

# *Sound Manual*

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MUSIC PRODUCTION SYNTHESIZER

**SD1**  
**3 2 VOICE**

**ensonia®**

**SD-1 32 Voice: 1.00**

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If you have any questions concerning your ENSONIQ SD-1 32 Voice, please contact your authorized ENSONIQ dealer. For additional technical support, or to find the name of your nearest authorized ENSONIQ repair station, call ENSONIQ customer service at (215) 647-3930.

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**THE  
ENSONIQ  
SD-1 32 Voice**

**MUSIC PRODUCTION  
SYNTHESIZER**

### **What is DYNAMIC COMPONENT SYNTHESIS?**

For many musicians the process of shaping distinctive sounds involves combining elements from many sources; multiple synthesizers, samplers, and acoustic instruments all processed by digital effects. ENSONIQ has now incorporated this technique into this amazing keyboard. The ENSONIQ SD-1 32 Voice.

The ENSONIQ SD-1 32 Voice uses two new VLSI chip designs to offer complete flexibility in sound generation. By defining each component of a sound and allowing them to interact dynamically with the full complement of processing tools, from waves to digital effects, you have the power of six independent synthesizers in one.

Simply defined, DYNAMIC COMPONENT SYNTHESIS is a unique sound generation process that combines carefully selected waves with dynamically controlled digital signal processing.

### **What is a VOICE?**

An SD-1 voice is the building block from which sound programs are created. Each voice has 15 modulation sources, pitch range, programmable wave delay, 2 independent multi-mode dynamic digital filters, 3 eleven stage envelope generators with velocity, and keyboard tracking, 1 low frequency oscillator with delay and modular rate (seven possible wave shapes), pitch table, modular panning, and output routing to one of the three\* stereo busses (FX1, FX2, DRY).

*\*The Aux outputs provide an additional dry stereo buss on the SD-1.*

### **What is a SOUND PROGRAM?**

An SD-1 sound program is a dynamic structure made up of six voices and an effects setting. The two exclusive Patch Select buttons determine which of the six voices will play at any given time.

### **What is a DRUM PROGRAM?**

An SD-1 drum program can use up to 63 waves per program, with separate pitch, volume, panning, and destination voice programmed for each wave.

### **What is a PERFORMANCE PRESET?**

An SD-1 performance preset is a combination of three sound programs and an effects set-up which can be instantly recalled for use in performance. Presets are handy "performance memories" which can allow you to create and save sound program combinations, splits, layers, and patch select combinations. The SD-1 contains 60 pre-programmed performance presets. After playing through each of the 180 sound programs we suggest you take some time to explore each of the sixty performance presets.

## Selecting a Sound Program

To select an SD-1 32 Voice sound program:

- Press **SOUNDS**.
- Press one of the 10 Bank buttons below the display (numbered 0-9) to select a bank of six sound programs. The display shows you the names of the six sound programs in each bank.
- Press the button above or below any of the six sound program names to select that program as the current sound. Try selecting and playing a few different sounds. Notice that when you select a sound program, its name is underlined. The currently selected program is always underlined.

## Choosing Internal, ROM 0, ROM 1 and Cartridge Sounds

The **BankSet** button is used to choose between internal, ROM, and cartridge sounds. The status of the **BankSet** LED (whether it is off, on, or flashing), along with the display, tells you where you are at any given time. Press **Sounds**. Then:

- To select internal sounds, the **BankSet** LED should be off (unlit). If it is on or flashing, press **BankSet** until it is off. The display indicates INT followed by the bank # in the upper left corner.
- To select ROM 0 sounds, press the **BankSet** button again. The **BankSet** LED *flashes*, and the display indicates RM0 followed by the bank # in the upper left corner.
- To select ROM 1 sounds, press the **BankSet** button again. The **BankSet** LED remains *flashing*, and the display indicates RM1 followed by the bank # in the upper left corner.
- To select cartridge sounds, press the **BankSet** button. The **BankSet** LED lights, and the display indicates CRT followed by the bank # in the upper left corner (note that a VPC-100 Series cartridge or STOR-CART 32 (STC-32) must be inserted in before cartridge sounds can be selected and played).

## Layering (stacking) a sound with the selected sound

To layer (or stack) any program with the currently selected sound program, *double-click* the soft button corresponding to the sound name on the display. The underline beneath the name of the layered sound will *flash* and you will hear both sounds playing together.

Up to three sound programs (one selected and two layered with it) can be active at once. To de-select a layered sound press its soft button again and the flashing underline will disappear. If you already have two-programs layered with the primary sound program, and you double-click on a fourth sound, that sound will replace the most recently selected sound program in the stack (layer).

You can layer any combination of Internal, ROM 0, ROM 1, or Cartridge sounds programs. Also, the sounds which are layered do not have to be in the same bank.

For more detailed information on operating and using the SD-1 32 Voice we suggest you consult your SD-1 32 Voice Musician's Manual.

## VSD-201 Disk Contents

Congratulations on the purchase of the SD-1 32 Voice Music Production Synthesizer. As you are about to see and hear, the SD-1 32 Voice will unleash your creative potential in an integrated, user-friendly workstation environment.

The VSD-201 disk which comes with your SD-1 32 Voice contains a wealth of information, including over 500 sound programs, organized in such a way as to help you become familiar with the various file types and disk operations offered by the SD-1 32 Voice.

You should make a backup copy of the VSD-201 disk as soon as possible. Then store the original in a safe place and use the copy for your everyday work. See the SD-1 32 Voice *Musician's Manual* for a description of the Copy Disk function.

The VSD-201 disk contains the following disk files:

<u>File Type</u>	<u>File Name</u>	<u>Description</u>
1-PROGRAM .....	WOW-SOUND .....	a big, dramatic sound that continues to unfold for as long as you hold down a note
	<12 DRUM KITS> ...	12 additional drum kits saved as individual programs (see the SD-1 32 Voice <i>Musician's Manual</i> for information on saving the sound from the Write page after loading a 1-Program file).
6-PROGRAM .....	<10 BANKS> .....	these ten 6-Program files contain the 60 original VFX <sup>SD</sup> Internal RAM sounds reorganized into categories so that you can, for example, easily load just the bass sounds, or keyboard sounds, etc.
	TINE-PIANOS .....	this one 6-Program file contains 6 additional electric piano sounds using the new EPNO and PIANO-16 waves.
30-PROGRAM .....	ADD-VFX-ROM .....	the 30 programs from the ROM memory of the VFX which are not contained in the VFX <sup>SD</sup> Internal or ROM program memory
60-PROGRAM .....	SD1-INT .....	a backup of the SD-1 Internal RAM sounds
	SD1-ROM-0 .....	a backup of the SD-1 ROM-0 sounds
	SD1-ROM-1 .....	a backup of the SD-1 ROM-1 sounds
	VFXSD-INT .....	the 60 VFX <sup>SD</sup> II Internal RAM sounds
	VFXSD-ROM .....	the 60 VFX <sup>SD</sup> II ROM sounds

<u>File Type</u>	<u>File Name</u>	<u>Description</u>
60-PROGRAM .....	KEYS 1- 60 .....	60 keyboard-type sounds to aid you in finding the right sound for any type of music
	VSD-1000-C .....	60 Drum kits taken from the optional VSD-1000 sound disk. The VSD-1000 contains over one thousand sounds, and is available from your authorized ENSONIQ dealer.
	ADD-VPC-100 .....	contains 42 additional programs from the Internal RAM memory of the VFX (note that banks 7-9 contain "blank" program locations)
	ADD-VPC-101 .....	contains 41 additional programs from the VPC-101 program cartridge (note that banks 7-9 contain "blank" program locations)
20-PRESETS .....	SD1-PST-INT .....	a backup of the 20 SD-1 Internal RAM Presets
	SD1-PST-RM0 .....	a backup of the 20 SD-1 ROM-0 Presets
	SD1-PST-RM1 .....	a backup of the 20 SD-1 ROM-1 Presets
	VFXSD-PST-I .....	contains the 20 VFX <sup>SD</sup> Internal RAM Presets
30 SEQ/SONG .....	<6 FILES> .....	these "BONUS BEATS" drum patterns feature various musical styles to help you compose new music. Different drum patterns and fills have been recorded by a real drummer into the sequencer to give you the functions of a drum machine in your keyboard.
60-SEQ/SONG .....	<4 FILES> .....	four 60-SEQ/SONG files entitled SD1-PALETTE, PETROUCHKA*, COUNTRY-*, CLASS-PNO-*, and BASSICS-* which contain a variety of demo sequences and songs
SEQUENCER OS ...	VERSION X.XX .....	a disk file containing the most current version of the SD-1 Sequencer Operating System (see the SD-1 32 Voice <i>Musician's Manual</i> for more information on loading the Sequencer O.S.)

**PROGRAM NAME: DYNAMIC-GND**

EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

This sound demonstrates the voice architecture of the SD-1 and features various 16-bit waveforms to create the most dynamic grand piano you may ever hear.

**MODULATORS**

POLY KEY: N/A  
MOD WHEEL: Acts as the soft pedal.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases the volume and brightness.

**PATCH SELECTS**

oo The full range of a dynamic grand piano.  
ox An octave lower.  
xo Similar to ox, but with a full range and a stronger attack.  
xx N/A

**PROGRAM NAME: RUDE-GUITAR**

EFFECT TYPE: LPF+Dist+Chor+Rev  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

A rude guitar as nasty as it wants to be. Use the pitch wheel for whammy-bar effects.

**MODULATORS**

POLY KEY: Adds vibrato.  
MOD WHEEL: Drops the pitch by over an octave.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls filter resonance.  
VELOCITY: Increases the rude attack.

**PATCH SELECTS**

oo RUDE-GUITAR.  
ox Emphasizes the harmonic overtones.  
xo A muted or dampened effect.  
xx Hold the key down and listen to the feedback! Velocity controls the rude component.

**PROGRAM NAME: I-AM-ALIVE**

EFFECT TYPE: CHORUS+REVERB.1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

Play a single note in the C3 area, close your eyes and enjoy. You can play a second note to create new harmonies and keep the groove alive.

**MODULATORS**

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls filter cut-off of pad.  
VELOCITY: Increases volume.

**PATCH SELECTS**

oo The SD-1 fully alive!  
ox Chords only.  
xo Rhythm and bass only.  
xx Chords and percussion.

**PROGRAM NAME: STACKED**

EFFECT TYPE: 8 Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

This is a highly dynamic sound program. From pressure to patch selects to effect, STACK 1 shows how flexible the programming of the SD-1 can be.

**MODULATORS**

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds a sawtooth voice.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: N/A

**PATCH SELECTS**

oo Several voices stacked.  
ox Similar to 00 without the bell component.  
xo Variation on 00 without the strings.  
xx Strings and bells. Listen to what the mod wheel does on this patch.

**PROGRAM NAME: WARM-BOWS**

EFFECT TYPE: 8 Voice Chorus 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

WARM-BOWS is a unique and useful sound that combines the warm sound of a sawtooth wave with the sweet sound of the violin/strings.

**MODULATORS**

POLY KEY: Increases volume and depth of sawtooth sound.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and punch.

**PATCH SELECTS**

oo WARM-BOWS.  
ox The sawtooth waveform only.  
xo A swelling string section.  
xx Similar to X0, with a lower octave.

**PROGRAM NAME: ELEMENTS**

EFFECT TYPE: 8-Voice Chorus 2  
TRACK DEFAULTS:  
Timbre: 09 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

This expressive sound has all the elements it needs to make it an ideal choice for soundtrack work.

**MODULATORS**

POLY KEY: Increases the volume of the anvil component.  
MOD WHEEL: Adds a fast vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases the high frequencies.

**PATCH SELECTS**

oo All the ELEMENTS.  
ox Less of an attack and a little warmer than oo.  
xo A little more flute-like in timbre.  
xx A smooth variation of oo.

**PROGRAM NAME: ALLS-FAIR-2**

EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +17 Pressure: Chan  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

A rich sound texture for use as a pad or comping part. Features a strong attack and identifiable sound.

**MODULATORS**

POLY KEY: Adds subtle vibrato.  
MOD WHEEL: Adds subtle vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume on pad component.

**PATCH SELECTS**

oo ALLS-FAIR-2  
ox String sound added.  
xo Temple block attack only.  
xx New attack.

**PROGRAM NAME: SOFT-WORDS**

EFFECT TYPE: LPF+Dist+Chor+Rev  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

**DESCRIPTION**

This vocal pad is one of the finest of its kind. Each Patch Select button allows you the opportunity to call on the multiple personalities of DIGIPIANO-1. Use the Mod Wheel to adjust just the right amount of vibrato.

**MODULATORS**

POLY KEY: Subtly increases the "ess" vocalization.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases the swell character of this sound.

**PATCH SELECTS**

oo SOFT-WORDS.  
ox Adds a soft upper octave.  
xo The upper octave with more volume.  
xx A little darker than 00, with a lower octave.

PROGRAM NAME: NU-WINDS  
EFFECT TYPE: WARM.HALL.REVERB  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This is a dazzling sound that features several wind instruments. To access them simply push the Patch Select buttons.

MODULATORS

POLY KEY: Increases vibrato and offers slight brightness increase.  
MOD WHEEL: Increases the singing vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

oo NU-WINDS.  
ox A warm wooden flute.  
xo Rich clarinet.  
xx Woodwinds.

PROGRAM NAME: LAZER-BRASS

EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

LAZER-BRASS is a biting horn section full of energy. A sax sound is on the lower keys. Go ahead, add a blast to your music.

MODULATORS

POLY KEY: Increases vibrato.  
MOD WHEEL: Eliminates the strings for a more metallic sound.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

oo LAZER-BRASS.  
ox A deeper brass section.  
xo Full horns with no strings attached.  
xx Similar to ox, but not as harsh.

PROGRAM NAME: RACK-BASS

EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

This punchy bass sound will move some feet and turn some heads on the dance floor. This modern sound can add new depth to your jammin'.

MODULATORS

POLY KEY: Introduces vibrato.  
MOD WHEEL: Adds a wild vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Adds a kick drum attack for a poppin' vibe.

PATCH SELECTS

oo RACK-BASS.  
ox A synth base sound.  
xo A deep blend of oo and ox without the kick attack.  
xx Same as xo with the kick for added punch.

PROGRAM NAME: JAM-MAP-E

EFFECT TYPE: PLATE.REVERB  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: D

DESCRIPTION

JAM-MAP-E is the first of the internal drum-maps; an exclusive feature of the SD-1 where each key can be assigned a different controllable vocal Patch Selects are inoperative in real-time, but can be altered/edited on the Patch Select page.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Raises the pitch by two octaves.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases the volume.

PATCH SELECTS

oo JAM-MAP-E (E stands for the ENSONIQ drum-mapping format).  
ox N/A  
xo N/A  
xx N/A

PROGRAM NAME: DIGI-MOODS

EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

A breathy digital pad sound. Excellent for layering or stacking.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: N/A

PATCH SELECTS

oo Digital voices.  
ox Digital voice/bell.  
xo Solo digital voice.  
xx Digital voices with slight digital piano.

PROGRAM NAME: ARTIC-ELATE

EFFECT TYPE: Flange+Delay+Rev 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: KEY  
CUSTOM PITCH TABLE: N

DESCRIPTION

ARTIC-ELATE is a dramatic sound program that signals the beginning of the era of the ENSONIQ SD-1. This hybrid sound uses the SD-1's multi-effects to evoke strong emotions from any listener.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the brightness and volume of the vocal sound.  
VELOCITY: Increases volume.

PATCH SELECTS

oo ARTIC-ELATE.  
ox Adds a bell attack.  
xo Bell and voices only.  
xx A combination of all the above, with emphasis on the digital delay.

PROGRAM NAME: APOLLO

EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +12 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

Another texture from outer space. This sound features a waveform that slides from note to note. This is a great sound for those unique pad applications.

MODULATORS

POLY KEY: Detunes the pitch.  
MOD WHEEL: Adds subtle vibrato and deletes the bell component.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequencies.  
VELOCITY: Increases volume of sound.

PATCH SELECTS

oo APOLLO.  
ox Voices and rack bell.  
xo Airy voices and horns.  
xx Voices, horns, piano ping.

PROGRAM NAME: TINE-GRND

EFFECT TYPE: WARM.HALL.REVERB  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

A powerful and bright blend of acoustic and digital pianos bring TINE-GRND into the forefront of today's music.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Volume.

PATCH SELECTS

oo TINE-GRND.  
ox N/A  
xo N/A  
xx N/A

PROGRAM NAME: INSPIRED  
EFFECT TYPE: CHORUS+REVERB.1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOM PITCH TABLE: N

DESCRIPTION

INSPIRED is a sound program that offers you multiple variations of the now classic digital piano sound. We believe by offering more than one variation of this you will be able continue to enjoy this important sound.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds a slow vibrato.  
CV PEDAL: Controls the volume.  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

Digital piano.  
 Adds an inharmonic component.  
 Adds an octave.  
 OX and X0 combined without digital piano.

PROGRAM NAME: MUSAK-BOX  
EFFECT TYPE: Dynamic Reverb  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

Serenade the little ones to sleep with this extremely fragile music box sound. Open slowly to enjoy the true experience.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Increases reverb room size.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Opens filter.  
VELOCITY: Introduces the CLUSTR-LP waveform.

PATCH SELECTS

MUSAK-BOX.  
 MUSAK-BOX with a lower octave added.  
 A swell attack is featured.  
 MUSAK-BOX in multiple octaves with swelled attack.

PROGRAM NAME: ORCHESTRA  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOM PITCH TABLE: N

DESCRIPTION

This is a contemporary split sound. This sound features a powerful synth bass on the lower octaves and a shimmering digital synth sound on top.

MODULATORS

POLY KEY: Increases brightness.  
MOD WHEEL: Increases vibrato on upper octave.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies and increases brightness.  
VELOCITY: Increases volume and adds ORCH-HIT waveform.

PATCH SELECTS

ORCHESTRA with warm strings.  
 Just the ORCHESTRA.  
 Similar to OX with crash cymbals on the lower octave.  
 Strings with crash cymbals on the lower octave.

PROGRAM NAME: RED-SKY  
EFFECT TYPE: 8-Voice Chorus 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

One day when we look up and the sky is red, it can only mean one thing...

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases volume and shortens attack time.

PATCH SELECTS

RED-SKY...  
 A slow moving swell.  
 Haunting variation of RED-SKY.  
 Repent! The end is near...

PROGRAM NAME: HARD-ATTACK  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

WOW! Is it analog? Is it digital? It's great! Use this sound for power chords and rhythmic "clav-like" playing.

MODULATORS

POLY KEY: Adds vibrato and controls brightness.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls tone color.  
VELOCITY: Increases volume and adds brightness.

PATCH SELECTS

HARD-ATTACK.  
 Softer version.  
 Attack version.  
 Medium version.

PROGRAM NAME: PERCUSS-ME  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

Very digital.

MODULATORS

POLY KEY: Controls tone color.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: High-pass filter rolls off low frequencies.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

PERCUSS-ME.  
 Soft background.  
 Attack component.  
 OX and X0 together.

PROGRAM NAME: NICE-STACK  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

This dramatic pad sound incorporates acoustic and synthetic timbres to create its own unique sound.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls out the low frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS

Steel drum sound with pings.  
 Clustered sound.  
 Ping pad sound.  
 Steel drum sound with voices.

PROGRAM NAME: RADIUM  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

A slow developing metallic sound program. Note the harmonic content and movement of this complex digital sound.

MODULATORS

POLY KEY: Introduces vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: N/A

PATCH SELECTS

RADIUM.  
 Up an octave.  
 Upper octave only.  
 Different octaves.

PROGRAM NAME: GREASE-PLUS  
EFFECT TYPE: Delay + Reverb 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

Get your arpeggios runnin' cause there's no stoppin' you now! This thick analog synth sound will win every race.

MODULATORS

POLY KEY: Introduces fast vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases attack.

PATCH SELECTS

GREASE-PLUS.  
 GREASE-PLUS with delay.  
 A muted version with delay. Try scales with this Patch Select.  
 X0 in octaves.

PROGRAM NAME: CRYSTALLY  
EFFECT TYPE: LPF+Dist+Chor+Rev  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

This crisp vibe sound can add a sparkle to any composition.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Increases vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS

CRYSTALLY.  
 Introduces the SPECTRAL-X waveform.  
 A variation of 00.  
 A metallic bell-like element.

PROGRAM NAME: VX-ORGAN  
EFFECT TYPE: Dirty Roto + Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOM PITCH TABLE: N

DESCRIPTION

One of the interesting characteristics about the classic organs is when they got older and dirtier, they sounded better. You don't have to wait for your SD-1 to age. YOU GOT THA SOUND!

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds the roto speaker effect.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the drawbar settings.  
VELOCITY: N/A

PATCH SELECTS

VX-ORGAN.  
 Drawbar variation.  
 Drawbar variation Part II.  
 Son of drawbar variation.

PROGRAM NAME: DANCE-GTR  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

A big dance-oriented guitar sound. The rhythmic qualities of the lower key range can add life to your music.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the lower frequencies.  
VELOCITY: Adds pop sound.

PATCH SELECTS

Dance guitar with the lower keys offering muted nuance sounds.  
 A plucked attack is added.  
 00 without the pop sound.  
 Velocity controls the expressive quality of the guitar's attack.

PROGRAM NAME: BURN-BASS  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

BURN-BASS has that certain synth characteristic that you're familiar with. You remember, don't you?

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds a fast vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases the pop sound.

PATCH SELECTS

Poppin' BURN-BASS.  
 BURN-BASS with a more prominent pop.  
 Deep resonant BURN-BASS.  
 Poppin' resonant BURN-BASS.

PROGRAM NAME: DRUM-MAP-E  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: D

DESCRIPTION

DRUM-MAP-E offers a variety of drum sounds that can be used in virtually any style of music. In Drum-Map mode Patch Selects are inoperative in real-time. However they can be altered/edited on the Patch Select page.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Raises the pitch.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the timbre of certain voices.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

DRUM-MAP-E (E stands for the ENSONIQ drum-mapping format).  
 N/A  
 N/A  
 N/A

PROGRAM NAME: FLUGL+TENOR  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

A fun blend of flugel horn and tenor sax. Patch Select buttons offer some interesting twists.

MODULATORS

POLY KEY: Increases volume and vibrato creating a life-like characteristic.  
MOD WHEEL: Adds a volume swell.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the amount of brightness.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

FLUGL+TENOR.  
 Adds a saxophone playing a fourth below.  
 Solo sax.  
 Solo trumpet.

PROGRAM NAME: VIBROPHONE  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

A sound made popular by a famous Jazz artist, VIBROPHONE rings out with true authenticity. Try using this sound for other styles of music, too!

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Increases chorus amount.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases overall dynamics.

PATCH SELECTS

VIBROPHONE.  
 Adds a rapid vibrato.  
 Softer attack.  
 A warm lower octave added.

PROGRAM NAME: TROMBONE  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
When you need a horn sound that is not as harsh as a trumpet, use the classic sound of TROMBONE.

MODULATORS  
POLY KEY: Vibrato.  
MOD WHEEL: Moves the "slider" to lower the pitch.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS  
o o TROMBONE.  
o x Whole step slide up to pitch.  
x o Trombone and trumpet.  
x x Opus Tubas.

PROGRAM NAME: CHIX-GRAND  
EFFECT TYPE: Concert Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: Y

DESCRIPTION  
The incredibly rich and warm CHIX-GRAND could possibly be the only sound you will use (Although we're sure you will use others). CHIX-GRAND is ideal for solo recitals, and also sounds great in combination with an assortment of instruments.

MODULATORS  
POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS  
o o CHIX-GRAND.  
o x With an added lower octave.  
x o Just the lower octave.  
x x An octave above 00.

PROGRAM NAME: ACOUSTIBASS  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Good for all that jazz. Make use of the Patch Select buttons! You will hear the fingers slide over the strings in intervals. Notice how the attack-sound changes with velocity.

MODULATORS  
POLY KEY: Adds a slow vibrato.  
MOD WHEEL: Increases vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS  
o o ACOUSTIBASS.  
o x Adds a delayed fifth.  
x o Slide down.  
x x A slide up to the pitch (from the lower 5th).

PROGRAM NAME: PRS-BRUSHES  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: Y

DESCRIPTION  
PRS-BRUSHES offers the kind of drum voicings you would use to play real soulful jazz.

MODULATORS  
POLY KEY: Increases the brush sound on the snare drum.  
MOD WHEEL: Changes tonal color.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and reverb amount.

PATCH SELECTS  
o o PRS-BRUSHES.  
o x N/A  
x o N/A  
x x N/A

PROGRAM NAME: GRIND-ORGAN  
EFFECT TYPE: Dirty-Roto + Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This powerful organ sound offers an interesting use of the Dirty-Roto + Delay effect where the key-click sound is controlled by the delay. Try creating your own effects mixes. Have fun!

MODULATORS  
POLY KEY: Introduces the roto-speaker effect.  
MOD WHEEL: Controls the roto-speaker amount and speed.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases the click sound with delay.  
VELOCITY: Increases the click attack.

PATCH SELECTS  
o o GRIND-ORGAN.  
o x Drawbar variation 1.  
x o Drawbar variation 2.  
x x Drawbar variation 3.

PROGRAM NAME: JUMP  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
You know it.

MODULATORS  
POLY KEY: Adds vibrato and brightness.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness of sound.  
VELOCITY: Increases brightness and volume.

PATCH SELECTS  
o o A classic analog synth sound.  
o x A brass section swell.  
x o Soft brass section.  
x x Bolsterous brass.

PROGRAM NAME: MULTI-ORGAN  
EFFECT TYPE: Room Reverb 2  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Pipe organ rapture! Full stops with percussive clicks and a rotating speaker effect.

MODULATORS  
POLY KEY: Adds roto-speaker effect.  
MOD WHEEL: Adds roto-speaker effect.  
CV PEDAL: Adds roto-speaker effect.  
TIMBRE/DATA SLIDER: Increases brightness of percussion.  
VELOCITY: N/A

PATCH SELECTS  
o o Full organ.  
o x Mid and low pipes with percussion.  
x o Mid and high pipes with percussion.  
x x Full organ with percussion.

PROGRAM NAME: GUITAR-PADS  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
An inventive twist to the guitar. A guitar attack that melts away into a modern digital pad.

MODULATORS  
POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Opens filter.  
VELOCITY: Increases volume.

PATCH SELECTS  
o o GUITAR-PADS.  
o x Adds GTR-HARMO waveform.  
x o Adds KALIMBA waveform.  
x x GTR-HARMO and KALIMBA waveforms only.

**PROGRAM NAME:** ELEC-FRET  
**EFFECT TYPE:** Chorus+Reverb 1  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 This sound serves up four fretless basses.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Adds vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Opens filter.  
**VELOCITY:** Increases volume.

**PATCH SELECTS**

Two PLUCKBASS waveforms.  
 PLUCKBASS and DOUBLBASS waveforms.  
 PLUCKBASS and PICK-BASS waveforms.  
 PLUCKBASS and POP-BASS waveforms.

**PROGRAM NAME:** WUZ-PIANO  
**EFFECT TYPE:** Room Reverb 2  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 A classic electric piano sound from the past. This sound is bright, punchy, and great for Rock and Roll comping.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Adds vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Raises the low pass filter cutoff, reduces high frequency content.  
**VELOCITY:** Increases volume and brightness.

**PATCH SELECTS**

WUZ-PIANO.  
 A muted twist.  
 Yesterday plus today.  
 Today.

**PROGRAM NAME:** CMPRES-DKIT  
**EFFECT TYPE:** Plate Reverb  
**TRACK DEFAULTS:**  
 Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 This compressed drum kit can add power to any arrangement. Use the controllers to fine tune this kit to meet your needs.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Tunes the congas.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Tunes the snares.  
**VELOCITY:** Increases volume.

**PATCH SELECTS**

Compressed drum kit.  
 N/A  
 N/A  
 N/A

**PROGRAM NAME:** BANJO  
**EFFECT TYPE:** Chorus+Reverb 1  
**TRACK DEFAULTS:**  
 Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 From the Appalachian Mountains to the bluegrass of Kentucky, there's no sound as prominent as the 5-string banjo. Use BANJO for your pea-shellin's, shindigs, and hoedowns. It sounds great in new-age music too.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Detuning.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Controls brightness.  
**VELOCITY:** Increases volume.

**PATCH SELECTS**

BANJO. Oh, I'm goin' to Alabama with an SD-1 on my knee...  
 Banjo with muted string key up arpeggiator.  
 Banjo with open string key up arpeggiator.  
 A more powerful banjo sound.

**PROGRAM NAME:** ACCORDION  
**EFFECT TYPE:** Chorus+Reverb 1  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Chan  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 A-one and A-two... A sound that has graced the airwaves in all of Europe this past year, ACCORDIAN is making a comeback. Use it in Polkas, Zydeco, or even Reggae.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Controls volume.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** N/A  
**VELOCITY:** N/A

**PATCH SELECTS**

ACCORDIAN.  
 Single-voice variation.  
 Double octaves (down).  
 Double octaves (up).

**PROGRAM NAME:** PEDAL-STEEL  
**EFFECT TYPE:** Large Hall Reverb  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 Another authentic reproduction of a classic Country sound. You name the country.

**MODULATORS**

**POLY KEY:** See the patch select descriptions.  
**MOD WHEEL:** Decreases volume.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Increases brightness.  
**VELOCITY:** Increases volume and reverb amount.

**PATCH SELECTS**

PEDAL-STEEL. Poly-Key adds vibrato.  
 Poly-Key bends the note a half step down and adds vibrato.  
 Poly-Key bends the note a whole step up and adds vibrato.  
 Poly-Key bends the note a whole step down and adds vibrato.

**PROGRAM NAME:** WHISTLER  
**EFFECT TYPE:** Large Hall Reverb  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 An airy realistic whistling tone waiting for "Andy Griffith" or "Popeye the Sailor."

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Adds vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Increases brightness.  
**VELOCITY:** Increases volume and dynamics.

**PATCH SELECTS**

WHISTLER.  
 Slight detuning for bigger sound.  
 Slurs into notes.  
 Monophonic patch.

**PROGRAM NAME:** MANDOLIN  
**EFFECT TYPE:** Large Hall Reverb  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Chan  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 An authentic reproduction of a mandolin. Use the Patch Select buttons to access performance variations. Notice how the Key-up adds a "real life" dimension to the sound program.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Introduces vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Increases brightness.  
**VELOCITY:** Increases volume.

**PATCH SELECTS**

MANDOLIN with realistic string noise on Key-up.  
 Key-up gives you a plucked up-stroke with sustain.  
 Same as OX with muted Key-up.  
 OX with a slight variation.

**PROGRAM NAME: FANFARE**

EFFECT TYPE: Chorus+Reverb 1

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

This is an excellent combination sound. Using velocity crossfading we are able to deliver a brass fanfare sound with a chime on hard attacks. A great sounding effect for your orchestral arrangements.

**MODULATORS**

POLY KEY: Increases volume of brass section.

MOD WHEEL: N/A

CV PEDAL: N/A

TIMBRE/DATA SLIDER: N/A

VELOCITY: Increases volume and adds a chime hit.

**PATCH SELECTS**

00 FANFARE. (lower octave sounds a cymbal crash)

0x Brass section only.

x0 Brass section with base drum in lower octave.

xx Highlights the french horn.

**PROGRAM NAME: TUBULAR-BEL**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: None

CUSTOM PITCH TABLE: N

**DESCRIPTION**

A powerful tubular (chime) bell sound that will add impact to any arrangement. Try using TUBULAR-BEL for a suspenseful moment in your film scoring project.

**MODULATORS**

POLY KEY: N/A

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases brightness.

VELOCITY: N/A

**PATCH SELECTS**

00 TUBULAR-BELL.

0x Darker version adding an octave.

x0 Another voicing.

xx Lighter variation of X0.

**PROGRAM NAME: CHURCHTIME**

EFFECT TYPE: LPF+Dist+Chor+Rev

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

A reverent reproduction of Sunday morning's most popular sound.

**MODULATORS**

POLY KEY: Introduces vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off low frequencies.

VELOCITY: N/A

**PATCH SELECTS**

00 CHURCHTIME with 4 glorious waveforms!

0x A softer variation. Notice the older dirty key click sound.

x0 3 waveform variation.

xx 2 waveform variation.

**PROGRAM NAME: MEXI-TRUMP**

EFFECT TYPE: Small Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

And now for the Tijuana Brass...or is it an SD-1? This sound is great for any application.

**MODULATORS**

POLY KEY: Adds vibrato.

MOD WHEEL: Adds a wide vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: N/A

VELOCITY: Increases volume and brightness.

**PATCH SELECTS**

00 MEXI-TRUMP.

0x Good stab sound.

x0 Similar to 0X.

xx Smooth version of 00.

**PROGRAM NAME: LATINO-PERC**

EFFECT TYPE: Dynamic Hall

TRACK DEFAULTS:

Timbre: 99 Release: +00 Pressure: None

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Lots of bright and dynamic percussion voices in this patch. Use LATINO-PERC to perk up any composition.

**MODULATORS**

POLY KEY: N/A

MOD WHEEL: Controls the pitch.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off the low frequencies.

VELOCITY: Increases the dynamics and reverb amount.

**PATCH SELECTS**

00 LATIN-PERCUSSION.

0x N/A

x0 N/A

xx N/A

**PROGRAM NAME: FLORIDA-KEY**

EFFECT TYPE: Chorus+Reverb 2

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

This patch brings the sound of that "other electric piano" into the digital era. An added element of aggression on the attack gets you through today's high-tech mixes.

**MODULATORS**

POLY KEY: Adds vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Closes filter.

VELOCITY: Increases volume and brightness.

**PATCH SELECTS**

00 FLORIDA-KEY.

0x Adds bell attack up one octave.

x0 Adds organ.

xx More aggressive, raspy attack.

**PROGRAM NAME: TYMPANI**

EFFECT TYPE: Concert Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

TYMPANI offers that dynamic orchestra percussion instrument for you to use in any style of music. TYMPANI is chromatically tuned, so you can play it in any key.

**MODULATORS**

POLY KEY: N/A

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: N/A

VELOCITY: Increases volume.

**PATCH SELECTS**

00 TYMPANI.

0x Use this Patch Select for Key-up rolls.

x0 Variation of 00.

xx Variation of 0X.

**PROGRAM NAME: MARIMBA**

EFFECT TYPE: Plate Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: None

CUSTOM PITCH TABLE: N

**DESCRIPTION**

This is an accurate reproduction of the hammered wooden instrument. An ideal sound for Jazz, World Beat, or Art Rock.

**MODULATORS**

POLY KEY: N/A

MOD WHEEL: N/A

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off low frequencies.

VELOCITY: Increases volume and reverb amount.

**PATCH SELECTS**

00 MARIMBA.

0x Key-up plays the same note.

x0 MARIMBA in fifths.

xx Fifths activated with Key-up.

PROGRAM NAME: KALIMBA  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

KALIMBA is a creative blend of different percussive sounds. Using the Patch Select buttons you have access to an authentic kalimba sound with different attack tones. Note how reverb decay time lengthens with increased velocity.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Muted tone.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases reverb amount.

PATCH SELECTS

KALIMBA.  
 With a stronger attack sound.  
 Woodblock sound.  
 A deep dark kalimba.

PROGRAM NAME: STEEL-DRUM

EFFECT TYPE: Warm Chamber  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOM PITCH TABLE: N

DESCRIPTION

This well known sound originated from the islands of Trinidad, where the natives created a unique musical instrument out of the war's refuse. One man's garbage is another's STEEL-DRUM.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Emphasizes the mallet attack sound.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS

STEEL-DRUM.  
 Key-up for rolls.  
 STEEL-DRUM using softer rubber mallets.  
 Same as X0 with Key-up for rolls.

PROGRAM NAME: GLOCKNSPIEL

EFFECT TYPE: Concert Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

The bright chimmy sound of GLOCKNSPIEL can add a sparkle to your next Polka or marching band arrangement. Don't forget Octoberfest!

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds a rapid vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

Stars and stripes forever.  
 GLOCKNSPIEL with a ring.  
 A bell component is added.  
 A stonger attack.

PROGRAM NAME: WIDEPUNCH

EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

WIDEPUNCH is just that. A hard hitting orchestra blast/hit. This sound uses waveforms created by David Hentschel and Nile Rodgers.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: A quick vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: N/A

PATCH SELECTS

WIDEPUNCH with crescendo on sustain.  
 WIDEPUNCH with descending pitch sweep on sustain.  
 WIDEPUNCH in super stereo.  
 Adds another voice.

PROGRAM NAME: ITS-A-SYNTH

EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

This sound is 100 percent analog.

MODULATORS

POLY KEY: Introduces quick filter sweep.  
MOD WHEEL: Increases vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
VELOCITY: Increases brightness and volume.

PATCH SELECTS

The name says it all.  
 Yes, it's really a synth.  
 No I'm not kidding, it's really a synth.  
 For the third time, believe it. IT'S A SYNTH!

PROGRAM NAME: ZIRCONIUM

EFFECT TYPE: 8 Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

This metallic sound highlights the TRANSWAVE waveforms. Its real-time crossfading and sharp edge are created using the powerful programming features of the SD-1.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds wide vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases brightness and volume of the attack component.

PATCH SELECTS

A precious metal.  
 Stronger delayed attack.  
 Mellow pad sound.  
 Combination of 0X and X0.

PROGRAM NAME: FAT-BRASS

EFFECT TYPE: Chorus+Reverb 2  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This is analog synthesis. You may have heard this type of sound before. Note the characteristic attacks available via the Patch Select buttons.

MODULATORS

POLY KEY: Increases volume and vibrato. Sounds like "shading" played by real instrumentalists.  
MOD WHEEL: Increases brightness.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the amount of brightness.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

Super analog brass.  
 Adds a TRANSWAVE for slight timbral variation.  
 Slightly darker sounding and less dense harmonically.  
 Darker tone with an octave added.

PROGRAM NAME: STAR-DRIVE

EFFECT TYPE: Flange + Delay + Rev 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

Dive into this unique "underwater orchestra" with its sweeping resonant shifts.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Closes filter.  
VELOCITY: Increases the volume.

PATCH SELECTS

STAR-DRIVE.  
 Darker.  
 Spacier.  
 The spaciest.

PROGRAM NAME: WONDERS  
EFFECT TYPE: 8 Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Single voice sound using a TRANSWAVE. This sound is great for stacking/layering. It is also a great pad sound. Note how the chorus depth changes over time.

MODULATORS

POLY KEY: Adds chorus effect.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Crossfades between various harmonic choices.

PATCH SELECTS

00 A wonder.  
0x Up one octave.  
x0 Down one octave.  
xx Brighter version of 00 in octaves.

PROGRAM NAME: DANGEROUS  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A keyboard synth program. This is an aggressive digital synth sound so use it with caution.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Adjusts brightness.  
VELOCITY: Increases volume and sweep range.

PATCH SELECTS

00 This sound is DANGEROUS.  
0x Up an octave.  
x0 Sawtooth voice takes the place of pulse width voice.  
xx Digital power.

PROGRAM NAME: SAW-O-LIFE  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Warm versatile analog synth sound program.

MODULATORS

POLY KEY: Adds a fast vibrato.  
MOD WHEEL: Adds a fast vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: N/A

PATCH SELECTS

00 Sawtooth heaven.  
0x A little square.  
x0 Adds strings to 00.  
xx Tine pad.

PROGRAM NAME: FUNKYCLAV  
EFFECT TYPE: Roto-Speaker+Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
The classic clav sound with velocity controlled dynamics.

MODULATORS

POLY KEY: Adds slight vibrato.  
MOD WHEEL: Adds vibrato and a chorus effect.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases brightness.

PATCH SELECTS

00 The funk!  
0x 00 with pluck on Key-up.  
x0 Same as 0x with less low frequency content.  
xx FUNKY CLAV with fat analog sound added.

PROGRAM NAME: DIGIPIANO-1  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Note  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This bright digital piano is one of the finest of its kind. Each Patch Select button allows you the opportunity to call on the multiple personalities of DIGIPIANO-1. Use the Mod Wheel to adjust the chorus depth.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Increases chorus depth.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume and tine component.

PATCH SELECTS

00 Ready for any gig.  
0x Adds a piano.  
x0 00 in octaves.  
xx Just a little more than 0x.

PROGRAM NAME: WARM-TINES  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A warm tine sound.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

00 WARM-TINES.  
0x A metallic attack.  
x0 Upper harmonic is enhanced.  
xx Metallic version with added upper harmonic.

PROGRAM NAME: NEW-PLANET  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
An ethereal sound that combines a digital piano with TRANSWAVES to create an evocative mood.

MODULATORS

POLY KEY: Increases the volume of TRANSWAVES component.  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

00 NEW-PLANET.  
0x TRANSWAVES variation 1.  
x0 TRANSWAVES variation 2.  
xx TRANSWAVES variation 3.

PROGRAM NAME: METAL-TINES  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A unique variation on a digital piano sound. By using TRANSWAVES and the mod controllers this sound stands out - the winner. Use it for those really special keyboard parts.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

00 METAL-TINES.  
0x A piano element added.  
x0 A synth horn-like element added.  
xx 00 and 0x combined.

PROGRAM NAME: BIG-PIANO  
EFFECT TYPE: Concert Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

BIG-PIANO blends the sound of an acoustic grand piano with the sound of a digital tone to create a very big piano.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the lower frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS

BIG-PIANO.  
 An octave higher.  
 Combined with a slight delay on the upper octave.  
 The acoustic grand piano.

PROGRAM NAME: BRIGHT-PNO2  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

A bright, pop piano with a metallic edge. This piano is a first string choice when playing a part that needs to cut through the mix.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and attack.

PATCH SELECTS

BRIGHT-PNO2.  
 This patch features heavier chorusing.  
 Octave patch.  
 Without metallic attack.

PROGRAM NAME: SYN-PIANO  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

Straight forward digital piano.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Changes tonal color.  
VELOCITY: Increases overall dynamics.

PATCH SELECTS

SYN-PIANO.  
 A softer version.  
 Somewhere between 00 and 0X.  
 Same as 0X.

PROGRAM NAME: TRANS-PIANO  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

TRANS-PIANO is a unique sound that couples TRANSWAVES with an acoustical grand piano waves to create a future grand piano.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Slightly increases the brightness.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

TRANS-PIANO.  
 An octave lower.  
 Grand piano.  
 00 and 0X combined.

PROGRAM NAME: CLASSIC-PNO  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

A smooth mellow piano like those preferred by classical pianists. What grand pianos sound like before rock-n-rollers brighten them up.

MODULATORS

POLY KEY: Adds vibrato to the horns on Patch Select XX.  
MOD WHEEL: Detunes the horns on Patch Select XX.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases the high frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS

CLASSIC-PNO.  
 CLASSIC-PNO with string pad.  
 CLASSIC-PNO panned to the left.  
 CLASSIC-PNO with strings and horns.

PROGRAM NAME: HARPSICHORD  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION

Welcome to the Baroque era. This biting reproduction of the harpsichord will amaze you. Listen for the key-up pluck. Close your eyes and take a trip to the great concert halls of the past.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Detunes the separate ranks of the harpsichord.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Raises the high pass filter cutoff, reduces low frequency content.  
VELOCITY: N/A

PATCH SELECTS

Harpsichord with two ranks 1 octave apart.  
 Lower rank only.  
 Upper rank only.  
 Two ranks with a metallic texture.

PROGRAM NAME: DOUBLE-REED  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This sound is one of the finest double reed instrument recreations available today. Use the Patch Select buttons to access different reed sounds.

MODULATORS

POLY KEY: Introduces vibrato.  
MOD WHEEL: Pans hard right in the up position.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequency.  
VELOCITY: Increases volume.

PATCH SELECTS

Bassoon.  
 Oboe.  
 Clarinet.  
 A thin contra-bassoon.

PROGRAM NAME: TENOR-SAX  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

TENOR-SAX is another truly dynamic and expressive acoustic sound. This sound is great for almost any application.

MODULATORS

POLY KEY: Increases volume and vibrato. Sounds like "shading" played by real instrumentalists.  
MOD WHEEL: Increases brightness.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the amount of brightness.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

TENOR-SAX.  
 With stronger air flow.  
 With slight bend at the start of the attack.  
 A little avant-garde.

**PROGRAM NAME: WOODFLUTE**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Natural wood flute with multiple performance variations. Great for solo work.

**MODULATORS**

POLY KEY: Smooth vibrato.

MOD WHEEL: Adds stereo pan.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: N/A

VELOCITY: Sets the vibrato start point and introduces slight rise in pitch.

**PATCH SELECTS** WOODFLUTE. Semi-tone slide up. A brighter version. Pressure activates a realistic trill. Dual flutes in fifths.**PROGRAM NAME: CHIFFLUTE**

EFFECT TYPE: Plate Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

This sound program is an excellent example of a rich sounding TRANSWAVE. Its metallic content makes this sound unique. It also has many real time modulation capabilities. Experiment with PolyKey Pressure and the Mod Wheel.

**MODULATORS**

POLY KEY: Increases the depth and speed of vibrato.

MOD WHEEL: N/A

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases brightness and rolls off the low frequencies.

VELOCITY: Increases volume.

**PATCH SELECTS** CHIFFLUTE. Adds pitch bend on attack. Pressure activates a realistic trill. Adds a lower fifth.**PROGRAM NAME: MALLET+FLTS**

EFFECT TYPE: Plate Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Multiple mallet sounds with a flute sound added on velocity.

**MODULATORS**

POLY KEY: Flute vibrato.

MOD WHEEL: Increases vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Decreases the amount of mallet in the sound.

VELOCITY: Increases volume and adds flute sound.

**PATCH SELECTS** Stereo chifflute with mallets. Combination mallets with flute an octave higher. Stereo wood flute with mallets. Similar to X0 with an octave added.**PROGRAM NAME: FLUTE-VIL**

EFFECT TYPE: Flanger+Reverb 1

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

A flute texture with a metallic chifflute. Another wind controller standout.

**MODULATORS**

POLY KEY: Increases volume of WOODFLUTE waveform.

MOD WHEEL: Controls flanging.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off low frequencies.

VELOCITY: Increases volume.

**PATCH SELECTS** FLUTE-VIL With a high pitched bell attack. High pitched bell attack without ANVIL-LP. Multi-bell attack.**PROGRAM NAME: STARBRASS**

EFFECT TYPE: Plate Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

This bright brass section will heat up your favorite charts. This sound performs great when played in octaves. You know, za ba do bop boo bow

**MODULATORS**

POLY KEY: Adds vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off the high frequencies.

VELOCITY: Increases the volume and brightness.

**PATCH SELECTS** STARBRASS. Adds an octave. Fast fall-off. This Patch Select adds an additional voice which increases the punch of this sound.**PROGRAM NAME: FRENCHORN**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

FRENCHORN is an expressive acoustic instrument sound. Use Poly-Key Pressure to bring added life to this sound.

**MODULATORS**

POLY KEY: Increases volume and brightness.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases overall brightness of sound.

VELOCITY: Increases volume of sound.

**PATCH SELECTS** Solo french horn. Unison, french horns and trumpet. Unison, complete horn section. Trumpet and french horn in octaves.**PROGRAM NAME: TOP-BRASS**

EFFECT TYPE: Large Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Chan

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Solo brass sounds including: trumpet, trombone, and french horn. The XX Patch Select button offers a brass duet.

**MODULATORS**

POLY KEY: Adds vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off the high frequencies.

VELOCITY: Increases volume and brightness.

**PATCH SELECTS** TOP-BRASS. One octave lower. French horn. Duet.**PROGRAM NAME: FLUGEL-STRG**

EFFECT TYPE: Large Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

An expressive coupling of a flugel horn and string section.

**MODULATORS**

POLY KEY: The horns vibrato.

MOD WHEEL: The strings vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases brightness.

VELOCITY: Increases volume.

**PATCH SELECTS** Single horn with string section. Hold a note and listen to the string sound develop. Just the solo flugel horn. Marcato string section. Marcato strings and two flugel horns.

PROGRAM NAME: BRASSY  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 99 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION

A larger than life brass sound, this digital/analog hybrid starts with sampled brass, then fattens things up with synthesized waveforms.

MODULATORS

POLY KEY: Adds vibrato, opens filter.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume.

PATCH SELECTS

BRASSY.  
 Adds sawtooth waveform - more synth oriented.  
 Trumpet added.  
 Brass organ added.

PROGRAM NAME: SYNTH-HORNS  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOMPITCH TABLE: N

DESCRIPTION

Variations of the fat analog horn sound. This sound program allows you four different variations of this famous sound. Use the Patch Select buttons to access the various combinations.

MODULATORS

POLY KEY: Increases vibrato depth and swell brightness.  
MOD WHEEL: Increases a brassy-horn component.  
CV PEDAL: Controls the vibrato rate.  
TIMBRE/DATA SLIDER: Increases the brassy timbre.  
VELOCITY: Increases the volume and brightness.

PATCH SELECTS

Sharp attack analog horns.  
 Adds a little buzz to attack to simulate sharper attack.  
 Slow attack analog horns.  
 Combination of slow and sharp attacks.

PROGRAM NAME: SMAK-BASS  
EFFECT TYPE: Flanger + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION

This sound highlights the SD-1's ability to create excellent dance oriented bass sounds. This sound will cut through the mix in the studio and concert hall. Try adding flanging by depressing the Patch Select buttons.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Adds a percussive attack to the sound.

PATCH SELECTS

The SMAK-BASS with a dry effects setting.  
 Adds flanging.  
 Adds flanging.  
 Adds flanging, too.

PROGRAM NAME: BEBOP-BASS  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 23 Release: +00 Pressure: Chan  
CUSTOMPITCH TABLE: N

DESCRIPTION

Cool Jazz.

MODULATORS

POLY KEY: Detune and vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

Jazz.  
 Rock.  
 More Jazz.  
 Fusion.

PROGRAM NAME: ELEC-BASS  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION

A tried and true electric bass sound. Great for Rock applications.

MODULATORS

POLY KEY: Vibrato.  
MOD WHEEL: Chorusing effect.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

Electric bass guitar.  
 00 with low frequencies rolled off.  
 0X with pick sound added.  
 A thick variation of 00.

PROGRAM NAME: SYNTHBASS  
EFFECT TYPE: 8 Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION

Various analog synth bass choices.

MODULATORS

POLY KEY: Increases vibrato depth and speed.  
MOD WHEEL: Increases vibrato depth.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume.

PATCH SELECTS

Filtered sawtooth bass sound.  
 Square and resonant sounds mixed.  
 Strong sawtooth bass with buzz.  
 Square bass sound.

PROGRAM NAME: DANCE-BASS  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOMPITCH TABLE: N

DESCRIPTION

This is an excellent bass for dance songs. Before the SD-1 existed you would have had to have three different analog synths to create these sounds.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequencies.  
VELOCITY: N/A

PATCH SELECTS

DANCE-BASS with percussive attack.  
 Provides additional low frequency power.  
 00 without percussive attack.  
 0X without percussive attack.

PROGRAM NAME: BUZZ-BASS  
EFFECT TYPE: Flanger+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION

A snarling synth bass sound with a colorful buzz in various set-ups. A great patch for sequenced bass lines.

MODULATORS

POLY KEY: Adds vibrato and increases the volume of the harsh component.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

Deep bass with bright buzz.  
 Buzz bass with pressure attack.  
 Adds SPECTRAL-X waveform.  
 High resonance.

PROGRAM NAME: ORGANIZER  
EFFECT TYPE: Roto-Speaker + Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOM PITCH TABLE: N

DESCRIPTION  
ORGANIZER is a multi-organ sound program. Each of the Patch Select combinations allow you a different organ sound, complete with rotating speaker effect.

MODULATORS  
POLY KEY: N/A  
MOD WHEEL: Toggle switch for Roto-Speaker+Delay effect.  
CV PEDAL: Adds vibrato.  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: N/A

PATCH SELECTS  
o o Organ 1.  
o x Organ 2.  
x o Organ 3.  
x x Organ 4.

PROGRAM NAME: NASTY-ORGAN  
EFFECT TYPE: Dirty-Roto + Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This sound replicates the organ sound created by one of the great rock bands of our time. You name the band. Listen for the Roto-Speaker to ramp up to speed. It's a great effect.

MODULATORS  
POLY KEY: N/A  
MOD WHEEL: Starts the Roto-Speaker effect, acts like a toggle switch.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Decreases the amount of the "blown speaker" effect.  
VELOCITY: N/A

PATCH SELECTS  
o o NASTY-ORGAN.  
o x Different drawbar settings, adds lower octave.  
x o Different drawbar settings, adds upper octave.  
x x OX and XO together.

PROGRAM NAME: CATHEDRAL-1  
EFFECT TYPE: Concert Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Yes, you guessed it. Church organs galore! Use the Mod Wheel for the most realistic sound.

MODULATORS  
POLY KEY: N/A  
MOD WHEEL: Adds fast vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: N/A

PATCH SELECTS  
o o CATHEDRAL-1.  
o x Adds brightness.  
x o Different stops.  
x x Big combination.

PROGRAM NAME: TIMBRE-ORG  
EFFECT TYPE: Roto-Speaker + Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This flexible organ sound is great for any application. The Data Entry slider adds an extra level of sound control not available on other synths.

MODULATORS  
POLY KEY: LFO simulated roto-speaker.  
MOD WHEEL: Toggle switch for the Roto-Speaker effect.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Simulates organ drawbars.  
VELOCITY: N/A

PATCH SELECTS  
o o Stereo organ with percussive attack.  
o x Different organ sound with percussive attack.  
x o OO using two voices.  
x x Octave added.

PROGRAM NAME: ANGELBREATH  
EFFECT TYPE: Dynamic Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This airy sound features a celestial choir voiced in fourths.

MODULATORS  
POLY KEY: Adds vibrato and controls speed.  
MOD WHEEL: Adds vibrato, closes filter and reverb delay.  
CV PEDAL: Chordal sweep to 5ths.  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume.

PATCH SELECTS  
o o Full choir with chordal sweep.  
o x 3 wave choir (female).  
x o 2 wave choir.  
x x 3 wave choir (male).

PROGRAM NAME: VERYBREATH  
EFFECT TYPE: 8 Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A haunting vocal sound with an arid tone quality.

MODULATORS  
POLY KEY: Opens filters.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS  
o o VERYBREATH.  
o x With plucked attack and metallic subharmonic.  
x o Woody attack with flutes.  
x x ESQ-BELL X and VOCAL PAD.

PROGRAM NAME: SWELLSTRNGS  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This evocative string section uses the modulators to expand the expressive power of the SD-1.

MODULATORS  
POLY KEY: Adds an expressive swell to the string section.  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases volume, brightness and bow component of sound.

PATCH SELECTS  
o o Swell Strings in stereo.  
o x OO in octaves.  
x o One voice version of OO.  
x x XO in octaves.

PROGRAM NAME: PIZZICATO  
EFFECT TYPE: Concert Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This sound gives you pizzicato strings in octaves with unison pizzicato and two bowed variations available via the Patch Select buttons.

MODULATORS  
POLY KEY: Increases brightness of bowed strings on XO.  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
VELOCITY: Increases volume.

PATCH SELECTS  
o o Pizzicato strings in octaves.  
o x Same as OO with a quick bowed attack.  
x o Pizzicato octaves with a bowed sustain supporting the sound.  
x x Pizzicato unison.

**PROGRAM NAME: LUSH-STRNGS**

EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: None  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

With its 4 Patch Select variations LUSH-STRNGS allows you the opportunity to perform dramatic string arrangements, including features such as pizzicato, octave doubling, and smooth bowing.

**MODULATORS**

POLY KEY: Increases the volume and brightness of the crescendo.  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases the volume of the bowed attack.

**PATCH SELECTS**

oo String section in octaves.  
ox Section pizzicato.  
xo Two octave split.  
xx Single octave string section.

**PROGRAM NAME: GOLDEN-HARP**

EFFECT TYPE: Dynamic Reverb  
TRACK DEFAULTS:  
Timbre: 23 Release: +00 Pressure: Chan  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

This is a delicate plucked string sound. The Mod Wheel controls the reverb amount, so you can "dial in" the right amount for your arrangement.

**MODULATORS**

POLY KEY: N/A  
MOD WHEEL: Increases the reverb amount.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume and brightness.

**PATCH SELECTS**

oo GOLDEN-HARP.  
ox GOLDEN-HARP with a vocal element.  
xo Combination of oo and OX.  
xx Full harp.

**PROGRAM NAME: REZ-STRINGS**

EFFECT TYPE: Chorus + Reverb 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Chan  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

String section with resonant wave used to support the sound.

**MODULATORS**

POLY KEY: Increases the speed of the LFO that controls the resonant component.  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
VELOCITY: Increases volume slightly.

**PATCH SELECTS**

oo REZ-STRINGS.  
ox Resonant waves only.  
xo OX with an octave added.  
xx OX with tremolo added on pressure.

**PROGRAM NAME: ORCH+SOLO**

EFFECT TYPE: Dynamic Hall  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

Strings and oboe is a beautiful orchestration. ORCH+SOLO replicates this combination with flying colors. The Dynamic Hall Reverb helps make this sound completely natural.

**MODULATORS**

POLY KEY: Adds vibrato to the oboe.  
MOD WHEEL: Increases the amount of reverb.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls out the orchestra hit sound on harder velocities.  
VELOCITY: Adds an orchestra hit.

**PATCH SELECTS**

oo Strings and oboe with orchestra hit.  
ox Strings and darker oboe with orchestra hit.  
xo Piano and strings.  
xx Expressive woodwind sound.

**PROGRAM NAME: REEL-STEEL**

EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

Acoustic guitar. Use the sustain pedal and strum briskly for the most realistic performance.

**MODULATORS**

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the low frequencies.  
VELOCITY: Increases volume.

**PATCH SELECTS**

oo REEL-STEEL.  
ox Adds low frequencies.  
xo 12-string guitar sound.  
xx Adds a downward fret slide on Key-up.

**PROGRAM NAME: SUN-N-MOON**

EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

A plucked sound that lends itself to eastern applications.

**MODULATORS**

POLY KEY: Adds vibrato and increases volume of SINE-WAVE component.  
MOD WHEEL: Adds a pitch bend on the attack.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume.

**PATCH SELECTS**

oo SUN-N-MOON.  
ox Adds a muted guitar-like component.  
xo Adds a more metallic guitar component.  
xx Adds flute for high energy performance.

**PROGRAM NAME: FLANG-CLEAN**

EFFECT TYPE: Flanger+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

This sound program simulates a clean guitar with tasteful flanging. The Mod Wheel controls the amount of flanging.

**MODULATORS**

POLY KEY: Adds vibrato.  
MOD WHEEL: Controls flanging.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume and brightness.

**PATCH SELECTS**

oo Guitar with flanging, slight digital piano element added.  
ox Different digital piano element.  
xo Guitar and flanging only.  
xx Stronger guitar sound.

**PROGRAM NAME: FUZZ-LEAD**

EFFECT TYPE: Dynamic Reverb  
TRACK DEFAULTS:  
Timbre: 50 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

**DESCRIPTION**

A raucous, distorted lead guitar sound with delay for added flair. Great fun from a wind controller.

**MODULATORS**

POLY KEY: Adds vibrato and overtones.  
MOD WHEEL: Introduces overtones.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume.

**PATCH SELECTS**

oo Fuzz guitar.  
ox Brighter "Metal" fuzz guitar.  
xo Combination of oo and OX.  
xx Same as XO but slightly fuzzier.

**PROGRAM NAME: SPANISH-GTR**

**EFFECT TYPE:** Warm Hall Reverb  
**TRACK DEFAULTS:**  
Timbre: 40 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

A realistic classical guitar that includes the plucked attack and finger buzz of the genuine article.

**MODULATORS**

**POLY KEY:** Adds vibrato and controls speed.  
**MOD WHEEL:** Adds vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Increases brightness.  
**VELOCITY:** Increases volume.

**PATCH SELECTS**

Classical guitar.  
  Less full-bodied.  
  Mid-range emphasis.  
  Classical harmonics.

**PROGRAM NAME: 12-STRING**

**EFFECT TYPE:** Chorus+ Reverb 1  
**TRACK DEFAULTS:**  
Timbre: 00 Release: +00 Pressure: KEY  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

A lightly chorused acoustic 12 string guitar. Notice that the strings are tuned in octaves below the B string (B4), and in unison above that point. Just like the real thing.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Light vibrato/detune.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Rolls off low frequencies.  
**VELOCITY:** Increases volume and brightness.

**PATCH SELECTS**

A 12-string guitar.  
  Same as 00, except Poly-Key Pressure bends the pitch 1 whole step.  
  A 6-string acoustic guitar.  
  Same as X0, except Poly-Key Pressure bends the pitch 1 whole step.

**PROGRAM NAME: KITCHN-SINK**

**EFFECT TYPE:** Gated+ Room Verbs  
**TRACK DEFAULTS:**  
Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** Y

**DESCRIPTION**

That's right, this kit has it all, including a specially designed pitch-table for unique tunings.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Acts as a filter, controls muting.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Controls overall tuning.  
**VELOCITY:** Controls overall dynamics.

**PATCH SELECTS**

KITCHEN-SINK.  
  N/A  
  N/A  
  N/A

**PROGRAM NAME: PERCUSSION**

**EFFECT TYPE:** Plate Reverb  
**TRACK DEFAULTS:**  
Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

This percussion sound program uses the "all percussion" mapping for increased flexibility.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Detunes/adds vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Tunes all percussion.  
**VELOCITY:** Controls overall dynamics.

**PATCH SELECTS**

PERCUSSION.  
  Adds random panning.  
  All sounds in reverse.  
  Adds key up rolls.

**PROGRAM NAME: FUSION-KIT**

**EFFECT TYPE:** Plate Reverb  
**TRACK DEFAULTS:**  
Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

Another great sounding drum kit for the power user. Check out the toms on this sound program, they are really clean.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Tunes the percussion.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Tunes the snare drum.  
**VELOCITY:** Controls overall dynamics.

**PATCH SELECTS**

FUSION-KIT.  
  N/A  
  N/A  
  N/A

**PROGRAM NAME: BALLAD-KIT**

**EFFECT TYPE:** WARM.HALL.REVERB  
**TRACK DEFAULTS:**  
Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

Specially optimized for ballad recording.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Tunes percussion.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** N/A  
**VELOCITY:** Controls overall dynamics.

**PATCH SELECTS**

BALLAD-KIT.  
  N/A  
  N/A  
  N/A

**PROGRAM NAME: SYNTH-KIT**

**EFFECT TYPE:** 8 Voice Chorus 1  
**TRACK DEFAULTS:**  
Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

Android heaven. This sound will add the "techno" touch to any arrangement. This sounds like a smart sound program to use when writing dance music. Aren't you tired of that old synthetic drum sound that's been around for years?

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Tunes the spray can.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Tunes the snare drum.  
**VELOCITY:** Controls overall dynamics.

**PATCH SELECTS**

SYNTH-KIT.  
  N/A  
  N/A  
  N/A

**PROGRAM NAME: ROCKIN-KIT**

**EFFECT TYPE:** Gated + Room Verbs  
**TRACK DEFAULTS:**  
Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** Y

**DESCRIPTION**

All purpose drum kit. Special uses of the Modulators achieve tom-tom panning and pitch-table effect on ride cymbal, greatly enhancing realism.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Tunes the percussion.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Tunes the snare drum.  
**VELOCITY:** Controls overall dynamics, great for working with drum-pads.

**PATCH SELECTS**

ROCKIN-KIT.  
  N/A  
  N/A  
  N/A

**PROGRAM NAME:** OMNIVERSE  
**EFFECT TYPE:** Flange + Delay + Rev 2  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 Close encounters of the SD-1 kind. A nice combination of bright and sparkling sounds for your arrangements.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Increases the volume of the sparkling sound.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** High-pass filter rolls off the low frequencies.  
**VELOCITY:** Increases volume and opens filter.

**PATCH SELECTS**

OMNIVERSE.  
 Solo voices.  
 Sparkling sound.  
 Octave variation of 00.

**PROGRAM NAME:** FLASH-BACK  
**EFFECT TYPE:** Plate Reverb  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 Memories, of those analog synths...Remember this sound?

**MODULATORS**

**POLY KEY:** Adds vibrato and increases volume.  
**MOD WHEEL:** Introduces vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Adds a harsh component.  
**VELOCITY:** Increases brightness.

**PATCH SELECTS**

FLASH-BACK to the old days.  
 A singing synth sound.  
 A percussive sound.  
 Just the percussive sound.

**PROGRAM NAME:** SD1-PAD  
**EFFECT TYPE:** 8-Voice Chorus 1  
**TRACK DEFAULTS:**  
 Timbre: 50 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 This is analog synthesis. You may have heard this type of sound it before, but not on the SD-1. Note the Patch Select buttons use different TRANSWAVES waveforms for timbral variety.

**MODULATORS**

**POLY KEY:** Depth and speed of vibrato.  
**MOD WHEEL:** Controls resonant filter.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Rolls off high frequencies.  
**VELOCITY:** N/A

**PATCH SELECTS**

Sawtooth waveforms.  
 PULSE 2-X waveforms are featured.  
 PLANET-X waveforms.  
 PULSE 2-X and PLANET-X waveforms.

**PROGRAM NAME:** SQUARE-PAD  
**EFFECT TYPE:** 8 Voice Chorus 2  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 The classic sound. Use SQUARE-PAD for solos as well as chordal playing. Check out the Patch Select buttons, they enhance this classic sound.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Adds another SQUARE waveform.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Rolls off the high frequencies.  
**VELOCITY:** Increases brightness and volume of attack component.

**PATCH SELECTS**

SQUARE-PAD.  
 Adds an octave overtone.  
 Adds a plucked sound.  
 Alternative pulse-width setting.

**PROGRAM NAME:** NU-MEANING  
**EFFECT TYPE:** 8-Voice Chorus 2  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 Dramatic space swell.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Increases volume of POTLID-HT waveform.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Rolls off low frequencies.  
**VELOCITY:** Controls the volume amount of POTLID-HT waveform.

**PATCH SELECTS**

NU-MEANING.  
 Tubular bell-like quality.  
 RESONANT2 waveform.  
 Clarinet-like in tone.

**PROGRAM NAME:** ASCENSION  
**EFFECT TYPE:** Flange+Delay+Rev 2  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 This sound is always in motion. Play it using the Patch Select buttons. Another soundtrack hit.

**MODULATORS**

**POLY KEY:** Adds vibrato.  
**MOD WHEEL:** Adds vibrato.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Controls tone color.  
**VELOCITY:** Increases volume and shortens attack rate.

**PATCH SELECTS**

ASCENSION.  
 Adds a metallic sound.  
 Sparkling sound only.  
 Combination of sparkling and metallic sound.

**PROGRAM NAME:** IN-DEMAND  
**EFFECT TYPE:** Chorus + Reverb 1  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 An excellent blend of 16-bit acoustic piano waveforms with the bright sound of an electric piano.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Adds slight chorus amount.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Rolls off low frequency content and volume.  
**VELOCITY:** Increases volume and activates a crossfade on hard attack.

**PATCH SELECTS**

This rich piano sound will always be IN-DEMAND.  
 An octave higher.  
 Acoustic piano only.  
 Electric piano only.

**PROGRAM NAME:** FM-PIANO  
**EFFECT TYPE:** Chorus+Reverb 1  
**TRACK DEFAULTS:**  
 Timbre: 00 Release: +00 Pressure: Key  
**CUSTOM PITCH TABLE:** N

**DESCRIPTION**  
 That famous FM-like sound. It's tried and true and best of all it sounds great on the SD-1.

**MODULATORS**

**POLY KEY:** N/A  
**MOD WHEEL:** Adds chorus/ing.  
**CV PEDAL:** N/A  
**TIMBRE/DATA SLIDER:** Rolls off low frequencies.  
**VELOCITY:** Increases volume and brightness.

**PATCH SELECTS**

FM-PIANO.  
 Adds bell sound.  
 Adds cluster sound.  
 Adds chime sound.

PROGRAM NAME: MANY-ROADS  
 EFFECT TYPE: Chorus+Reverb 1  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 Too many roads to travel, only one Rhodes to choose...Hmmm, listen to the variety in the Patch Selects, and we're sure you'll choose the SD-1.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: Adds chorusing.  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Controls the volume of the sawtooth waveform.  
 VELOCITY: Increases volume and adds hammer strike.

PATCH SELECTS  
 00 The even sound of the classic electric piano.  
 0x Bright chimney variation, good for Ballads.  
 x0 OX an octave lower.  
 xx 00 and OX combined.

PROGRAM NAME: DEEP-TINES  
 EFFECT TYPE: Warm Hall Reverb  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 DEEP-TINES rings out with warm that can only be found on the SD-1. Use this for mellow songs or ballads.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: Introduces vibrato.  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Controls the tonal color.  
 VELOCITY: Increases volume and tine attack.

PATCH SELECTS  
 00 DEEP-TINES.  
 0x A chime-like element has been added.  
 x0 A bell added.  
 xx The chime and bell only.

PROGRAM NAME: PURE-TINE  
 EFFECT TYPE: LPF+Dist+Cho+Rev  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 Use PURE-TINE for some serious electric piano arrangements.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: Increases vibrato amount.  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Controls brightness.  
 VELOCITY: Increases volume.

PATCH SELECTS  
 00 PURE-TINE.  
 0x Guitar-like tone with softer attack.  
 x0 Chimey bell sound.  
 xx Biting attack version.

PROGRAM NAME: INNOCENCE  
 EFFECT TYPE: Chorus + Reverb 1  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: None  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 This sound combines an acoustic piano with a sawtooth waveform to create a smooth, sweet sounding patch that is pure and full of INNOCENCE.

MODULATORS  
 POLY KEY: Adds vibrato.  
 MOD WHEEL: Adds harshness to the SAWTOOTH waveform.  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Controls the volume on the pad sound.  
 VELOCITY: Controls the pianos volume and intensity.

PATCH SELECTS  
 00 INNOCENCE.  
 0x A smoother version featuring an organ component.  
 x0 Solo acoustic piano.  
 xx An organ pad.

PROGRAM NAME: STUDIO-GRND  
 EFFECT TYPE: Plate Reverb  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 A full-toned grand piano that was designed to sound like a great studio piano, but you can use this sound live gigs, too.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: Adds vibrato.  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
 VELOCITY: Increases volume and dynamics.

PATCH SELECTS  
 00 STUDIO-GRND.  
 0x Adds an octave.  
 x0 Octave above.  
 xx Similar to 00, adding a thump on the high keys.

PROGRAM NAME: POP-GRAND  
 EFFECT TYPE: Warm Hall Reverb  
 TRACK DEFAULTS:  
 Timbre: 27 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 Pop-oriented grand piano. The full tone of POP-GRAND will enhance any powerful song arrangement.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: Adds vibrato.  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Mutes the bright tone.  
 VELOCITY: Controls overall dynamics.

PATCH SELECTS  
 00 POP-GRAND.  
 0x Lower octave overtone added.  
 x0 Lower octave.  
 xx Same as 0X.

PROGRAM NAME: JAZZ-GRAND  
 EFFECT TYPE: Warm Hall Reverb  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 A full sounding piano with wooden percussive attack. This piano has been designed for Jazz, but you can use it for all styles of music.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: N/A  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Rolls off the high frequencies and reduces amount of percussive attack.  
 VELOCITY: Increases volume.

PATCH SELECTS  
 00 JAZZ-GRAND.  
 0x Adds a lower octave.  
 x0 Lower octave alone.  
 xx Same as 00.

PROGRAM NAME: CHURCH-GRND  
 EFFECT TYPE: Warm Chamber  
 TRACK DEFAULTS:  
 Timbre: 00 Release: +00 Pressure: Key  
 CUSTOM PITCH TABLE: N

DESCRIPTION  
 An honest sounding grand piano, the way it should be. Play this one and pass the collection plate. Amen.

MODULATORS  
 POLY KEY: N/A  
 MOD WHEEL: N/A  
 CV PEDAL: N/A  
 TIMBRE/DATA SLIDER: Rolls off the high frequencies.  
 VELOCITY: Increases volume.

PATCH SELECTS  
 00 Church grand piano.  
 0x Adding a lower octave.  
 x0 Just the lower octave.  
 xx Same as 00.

PROGRAM NAME: CLASSIC-GND  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

The warm woody tone of CLASSIC-GND will remind you of its hand-made acoustic counterpart.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: N/A  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume.

PATCH SELECTS

CLASSIC-GND.  
 Adds a lower octave.  
 Just the lower octave.  
 Same as 00.

PROGRAM NAME: BOWS+GRAND  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This dynamic combination of grand piano and string section is an exclusive sound of the SD-1 that features 16-bit waveforms.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and percussive attack amount.

PATCH SELECTS

BOWS+GRAND.  
 The strings are an octave lower.  
 A combination of 00 and 0X.  
 The grand piano only.

PROGRAM NAME: SOPRANO-SAX  
EFFECT TYPE: Delay + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This sound has been increasingly popular as a very melodic instrument. The SD-1 controllers such as Poly-Key Pressure and pitch bend are the keys to optimum expression. Use them a lot when playing this sound.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Low-pass filter rolls off high frequencies.  
VELOCITY: Increases volume and adds brightness.

PATCH SELECTS

SOPRANO-SAX.  
 A little more "saxy."  
 Adds a new component for increased brightness.  
 Mellow version of 00.

PROGRAM NAME: ALTO-SAX  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This is a zinging alto sound. Use for solo and section work. The Patch Select buttons offer realistic performance features, created by using the MOD MIXER.

MODULATORS

POLY KEY: Increases vibrato and offers slight brightness increase.  
MOD WHEEL: Stepped pitch fall off.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off low frequencies.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

Straight ahead ALTO-SAX.  
 Grace note added on attack.  
 Growl.  
 Glissando on attack.

PROGRAM NAME: BARI+HORNS  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

This sound features sax on the lower keys and horns on the upper key range to provide you with a diverse brass section.

MODULATORS

POLY KEY: Mutes the sound.  
MOD WHEEL: Adds vibrato and filter.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

BARI+HORNS.  
 A darker version.  
 A combination of 00 and 0X.  
 A bright variation of BARI+HORNS.

PROGRAM NAME: HARMONICA  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 23 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

Variations on that famous mouth-organ sound. Don't be afraid to use the Pitch Wheel to "shape" notes.

MODULATORS

POLY KEY: Lowers pitch and adds vibrato.  
MOD WHEEL: Controls the vibrato speed and start point of pressure.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

Standard blues harp.  
 Single reed sound with tremolo effect.  
 The sound of moving more air through the harmonica.  
 Rasy version of 00.

PROGRAM NAME: SHAKUHACHI  
EFFECT TYPE: Small Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

The ancient Japanese bamboo flute popularized by Peter Gabriel, can now add an air of mystic to your compositions. Use the Patch Select buttons for subtle nuance differences.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds "flutter" sound.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: N/A

PATCH SELECTS

Trill sound.  
 Even tone.  
 Adds upper octave to 00.  
 Adds lower fifth to 00.

PROGRAM NAME: PICCOLO +  
EFFECT TYPE: Delay + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION

The bright piercing sound that you hear can only be that of the PICCOLO +. This flute sound can be used as a melody instrument in any musical context. Try playing legato trills with this patch.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Controls volume.

PATCH SELECTS

Wooden tone.  
 A ceramic ocarina.  
 Deep chif flute.  
 Woodwind sound.

PROGRAM NAME: ODYSSEY  
EFFECT TYPE: Flange + Delay + Rev 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Mighty lead sound! The Patch Select buttons are programmed to produce interesting noise effects.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume and tone color.

PATCH SELECTS

ODYSSEY.  
 Noise variation 1.  
 Noise variation 2.  
 Noise variation 3.

PROGRAM NAME: MANY-LEADS  
EFFECT TYPE: Delay + Reverb 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
You've heard these synth sounds before, and because you own the SD-1, oh what a lucky man you are.

MODULATORS

POLY KEY: Increases the filter amount.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness and rolls of the low frequencies.  
VELOCITY: N/A

PATCH SELECTS

3 fat square waveforms.  
 Different lead waveforms.  
 A percussive lead synth sound.  
 A mix of 0X and X0.

PROGRAM NAME: FUNK-LEAD  
EFFECT TYPE: Delay+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A raspy sound of funk-a-delic with delay. A real attention grabber.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Scrolls through TRANSWAVE.  
VELOCITY: N/A

PATCH SELECTS

FUNK-LEAD.  
 Guitar harmonic variation.  
 Similar to 00 but less raspy.  
 Similar to 00 with a metallic attack.

PROGRAM NAME: FUNKY-STABS  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
That famous brass/synth combo is at your fingertips. Try playing short, rhythmic parts - to make it real funky add the shades.

MODULATORS

POLY KEY: Adds vibrato on synth sound.  
MOD WHEEL: Adds vibrato on synth sound.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Adds brightness.

PATCH SELECTS

Oh yeah, oh yeah.  
 Adds a fourth up.  
 Adds a fourth down.  
 Adds a fourth up and down.

PROGRAM NAME: CHICAGO  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
This trombone section is great for playing counterpoint lines in your arrangements. Chords sound great too, just be conservative with the voicings. The SD-1 has a slide, it's the pitch wheel. (Sorry there is no spit valve.)

MODULATORS

POLY KEY: Adds vibrato and slight detune.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume.

PATCH SELECTS

CHICAGO.  
 Adds a stronger french horn color.  
 Adds a trumpet sound one octave higher.  
 Combines horn and trumpet with section sound.

PROGRAM NAME: MUTED-HORN  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Muted horn variations. Access each variation via the Patch Select buttons.

MODULATORS

POLY KEY: Increases vibrato and brightness.  
MOD WHEEL: Increases vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Removes metallic component from sound.  
VELOCITY: Increases volume.

PATCH SELECTS

French horn with hand mute/harmon mute on higher octave.  
 Bright harmon mute.  
 Harmon mute.  
 French horn muted.

PROGRAM NAME: MOOG-MUTE  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Another synth sound reminiscent of that famous classic analog dinosaur. Patch Selects offer more real-time control than the original instrument.

MODULATORS

POLY KEY: Detuning/vibrato.  
MOD WHEEL: Detuning/vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: N/A

PATCH SELECTS

MOOG-MUTE.  
 A sub-octave is added.  
 A pop attack.  
 Deep and dark MOOG-MUTE.

PROGRAM NAME: ANAREZO  
EFFECT TYPE: Chorus+Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Reminiscent of older synths, this sound highlights the resonant qualities of the SD-1 to create its unique timbre.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Increase reverb amount.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases brightness.

PATCH SELECTS

ANAREZO.  
 Percussive attack only.  
 A darker resonant waveform is added.  
 Pitch drops an octave.

PROGRAM NAME: PERKY-MOOG  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
Another variation of that famous fat analog synth sound often used in the bass position of modern arrangements.

MODULATORS

POLY KEY: Increases vibrato.  
MOD WHEEL: Increases vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases brightness.  
VELOCITY: N/A

PATCH SELECTS

PERKY-MOOG.  
 Resonant variation.  
 Pop variation.  
 Thin variation.

PROGRAM NAME: CROSS-BASS  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
This bass patch is extremely velocity sensitive, making the response very expressive and dynamic.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Changes the tonal color.  
VELOCITY: Adds the slap sound.

PATCH SELECTS

CROSS-BASS.  
 A darker tone with a smoother pop.  
 Similar to 0X, with the deep tone doubled.  
 Same as 00.

PROGRAM NAME: SLICK-ELEC  
EFFECT TYPE: Large Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
SLICK-ELEC is the bass sound to use for all your sessions. This deep warm sound could fool the studio masters.

MODULATORS

POLY KEY: Adds a natural vibrato.  
MOD WHEEL: Adds a radical vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases the volume of the synth component.  
VELOCITY: Increases dynamics.

PATCH SELECTS

Slick electric bass.  
 SLICK-ELEC Variation 1.  
 SLICK-ELEC Variation 2.  
 SLICK-ELEC Variation 3.

PROGRAM NAME: BLEACHBASS  
EFFECT TYPE: 8-Voice Chorus 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
BLEACHBASS is the funkier bass to go slappin' and poppin' with. Its deep and punchy sound can cut through all musical boundaries.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume.

PATCH SELECTS

BLEACHBASS.  
 Octave variation of X0.  
 Synth bass.  
 Octave variation of X0.

PROGRAM NAME: JAZZ-ORGAN  
EFFECT TYPE: Roto-Speaker + Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
A swingin' organ sound like the old B-3's designed for Jazz, Rock, and Blues.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Slows the roto-speaker effect.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Increases key-click volume.  
VELOCITY: Increases volume.

PATCH SELECTS

Big heavy JAZZ-ORGAN.  
 A drawbar variation.  
 Another drawbar variation.  
 Yet another drawbar variation.

PROGRAM NAME: DIRTY-ORGAN  
EFFECT TYPE: Dirty-Roto+Delay  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
Remember the good old days? Forget the cartage problems and enjoy making music. The Mod Wheel controls the rotation of the speaker, and the drawbar settings are changed by using the Patch Select buttons.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Controls Roto-Speaker effect.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls key-click volume.  
VELOCITY: N/A

PATCH SELECTS

DIRTY-ORGAN.  
 Drawbar variation 1.  
 Drawbar variation 2.  
 Drawbar variation 3.

PROGRAM NAME: NU-CHOIR  
EFFECT TYPE: 8-Voice Chorus 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
A new choir sound to add to your new and old musical compositions.

MODULATORS

POLY KEY: Increases chorus amount.  
MOD WHEEL: Adds fast vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Slightly increases volume.

PATCH SELECTS

NU-CHOIR.  
 Thin variation of 00.  
 Dark variation of 00.  
 Thin variation of X0.

PROGRAM NAME: DIGITALIAN  
EFFECT TYPE: 8-Voice Chorus 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOMPITCH TABLE: N

DESCRIPTION  
A creative representation of the operatic tenor/bass voices made popular in Italy.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Increases volume.

PATCH SELECTS

DIGITALIAN.  
 Humanoid.  
 Tenor.  
 Mixed.

**PROGRAM NAME: CHORALE-2**

EFFECT TYPE: 8-Voice Chorus 2

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Atmospheric choir sound with nice Patch Select variations. Open up those pearly gates and listen to the angels sing.

**MODULATORS**

POLY KEY: Adds vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: N/A

VELOCITY: Increases volume and shortens attack rate.

**PATCH SELECTS**

CHORALE-2.

Adds a non-tonal cluster sound.

Cluster sound only.

Similar to 0X but adds a flute component.

**PROGRAM NAME: 90-S-VOX**

EFFECT TYPE: 8-Voice Chorus 2

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Try mixing this sound into any Preset or composition. 90-S-VOX is the vocal sound that's going to shape the nineties.

**MODULATORS**

POLY KEY: Increases the "OOH" sound.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: N/A

VELOCITY: N/A

**PATCH SELECTS**

Vocals of the nineties.

Wide stereo version.

A fast vocal swell.

More emphasis on the "OOH" sound.

**PROGRAM NAME: DRAMA-STGS**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

DRAMA-STGS is a highly dynamic sound program. This energetic string section is designed for dramatic passages.

**MODULATORS**

POLY KEY: Increases volume and adds vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases brightness.

VELOCITY: Increases volume.

**PATCH SELECTS**

A large string section.

A softer version of 00.

DRAMA-STGS in octaves.

Solo violin.

**PROGRAM NAME: NU-STRINGS**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

A new string section that uses several waveforms that are exclusive to the SD-1. Listen to how authentic you can sound.

**MODULATORS**

POLY KEY: Increases brightness.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Adds brightness.

VELOCITY: Increases dynamics and bow attack.

**PATCH SELECTS**

NU-STRINGS.

Octaves.

Crescendo.

An octave crescendo.

**PROGRAM NAME: LUSH-STRG-2**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

A higher tone than LUSH-STRNGS separates this sound from its counterpart.

**MODULATORS**

POLY KEY: Increases the volume and brightness of the crescendo.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases brightness.

VELOCITY: Increases volume.

**PATCH SELECTS**

LUSH-STRG-2.

Without the upper octave.

Warm variation.

The violin is emphasized in this Patch Select.

**PROGRAM NAME: VIOLIN**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

Without a doubt the sweetest sounding and most expressive violin you will find on any synthesizer anywhere. Use the Modulators to control the subtle characteristics of the VIOLIN.

**MODULATORS**

POLY KEY: Adds natural finger vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Increases brightness.

VELOCITY: Increases volume.

**PATCH SELECTS**

Solo violin. You can almost hear the rosin on the bow.

Pizzicato.

Smooth attack.

Slide up to pitch.

**PROGRAM NAME: CELLO**

EFFECT TYPE: Warm Hall Reverb

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

The rich tone of the cello never sounded better. Now you can play the CELLO too, and you don't even need rosin.

**MODULATORS**

POLY KEY: Adds a realistic vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off high frequencies.

VELOCITY: Increases volume and the bow strike.

**PATCH SELECTS**

CELLO.

Pizzicato.

A smooth crescendo.

Cellos in fifths.

**PROGRAM NAME: QUARTET**

EFFECT TYPE: Warm Chamber

TRACK DEFAULTS:

Timbre: 00 Release: +00 Pressure: Key

CUSTOM PITCH TABLE: N

**DESCRIPTION**

A delicate and warm string quartet featuring: violin, viola, cello, and double bass.

**MODULATORS**

POLY KEY: Adds vibrato.

MOD WHEEL: Adds vibrato.

CV PEDAL: N/A

TIMBRE/DATA SLIDER: Rolls off the low frequencies.

VELOCITY: Increases volume.

**PATCH SELECTS**

QUARTET.

QUARTET playing octaves.

A warm variation of 0X.

Solid QUARTET.

PROGRAM NAME: DREAM-GTR  
EFFECT TYPE: Flange+Delay+Rev 2  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Sweet guitar sound with lots of ambience. Play arpeggios and use the wheels and Poly-Key Pressure to make it seem more realistic. This is a great sound for ballads.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: High-pass filter rolls off low frequencies.  
VELOCITY: Increases volume and adds plectrum sound.

PATCH SELECTS

Dream guitar.  
 Fade-in version.  
 Plucked variation.  
 A smoother attack than 00.

PROGRAM NAME: JAZZ-GUITAR  
EFFECT TYPE: Dist + Chorus + Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A smooth even sounding guitar reminiscent of Pat Metheny. Try using JAZZ-GUITAR to play the melodies and use JAZZ-GRAND for its accompaniment.

MODULATORS

POLY KEY: Adds a natural string vibrato.  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Introduces a plectrum (pick) sound.  
VELOCITY: Increases volume.

PATCH SELECTS

JAZZ-GUITAR.  
 A cleaner variation.  
 A more distorted variation.  
 Power version.

PROGRAM NAME: ELEC-GUITAR  
EFFECT TYPE: Phaser+Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A synth guitar sound that lends itself to rhythm applications.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Increases volume and reverb amount.

PATCH SELECTS

ELEC-GUITAR.  
 A different timbre.  
 Another timbre.  
 Music box guitar?

PROGRAM NAME: DIST-GTR  
EFFECT TYPE: Flanger+Dly+Rev 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
A looped distorted guitar sound. Try as a stab for high impact passages. This will surprise you with its playability.

MODULATORS

POLY KEY: Adds vibrato.  
MOD WHEEL: Drops the pitch.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Rolls off the distorted sound.  
VELOCITY: Increases volume and adds a biting tone.

PATCH SELECTS

DIST-GUITAR.  
 Eliminates a harmonic component making a quieter fade out.  
 Muted sound good for accompanying a Rock vocalist.  
 Similar to X0 with a click sound on key-up.

PROGRAM NAME: NU-BEL  
EFFECT TYPE: Chorus + Reverb 1  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
Yes, you guessed it. Sparkling bells can liven up any composition.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds fast vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls brightness.  
VELOCITY: Controls volume.

PATCH SELECTS

New bells.  
 Without the octave.  
 The upper octave.  
 Different harmonics.

PROGRAM NAME: MULTI-BELL  
EFFECT TYPE: Warm Hall Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
An assortment of synth bell sounds.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Adds vibrato.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Roll off low frequencies.  
VELOCITY: Increase volume.

PATCH SELECTS

Synth bell.  
 Grandfather clock bell.  
 Alarm clock bell.  
 Ringing synth bell.

PROGRAM NAME: DRUMS-MAP-R  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: N

DESCRIPTION  
DRUMS-MAP-R offers an assortment of drum sounds that can be used in virtually any style of music. In Drum-Map mode Patch Selects are inoperative in real-time. However they can be altered/edited on the Patch Select page.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Raises the pitch.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: Controls the timbre of certain voices.  
VELOCITY: Increases volume and brightness.

PATCH SELECTS

DRUM-MAP-R (R stands for the ROLAND drum-mapping format).  
 N/A  
 N/A  
 N/A

PROGRAM NAME: 808-MAP-R  
EFFECT TYPE: Plate Reverb  
TRACK DEFAULTS:  
Timbre: 00 Release: +00 Pressure: Key  
CUSTOM PITCH TABLE: D

DESCRIPTION  
808-MAP-R features the famous sound of the classic drum machine. In Drum-Map mode Patch Selects are inoperative in real-time. However, they can be altered/edited on the Patch Select page.

MODULATORS

POLY KEY: N/A  
MOD WHEEL: Changes all kinds of stuff.  
CV PEDAL: N/A  
TIMBRE/DATA SLIDER: N/A  
VELOCITY: Volume.

PATCH SELECTS

DRUM-MAP-R (R stands for the ROLAND drum-mapping format).  
 N/A  
 N/A  
 N/A

**PROGRAM NAME: SLAM-MAP-R**

**EFFECT TYPE:** Plate Reverb

**TRACK DEFAULTS:**

**Timbre:** 00 **Release:** +00 **Pressure:** Key

**CUSTOM PITCH TABLE:** D

**DESCRIPTION**

SLAM-MAP-R is a hard hittin' drum-map; an exclusive feature where each key can be assigned a different controllable voice! Patch Selects are inoperative in real-time, but can be altered/edited on the Patch Select page.

**MODULATORS**

<b>POLY KEY:</b> N/A
<b>MOD WHEEL:</b> Tunes the voices.
<b>CV PEDAL:</b> N/A
<b>TIMBRE/DATA SLIDER:</b> Controls brightness.
<b>VELOCITY:</b> Increases overall dynamics.

**PATCH SELECTS**

<input type="radio"/> <b>00</b> SLAM-MAP-R (R stands for the ROLAND drum-mapping format).
<input type="radio"/> <b>0X</b> N/A
<input type="radio"/> <b>X0</b> N/A
<input type="radio"/> <b>XX</b> N/A

**PROGRAM NAME: MULTI-PERCS**

**EFFECT TYPE:** Warm Hall Reverb

**TRACK DEFAULTS:**

**Timbre:** 00 **Release:** +00 **Pressure:** Key

**CUSTOM PITCH TABLE:** D

**DESCRIPTION**

MULTI-PERCS is an assortment of percussion instruments using the internal drum-map; where each key can be assigned a different controllable voice. Patch Selects are inoperative in real-time, but can be altered/edited on the Patch Select page.

**MODULATORS**

<b>POLY KEY:</b> N/A
<b>MOD WHEEL:</b> Lowers the pitch.
<b>CV PEDAL:</b> N/A
<b>TIMBRE/DATA SLIDER:</b> Changes the pitch of the DOORBELL waveform. Try it!
<b>VELOCITY:</b> Increases the volume and reverb amount.

**PATCH SELECTS**

<input type="radio"/> <b>00</b> Multiple percussion instruments.
<input type="radio"/> <b>0X</b> N/A
<input type="radio"/> <b>X0</b> N/A
<input type="radio"/> <b>XX</b> N/A

**PROGRAM NAME: ORCH-PERKS**

**EFFECT TYPE:** Warm Hall Reverb

**TRACK DEFAULTS:**

**Timbre:** 00 **Release:** +00 **Pressure:** Key

**CUSTOM PITCH TABLE:** N

**DESCRIPTION**

This is a selection of the most commonly used orchestra percussion instruments.

**MODULATORS**

<b>POLY KEY:</b> N/A
<b>MOD WHEEL:</b> Adds vibrato.
<b>CV PEDAL:</b> N/A
<b>TIMBRE/DATA SLIDER:</b> Controls brightness of the ORCH-HIT.
<b>VELOCITY:</b> Increases volume and reverb ambience.

**PATCH SELECTS**

<input type="radio"/> <b>00</b> All of the orchestra percussion.
<input type="radio"/> <b>0X</b> Lower timpani and snare.
<input type="radio"/> <b>X0</b> Middle timpani.
<input type="radio"/> <b>XX</b> Different open hi-hat timbre with middle timpani.

**PROGRAM NAME: INDO/AFRO**

**EFFECT TYPE:** Plate Reverb

**TRACK DEFAULTS:**

**Timbre:** 00 **Release:** +00 **Pressure:** Key

**CUSTOM PITCH TABLE:** D

**DESCRIPTION**

INDO/AFRO offers the finest percussion sounds available in a drum-map configuration; where each key can be assigned a different controllable voice! Patch Selects are inoperative in real-time, but can be altered/edited on the Patch Select page.

**MODULATORS**

<b>POLY KEY:</b> N/A
<b>MOD WHEEL:</b> Raises pitch.
<b>CV PEDAL:</b> N/A
<b>TIMBRE/DATA SLIDER:</b> N/A
<b>VELOCITY:</b> Increases volume and intensity of voices.

**PATCH SELECTS**

<input type="radio"/> <b>00</b> INDO/AFRO assorted percussion sounds.
<input type="radio"/> <b>0X</b> N/A
<input type="radio"/> <b>X0</b> N/A
<input type="radio"/> <b>XX</b> N/A

Part #9310011301  
Price \$4.95 (US)  
Model #VSM-201



THE TECHNOLOGY THAT PERFORMS