 – 7F	Modulation Effect Parameter 4 MSB Modulation Effect Parameter 4 LSB	:		
		0C	2	00 – 7F 00 – 7F	Modulation Effect Parameter 5 MSB Modulation Effect Parameter 5 LSB	:		
		0E	2	00 – 7F 00 – 7F	Modulation Effect Parameter 6 MSB Modulation Effect Parameter 6 LSB	:		
		10	2	00 – 7F 00 – 7F	Modulation Effect Parameter 7 MSB Modulation Effect Parameter 7 LSB	:		
		12	2	00 – 7F 00 – 7F	Modulation Effect Parameter 8 MSB Modulation Effect Parameter 8 LSB	:		
		14	2	00 – 7F 00 – 7F	Modulation Effect Parameter 9 MSB Modulation Effect Parameter 9 LSB	:		
		16	2	00 – 7F 00 – 7F	Modulation Effect Parameter 10 MSB Modulation Effect Parameter 10 LSB	:		
		18	2	00 – 7F 00 – 7F	Modulation Effect Parameter 11 MSB Modulation Effect Parameter 11 LSB	:		
		1A	2	00 – 7F 00 – 7F	Modulation Effect Parameter 12 MSB Modulation Effect Parameter 12 LSB	:		
		1C	2	00 – 7F 00 – 7F	Modulation Effect Parameter 13 MSB Modulation Effect Parameter 13 LSB	:		
		1E	2	00 – 7F 00 – 7F	Modulation Effect Parameter 14 MSB Modulation Effect Parameter 14 LSB	:		
		20	2	00 – 7F 00 – 7F	Modulation Effect Parameter 15 MSB Modulation Effect Parameter 15 LSB	:		

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
		22	2	00 – 7F 00 – 7F	Modulation Effect Parameter 16 MSB Modulation Effect Parameter 16 LSB	:		
		24	1	00	reserved		00	
		25	1	00	reserved		00	
		26	1	00 – 01	Modulation Effect On/Off	off, on	01	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

pp = Part Number  
CP5: 00 – 03 (HEX) Part 1 – Part 4 (L1, R1, L2, R2)

**Power-Amplifier/Insertion 2 parameters (CP5 only)**

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
34	pp	00	2	00 – 7F 00 – 7F	Power-Amp Type MSB Power-Amp Type LSB	Refer to <i>Power-Amplifier/Compressor Type List and Effect Types List for Other Group.</i>		
		02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 – 7F 00 – 7F	Power-Amp Parameter 1 MSB Power-Amp Parameter 1 LSB	Refer to <i>Power-Amplifier/Compressor Parameter List and Effect Parameter List for Other Group.</i>		
		06	2	00 – 7F 00 – 7F	Power-Amp Parameter 2 MSB Power-Amp Parameter 2 LSB	:		
		08	2	00 – 7F 00 – 7F	Power-Amp Parameter 3 MSB Power-Amp Parameter 3 LSB	:		
		0A	2	00 – 7F 00 – 7F	Power-Amp Parameter 4 MSB Power-Amp Parameter 4 LSB	:		
		0C	2	00 – 7F 00 – 7F	Power-Amp Parameter 5 MSB Power-Amp Parameter 5 LSB	:		
		0E	2	00 – 7F 00 – 7F	Power-Amp Parameter 6 MSB Power-Amp Parameter 6 LSB	:		
		10	2	00 – 7F 00 – 7F	Power-Amp Parameter 7 MSB Power-Amp Parameter 7 LSB	:		
		12	2	00 – 7F 00 – 7F	Power-Amp Parameter 8 MSB Power-Amp Parameter 8 LSB	:		
		14	2	00 – 7F 00 – 7F	Power-Amp Parameter 9 MSB Power-Amp Parameter 9 LSB	:		
		16	2	00 – 7F 00 – 7F	Power-Amp Parameter 10 MSB Power-Amp Parameter 10 LSB	:		
		18	2	00 – 7F 00 – 7F	Power-Amp Parameter 11 MSB Power-Amp Parameter 11 LSB	:		
		1A	2	00 – 7F 00 – 7F	Power-Amp Parameter 12 MSB Power-Amp Parameter 12 LSB	:		
		1C	2	00 – 7F 00 – 7F	Power-Amp Parameter 13 MSB Power-Amp Parameter 13 LSB	:		
		1E	2	00 – 7F 00 – 7F	Power-Amp Parameter 14 MSB Power-Amp Parameter 14 LSB	:		

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
		20	2	00 – 7F 00 – 7F	Power-Amp Parameter 15 MSB Power-Amp Parameter 15 LSB	:		
		22	2	00 – 7F 00 – 7F	Power-Amp Parameter 16 MSB Power-Amp Parameter 16 LSB	:		
		24	1	00	reserved		00	
		25	1	00	reserved		00	
		26	1	00 – 01	Power-Amp On/Off	off, on	01	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

pp = Part Number  
CP5: 00 – 03 (HEX) Part1 – Part4 (L1, R1, L2, R2) CP50: 00 – 01 (HEX) Part1 – Part2 (L, R)

**Backing Part parameters**

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
35	00	00	1	00 – 01	Part Switch	off, on	01	
		01	1	00 – 7F	Part Volume	0 – 127	64	
		02	1	01 – 7F	Part Pan	L63 – C – R63	40	
		03	1	00 – 7F	Part ReverbSend	0 – 127	00	
		04	2	00 – 01 2E – 36	reserved	50.1 – 2.00k	00 36	
		06	1	20 – 60	reserved	-32 – +32	40	
		07	1	00	reserved		00	
		08	2	01 – 01 03 – 7F	reserved	503.8 – 14k	01 67	
		0A	1	20 – 60	reserved	-32 – +32	40	
		0B	1	00	reserved		00	

TOTAL SIZE = 12 0C (HEX)

**MIC INPUT Part parameters (CP5 only)**

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
36	00	00	1	00 – 01	Part Switch		01	
		01	1	00 – 7F	Audio Input Part Volume	0 – 127	64	
		02	1	01 – 7F	Audio Input Part Pan	L63 – C – R63	40	Inactive when playing Wave files.
		03	1	00 – 7F	Audio Input Reverb Send	0 – 127	00	Inactive when playing Wave files.
		04	1	00	reserved		00	
		05	1	00	reserved		00	

TOTAL SIZE = 6 6 (HEX)

**MIC Insertion Effect parameters (CP5 only)**

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
36	01	00	2	00 – 7F 00 – 7F	Ins Type MSB Ins Type LSB	Refer to Effect Parameter List of Other group.		
		02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 – 7F 00 – 7F	Ins Parameter 1 MSB Ins Parameter 1 LSB	:		
		06	2	00 – 7F 00 – 7F	Ins Parameter 2 MSB Ins Parameter 2 LSB	:		
		08	2	00 – 7F 00 – 7F	Ins Parameter 3 MSB Ins Parameter 3 LSB	:		
		0A	2	00 – 7F 00 – 7F	Ins Parameter 4 MSB Ins Parameter 4 LSB	:		
		0C	2	00 – 7F 00 – 7F	Ins Parameter 5 MSB Ins Parameter 5 LSB	:		

### MIDI PARAMETER CHANGE TABLE (PERFORMANCE ZONE)

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
		0E	2	00 – 7F 00 – 7F	Ins Parameter 6 MSB Ins Parameter 6 LSB	:		
		10	2	00 – 7F 00 – 7F	Ins Parameter 7 MSB Ins Parameter 7 LSB	:		
		12	2	00 – 7F 00 – 7F	Ins Parameter 8 MSB Ins Parameter 8 LSB	:		
		14	2	00 – 7F 00 – 7F	Ins Parameter 9 MSB Ins Parameter 9 LSB	:		
		16	2	00 – 7F 00 – 7F	Ins Parameter 10 MSB Ins Parameter 10 LSB	:		
		18	2	00 – 7F 00 – 7F	Ins Parameter 11 MSB Ins Parameter 11 LSB	:		
		1A	2	00 – 7F 00 – 7F	Ins Parameter 12 MSB Ins Parameter 12 LSB	:		
		1C	2	00 – 7F 00 – 7F	Ins Parameter 13 MSB Ins Parameter 13 LSB	:		
		1E	2	00 – 7F 00 – 7F	Ins Parameter 14 MSB Ins Parameter 14 LSB	:		
		20	2	00 – 7F 00 – 7F	Ins Parameter 15 MSB Ins Parameter 15 LSB	:		
		22	2	00 – 7F 00 – 7F	Ins Parameter 16 MSB Ins Parameter 16 LSB	:		
		24	1	00	reserved		00	
		25	1	00	reserved		00	
		26	1	00	reserved		00	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

#### Mic Effect parameters (CP5 only)

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
36	02	00 02	2	0D 70	reserved			
		02	1	00	reserved		00	
		03	1	00	reserved		00	
		04	2	00 00 – 13	Comp Attack	1ms – 40ms		
		06	2	00 00 – 0F	Comp Release	10ms – 680ms		
		08	2	00 4F – 79	Comp Threshold	-48dB – -6dB		
		0A	2	00 00 – 07	Comp Ratio	1.0 – 20.0		
		0C	2	00 00 – 7F	Comp Output Level	0 – 127		
		0E	2	00 04 – 28	EQ Low Frequency	32Hz – 2.0kHz		
		10	2	00 34 – 4C	EQ Low Gain	-12dB – +12dB		
		12	2	00 1C – 3A	EQ High Frequency	500Hz – 16.0kHz		
		14	2	00 34 – 4C	EQ High Gain	-12dB – +12dB		
		16	2	00 00	reserved			
		18	2	00 00 – 13	Noise Gate Attack	1ms – 40ms		
		1A	2	00 00 – 0F	Noise Gate Release	10ms – 680ms		
		1C	2	00 36 – 61	Noise Gate Threshold	-73dB – -30dB		
		1E	2	00 0E – 36	EQ Mid Frequency	100Hz – 10.0kHz		
		20	2	00 34 – 4C	EQ Mid Gain	-12dB – +12dB		
		22	2	00 01 – 78	EQ Mid Width	0.1 – 12.0		
		24	1	00 – 01	Noise Gate Switch	off, on	01	
		25	1	00 – 01	Compressor Switch	off, on	01	
		26	1	00	reserved		00	
		27	1	00	reserved		00	

TOTAL SIZE = 40 28 (HEX)

#### Zone parameters

Address			Size	Data Range	Parameter Name	Description	Default (HEX)	Notes
High	Mid	Low						
37	zz	00	1	00 – 3F	Transmit Channel, Target	bit 0-3: Ch 1 – 16 bit 4: MIDI off, on bit 5: TG off, on	Zone1: xx, Zone2: xx, Zone3: xx, Zone4: xx	
		01	1	3D – 43	Transpose (Octave)	-3 – +3	40	
		02	1	35 – 4B	Transpose (Semitone)	-11 – +11	40	
		03	1	00 – 7F	Note Limit Low	C-2 – G8	00	
		04	1	00 – 7F	Note Limit High	C-2 – G8	7F	
		05	1	00	reserved		00	
		06	1	00	reserved		00	
		07	1	00 – 7F	MIDI Volume	0 – 127	7F	
		08	1	00 – 7F	MIDI Pan	0 – 127	40	
		09	1	00 – 7F	MIDI Bank MSB	0 – 127	00	
		0A	1	00 – 7F	MIDI Bank LSB	0 – 127	00	
		0B	1	00 – 7F	MIDI Program Number	1 – 128	00	
		0C	1	00 – 0F	Transmit Bank Select Transmit Program Change Transmit Volume Transmit Pan	bit 0: off, on Bank Select bit 1: off, on Program Change bit 2: off, on Volume bit 3: off, on Pan	0F	
		0D	1	00 – 1F	Transmit PB Transmit FC 1 Transmit FC 2 Transmit FS Transmit Sus	bit 0: off, on PB bit 1: off, on FC1 bit 2: off, on FC2 bit 3: off, on FS bit 4: off, on Sus	1F	
		0E	1	00	reserved		00	
		0F	1	00	reserved		00	

TOTAL SIZE = 16 10 (HEX)

zz = Zone Number  
00 – 03 (HEX) Zone 1 – Zone 4



Function...	Transmitted	Recognized	Remarks	
Basic Channel	Default Changed	1 - 16 1 - 16	1 - 16 1 - 16	Memorized
Mode	Default Messages Altered	3 X *****	1 1,3 X	Memorized
Note Number : True voice		0 - 127 *****	0 - 127 0 - 127	Transpose
Velocity	Note ON Note OFF	O 9nH,v=1-127 X 9nH,v=0	O 9nH,v=1-127 X	
After Touch	Key's Ch's	X X	X X	
Pitch Bend		O	O	
Control Change	0,32 7,10,11 6,38 64 66 67 72,75 91 96-97 100-101 1-31,33-95	O O X O O O X O X X O	O O O O O O O O O O O	Bank Select Data Entry Sustain Sw Sostenuto Soft Pedal Sound Controller Effect Depth RPN Inc,Dec RPN LSB,MSB Assignable Cntrl
Prog Change : True #		O 0 - 127 *****	O 0 - 127 0 - 39	
System Exclusive		O	O	
Common : Song Pos. : Song Sel. : Tune		X X X	X X X	
System : Clock Real Time : Commands		O O	O O	
Aux : All Sound Off : Reset All Cntrls : Local ON/OFF Mes- : All Notes OFF sages: Active Sense : Reset		X X X X O X	O (120,126,127) O (121) X O (123-125) O X	
Notes:				

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

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

O : Yes  
 X : No



Yamaha Web Site (English only)  
<http://www.yamahasyth.com/>  
Yamaha Manual Library  
<http://www.yamaha.co.jp/manual/>