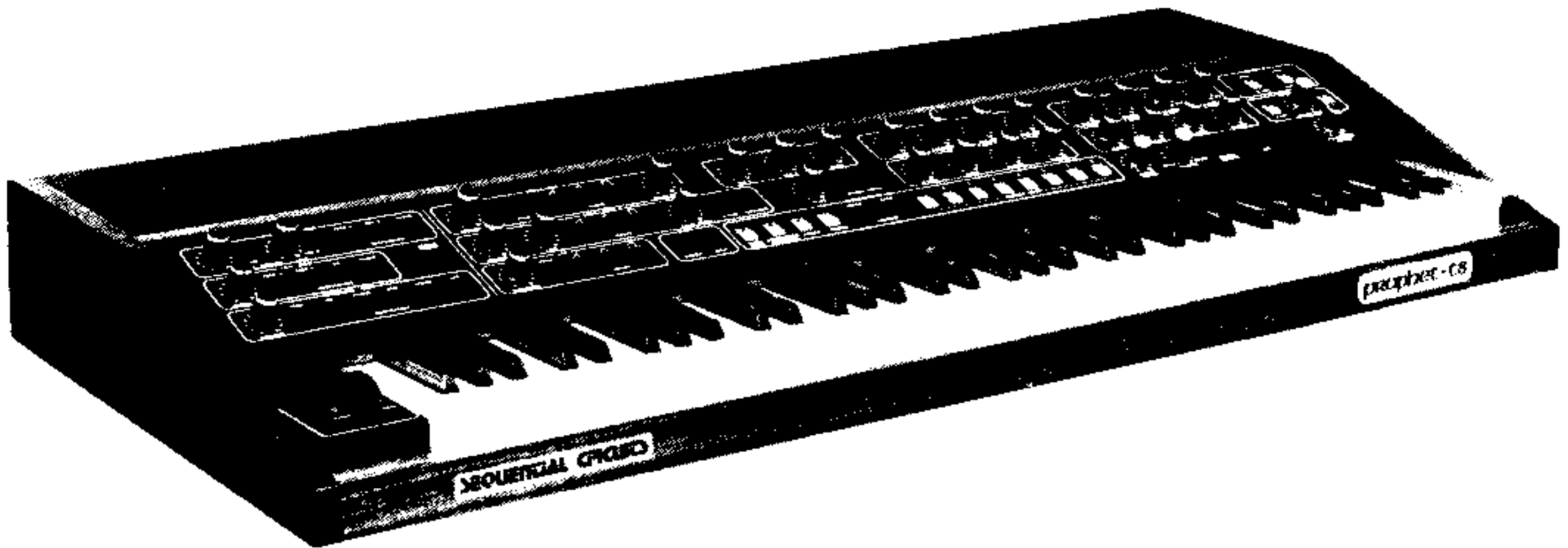


PROPHET -T8



Sequential Circuits has done it again! Introducing the **PROPHET-T8**: a completely touch sensitive (velocity and pressure), fully programmable, 8-voice polyphonic synthesizer! The 76-note wooden keyboard (A to C) has been packaged in a compact design weighing less than 60 lbs. and measuring 48" long, 21" deep, and a scant 4½" high. With 128 programs, this instrument is the most sophisticated 8-voice synthesizer ever.

The weighted action of the **PROPHET-T8's** keyboard is designed for precise musical control of the instrument. Keyboard velocity sensing is accomplished with solid state switching which provides a wider dynamic range than other methods currently available. This improved method of "reading" the keyboard accurately reflects the subtlety of your playing. Velocity sensitivity is fully adjustable and has been incorporated into the ADSR envelope generators, which allows touch control of all envelope parameters. The release time can also be controlled by the velocity with which the key is released. The Poly-Mod section provides additional flexibility by routing the velocity-controlled envelopes to other destinations, such as oscillator frequency or pulse width.

Each key has an independent pressure sensor which is activated by applying force to the key after it has been depressed. This "second touch" can be used to control frequency of Oscillator A and B, pulse width of OSCA and B, filter, amplifier, LFO amount, and LFO frequency.

The eight voices (16 oscillators) of the **PROPHET-T8** are assigned according to the four keyboard modes: SINGLE Mode sounds eight voices over all six octaves; DOUBLE Mode blends two different programs into each of four voices; SPLIT Mode divides the keyboard and allocates four voices to each side of the programmable "split point" with a different program for each set of four voices; UNISON/TRACK Mode combines up to eight voices on one note (these voices may be either the same pitch or arranged in a chord composed of up to eight notes).

A built-in real-time sequencer has been included in the **PROPHET-T8**. With a memory capacity of over 600 notes, this sequencer will record up to eight separate sequences and will remember all velocity information. Sequences can be played back in SINGLE-PLAY Mode or LOOP Mode.

Like the Prophet-5 (Rev. 3), the **PROPHET-T8** is always in Edit Mode. The **T-8's** oscillators have full wave form capability: triangle, sawtooth, and variable pulse width waves. A new envelope mode called ADR offers much more natural percussive envelopes (ADR Mode sets sustain **duration** to zero). Both ADSR envelopes have two programmed release settings; the second release value is selected with either the "Second Release" switch or the release footswitch. The Mod-Wheel can be programmed for an initial setting with the "Initial Amount" knob. A UNISON/TRACK Footswitch Jack has been added to the back panel; in performance, new chords can be easily locked in with a footswitch. The GLIDE function is fully polyphonic.

8/82



location:

Nijverheidsweg 11c
3641 RP Mijdrecht
The Netherlands

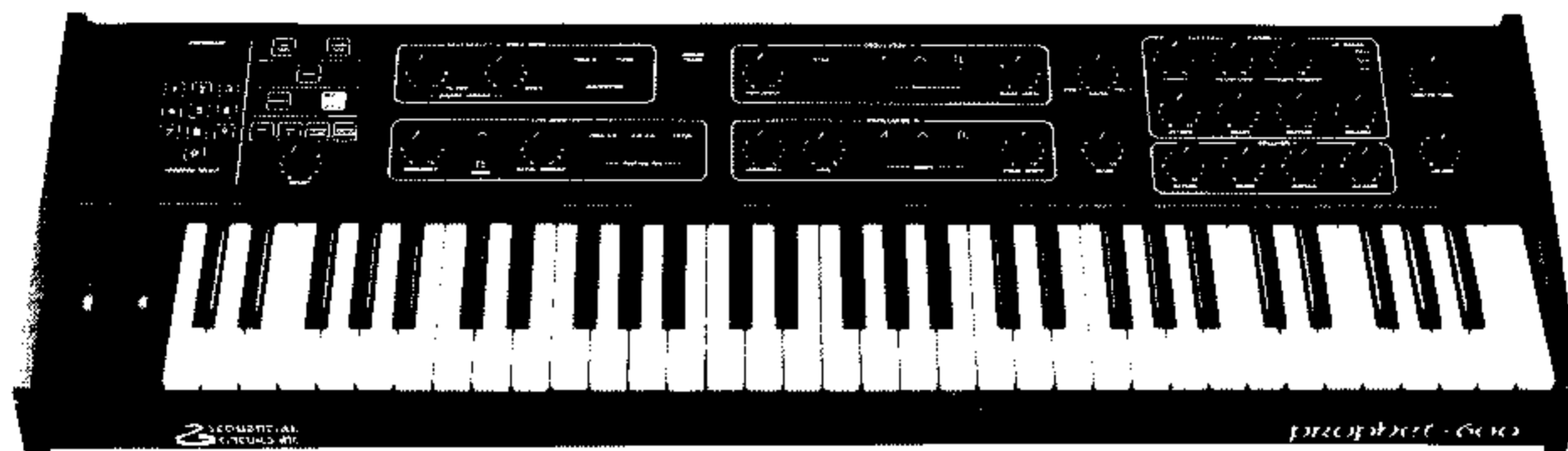
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Tlx. 12721 sqntl nl

THE NEW PROPHET!



Introducing the **PROPHET-600**, a completely programmable, 6-voice polyphonic synthesizer.

The **PROPHET-600** reflects the quality of sound and correctness of features which have made Prophet synthesizers the standard of comparison for polyphonic synthesizers. The **PROPHET-600** features the same stable oscillators and accurate computer tuning found in the Prophet-5.

Fully programmable, the **PROPHET-600** stores 100 programs which are quickly and easily accessible. Any program in memory can be modified (edited) by altering any knob or switch setting, which instantly shifts control of that parameter from computer memory to the front panel.

Other performance features include a polyphonic real-time sequencer with non-volatile memory, variable dual-mode arpeggiator (latchable), polyphonic glide, and chord tracking.

The **PROPHET-600** has four major back panel functions: **audio output**, suitable for headphones as well as amplifiers; **cassette interface** for program or sequence storage on tape; **multi-function foot-switch jack** which will latch chords in Unison/Track mode, latch the arpeggiator or external arpeggiator clock pulse input, and control sequencer Stop, Record, and Playback functions; **Musical Instrument Digital Interface (MIDI)**, an easy-to-use system for interfacing synthesizers with one another and with home computers.

Sequential Circuits, in conjunction with several other manufacturers, has pioneered the development of the MIDI. The MIDI-equipped **PROPHET-600** can be connected with one cable to any other MIDI-equipped instrument. For example, when two **PROPHET-600's** are interfaced, either keyboard can control both synthesizers, allowing four oscillators per voice and two different programs sounding simultaneously! The MIDI is also compatible with home computers for program storage, patch print-out, music notation, sequencing, and multi-keyboard orchestration.

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location:

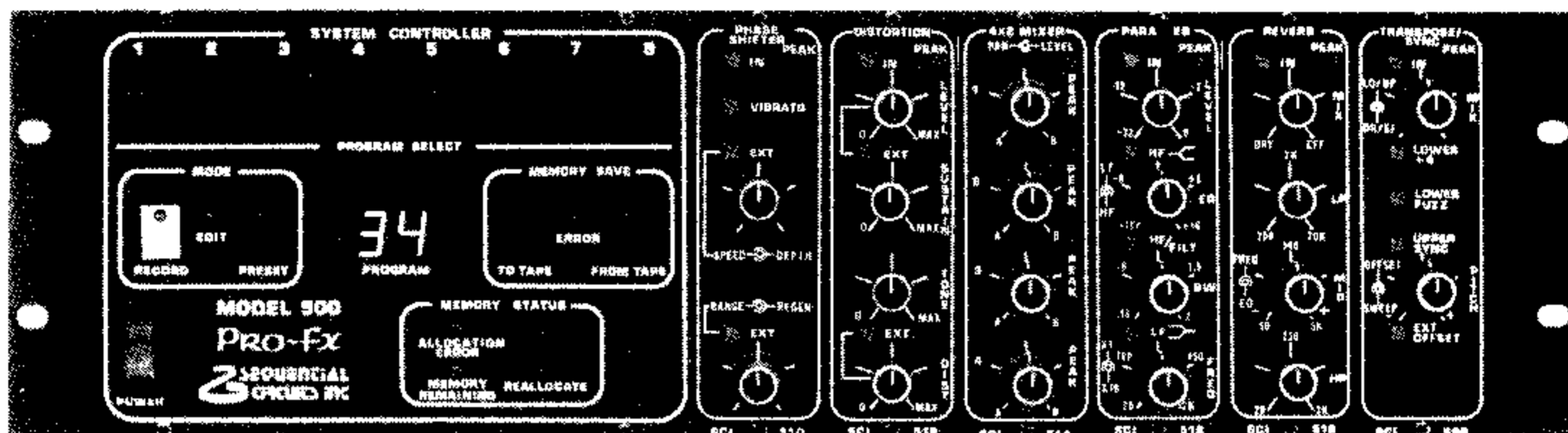
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The PRO-FX Programmable Audio Signal Processing System

SYSTEM CONTROLLER

The **Model 500 System Controller** is a micro-computer designed to store in memory 64 programs (knob and switch settings) for up to 30 effects modules. The System Controller will also allow you to preset sequences of program changes, actuated by the footswitch (for live performance), or synchronized tape pulse (for playback/mixdown).

The System Mainframe is a standard 19 x 5 1/4 inch rackmountable chassis which includes the System Controller and space for 6 modules. A lower cost expansion chassis will accommodate 8 additional modules. Power and program control for up to 3 expansion units (total of 30 modules) is provided by the Mainframe.

Mainframes can be "slaved" together if more than 30 modules are needed.

All operating modes of the PRO-FX are directed by the System Controller. The desired program is entered on the 8 Program Select switches and appears on the LED display. The mode switches initiate Record or Preset, and the Edit LED indicates that a preset has been modified by adjusting a control or changing a switch. The Memory switches load the non-volatile program memory to or from a tape deck (cassette or reel-to-reel). The Allocation controls are used to configure the program memory to the system's current module arrangement.

EFFECTS MODULES

Phase Shifter (Model 510) is completely programmable and designed to be used with the Model 500 System Controller/Mainframe. It uses low-noise circuitry and a 4-stage phase shifting network. Besides speed, depth, and range controls, the regeneration knob controls the depth of the effect from very mild to intense. External speed and range switches allow pedal or voltage control of sweep speed and range.

Distortion (Model 512) is completely programmable and designed to be used with the Model 500 System Controller/Mainframe. This module allows independent variable control of sustain and distortion, from completely clean sustain with no distortion to maximum distortion with a minimum of sustain.

4 x 2 Expandable Mixer (Model 514) is completely programmable and designed to be used with the Model 500 System Controller/Mainframe. It has four inputs with level and pan controls. Maximum gain can be set from 20 dB to 40 dB via the internal trimmer on each input channel to accommodate both line and instrument level signals.

Parametric Equalizer (Model 516) is completely programmable and designed to be used with the Model 500 System Controller/Mainframe. This equalizer has two overlapping bands which can be switched for peaking (band-pass or notch) or shelving operation. Each band has EQ cut/boost, bandwidth, and frequency parameter adjustments. The low-frequency (LF) band ranges from 20 Hz to 2 kHz. External control of the LF frequency is available through a back panel jack (for "wah-wah" applications). The high-frequency (HF) band ranges from 200 Hz to 20 kHz. The HF band can also be switched to function as a tunable low-pass filter with a very sharp cutoff.

Reverb (Model 518) is completely programmable and designed to be used with the Model 500 System Controller/Mainframe. It is a very smooth reverberation unit using a 6-spring delay line and active limiting to eliminate spring side-effects. This module also has a sophisticated 3-band EQ which sets bandwidth and tone of the reverb signal.

Transpose/Sync (Model 520) is completely programmable and designed to be used with the Model 500 System Controller/mainframe. This module provides many synthesizer effects for other instruments. It will track a note one or two octaves below the original pitch as well as a separate note from an octave below to an octave above. The upper voice can be "hard synced" to the original voice or one octave below. The upper voice can also have its pitch swept up or down by a sweep triggered on each new note (this gives the "sweeping sync" tone used on many keyboard synthesizers).

The Flanger/Doubler and Digital Delay programmable modules will be available in 1983.

Prices and Specifications Subject to Change Without Notice.

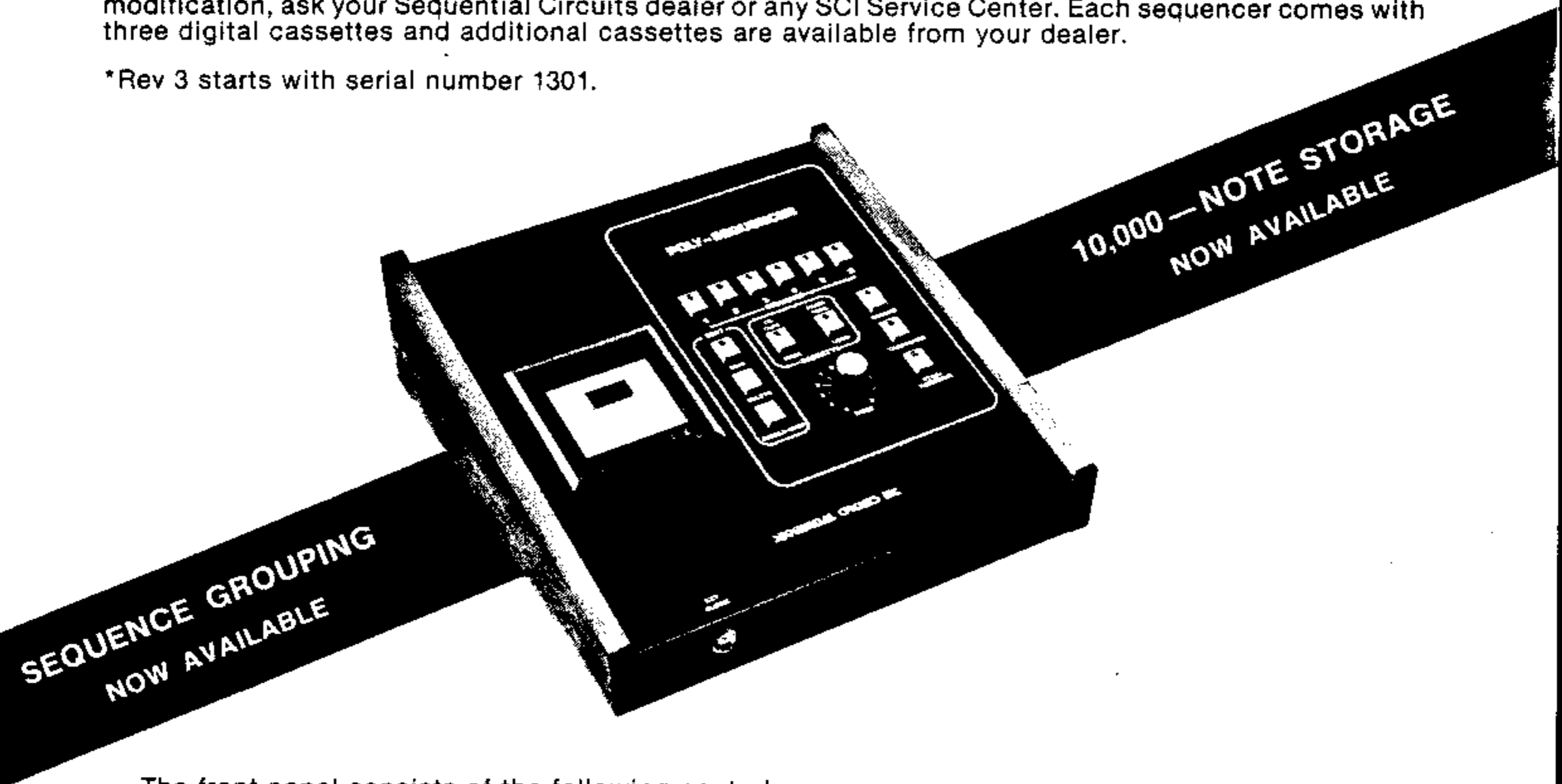
POLYPHONIC SEQUENCER FOR THE PROPHET-5

The Polyphonic Sequencer for the Prophet-5 is self-contained with its own power supply, digital cassette deck, and connection cable. This unit offers all the features of the Prophet-10 sequencer: 2500-note storage, up to six separate sequences, instant transposition, real-time or single-step recording, variable playback speed, and overdubbing. You can edit single notes, chords, or entire sequences, and save your sequences and programs on digital cassette.

Sequences can be single-step recorded with a footswitch, leaving both hands free to play the keyboard. Program changes can be set within a sequence to vary timbre, volume, or other parameters. An external clock input allows synchronized playback with other instruments (such as an electric drummer).

Retailing for a suggested \$1295, this sequencer interfaces with any new Prophet-5 (Rev 3) by connecting one cable to the interface socket on the back panel of the synthesizer. Earlier Rev 3* models must be modified for use with this product and the remote keyboard. For more information about Rev 3 modification, ask your Sequential Circuits dealer or any SCI Service Center. Each sequencer comes with three digital cassettes and additional cassettes are available from your dealer.

*Rev 3 starts with serial number 1301.



The front panel consists of the following controls:

- SEQUENCE switch — Selects one of six sequences to be recorded or played back.
- EDIT switch — Selects edit mode for overdubbing or deleting.
- DELETE switch — Permanently erases any note(s) or program changes in a sequence.
- SINGLE-STEP switch — Can program exact timing sequences or step through a sequence for overdubbing or deleting.
- SAVE TO TAPE switch — Writes the current sequences and 40 Prophet-5 programs into the digital cassette.
- LOAD FROM TAPE switch — Loads a set of sequences from the tape into the sequencer. It will also load the 40 Prophet-5 programs if the RECORD ENABLE switch on the back panel of the Prophet-5 is enabled. (This can be done while playing, with no interruption in a real-time performance.)
- RECORD switch — Used to record a sequence and as a safety interlock for other functions, such as recording onto the digital cassette.
- TRANPOSE switch — Enables instant transposition of the entire sequence up or down — actual amount selected on the keyboard.
- STOP/CONTINUE switch — Stops recording or playback of sequences, or continues playback.
- SPEED knob — Controls speed of playback. When pulled, it selects a slow clock speed for single-step sequences.
- EXT CLOCK jack — Replaces internal clock with an external clock source.

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