

# SET 1

Operation Manual

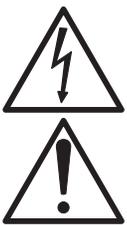
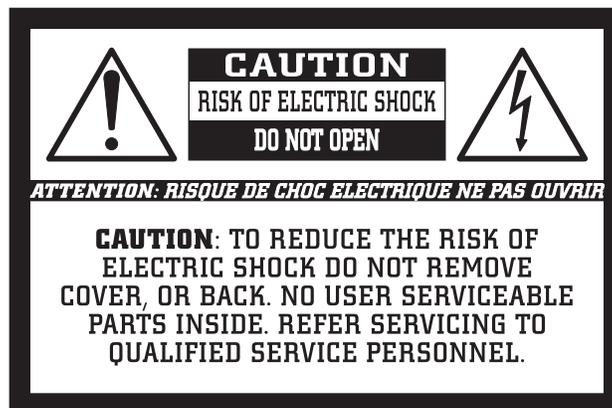
STUDIO ELECTRONICS

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING** - When using electric products, basic precautions should always be followed, including:

1. Read all of the instructions before using product.
2. Do not use product near **any** water source.
3. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an Audiologist.
4. The product should be located so that its location or position does not interfere with its proper ventilation.
5. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
6. Avoid using the product where it may be affected by dust.
7. The product should be connected to a power-supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Do not trample on the power-supply cord.
10. Do not pull the cord, but grasp the plug when unplugging.
11. Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings.
12. The product should be serviced by qualified service personnel when:
  - A. The power-supply cord or the plug has been damaged.
  - B. Solid objects or liquid either have fallen or spilled into the product.
  - C. The product has been exposed to rain.
  - D. The product does not appear to operate normally or exhibits a marked change in performance.
  - E. The product has been dropped, or the enclosure damaged.
13. Do not attempt to service the product beyond that described in the user maintenance instructions. All other servicing should be referred to qualified technicians.

## SAVE THESE INSTRUCTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltages" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug, which must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**DANGER** - Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

# I M P O R T A N T   N O T E S

In addition to the aforementioned "Safety Instructions" printed on the inside front cover, we the good folks at S. E. ask that you **please** read and adhere to the following suggestions.

## **POWER SUPPLY CONCERNS**

- Turn off the power to all equipment before making any connections between devices. This will help to prevent malfunction and speaker damage.
- Be certain to use a separate power outlet for this unit; as sharing one with distortion producing devices (such as motors, variable lighting devices) is unwise.

## **PLACEMENT CONCERNS**

- Placing the unit in close proximity to power amplifiers or equipment containing large transformers is likely to induce hum.
- If the unit is to be operated nearby T.V. or radio receivers, some type of interference might be noticeable. In such cases, move the unit out of proximity with the entertainment devices.

## **MAINTENANCE**

- In hopes that you might keep the visuals of your treasured analog gem in tip top shape, our cleaning specialists
- recommend wiping ever so gently with a slightly dampened soft cloth. For those stains of a more tenacious temperament add a mild detergent to the mix; always remembering to follow with that ubiquitous "soft dry cloth".
  - Never apply solvents of any kind - benzene, paint thinner, propyl alcohol, etc., to avoid the risk of nasty discoloration, disfigurement **and most importantly** those deadly liver flukes. *(It should be parenthetically noted that neither solvents nor the unit itself are ever to be taken internally!)*

## **OTHER PRECAUTIONS**

- Protect the unit from strong jolts and vibration. Especially when standing on well established fault lines.
- Never apply strong pressure to the front, back or side panels, or strike them in any manner whatsoever. Yelling, however, is certainly permissible and quite cathartic.
- It is normal for this compressor/ limiter to generate a certain degree of heat.

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
◆ IMPORTANT NOTES	ii 1
◆ OSCILLATOR BANK	1
◆ OSCILLATOR TUNE PAGE	1
◆ FILTER	2
◆ ENVELOPES / VCF	2
◆ (ENVELOPES) VCA	3
◆ ENVELOPE EDIT PAGE	3
◆ MOD	4
◆ MODULATION EDIT PAGE	4
◆ CONTROL	4
◆ PROGRAMMER	5
◆ AUDIO MIX LEVEL EDIT PAGE	5
◆ MISCELLANEOUS EDIT PAGES #1 & #2	5
◆ MIDI EDIT PAGES #1 & #2	6
◆ BEND PAGE	6
◆ NAME PROGRAM PAGE	7
◆ COMMON FUNCTIONS	7
◆ SCREEN JUMPS	7
◆ EXTERNAL INPUT	7
◆ X MODEL CONTINUOUS CONTROLLERS	8
◆ BANK A & B PATCH LISTS (BANK "1" & "2" X MODEL)	
◆ X MODEL ADDENDUM	

Welcome to the world of discrete, programmable Analog synthesis, and the amazing sounds it produces. The SE -1 is inspired by the classic circuitry of the Minimoog Filter, Oscillators, and VCA. We've also incorporated "our take" on the "boxy", buzzy, and bright 12-dB filter of the Oberheim S.E.M., for greater tonal expression. Four envelopes, three LFOs, full MIDI implementation, and a host of original extra features await you. And, of course, the legendary, the immortal, and the ubiquitous: Bank A, patch #04...

This manual is divided into sections that correspond to the SE -1's front panel. Let's begin apprentice Analogians.

## **OSC BANK**

Wave form selection: (Triangle) (Sawtooth) (Pulse). These can be selected either individually or collectively.

**PULSE WIDTH:** Adjusts the harmonic content of the pulse wave. A square wave can be obtained by setting the knob at 12 o'clock. (Effective when pulse wave is selected)

**FREQ 1, FREQ 2, FREQ 3:** Controls the pitch of each oscillator. Stepped (quantized) in semi-tones over a five octave range

**SYNC 2:** Forces Oscillator 2 to follow Oscillator 1 in hard synchronization so it will therefore tune only to harmonic frequencies of Oscillator 1. Intermediate frequency settings of Oscillator 2 will produce unusual wave shapes and timbres.

**SYNC 3:** Forces Oscillator 3 to follow Oscillator 1 in hard synchronization...

\* Use sync feature in conjunction with Envelopes 3 and 4 assigned to Swp 2, and or Swp 3 for subtle and dramatic harmonic filtering effects.

## **OSCILLATOR TUNE PAGE**

Displays octave and fine-tune settings of oscillators.

Functions accessed on this page:

**MASTER TUNE:** Continuously varies overall pitch flat or sharp just over a semi-tone.

**FINE 2:** Continuously varies pitch of Oscillator 2 flat or sharp just over a semitone.

**FINE 3:** Continuously varies pitch of Oscillator 3 flat or sharp just over a semitone.

## **FILTER**

**FREQUENCY:** This adjusts the cutoff frequency of the 12db and 24db filters. It is rather like a tone control. As you rotate the knob clockwise, the higher the frequencies are which pass through the filter; thus, the brighter the sound.

**RESONANCE:** Adjusts the amount of filter resonance, which emphasizes the cutoff frequency region and makes the presence of harmonics more apparent. As the knob setting is increased beyond 3 o'clock (24db filter only) the filter begins to oscillate, and acts like a sine wave audio source.

**24DB:** When lit, the 24db (Moog) filter is active. When not, the 12db (S.E.M.) filter is active.

**TRACKING:** Applies keyboard CV (control voltage) to the filter. The more tracking used, the brighter the sound will get as you ascend the keyboard.

## **ENVELOPES**

The SE -1 has four envelopes. Envelope 1 is permanently assigned to the filter, and Envelope 2 is permanently assigned to the amplifier. Envelopes 3 and 4 can be assigned to a variety of functions via the edit page.

## **VCF**

The filter envelope generator shapes the timbre by controlling the filter cutoff frequency and resonance. The contour pattern is initiated when a key is struck, producing a gate (or note). The initial appearance of the gate triggers the envelope to proceed through its ATTACK and DECAY times. After the ATTACK and DECAY times have elapsed, the generator will produce a steady control voltage; playing the sound at the level set by the SUSTAIN knob for as long as the gate (or note) is held. When the key is released the RELEASE knob sets the rate at which the sound disappears.

**ATTACK:** Adjusts the length of time for the envelope generator's output to go from zero level (when key is initially pressed) to maximum level.

**DECAY:** Adjusts the length of time for the envelope generator's output level to go from maximum level to sustain level.

**SUSTAIN:** Adjusts the sustain level from zero to maximum. This is a level control, not a time control. Sustain time is determined by touch. If sustain is set at maximum, then the decay knob setting is irrelevant. There is no level below maximum to which the envelope can decay.

**RELEASE:** After releasing key, adjusts the length of time for the envelope generator's output to go from sustain level to zero. If sustain is set at zero, then the release knob setting is irrelevant. There is no level from which the envelope can release. **2**

## **VCA**

The ATTACK, DECAY, SUSTAIN, and RELEASE (ADSR) controls for the VCA shape the amplifier output in the same manner as the corresponding controls do to the filter.

**ENV AMNT 1:** Sets the depth of the applied envelope to VCF cutoff frequency and resonance.

**ENV AMNT 3:** Sets the depth of the applied envelope to the chosen destination. (See LCD edit page).

**ENV AMNT 4:** Sets the depth of the applied envelope to the chosen destination. (See LCD edit page).

**ENV 3,4:** When this switch is lit, front panel envelope knobs control envelope generators 3 and 4.

## **ENVELOPE EDIT PAGE**

Displays Envelopes 1 - 4, their destinations and velocity sensitivity settings.

Functions that Envelopes 3 and 4 can be applied to:

PW1	(OSC 1 pulse width)	MIX3	(level of OSC 3)
PW2	(OSC 2 pulse width)	SWP3	(frequency of OSC 3)
PW3	(OSC 3 pulse width)	RMOD	(ring mod level)
MIX2	(level of OSC 2)	NOIS	(noise level)
SWP2	(frequency of OSC 2)	RESO	(resonance)

**DYN%:** (1 - 4) Percentage of velocity information sent to each envelope amount.

\* When using Envelopes 3 and 4 for Noise, Mix 2, or Mix 3, turn down output level in Audio Mix page for maximum effect. Note: Only one envelope at a time can be assigned to any one destination.

## **MOD**

**RATE:** Adjusts the speed of LFOs 1 - 3. Each LFO can be set at a different rate.

**LFO 2:** When this switch is lit, RATE and DEPTH controls affect LFO 2

**LFO 3:** When this switch is lit, RATE and DEPTH controls affect LFO 3.

**DEPTH:** Adjusts the amount of the selected LFO.

## **MODULATION EDIT PAGE**

Displays LFOs 1 - 3, their destinations and waveforms.

Functions that Floss 1 - 3 can modulate:

*OSC123	(freq of all Osc's)	RMODMX	(ring mod level)	OSC3PW	(Pulse width)
OSC1FM	(freq of Osc 1)	NOISMX	(noise level)	VOLUME	(main level)
OSC2FM	(freq of Osc 2)	VCFRES	(filter resonance)	NOASSN	(nothing)
OSC3FM	(freq of Osc 3)	VCFFM	(filter frequency)		
OSC2MX	(level of Osc 2)	OSC1PW	(pulse width)		
OSC3MX	(level of Osc 3)	OSC2PW	(pulse width)		

Waveforms: Triangle, square, sawtooth up, sawtooth down, noise, sample & hold.

\*LFO 1 only.

## **MODULATION MIDI SYNC PAGE**

Assign midi time clock to drive the LFOs and choose key triggering option.

## **CONTROL**

**VOLUME:** Adjusts main output level.

**GLIDE:** Sets glide (portamento) time for pitch slides from note to note.

**SHIFT:** \*\*Holding this button and pressing < or > or turning **Q** knob in programmer section will advance through edit pages. Use to get to MIDI Edit Page #2 for setting MIDI channel. Holding SHIFT and pressing SAVE will toggle edit-compare function.

**SAVE:** Pressing this button once will initiate "Save to". Pressing again completes this function. Pressing SHIFT following SAVE will cancel it. (Use this as an escape from an edited patch to get to main page).

## **PROGRAMMER**

Patch number is shown on red L.E.D. and patch name on L.C.D.. Up arrow selects bank. Left - right arrows, and **Q** knob select patch. When periods appear, patch selected has been edited. L.C.D. displays all edit pages. Use up, down, left, and right arrows for moving through pages, and **Q** control knob for editing selected parameter.

### **AUDIO MIX LEVEL EDIT PAGE**

Displays and adjusts output levels of Oscillators 1,2, and 3, Ring modulator and Noise.

With multiple waveforms and or multiple oscillators selected, some high-end distortion may occur from over-loading of the filter input. Adjust (decrease) mix levels accordingly. **N2VCA** - if ON, routes noise around filters and directly into the VCA. This is useful for keyclick simulation, etc. (Assign noise to either Env 3, or Env 4).

### **MISCELLANEOUS EDIT PAGE #1**

**GLIDE:** Turns glide or auto bend on and off.

**AUTO GLIDE:** Pitch bends from chosen interval to note being played. Interval is selected in semitone increments up or down one octave. Glide pot on panel sets the bend rate. Normal glide is defeated when any auto bend interval is chosen.

**MULT TRIGGER:** When on, filter envelope is triggered with each keystroke. When off, the envelope is triggered only when key is fully released then re-struck.

**NOTE PRIORITY:** Selects either LOW, LAST, or HIGH note priority.

### **MISCELLANEOUS EDIT PAGE #2**

**12 dB TYPE:** Selects LP (low pass), or HP (high pass) for 12 dB (S.E.M.) filter.

**ENV INVERT:** Selects the inverting of Envelopes 1 and or 3.

**ENV CURVE:** Selects a LIN (linear) or EXP (exponential) curve for all envelopes.

**OSC BOUNCE:** Select 3 amounts of time between trigger of the gate and the CV.

## **MIDI EDT PAGE #1**

This page displays and selects assignments to Mod wheel, After touch, Continuous Controller 1, and Continuous Controller 2.

Functions that can be controlled via MIDI:

LFO 1 (depth of Lfo 1)	PW3 (pulse width of Osc 3)	ENV 3 (env. 3 amount)
LFO 2 (depth of Lfo 2)	VCF (filter cutoff frequency)	ENV 4 (env. 4 amount)
LFO 3 (depth of Lfo 3)	RESO (filter resonance)	ENV 1 (env. 1 amount)
OSC 2 (freq of Osc 2)	MIX 2 (level of Osc 2)	LFO 1 (lfo 1 rate)
OSC 3 (freq of Osc 3)	MIX 3 (level of Osc 3)	LFO 2 (lfo 2 rate)
PW1 (pulse width of Osc 1)	MIXR (level of Ringmod)	LFO 3 (lfo 3 rate)
PW2 (pulse width of Osc 2)	MIX N (level of Noise)	

The range of each controller can be scaled from 0% (no effect) to 99% (full effect).

Controller 1 and Controller 2 can be assigned to receive any of the 128 possible MIDI controllers, with these exceptions:

CON #1 Reserved for Mod wheel	CON #64 Reserved for Sustain pedal
CON #5 Reserved for Glide time	CON #65 Reserved for Glide on/off
CON #7 Reserved for Main volume	CON #121-127 Reserved for mode messages

Note: MIDI controllers add data to the function selected from what is set up in the patch. Only one MIDI controller at a time can be assigned to any one destination.

## **MIDI EDIT PAGE #2**

**CHANNEL:** Selects reception channel 1 - 16.

**MEM PROTECT:** ON1 - no saving can be done. ON2 - no saving can be done and front panel pots are disabled. OFF - memory protect off.

### **SYSX:SEND PROGRAM**

**SELECT, SAVE - SEND:** Initiates System Exclusive functions. Select an individual program or entire memory (ALL), then press SAVE.

## **BEND PAGE**

**PITCH:** Sets bend range from 0 to one octave in semitone increments.

**CUTOFF:** Assigns bender to control filter frequency in semitone increments.

**TRANSPOSE:** Overall pitch transposition. HIGH is up one octave, MED is normal LOW is down one octave.

## **NAME PROGRAM PAGE**

Use this page to name your patches.

The cursor will default to the first character. Use the **Q** knob to select the letter or character. Use the left arrow and right arrow to go forwards and backwards. Pressing the up or down arrow makes a blank space. After programming name save patch again to save name.

## **COMMON FUNCTIONS**

1. Setting MIDI Channel: Hold shift button and press left arrow twice to get to MIDI page.

2. Saving a patch: Press save button once, the switch will be lit and SAVE TO: will appear. You can save over the old patch with the new edited patch by pressing the save button once again, or you can choose a new destination by turning the **Q** knob to another patch location that will be displayed. To save to a different bank, use the up arrow, and then select patch location. If you want to cancel the process or get back to the main page press the shift button.

3. Escaping from an edited patch: Hit save button once then hit shift button. This will get you to the main page; you can then select a new patch using the **Q** knob.

4. Accessing edit pages: While holding the shift button press the < > arrow buttons or turn the **Q** knob.

5. Selecting second memory bank - Bank B: In the Main program page, or the Save to page, up arrow toggles between bank A and bank B.

## **SCREEN JUMPS**

By pressing these buttons or moving these knobs, the display will change to the corresponding edit pages.

Pressing	LFO2 / LFO3	will jump to:	MODULATION EDIT PAGE
"	SYNC (Osc. 3)	"	OSCILLATOR TUNE PAGE
"	24DB	"	MISCELLANEOUS EDIT PAGE #2
"		ENV 3,4	ENVELOPE EDIT PAGE
Moving	GLIDE	"	MISCELLANEOUS EDIT PAGE #1
"	FREQ 1,2,or 3	"	OSCILLATOR TUNE PAGE

## **EXTERNAL INPUT**

Processes audio signals from other *clever* sources. To hear signal, MIDI note(s) must be sent to the SE-1 in order to open VCA.

## **SE-1X CONTINUOUS CONTROLLER ASSIGNMENTS**

- 54 Oscillator 1 frequency
- 55 Oscillator 1 triangle waveform on/off
- 56 Oscillator 1 sawtooth waveform on/off
- 57 Oscillator 1 square waveform on/off
- 58 Oscillator 1 pulse width
- 59 Oscillator 2 frequency
- 60 Oscillator 2 triangle waveform on/off
- 61 Oscillator 2 sawtooth waveform on/off
- 62 Oscillator 2 square waveform on/off
- 63 Oscillator 2 pulse width
- 70 Oscillator 3 frequency
- 71 Oscillator 3 triangle waveform on/off
- 72 Oscillator 3 sawtooth waveform on/off
- 73 Oscillator 3 square waveform on/off
- 74 Oscillator 3 pulse width
- 80 LFO 1 rate
- 81 LFO 1 depth
- 82 LFO 2 rate
- 83 LFO 2 depth
- 85 LFO 3 rate
- 86 LFO 3 depth
- 87 Oscillator 1 mix level
- 88 Oscillator 2 mix level
- 89 Oscillator 3 mix level
- 90 Noise mix level
- 91 Ring mod mix level
- 92 VCF frequency
- 93 VCF resonance
- 94 VCF tracking
- 95 Envelope 1 amount
- 102 Envelope 1 attack
- 103 Envelope 1 decay
- 104 Envelope 1 sustain
- 105 Envelope 1 release
- 106 Envelope 2 attack
- 107 Envelope 2 decay
- 108 Envelope 2 sustain
- 109 Envelope 2 release
- 110 Envelope 3 attack
- 111 Envelope 3 decay
- 112 Envelope 3 sustain
- 113 Envelope 3 release
- 114 Envelope 3 amount
- 115 Envelope 4 attack
- 116 Envelope 4 decay
- 117 Envelope 4 sustain
- 118 Envelope 4 release
- 119 Envelope 4 amount

## BANK A

#01 ANALOG IS ON !  
#02 SECOND 2 NONE  
#03 26 HUNDRED BLOCK  
#04 BASIC RECORD  
#05 WATCH HIM  
#06 BOOMIN'  
#07 GLOOMIN'  
#08 BASS - LINES  
#09 COMIN' CORRECT  
#10 EVENTFULL SHOCK  
#11 FACE THE BASS  
#12 SMOOTHED OUT  
#13 NEUBLE, JAMES  
#14 BROTHER OF MIKE  
#15 WE REMEMBER TONY  
#16 CAPRETTA ETHOS  
#17 U FEEL THAT 2 ?  
#18 CLIFFORD'S 10 %  
#19 SCRIPTED  
#20 CAPRICORN 1  
#21 CARLO'S WAY  
#22 AQUADREAD  
#23 ARCADIA'S QUEEN  
#24 MARNI'S BEST  
#25 DISCONNECT

#26 JANACHY  
#27 87% WRAITH  
#28 SCEPPACERQUA  
#29 VICTOR'S WAVE  
#30 REPRESENTN' S.E.  
#31 WAH WAH WAHTZUN  
#32 LONG & SHORTOFIT  
#33 RIONERO'S SONS  
#34 SAFE & SANE  
#35 ERIT'S HOME  
#36 FUZZ - FACED  
#37 VOCALITY  
#38 SERVICE TO HIM  
#39 GAIN RECOVERY  
#40 JOHN BLACK JR.  
#41 PRIORY OF Z. < 0  
#42 THE REVEREND  
#43 FOUNDATION  
#44 'N SOUL IN T.H.  
#45 THERIOT BROS'  
#46 BASS STOPS HERE  
#47 PUTNAM PROBLEM  
#48 WARM & NICE  
#49 UP RIGHT  
#50 BLUE NOTE COOL

#51 VARIOUS FUNK V. 1  
#52 LINDA'S WINGS  
#53 FUNC LEAD/SINE  
#54 FUNC LEAD/PULSE  
#55 FUNC LEAD/SAW  
#56 BACK IN THE DAY  
#57 SANDFORDIZED  
#58 SHADES OF MY D6  
#59 SERIOUS DYNAMICS  
#60 DR. WORM  
#61 VIBRACHI RES.  
#62 RESONANT EXPERT  
#63 ETHEREAL MAN  
#64 ... WOMAN  
#65 ... CHILD  
#66 FANTASTIC 70'S  
#67 PROFUNDIS IMPORT  
#68 4 U 2 KNOW  
#69 MR. HAMERTIA < GK >  
#70 "MY BROTHAH" T/A  
#71 HIS YOKE IS EASY  
#72 & HIS BURDEN IS LT  
#73 DEEP THOUGHTS  
#74 ROOM WITH A VIEW  
#75 CAMILLE'S DA

#76 BLACKWELL'S TUDE  
#77 ROCKFORD VIALS  
#78 PUNCTUATION UK  
#79 SOUND SEASONAL  
#80 ORIENTED  
#81 HORN OF PLENTY  
#82 STEVIE HORN  
#83 MISSION...  
#84 REED ALERT !  
#85 REEDON GAS  
#86 WE REMEMBER Z  
#87 ELECTRO VIBE  
#88 THE SOUND IS ALL  
#89 ON 2ND THOUGHT  
#90 HOOKED ON SONICS  
#91 THE MAJESTIC 12  
#92 CASWELLZ GENIUS  
#93 ENGLISH GARDEN  
#94 MIND SWEEPER  
#95 OUTER NIMITZ  
#96 CANYONS O' STEEL  
#97 ONCE AGAIN  
#98 SUCTION PIPE  
#99 SINE ON THE ....

## BANK B

#01 MOUNTAIN POLO  
#02 BEAUTY SO BRIGHT  
#03 ONCE YOU KNOW  
#04 THICKEN  
#05 B - 3 BASE + RES.  
#06 THE SHUFFLE TUNE  
#07 INVERTEDNESS  
#08 SHADES OF BERLIN  
#09 DAYLIGHT BURN  
#10 FABRIC OF ROSE  
#11 ROGUES OBEY  
#12 INVERTABLE  
#13 THOUGHT OF THAT  
#14 PRECISION BASS  
#15 NEW LEGACY  
#16 SUPER GLOOMIN'  
#17 LOGAN ?  
#18 HEVONICS  
#19 NOW THAT I'VE...  
#20 SLOP FACTOR  
#21 P.C. DOLLARS  
#22 IN THEORY YES  
#23 F D B SENSOR  
#24 TRANSONIC  
#25 TRANSONIC + A.T.RS

#26 AFTER TOUCH VOL.  
#27 SAPONACEOUS  
#28 BRIZAKILO  
#29 CLONE 1  
#30 CLONE 2  
#31 CLONE 3  
#32 CLONE 4  
#33 THE DEEP SOUTH  
#34 SCHOOL - YARD  
#35 SCHOOL - YARD 2  
#36 SLOW DANCER  
#37 LOW PROFILES  
#38 ON THE REEL  
#39 COR WARRIOR  
#40 FUZZ FACED U  
#41 NEAR BASS XPER.  
#42 SINE OF THE X'S +  
#43 SOLID BOY  
#44 DAVE'S CLASSIC # 2  
#45 TOTAL BASSOONERY  
#46 ANGLOE  
#47 MOLMOH  
#48 CHASTITY'S CHILD  
#49 PERALANDRIAN  
#50 DOOMIN' KICK

#51 HEARTACHE TON. K.  
#52 LEVY'S ALCMY. 909  
#53 LEON'S KICKE  
#54 S.E. KICKE BONUS  
#55 'N SOUL CRAAACK  
#56 LOWEST FI SNARE  
#57 AFTER MARKET SNR  
#58 S.E. SNARE BONUS  
#59 EMERSON'S LEAD  
#60 EMERSON'S LEAD 2  
#61 ETCHO MABER  
#62 ETCHO MABER B  
#63 ETCHO M. FLANGE  
#64 INGRAM'S SKILLZ  
#65 INGRAM'S SKILLZ B  
#66 INGRAM'S SKILLZ C  
#67 HOODWORMED  
#68 REPEAT RINGS  
#69 L.V.'S MINI 1  
#70 L.V.'S MINI 2  
#71 L.V.'S MINI 3  
#72 FUN W/MOD WHEELS  
#73 KNOW YOUR MOD W.  
#74 ENGLISH MODWHEEL  
#75 SEVENTH DEAL

#76 NAMM WAH  
#77 SORRY NEEDLE  
#78 CRACKED HEAD  
#79 50'S TELEVISION  
#80 DONTPLAYSOHARD  
#81 GLIDE BUG  
#82 AIR SHOW/ENGINES  
#83 IN THE WORLD  
#84 BEWAROVE  
#85 LYING SIGNS & WON.  
#86 QUEST 4 MEANING ?  
#87 UNEDTHA  
#88 BREAD OF LIFE  
#89 SAMPLE & STRIKE LP  
#90 SAMPLE & STRIKE BP  
#91 QUADRION  
#92 SHELTER PROJECT  
#93 WHICH WAY L.A.  
#94 GROUND ZERO  
#95 GOLLUM'S RACKET  
#96 WARN THEM !  
#97 B 4 IT'S 2 LATE  
#98 A. GRANITE FORCE  
#99 PULSAR 2000

# SE-1X PATCH LIST: LEXINGTON G/ALLEC SERIES

## BANK A

- |                     |                      |                     |                     |
|---------------------|----------------------|---------------------|---------------------|
| 1 BURSTIN' HOWL     | 26 DUNK SQUAD, THE   | 51 HANK'S ERRAND    | 76 REED OF PLENTY   |
| 2 BURSTIN' HOWL II  | 27 SAY NO MORE       | 52 HANK'S ERRAND 2  | 77 DIG CHORDS 77-84 |
| 3 BURSTN' HOWL III  | 28 LATER THN U THNK  | 53 REDEEM THE TIME  | 78 DIG CHORDS 77-84 |
| 4 LOW-TONED         | 29 COMPRESSION DEAL  | 54 ALL IN USE       | 79 DIG CHORDS 77-84 |
| 5 ADIPOSIA          | 30 COMPRESSION D. 2  | 55 ALL IN USE 2     | 80 DIG CHORDS 77-84 |
| 6 INQUIRY           | 31 SAVA THE FLAVA    | 56 ALL IN USE 3     | 81 DIG CHORDS 77-84 |
| 7 INQUIRY 2         | 32 STURDY LEGS       | 57 BUSTIT IN E FLAT | 82 DIG CHORDS 77-84 |
| 8 SOMEWHAT VOCAL    | 33 AQUASONICKED!!    | 58 BUSTIT IN E F 2  | 83 DIG CHORDS 77-84 |
| 9 COMPTON VIEW      | 34 FADEAWAY BOMB     | 59 FROG FACTOR'D IN | 84 DIG CHORDS 77-84 |
| 10 COMPTON VIEW 2   | 35 FIXED LAND        | 60 THEODETTI        | 85 YEARNING 2 BE 1  |
| 11 SENTRAL THEME    | 36 LOOK MA-NO OSC!!. | 61 THEIR PRINCE     | 86 PURE SINE OF..   |
| 12 RUBBERBANDIN'    | 37 IN THEORY, NO     | 62 F2THEU2THEN2THEK | 87 TOROBE'S HILL    |
| 13 PULSE BASED      | 38 CLEAN SWEEP       | 63 TALKATIV'        | 88 GREAT WALL       |
| 14 JOHN & THEM      | 39 SORN EYES         | 64 TALKATIV' 2      | 89 HOW DID THEY     |
| 15 TRUE P.II        | 40 GO INVERT!!       | 65 SLAP HAPPY       | 90 VARIATION Z      |
| 16 A. SMOOTHER      | 41 GARBOLA           | 66 SLAP HAPPY 2     | 91 VARIATION Z 2    |
| 17 VELUTINOUS       | 42 STEVIE'S KINDNES  | 67 URANDULA'S COAT  | 92 CORPORATE GOONS  |
| 18 TRUE POTENTIAL   | 43 STEVIE'S JOY      | 68 HERBIE'S DREAM   | 93 WHIAL            |
| 19 TRUE POTENTIAL 2 | 44 STEVIE'S LOVE     | 69 HERBIE'S DREAM 2 | 94 EARLY 80'S PERC  |
| 20 RESONANCE SWELL  | 45 STEVIES HAPPINEZ  | 70 ZEPHYRITIC       | 95 DEADLY CYCLE     |
| 21 GIVE IT UP 4 GSR | 46 D-6'N ALL NIGHT   | 71 ZEPHYRITIC 2     | 96 EFFEX OF S. C    |
| 22 PHOENIX PROGRAM  | 47 WORD TO THE MINI  | 72 RAVELIAN         | 97 BELOW MIDDLE C   |
| 23 PHOENIX PROGRAM2 | 48 SHOOTERS BOUNCE   | 73 POULENCIAN       | 98 M.I.A.           |
| 24 AFTER HOURS      | 49 SONSHINE ON ME    | 74 HONEGGERIAN      | 99 RESOLUTION(A.T.) |
| 25 FOSTERIAN        | 50 ALL MY LIFE       | 75 FOREIGN FILM     |                     |

## BANK B

- |                     |                    |                     |                     |
|---------------------|--------------------|---------------------|---------------------|
| 1 NEW BLOOD         | 26 AFTER TWO       | 51 POOLIN'          | 76 VARIATION Z '01  |
| 2 STILL FUNKY       | 27 SAPONACEOUS+    | 52 POOLIN' II       | 77 TAKE ATHORITY    |
| 3 B-3 BASS II       | 28 LATER THAN THAT | 53 YEARNING SPIRIT  | 78 HIGHLY ON        |
| 4 TOO CLOSE TO IT   | 29 COMPRESSION RUN | 54 BERNIE           | 79 90'S TELEVISION  |
| 5 NO RESEMBLANCE    | 30 IMPOSSIBE       | 55 BERNIE 2         | 80 NOTHING ON       |
| 6 N.R. II           | 31 IMPOSSIBE D.    | 56 DON'T EVER ASK   | 81 COURT TV.        |
| 7 INVERTEDNESSY     | 32 CLINIC 5        | 57 ME TO DEPART     | 82 PIXELATED        |
| 8 INVERTEDNESSY II  | 33 THE DEEPEST     | 58 ETCHO MABER S.   | 83 AUTHOR OF FEAR   |
| 9 IF U HAVE 2 KNOW  | 34 SCHOOLYARD '01  | 59 WITH PERMISSION  | 84 ELLA'S DAYDREAM  |
| 10 FABRICIOUS       | 35 SELDOM SCENE    | 60 U AND LA'S COAT  | 85 DISTORTIOS       |
| 11 ROGUE PLANET     | 36 SLOW DANZ       | 61 DISSARAYED       | 86 S&H OVER EASY    |
| 12 RUBBERBANDIN'    | 37 IN THEORY, NO   | 62 MILTON           | 87 GLASSUHA         |
| 13 INVERTO          | 38 IN IT NOW       | 63 GIVE THANKS      | 88 FORGIVE ME L.    |
| 14 TRUE POTENTATE   | 39 WALLACE & G.    | 64 INGRAM '01       | 89 SAMPLE&STRIKE'01 |
| 15 TRUE P.II        | 40 FUZZ FACED UNIT | 65 INGRAM '01 II    | 90 ALARMIE          |
| 16 TRUE P.III       | 41 FUZZ F.U. II    | 66 INGRAM '01 III   | 91 SCIABIN'S SONS   |
| 17 LOGANICK         | 42 GOOD 4 U        | 67 HOODWORMED '01   | 92 YEAR 2000        |
| 18 HEAVY MOMENT     | 43 GRABDATBENDER   | 68 HOODWORM. '01 II | 93 WHIYAL           |
| 19 NOW THAT I KNOW  | 44 SUPPORT         | 69 HOODWORM:'01 III | 94 ELI'S 2ND FIGURE |
| 20 RESONENTIAL      | 45 EDGER           | 70 KNOW YOUR WIFE   | 95 GOLLUM'S R. '01  |
| 21 FC. MINDED       | 46 EDGER II        | 71 BRIGHTWOOD       | 96 DON'T PUSH IT    |
| 22 IN THEORY SERIES | 47 MINI FOUND      | 72 BRIGHTOUR        | 97 TONY'S BROTHERS  |
| 23 F D B SENSOR II  | 48 MINI FOUND II   | 73 GREAT WHY        | 98 NAMM-MARES       |
| 24 TRANSCENIC       | 49 WARREN DRIVE    | 74 ZAVINY           | 99 MASS 4 JEFFREY   |
| 25 MIXED BAG        | 50 JAMPLI          | 75 ZAVINY II        |                     |

# SE-1 X PATCH LIST: SCROGGINS' SYNQUENCE ' 05

## BANK A

- |                      |                     |                       |                     |
|----------------------|---------------------|-----------------------|---------------------|
| 1 SYNCQUENCE         | 26 SUBTLE DISDAIN   | 51 METAMORPHO-KICK    | 76 SKILLSAW         |
| 2 LORDZ OF LEADZ     | 27 WARM MEMORIES    | 52 CRUSTYBASTARD909   | 77 PULSE PATHOGEN   |
| 3 SINISTRY 0 SOUND   | 28 AFTERDARKENED    | 53 DETROITS' NAYBOR   | 78 LISTEN FOR       |
| 4 FLASH BOREDOM      | 29 AFTER THE FALL   | 54 BACKSTAGE 909      | 79 UNDERWATER PULSE |
| 5 FLASH MOREDOM      | 30 WARNING CHIME    | 55 BRIANS'SUBSHAKER   | 80 DEEPSPACEENTROPY |
| 6 PROLONGED MARCH    | 31 ON OR OFF        | 56 POPPY 808 KICK     | 81 WHOLEPOSITION    |
| 7 SMEKUON'S FILTER   | 32 TOWEL OF SUSPECT | 57 CHEEZ MARKET SNR.  | 82 CORNERSTONE 1995 |
| 8 HARDSTEPPIN        | 33 BANDWIDTH METER  | 58 SHORTSNARE         | 83 SATELLITE TERROR |
| 9 909 NASTI TEASER   | 34 WHIP FOR WISDOM  | 59 SNARES ARE BOGUS   | 84 FALLING MIR      |
| 10 PUNCHME PULSE     | 35 RISE RIGHT       | 60 SPONGE BOX         | 85 GERMAN FLEDGLING |
| 11 PUNCHME SAW       | 36 DRIP WITH ANALOG | 61 SEMPER FU SNARE    | 86 RANCID RABIT     |
| 12 RING OF BELLTONE  | 37 PULSE ME         | 62 NAME THAT ET SNR.  | 87 THREERINGSERVICE |
| 13 I INSIST          | 38 BEATING THE FREQ | 63 CANTANKEROUS BOO   | 88 OBSERVANT TREES  |
| 14 BROOMCAKE         | 39 INSECTISLIDE     | 64 WHEEL TO LIVE      | 89 CIRCUITS CRY OUT |
| 15 UNSYNCEDESEQUENCE | 40 OMINOUSIMUS      | 65 TRIPPIN' OVER ME   | 90 WOMEN NEX TO ME  |
| 16 ACIDIC RYTHMIC    | 41 AMBIENT SUSPENSE | 66 RAYO DIAWOHNI      | 91 STILLSMALLVOICE  |
| 17 JACKED UP FUNK    | 42 TAKE IT IN       | 67 INSOMNIAK SLEEP    | 92 CHEWYON          |
| 18 ARPEGGIO ON ACID  | 43 SECONDS REMAIN   | 68 IMPRESSIONABLE     | 93 CHEWYON 2        |
| 19 SPLIT SYNC        | 44 MAUDLIN WHEEL    | 69 HILLS HAVE EYES    | 94 WHIPIT OBLIVION  |
| 20 BEYOND ANALOGUE   | 45 POLYGONE DOOR    | 70 RISE TADA OCCASION | 95 COMPRENDO DEBAJO |
| 21 HOLDMETHENSAMPLE  | 46 POLYGON DOOR     | 71 RISE BASS RISE     | 96 ACID NEWS FLASH  |
| 22 RISE OF DECEIVER  | 47 BEYOND A SHADOW  | 72 1996D&BRISE        | 97 RHYTHMIC BELLS   |
| 23 MODULATOR RIGID   | 48 NEBULAE HERESY   | 73 REPEAT AFTER ME    | 98 WHO STOLE SYNC ? |
| 24 TRILLS OF ENERGY  | 49 THE UNFOUNDED    | 74 PERVASSIVE SYNTH   | 99 DARK LEAD        |
| 25 SATURNS' RINGS    | 50 SIMMONS BRICK    | 75 SQUARE MEAL        |                     |

## BANK B

# **Addendum to SE-1 Manual Covering SE1X Update Features**

Congratulations on your recent purchase of the SE-1X or SE-1X upgrade. This addendum will cover the additional features now available, and those soon to be implemented. In an effort not to disappoint, and in true Studio Electronics fashion, both the "spartan" SE-1 manual and this "joint" are purposefully telegraphic. (Read brief – very brief) Nevertheless, we certainly do apologize, to those who are certain more is more, for the "slimness" of these materials... but dig: over the years very few souls have complained, due mainly (we've convinced ourselves, at least) to a simple yet effective operating system, so painless and pleasant to navigate, that very little reference to the manual is needed by our loyal Analogians. A phatter, more descriptive manual is, however, in process. (Read back-burnered)

## **ADDED FEATURES AND FUNCTIONALITY:**

Quadrupled Memory: 4 banks in ROM, 4 in RAM  
Smoothed-out pot response  
Front Panel sending and enhanced reception of MIDI controller data  
External Input (not standard with x upgrade)  
Flash ROM upgrade for sysex system updates  
Expanded LFO and Envelope performance (software release 2-15-01)  
LFO MIDI Clock Sync (software release 2-15-01)  
Exponential Glide (software release 2-15-01)

## **Software Version**

You will see this displayed on the main patch page in the lower right corner. The first units shipped are version 0.72.

## **Memory**

The SE-1X has 8 banks in memory. 4 are ROM and 4 are RAM. Edits can be made to the ROM patches and then saved to any RAM location. To navigate through the banks use - you guessed it - the bank switches. The arrow above the switch indicates the direction. On original SE-1s you will only see the word "bank" underneath the up arrow.

## **Sounds: (version 0.73)**

BANK 1: Original Factory Standard Sounds: Bank A

BANK 2: Original Factory Standard Sounds: Bank B

BANK 3: Lexington G Sounds

BANK 4: Allec Series Sounds

BANK 5,6: User Sounds

BANK 7,8: Random (Some of our best sound effects were created from these scrambled patches!). Call us for an explanation (easier to speak than type) on how to remove random characters and values in the edit windows, and keep that magic sound of the patch the same; we're thinking you'll probably figure this out on your own. Tak.

**PLEASE NOTE:** Version 0.72 units have missing patches in ROM banks 3 and 4. Sounds from 35 - 99 are missing. Unfortunately we were unable to fix this before a handful of units shipped. All we can say is: D@#! – our software developer best be enjoying his sun soakin' in Mexico. Not to worry, this problem will be fixed by the time you receive your unit, as you will most likely have been contacted by us prior to reading this. You will read this - *Won't you?*

## **Sounds: (version 0.72)**

BANK 1: Original Factory Standard Sounds: Bank A

BANK 2: Original Factory Standard Sounds: Bank B

BANK 3: Lexington G Sounds 1-35

BANK 4: Allec series Sounds 1-35

BANK 5: User 1-35, Lexington G 36-99

BANK 6: User 1-35, Allec Series 36-99

BANK 7: User Sounds

BANK 8: Those Parabolical Random Sounds

## **Saving Patches from ROM to RAM (version 0.72)**

You've changed a ROM patch and want to save your edits. Press "save"; this will be a little confusing for the now - we'll clear it up in version 0.73, and your trusty backlit LCD screen displays:

SAVE 01 (patch number) TO: the name displayed here will be the corresponding patch name in bank 5, on the line below, BANK 1 will still be displayed. To actually save to this bank 5 location you will have to press the bank up switch; the screen will then display BANK 5. From here you can keep pressing the bank up switch to the desired bank, as well as rotating the encoder to select the desired patch location. After you have chosen your desired bank and patch location press "save" again. Pressing "exit" will abort this procedure. Note: after pressing exit it will seem as though you have saved the patch to that location, but it is there in name only. The name will disappear after changing patches.

Saving in version 0.73 will be the same except that the "SAVE TO" name will not change to the BANK 5 name until either the bank switch or encoder is moved.

### **Saving Patches from RAM to RAM**

Press "save", rotate the encoder and/or press the "bank" switches to select desired location. Press save again, to complete the operation.

### **External Audio Input**

Any sound source can be sent through the SE-1s filter circuits via this audio input. By plugging into the input the noise sound source is replaced with you're very own external sound sources. Use the noise mix level to adjust. Any amount of level may be sent into this input. Check it doe: *higher levels will ultimately overload the filter input and distortion effects shall occur.* **NOTE:** to hear the external audio source, a MIDI note must be sent and held or "pulsed". It is only when a MIDI note is received, that the unit's envelopes can be triggered, in turn, causing the VCF/VCA /LFOs/Ring-Mod to process (Read mangle) the signal. One can use the mix levels to add or remove the SE-1X sound sources, if so desired.

### **Bugs**

So far we haven't encountered any, but there might be one or two lurking. If you experience any unusual operation, please let us know and we'll remedy.

### **Updates**

New update information, bug fixes, and important info will be accessible @ [studioelectronics.com](http://studioelectronics.com) (*da web site*). Downloads and/or direct e-mails of system updates will be posted/sent as available.

Please feel free to contact us if you have any questions, or comments;



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