Appendix D Orchestral ROM

The Orchestral ROM Soundblock option adds 8 Megabytes of samples, including a full array of winds, brass, and strings. The Orchestral ROM Upgrade adds objects in the 900s bank. There you will find programs, keymaps, samples, effects, performance setups, and QA banks. All Orchestral ROM sounds can be combined with your existing 8 Megs of base sound ROM, 4 Megs of Stereo Piano ROM, and 8 Megs of (optional) Contemporary ROM.

Orchestral ROM Effects

900	Rich Delay
901	Glass Delay
902	Real Plate
903	Real Niceverb
904	ClassicalChamber
905	Empty Stage
906	Long & Narrow
907	Far Bloom
908	New Hall w/Delay
909	With A Mic

Orchestral ROM Programs

Orchestras

Orchestras	i
900	TotalCntrl Orch1
901	TotalCntrl Orch2
902	BaroqueOrchestra
903	Oboe&Flute w/Str
904	Horn&Flute w/Str
905	Trp&Horns w/Str
Winds	1 ·
906	Piccolo
907	Orchestra Flute
908	Solo Flute
909	Orchestral Oboe
910	Solo Oboe
911	2nd Oboe
912	Orch EnglishHorn
913	Solo EnglishHorn
914	Orch Clarinet
915	Solo Clarinet
916	Orch Bassoon
917	Solo Bassoon
918	Woodwinds 1
919	Woodwinds 2
Brass	
920	Dynamic Trumpet
921	Copland Sft Trp
922	Orch Trumpet
923 024	Soft Trumpet
924 025	Strght Mute Trp French Horn MW
925 926	Slow Horn
920 927	F Horn Con Sord
928	F Horn a2 MW
929	French Horn Sec1
930	French Horn Sec2
931	Solo Trombone
932	Tuba
933	Dyn Hi Brass
934	Dyn Lo Brass
935	Dyn Brass & Horn
936	Soaring Brass
Solo String	
937	MarcatoViolin MW
938	Solo Violin
939	2nd Violin
940	Orch Viola
941	Solo Viola
942 042	Slow Viola
943 944	Marcato Cello MW
944 945	Solo Cello Slow Cello
945 946	Arco Dbl Bass
940 947	Slow Arco Bass
947 948	Brt Dbl Bass
/10	

Section Strings 949 Touch Strings 950 Fast Strings MW 951 Chamber Section 952 Sfz Strings MW 953 Sweet Strings 954 Baroque Strg Ens 955 Big String Ens 956 **Bass String Sec** 957 Pizzicato String 958 Wet Pizz 959 Arco & Pizz **Plucked Strings** 960 **Classical Guitar** 961 Virtuoso Guitar 962 Acoustic Bass 963 Snappy Jazz Bass 964 Dynamic Harp 965 Harp w/8ve CTL 966 Harp Arps **Keyboards** 967 Celesta 968 Pipes 969 Pedal Pipes 970 Church Bells Percussion 971 Glockenspiel 972 Xylophone 973 Chimes Timpani/Chimes 974 975 Timpani 976 Timpani & Perc 977 Big Drum Corp 978 Orch Percussion1 979 Orch Percussion2 980 Jam Corp 981 Conga & Perc 982 Woody Jam Rack 983 Metal Garden 984 Hot Tamali Kit 985 Funk Kit Synths 986 Magic Guitar 987 Glass Bow 988 Synth Orch 989 Nooage InstaHarp 990 AC Dream 991 Synth Dulcimer 992 Glistener 993 Afro Multi CTL 994 Tranquil Sleigh 995 Batman Strings 996 Ethnoo Lead 997 Orch Pad CTL 998 Choral Sleigh 999 Pad Nine

Orchestral ROM Keymaps

Reeds			
900	Oboe	948	Lite Metal
900 901	English Horn	949	Woody Perc
902	Bassoon	950	Celeste
902	Clarinet	Pluck	Celesie
904	Bassoon/Oboe	951	Plucked Harp
90 4 905	Bsn/EHrn/Oboe	952	Harp Gliss
906	Flute 2	953	Nylon String Gtr
907	Eng Horn/Oboe	954	Nylon Str noA2
Brass	Ling Hollit/ Oboe	955	Nylon for dulc
910	Soft Trumpet	957	Acoustic Bass
910 911	French Horn	960	Pizz Strings
912	French Hrn Sec	961	Full Kbd DblBass
912	Tuba	Strings	i uli Roa Dolbass
914	Tuba/Horn	962	Solo Violin
915	Tuba/Hrn Sec	963	Solo Viola
916	Tuba/Sft Trmpt	964	Solo Cello
917	Trombet	965	Fast Solo Cello
918	Trumpbone	966	Solo Double Bass
919	Trombone/SftTrmpt	967	Bass/Cello
Orchestral Pe		968	Bass/Cello/Vio
920	Timpani	969	Cello/Vla/Cello
920 921	Snare Roll	909 970	Cello/Vla/Vln
921	Share Kon Snare Hit	970 971	Ens Strings 2
923	Orch Bass Drum	971	Solo Section 1
923 924	Orch Crash	972	Solo Section 2
924 925	Tam Tam	973 979	
926		Waveforms	BassDrum/Timp
927	Triangle Tambourine Roll	980	Organ Wave 8
927 928	Tamb Hit	980 981	Buzz Wave 2
928 929	Sleigh Bells	981	Ahh Buzz Wave
929 930	Woodblock	982	OB Wave 1
930 931	Low Clave	983 984	OB Wave 2
932	Castanet Hit	985	OB Wave 3
933	Castanet Up	Variations	OB Wave 5
934	Dry Snares	986	Tenor tune alt
935	Amb Snare	987	Dual Ride 1
936	Bass Drums	988	Black Fills C
937	Orch Perc Units	989	Orc Perc Preview
938	Orch Perc Full	990	<gm>Standard Kit</gm>
939	Misc Percussion	990 991	<gm>Orch Kit</gm>
939 940	2Hand Amb Kit	992	Castanets x 3
940 941	2Hand Dry Kit	992	Tambourine x 3
942	2H Kit Unit1	993 994	Black Fills B
942	2H Kit Unit2	994 995	Black Fills A
943 944		995 996	2HandDrumCrp NB
944 945	Xylophone Clackonspiel	996 997	
945 946	Glockenspiel		Sleigh Loop
740	Chimas	000	Ro Drm Rumblo
947	Chimes 2Hand DrumCorp	998 999	Bs Drm Rumble Church Bell

Note: Items in **bold** represent the primary keymap for each instrument.

Orchestral ROM Samples

900 901 902	Oboe English Horn Bassoon
903	Clarinet
904	Dbl Reeds
910	SoftTrump
911	French Horn
912	FrenchHrnSect
913	Tuba
914	Synth Accord
915	Tuba % Horn
920	Timp
921	Snare Roll
922	Snare Hit
923	Orch Bass
924	Orch Crash
925	Tam Tam
926	Triangle
927	Tamb Roll
928	Tamb Hit
929	Sleigh Bells
930	Woodblock
931	Low Clave
932	Castanet Hit
933	Castanet Up
934	Bi TamTam <v2.0></v2.0>
935	Orch Crash ignf
937	Dark Triangle
938	MuteTriangle
939	Triangle (rel)
944	Xylophone
945	Glockenspiel
946	Chimes
950	Celeste

951	Harp
953	Nylon String Gt
957	Acoustic Bass
960	Pizz Strings
962	Solo Violin
963	Solo Viola
964	Solo Cello
965	Fast Solo Cello
966	Solo Double Bass
967	Conga Tone ingrl
968	Amb Kick 3 va
980	Organ Wave 8
981	Buzz Wave 2
982	Ahh Buzz Wave
983	OB Wave 1
984	OB Wave 2
985	OB Wave 3
988	Jackhammer
989	Scratch
990	Zap 1
991	Alarm Bell
992	Deep House Clave
993	China Crash
994	Dry Sidestick
995	Med Open Hi Hat
996	Syn Vibra Stick
997	Sleigh Loop
998	BD Rumble <v2.0></v2.0>
999	Church Bell

The preset programs in the K2500 Orchestral ROM are organized by category. You can either use them as they are or as a good starting point for your own work. There are many ways to put expressivity and variety in a single program by assigning MIDI controllers to the various DSP functions in its layers. This list describes how each of the preset programs can be modulated or altered by the various MIDI controls. Only those controls which may not be immediately evident are listed. Controls such as attack velocity and keynumber are understood to be assigned to most programs.

Prg #	Program Name	Mod Wheel	Data	MPress	Comments
	Pianos				
788	Piano Trio		Ride cymbal fade	Vibrato - Bass	
789	Pno & Syn String	String fade	String swell		
790	Fluid Grand		Wet/Dry mix		
791	Haunted Piano	Harp balance	Wet/Dry mix		
792	Xylopiano	Release ctl	Wet/Dry mix		
793	Grand,Harp&Lead	Lead tremolo	Lead fade	Lead tremolo	Sustain pedal does not affect the lead sound
	Orchestras				
900	TotalCntrl Orch1	Layer bal	Adds brass & flute, boosts strings	Swell (trp out - ww solo)	
901	TotalCntrl Orch2	Layer bal, adds harp	Layer balance, adds horns/cuts woodwinds	Swell	
902	BaroqueOrchestra	None	None	Swell	Sost ped disables brass
903	Oboe&Flute w/Str	Strings fadeout	Disables strings	None	
904	Horn&Flute w/Str	Strings fadeout	Disables strings	None	
905	Trp&Horns w/Str	Strings fadeout	Disables strings	None	
	Winds				
906	Piccolo	None	Wet/Dry mix	None	
907	Orchestral Flute	Envelope control (slower)	Wet/Dry mix	None	
908	Solo Flute	Timbre (brighter)	Wet/Dry mix	None	
909	Orchestral Oboe	Swell	Wet/Dry mix, rate & depth	Vibrato	
910	Solo Oboe	Vibrato off	Wet/Dry mix	Swell	
911	2nd Oboe	Vibrato off	Wet/Dry mix	Swell	
912	Orch EnglishHorn	Swell	Wet/Dry mix, rate & depth	Vibrato	

Prg #	Program Name	Mod Wheel	Data	MPress	Comments
913	Solo EnglishHorn	Vibrato off	Wet/Dry mix	Swell	
914	Orch Clarinet	Swell	Wet/Dry mix	Vibrato depth	
915	Solo Clarinet	Swell	Wet/Dry mix	Swell	
916	Orch Bassoon	Swell	Wet/Dry mix	Vibrato depth	
917	Solo Bassoon	Vibrato off	Wet/Dry mix	Swell	
918	Woodwinds 1	None	Wet/Dry mix	None	
919	Woodwinds 2	None	Wet/Dry mix, rate & depth	Swell, vibrato	
	Brass				
920	Dynamic Trumpet	Swell	Wet/Dry mix	Vibrato depth	
921	Copland Sft Trp	Vibrato off	Wet/Dry mix	Swell	
922	Orch Trumpet	Timbre (darker)	Envelope Control	Swell, vibrato rate & depth	
923	Soft Trumpet	None	Wet/Dry mix	Vibrato depth	
924	Strght Mute Trp	Vibrato off	Wet/Dry mix	Swell	
925	French Horn MW	Timbre (brighter)	Wet/Dry mix	Vibrato rate & depth	
926	Slow Horn	Vibrato	Wet/Dry mix	None	
927	F Horn Con Sord	Timbre (brighter)	Wet/Dry mix	Vibrato depth	
928	F Horn a2 MW	Timbre (brighter)	Wet/Dry mix	None	
929	French Horn Sec1	None	Wet/Dry mix	Slight swell	
930	French Horn Sec2	None	Wet/Dry mix	Swell	
931	Solo Trombone	Selects legato layer	Wet/Dry mix	Slight swell when MW is off	
932	Tuba	Vibrato rate & depth	Wet/Dry mix	Vibrato rate & depth	
933	Dyn Hi Brass	Swell, legato	Wet/Dry mix	Swell	
934	Dyn Lo Brass	Swell, legato	Wet/Dry mix	Swell	
935	Dyn Brass & Horn	Timbre (darker)	Wet/Dry mix	None	
936	Soaring Brass	None	Wet/Dry mix	None	
	Solo Strings				
937	MarcatoViolin MW	Spiccato articula- tion	Wet/Dry mix	Vibrato rate & depth	
938	Solo Violin	Delays auto- vibrato	Wet/Dry mix	Vibrato rate & depth	
939	2nd Violin	Envelope control	Wet/Dry mix	Vibrato rate	
940	Orch Viola	Release time (shorter)	Wet/Dry mix	Vibrato depth	

Prg #	Program Name	Mod Wheel	Data	MPress	Comments
941	Solo Viola	Delays auto- vibrato	Wet/Dry mix	Vibrato rate & depth	
942	Slow Viola	Timbre (darker)	Wet/Dry mix	Swell, vibrato rate & depth	
943	MarcatoCello MW	Spiccato articula- tion	Wet/Dry mix	Vibrato rate & depth	
944	Solo Cello	Delays auto- vibrato	Wet/Dry mix	Vibrato rate & depth	
945	Slow Cello	Timbre (brighter)	Wet/Dry mix	Vibrato rate, swell	
946	Arco Dbl Bass	Bass boost	Wet/Dry mix	Vibrato depth	
947	Slow Arco Bass	Delays auto- vibrato	Wet/Dry mix	Swell, vibrato rate & depth	
948	Brt Dbl Bass	Decrescendo	Wet/Dry mix	Vibrato rate	
	Section Strings				
949	Touch Strings	Timbre (brighter)	Envelope Control	Swell	
950	Fast Strings MW	Selects faster strings	Timbre (darker), Wet/Dry mix	Swell	
951	Chamber Section	None	Wet/Dry mix	Vibrato depth	
952	Sfz Strings MW	Tremolo	None	Swell	
953	Sweet Strings	Fade out	Wet/Dry mix	Vibrato depth	
954	Baroque Strg Ens	Bass boost, layer delay	Wet/Dry mix	Swell	
955	Big String Ens	None	Wet/Dry mix	Swell	
956	Bass String Sec	Bass boost on solo layer	Wet/Dry mix	None	
957	Pizzicato String	Timbre (darker)	Wet/Dry mix	None	
958	Wet Pizz	Treble boost	Wet/Dry mix	None	
959	Arco & Pizz	Timbre (brighter), layer balance	Enables 2nd string layer, stereo pan- ning	Swell	
	Plucked Strings				
960	Classical Guitar	Fade/disables key-up layer	Wet/Dry mix	None	
961	Virtuoso Guitar	Vibrato rate & depth	Wet/Dry mix	None	Sost ped enables sta- cato envelope
962	Acoustic Bass	Vibrato rate & depth	Wet/Dry mix	None	
963	Snappy Jazz Bass	Vibrato rate & depth	Pitch of snap, disables ride	Vibrato rate & depth	Sost ped disables ride cymbal

Prg #	Program Name	Mod Wheel	Data	MPress	Comments
964	Dynamic Harp	Release time (longer)	Wet/Dry mix	None	
965	Harp w/8ve CTL	Brightness	Enables octave	None	
966	Harp Arps	None	Selects diminished	None	
	Keyboards				
967	Celesta	None	Wet/Dry mix	None	
968	Pipes	Timbre (hollow)	Wet/Dry mix	None	
969	Pedal Pipes	None	None	None	
970	Church Bells	Distance	Timbre (brighter)	None	
	Percussion				
971	Glockenspiel	None	Wet/Dry mix	None	Sus ped enables key- up layer (for rolls)
972	Xylophone	Timbre (fuller)	Wet/Dry mix	None	Sus ped enables key- up layer (for rolls)
973	Chimes	None	Wet/Dry mix	None	
974	Timpani/Chimes	Alt attack (timp)	Wet/Dry mix	None	
975	Timpani	Alt attack	Wet/Dry mix	None	Sus ped enables key- up layer (for rolls)
976	Timpani & Perc	Alt attack (timp)	None	None	Sost ped enables bass drum. Sus ped damp- ens.
977	Big Drum Corp	None	Enables both fill layers (black keys: f#3-a#4)	None	Sost ped switches lay- ers. Sus ped dampens.
978	Orch Percussion1	None	Switches fill layers	None	Sus ped dampens
979	Orch Percussion2	None	Wet/Dry mix	None	Sus ped dampens
980	Jam Corp	Alt attack	Pitch control (black keys: f#3-a#4)	None	
981	Conga & Perc	Pitch control	Wet/Dry mix	None	
982	Woody Jam Rack	Pitch control up to 1200ct	Enables random drum layer	None	
983	Metal Garden	Pitch control up to 1200ct	Pitch control down to -1200ct	None	
984	Hot Tamali Kit	Tunes drums, alt atk on snares	Switches to old drum map	None	
985	Funk Kit	Tunes drums	Switches to old drum map	None	

Prg #	Program Name	Mod Wheel	Data	MPress	Comments
	Synths				
986	Magic Guitar	Vibrato depth	Layer balance	Vibrato depth	
987	Glass Bow	Vibrato depth	None	Vibrato depth	
988	Synth Orch	Filter modulation	None	Vibrato depth	
989	Nooage InstaHarp	Vibrato depth	Echo rate	Vibrato depth	
990	AC Dream	Vibrato depth	Enables bell layer	Vibrato depth	
991	Synth Dulcimer	Filter modulation	Wet/Dry mix	None	Sus ped dampens
992	Glistener	Vibrato depth	None	Vibrato depth	
993	Afro Multi CTL	None	Pitch control	None	
994	Tranquil Sleigh	Panner rate	Bandpass width	None	
995	Batman Strings	Vibrato depth	None	Vibrato depth	
996	Ethnoo Lead	Vibrato depth	Pitch control	Vibrato depth	
997	Orch Pad CTL	Vibrato depth	Filter cutoff	None	
998	Choral Sleigh	Sleigh play	None	None	
999	Pad Nine	Vibrato depth	Filter cutoff	None	

Version 2 Orchestral ROM Setups with Controller Assignments

A setup is a combination of eight zones, each having its own MIDI channel and controller assignments. Designed initially for models with built-in keyboards, setups can be played on K2500R via the Local Keyboard Channel feature: Find this parameter in MIDI mode on the RECV page, change it from None to a channel of your choice, and set your controller to send on only that channel. Now, any notes or MIDI controller data that come in on that channel will be re-mapped according to the display channel (in program mode) and according to the setup (in Setup mode).

To take advantage of Version 2's eight zone setup capability, there are 51 new setups in the Version 2 Orchestral ROM Objects. You will find unique internal program combinations, arpeggiator examples, and special ribbon and controller functions. With as many as 24 assignable controllers shared among 8 independent zones, K2500 MIDI setups can be quite powerful, and they require some experimentation to find all their features and nuances. In order to make this process easier, many setups are programmed according to the certain conventions. The sliders generally provide mixing capabilities either as group faders or individual zone faders. They also provide control over timbre, effects mix, and clock tempo. Other conventions include:

<u>Controller</u>	<u>Default</u>
Slider G:	Wet/Dry mix
Slider H:	Tempo
PSw 1:	Arp on/off
Psw 2:	Latch2
Footswitch 1:	Sustain
Footswitch 2:	Sostenuto
Footswitch 3:	Soft Pedal
Large Ribbon:	Pitch
Small Ribbon Press:	Mono Pressure
Small Ribbon Lin:	Pitch
Mod Wheel:	Mod Wheel
MPress:	MPress

These are the Setups provided in the Orchestral ROM:

900	Deep Piano Rbn	Sliders A-C: zone faders; Lg Rib : fx depth, arp vel & pan (celeste); ModWhl: sleigh mod; PSw2: zone mute (celeste)
901	Choir & Harp	Sliders A-B: zone faders; FootSw1: arp latch; FootSw2: zone mute; Lg Rib: tempo; PSw2: harp octave
902	Orchestrator	Sliders A-D: zone faders, Slider F: key vel cym roll; FootSw3 solos vox pad; Lg Rib: cym roll; ModWhl: low string balance
903	Piano Concerto	Sliders A-D: group faders; FootSw1: mutes pizz; PSw1: piano solo
904	Xmas Carols	Sliders A-D: group faders
905	Sideline Perc	Sliders A-D: group faders, Slider F: key vel cym roll; FootSw1: glock roll; Lg Rib: cym roll; PSw1 & 2: mute groups

906	TonalGroov C5->	Sliders A-D: zone faders; FootSw1: latch; ModWhl: enables shaker & detunes conga; PSw1: mute group
907	Exotic Grooves	Sliders A-D: zone faders; FootSw1: arp latch; ModWhl: percussion pitch; PSw1: mute group
908	Lunar Harp	Sliders A-D: zone faders; Lg Rib: detuned harps; ModWhl: sleigh mod
909	Themes	Sliders A-D: zone faders; FootSw2: arplatch; Lg Rib: string & choir Xfade; ModWhl: string balance
910	Wet Piano	Sliders A-C: zone faders; ModWhl: pad balance
911	enter the Jester	Sliders A-D: group faders; Slider E: string balance; Lg Rib: glockenspiel trigger; ModWhl: vibrato disable
912	Tap the Jester	Sliders A-E: zone faders; Lg Rib: glockenspiel trigger
913	Hybrid Strings	Sliders A-C: zone faders, Slider D: synstring balance
914	Wonderous Spaces	Sliders A-D: zone faders; Lg Rib: pad balance & sleigh pitch
915	Metal Orch Pad	Sliders A-C: zone faders, Slider F: key vel (bells); Lg Rib: bell trigger; ModWhl: bell balance
916	Toon prs	Sliders A-D: zone faders, Slider F: key vel (glock); Lg Rib: glockenspiel trigger, pitch (perc); PSw2: group mute; Press: tempo
917	Tranquil Sea	Sliders A-D: zone faders, Slider E: piano detune; ModWhl: sleigh mod
918	Sick Clock Jam	Sliders A-E: zone faders; ModWhl: pitch bend clock sounds, filter mod bass; PSw1: arp latch
919	Orc Split	Sliders A-B: zone faders; ModWhl: RH string balance
920	Baroque Brass	Sliders A-B: zone faders; Lg Rib: MPress
921	Unison Orchestra	Sliders A -D : group faders,; FootSw1: winds solo, FootSw2: pizz; PSw1: triggers cymbal cras; PSw2: pizz
922	Unison w/Pizz	Sliders A-F: zone faders; FootSw: 1 winds solo
923	Switch Orchestra	Sliders A-E: group faders; Lg Rib: timpani roll (to B3); PSw1 & PSw2: mute group; MPress: timpani roll (to B3)
924	Pizz/Str/Winds	Sliders A-E: zone faders; Lg Rib: timbre ctl
925	Harp Arps Cmaj	Slider A: zone fader, Slider B: keyvel, Slider C: harp octave enable; FootSw1: arp latch, FootSw2: latch2; Lg Rib: harp arps; ModWhl: harp filter; PSw2: ribbon arpeggio select
926	Desert Bloom E1	Sliders A-F: zone faders; PSw2: zone mute (aux. percussion)
927	Exotic Charge	Sliders A-C: zone faders; ModWhl: timbre ctl
928	ET Comes Home	Sliders A-B: group faders; FootSw: 1 arp latch; Lg Rib: Expression (harp arpeggios); ModWhl: string balance

Orchestral ROM

About the Control Setup

929	Fanfare Orch	Sliders A-C: group faders; Lg Rib: snare & timp roll (G1-F#2); ModWhl: low brass balance; PSw1: disagle snare & timp roll, PSw2: triggers Tam Tam; MPress: snare roll (G1-F#2)
930	Switch Orch 2	Sliders A-D: zone faders; ModWhl: fades woodwinds; PSw1: mute group, PSw2: timbre select
931	Orbiting Venus	Sliders A-D: group faders; ModWhl: pad LFO rate; PSw1: zone mute
932	Glass Dulcimer	Sliders A-D group faders, Slider F: keyvel; Lg Rib: syn. dulcimer note trigger; ModWhl: syn. dulcimer envelope filter
933	Hybrid Reeds	Sliders A-B: zone faders
934	Two Hand Pizz	Sliders A-D: zone faders; ModWhl: pizz timbre
935	Slo Str & Horn	Sliders A-B: group faders; ModWhl: string fade
936	Pianist Band	Sliders A-E: zone faders; Velocity triggers left hand kicks and RH snares
937	Prepared Pianos	Sliders A-C: zone faders
938	FSW1 solo winds	Sliders A-F: zone faders; FootSw1 holds strings & solos winds; ModWhl: string fade
939	Strings&Winds	Sliders A-F: group faders
940	Str Ens Solo MW	Sliders A-E: zone faders; ModWhl: solo strings; PSw2: slow passages
941	Pno&Vox&Pizz	Sliders A-E: group faders; ModWhl: timbre ctl
942	Down Wind SmRbn	Sliders A-D: zone faders; Sm Rib Press: wind trigger; Lg Rib: wind speed; PSw1: wind sost ped, PSw2: guitar/piano select
943	Guitar & Piano	Sliders A & B: group faders; ModWhl: disables classical guitar release noise
944	Cirrus 9	Sliders A-C: group faders; Slider D: harp octave enable; FootSw2: latch2; Lg Rib: pad filter ctl; PSw2: mute group
945	Dry Plucks	Sliders A-C: zone faders
946	String Collage	Sliders A-C: zone faders; ModWhl: string ensemble timbre
947	Esoterica	Sliders A-E: zone faders; MPress: sound f/x expression
948	Poseidon	Sliders A & B: group faders
949	Stalkers	Sliders A-C: group faders; FootSW: 1 arp latch; ModWhl: bell/percussion pitch bend
950	Diabolic Trickle	Sliders A-C: group faders; FootSw: 1 arp latch; Lg Rib sec: 1: bell pitch bend, sec 2: explosion mod, sec 3: explosion pitch; ModWhl: pad timbre; PSw2: explosion trigger

About the Control Setup

The default Control Setup (97 Control Setup) has been updated. Sliders B-H are now assigned to MIDI controller numbers 22-28. CC pedal 1 is now assigned to MIDI controller 4. These default settings will make it easier to assign control sources from within the Program editor.

Mirror Image Drum Map

The Mirror Image Drum Map is a drumkit layout that enables a natural two-hand style of playing. The Mirror Image Drum Map gets its name by its instruments being laid out in a mirror image of itself with D4 being the point of reflection.

Getting Started

Play the key, D4. You'll notice that snare drum is assigned to it. From there, play 1 semitone down (C#4), and up 1 semitone (D#4). Notice that the two are the same snare drum. Play 2 semitones down (C4) and up 2 semitones (E4). Notice that the same bass drum is assigned to both keys. (Bass drum is also repeated on E3 and C4, which is particularly useful in fast double bass drum playing.) Notes 3 semitones down, and up 3 semitones, have the same hi-hat, etc.

There are, however, two instances – G4 and E6 – where the left and right sides do not match. They deviate from the mirror image scheme to accommodate the more familiar one hand playing of hi-hat and tambourine.

The layout of the drums and various percussion instruments are easy to remember. Just keep in mind that the basic drumkit consisting of Snare, Bass Drum, Toms, and Cymbals are in the range of C3-E5, or the "inner core" range. The two remaining ranges (C2-B2 and F5-C7) which extend out to the left and right edges of the keyboard make up the "outer edge" range, and will generally consist of auxiliary percussion instruments. This "inner" and "outer" range structure is also maintained in the drum corps programs (#977, #980) and orchestral percussion programs (#978, #979).

It is easy to memorize the placement of instruments if you think of the double and triple groupings of the black keys as one instrument or instrument type. Look at the center group of black keys, C#4 and D#4. Think of that grouping as the snare drum. Fanning out on both sides to the next group of black keys, F#3, G#3, A#3 on the left hand side, and F#4, G#4, A#4 on the right hand side, are the toms. Fanning out farther to the next set of double black keys are the cymbals. The next set of triple black keys are the timbales, and the next set of double black keys are the congas. The four white keys under the toms are the hi-hats.

In the "outer edge" range, white keys are generally hand-held percussion toys or various useful articulations of the congas laid out such that one can play typical conga patterns with one hand.

Try playing in a straight eighth note beat D#2, E2, F2, D#2, E2, F2, C2, C#2 and repeat. For easy right-hand tambourine playing, try playing in the same eighth note beat C7, A6, E6, C7, A6, E6, C7, A6 and repeat. Now combine the left-hand conga part and the right-hand tambourine. A combination of easily fingered patterns will often yield a useful rhythm section.

Sostenuto Pedal

One more bonus was added to the drumkit programs—the sostenuto pedal. Just hold down the sostenuto pedal and again play in a steady eighth note beat E3, G3, A3, B3, G3, A3, B3, G3 and repeat. The sostenuto adds percussion to the white keys ranging from F3 to C4, and C#4.

Sticking

The Mirror Image Drum Map lets you simulate the sticking that a real drummer would use. Try playing a tom tom fill from hi tom to low tom using a paradiddle sticking (RLRRLRLL). This should be very easy to execute with minimal physical motion. The symmetrical inwardoutward motion also feels comfortable and smooth. Doubling or layering of instruments while maintaining the beat is as easy as grabbing chords. A good example of this can be illustrated with program 977, "Big Drum Corps".

Play a steady repeating sixteenth note snare drum pattern with your left and right thumbs alternating on the keys, C#4 and D#4. Keep that same left, right, left, right hand motion going but simply add your index fingers to play the next black keys which would be A#3 in the left hand and F#4 in the right hand. Finally, add the ring finger for the low tom on F#3 and A#4. If you look at your hands now the right hand is making an E flat minor chord and its mirror image chord, F# Major, is in the left hand. After playing with the drum programs you'll notice how easy it is to play multiple drums in unison or to add or drop a tom or crash cymbal while maintaining a continuous flow of rhythm.

For those of you who prefer the old Kurzweil drum map for the drumkit programs, it is available on the Controller slider.

Drumkit Programs: 984, 985

Drum Corps Programs: 977, 980

Orchestral Percussion Programs: 978, 979