

URGE 2 ON R/E

March 11

Dear Woody and Steina,

Found a job--selling equipment for MPCS. This is partially a commission situation, and while I'm probably not permitted to sell to you (Alan Neal's territory), I may be permitted to sell to Media Study (some question here) and can certainly sell to ETC/Binghampton, Hallwalls, and the various other folks up there. So, please spread the word. Prices will be the lowest and apply to film, video, sound equipment and most supplies.

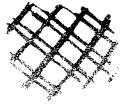
The reason I write is that MPCS, incredibly, does not have documentation on their R/E. With the exception of Brumage, nobody there knows either how it works or how to use it. Henry B. (can't remember his last name, head of production) asked me for documentation (did Rutt fuck them over too?) and I shall lend them Washer's but I think Jeffy's might be more ~~helpful~~ useful to them. Control sources and processors are as on your machine, except that they have the "music interface," which probably will never give them any problems. Incidentally, their display is unlike any I've ever seen. It's an oscilloscope tube (round) in a long, thin and square Cahu-like casing. I doubt it's a R/E product; I suspect Brumage built it but he's not been available for questioning. If you would be so kind as to have Jeffy's copied, preferably at some place where you don't have to do the copying yourself, and bill MPCS for the costs, all concerned would be most grateful. (514 W. 57, 10019, my attention). ~~They~~ They are fully aware that the relationship between anyone's documentation and their machine will be distant.

Have you had further discussions with Ralph and Sherry? What's going on in that sector? Now that I'm reasonably settled and have sufficient income, I'd like to finish what we started. It would be possible to meet you in Binghampton during a weekend, or perhaps if all four of you find yourself in NYC at the same time.

Reagrds, and I shall write with more substantive things soon. (Repayment of debts upon receiving first paycheck, next week).

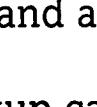
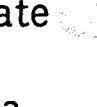
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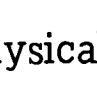
RUTT/ETRA VIDEO SYNTHESIZER

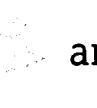
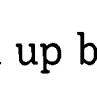
In minutes  instead of days  you can animate  images from flat art , a TV camera , videotape  or motion picture . The images can be in color  or black-and-white ... in high contrast  or continuous  tones. You can also generate within the synthesizer endless variations of abstract lines , forms  and patterns .

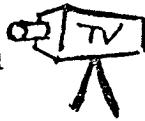
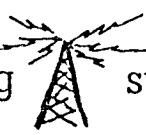
You can alter all – or parts – of image height , width , depth , shape , position , brightness , and movement . It is also possible for you to rotate images in two-dimensional  and three-dimensional  space.

Your pre-set animation and timing can be rehearsed  and then repeated automatically. Synthesizers can be equipped to animate many separate graphic elements  simultaneously.

Surpassing conventional TV effects generators  the R/E synthesizer generates key visual inserts of any desired shape  which you can reshape  and animate  without moving the original graphic or its pickup camera.

The synthesizer can also be controlled by outside events such as music , speech , bio-physical sensors , etc., reflecting non-visual  phenomena in graphic display .

Finally: the synthesized images are displayed on a high resolution kinescope  and picked up by a TV camera  to be fed into a videotaping  or broadcasting  system.

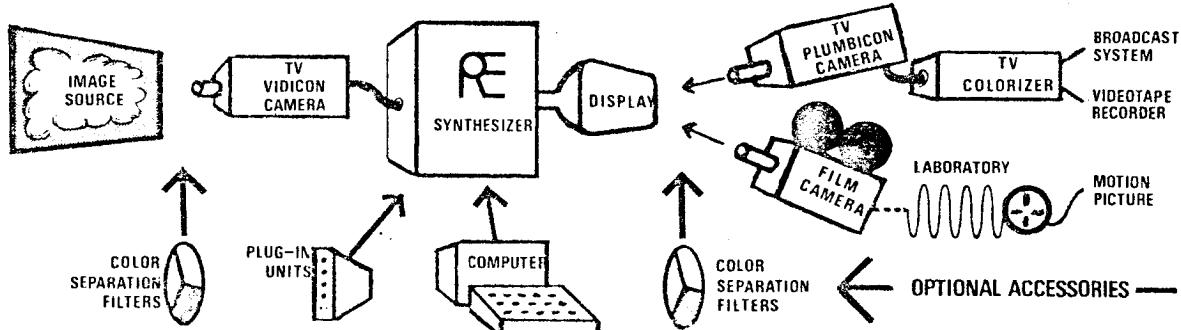
Finally: the synthesized images are displayed on a high resolution kinescope  and picked up by a TV camera  to be fed into a videotaping  or broadcasting  system.

For filming  the display , optional accessories eliminate TV raster  lines from the filmed  image.

Cost-saving breakthroughs put the R/E VIDEO SYNTHESIZER within  the financial grasp of many video and film organizations, with these advantages, among others:

1. Major savings of labor, time and materials in producing conventional animation, optical effects and transitions, backgrounds, etc.
2. Endless potentials for new approaches to TV and film commercials, news, sports, weather, educational, artistic and experimental programs and films.

The basic RUTT/ETRA VIDEO SYNTHESIZER is designed to accommodate components and accessories for initial or subsequent installation to fit the user's budget and changing objectives.



RUTT ELECTROPHYSICS

21-29 West 4th Street, New York, N.Y. 10012 (212) 982-8300



RUTT ETRA

ORIGINAL GRAPHIC

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ARTS TRA

RE
RUTT ETRA

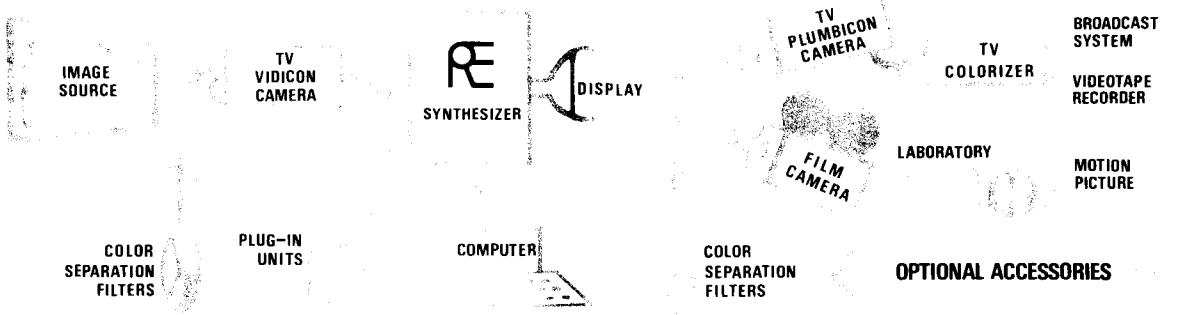
WELCOME TO THE WORLD OF VIDEO SYNTHESIS!

Video synthesis opens the door to a vast new world of dynamic visuals serving functional and artful purposes. It yields major economies in time, labor and materials required for title, graphics and background animation. Already attracting much attention in commercial TV program and advertising fields, it dramatically expands the horizons of experimental video art.

It realizes the dreams of audio-visual producers for a quicker, more economical way to manipulate TV and film images without resorting to cell animation.

Emerging from the early principles of video image manipulation used for radar in the '40s, expanded in video flight simulators of the '50s and in experimental video art of the '60s, the RUTT/ETRA VIDEO SYNTHESIZER represents engineering and cost-saving breakthroughs bringing this incredible facility within the financial grasp of many video and film producers.

The basic RUTT/ETRA VIDEO SYNTHESIZER is designed to accommodate components and accessories for initial or subsequent installation to fit the user's budget and changing objectives.



RE-4-A Video Synthesizer \$8,500.00

DISPLAY CONTROL UNIT

Two separate sets of control varying image:

Height Reduces to thin line; expands inverted image beneath. Rotates horizontally.

Width Varies and inverts. Rotates vertically.

Depth Advances and recedes.

Vert. Position Up-down on or off screen.

Horiz. Position R-L on or off screen.

Intensity Controls brightness.

Horiz. Center Moves image through preset patterns, ala words around theatre marquee.

Vert. Center Adjusts vertical axis.

Plus...**SCAN RATE** switch...**DISPLAY** 0°/90° rotating image 90°...**INT./EXT. SYNC.**

ANIMATION CONTROL MODULES

Summing Amplifier Combines functions.

Diode Module Divides waveforms & timing ramps.

Ramp Generator Automatic control of animation at preset speed and period of time.

Audio Interface Drives animation with audio, bio-feedback or other external signals.

(2) **Waveform Generators** Produces graphic forms for display or for reshaping and animating images. Controls frequency, waveshape, duty cycle, amplitude & Frequency modulation, sync.

DISPLAY UNIT (Type A)

Displays 525-line synthesized images.

RE-4-B Video Synthesizer \$16,300.00

Similar to RE-4-A, but substitutes Type B DISPLAY (1050-line scan) yielding full NTSC resolution in rescanned image for two-inch hi-band videotape or direct telecast.

Manufactured by KELLY ELECTROPHYSICS

SEND FOR full details about RE systems, optional plug-in units and accessories.

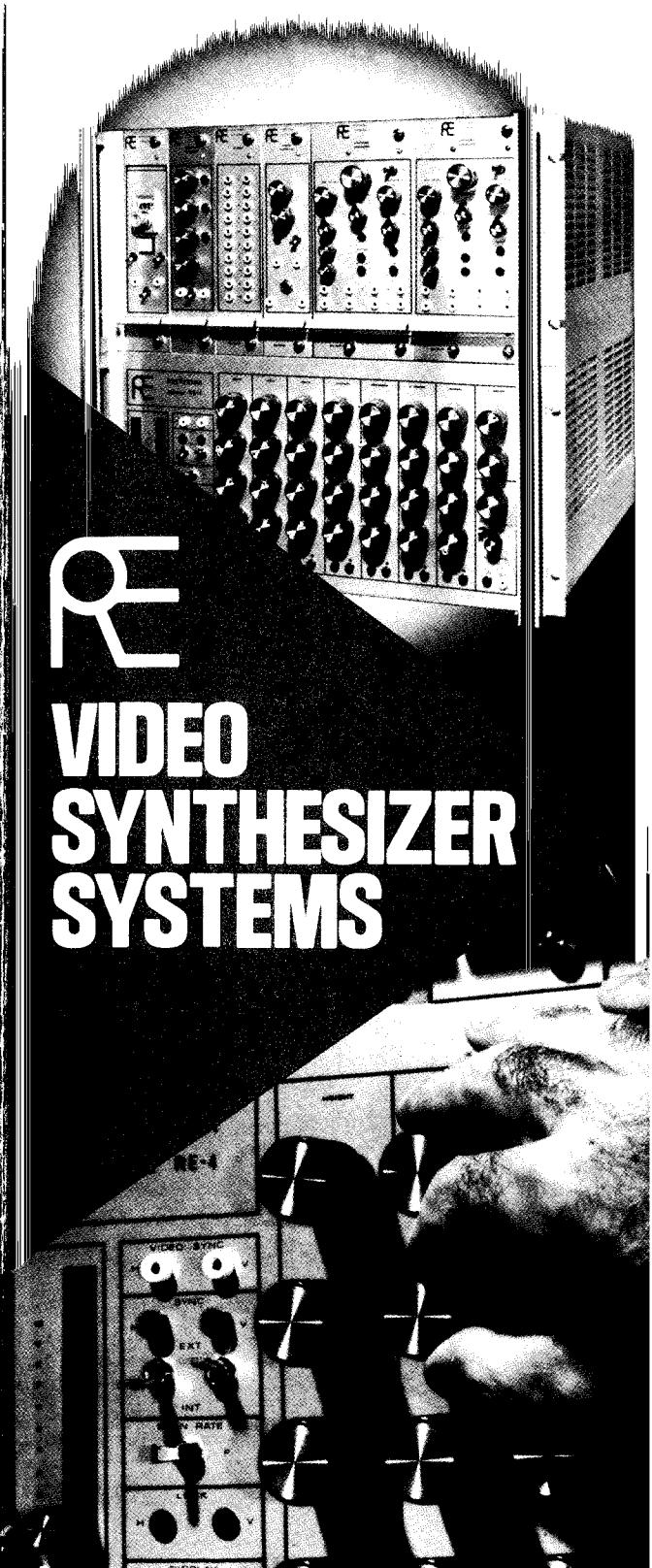
SOLE DISTRIBUTOR



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424 West 49th St., New York 10019

(212) 586-3690



RUTT/ETRA PC-124 PARTS LIST

MΩ X @ N

IC1 \$G 4501 D

Q1,Q2,Q7 RCA 40409

Q3,Q4 RCA 40410

Q5,Q6 MOT 2N4239

D1,D2 1N4385

D3 1N 30 volt zener

C1 1000 mfd 50 WVDC

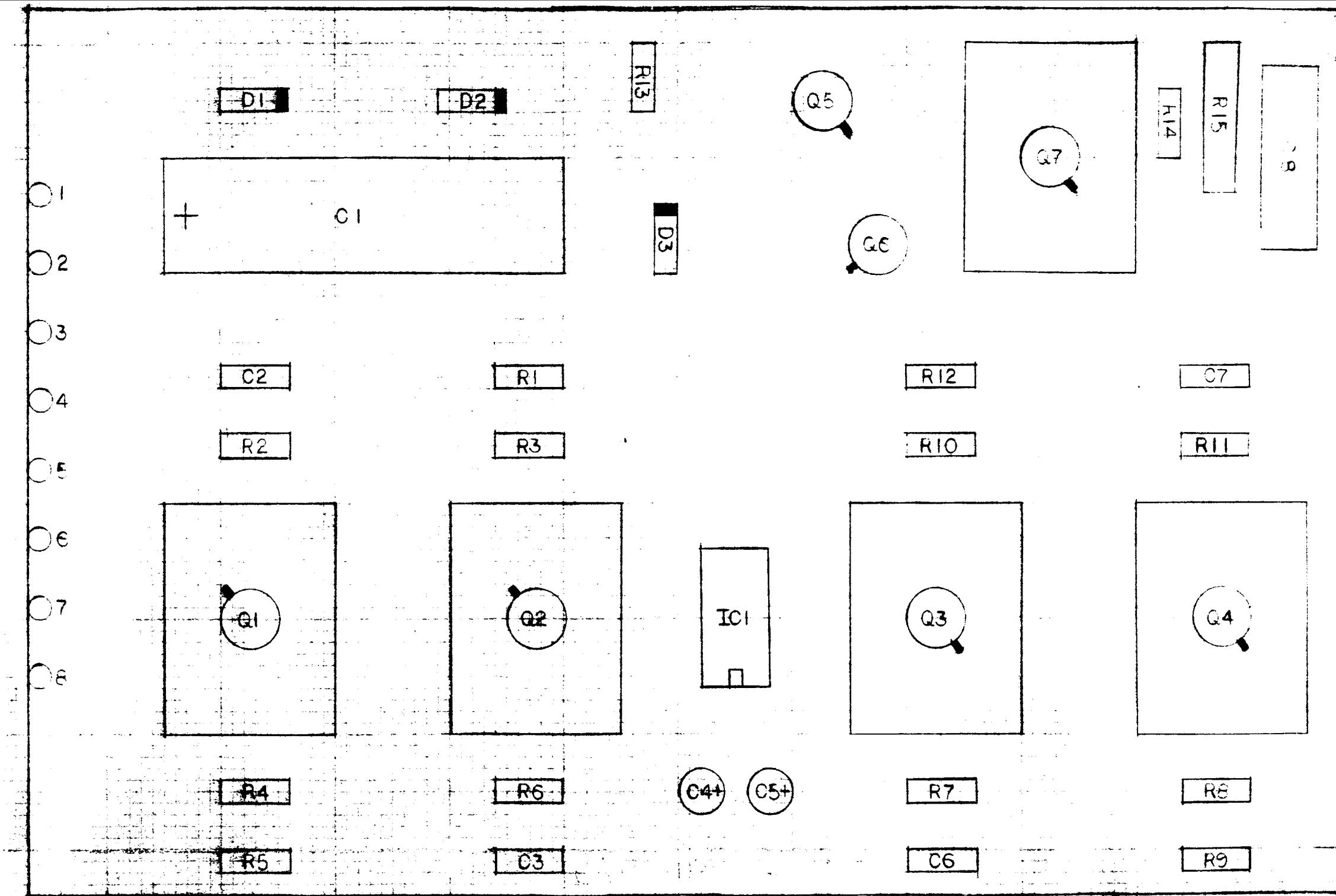
C2,C3,C6,C7 .1 mfd 50 WVDC

C4,C5 blue,gr,br Tantalum 50 WVDC

C8 .35 mfd 50 WVDC

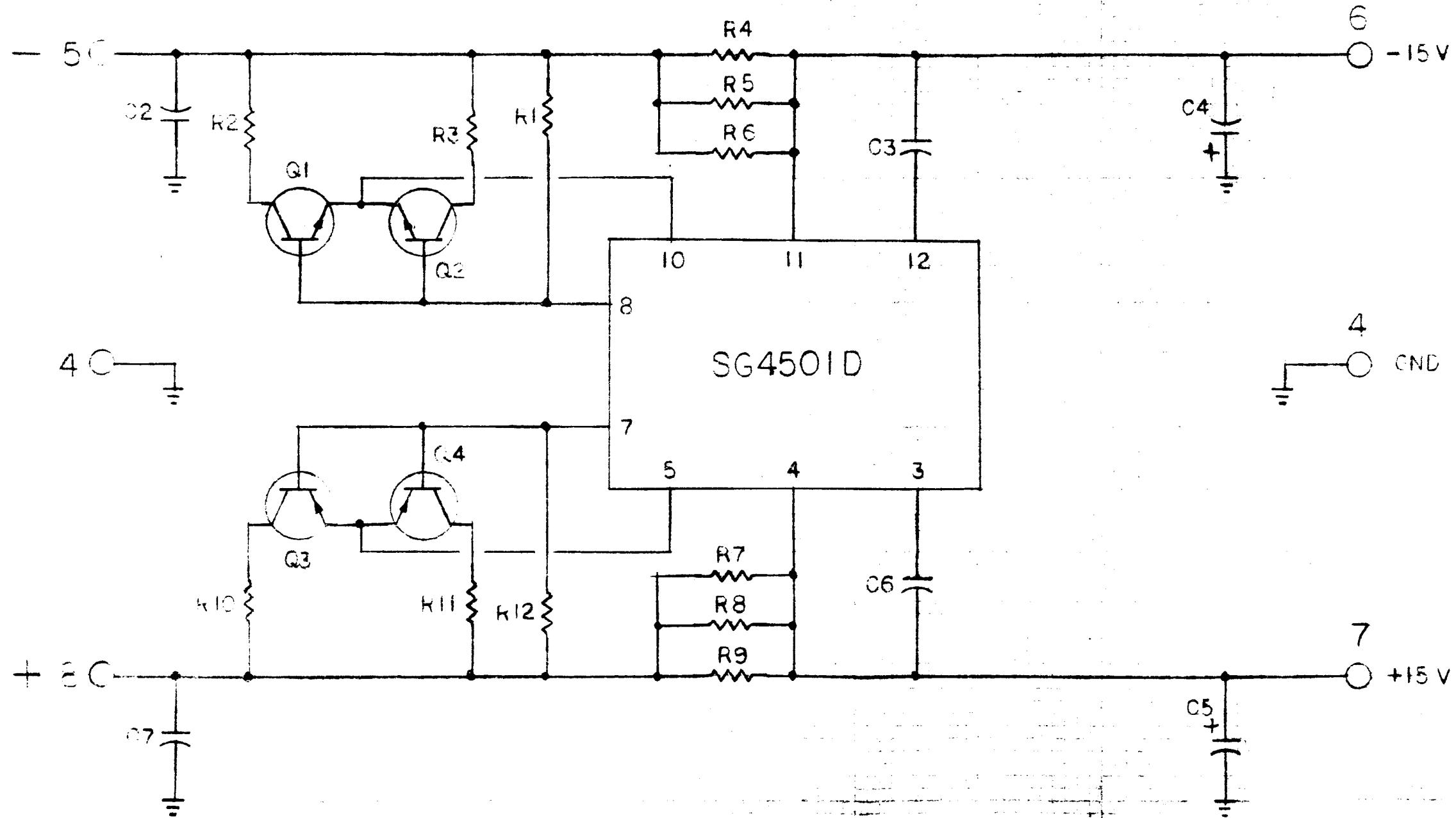
R1 68 ohm $\frac{1}{2}$ W 10%R2-R11 .5 ohm $\frac{1}{2}$ W 1%R12 75 ohm $\frac{1}{4}$ W 5%R13 10K ohm $\frac{1}{4}$ W 5%R14 1K ohm $\frac{1}{4}$ W 5%

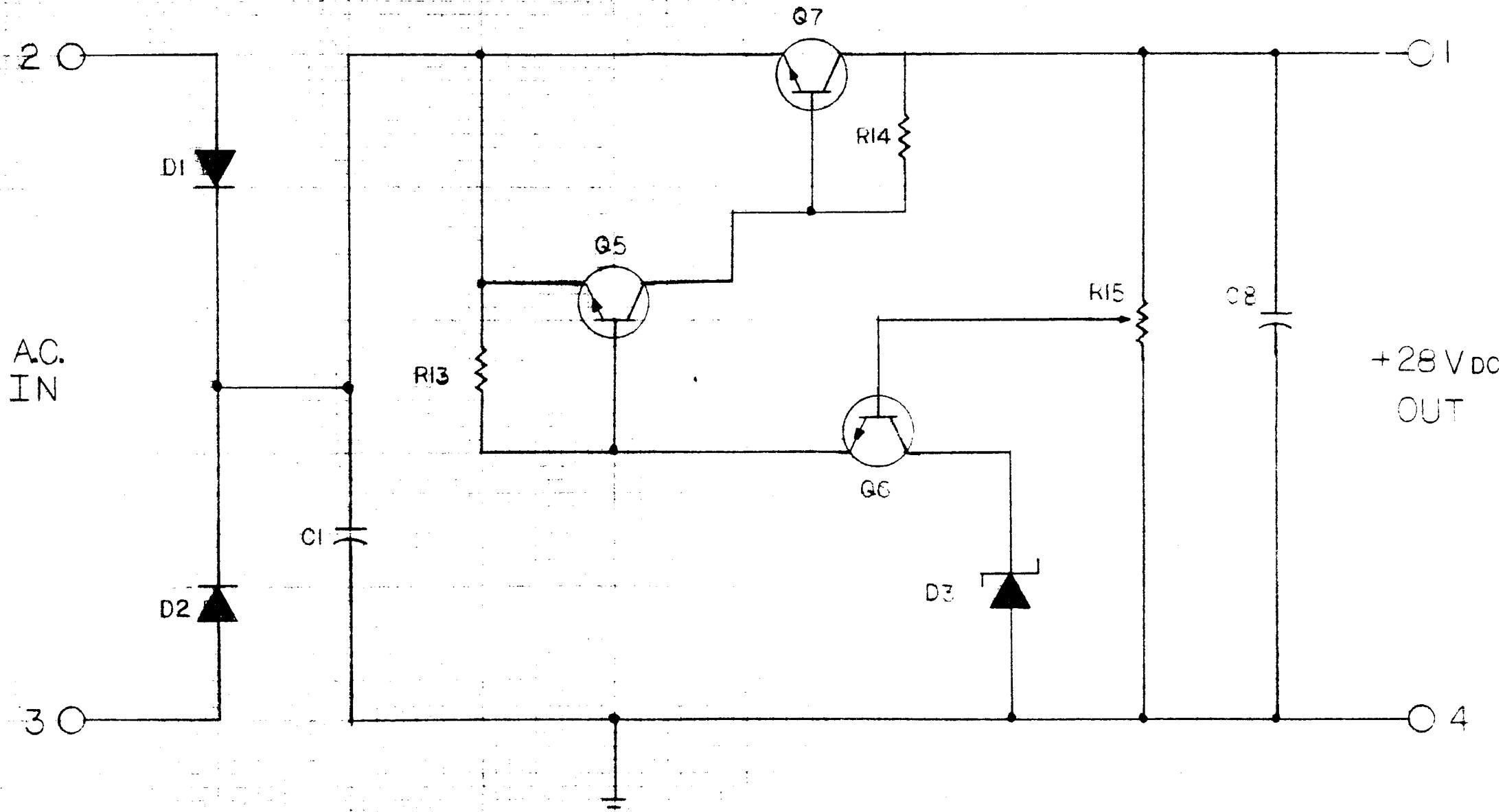
R15 20K ohm trimmer pot.



PC-124 LAYOUT

791 MOXEN





(2/2) PC-124

MOXON