

Q-1 FET - 5462
 Q-2 FET
 Q-3 FET
 Q-4 NPN - 3568
 Q-5 PNP - 3638
 Q-6 NPN - 3568
 Q-7 40409
 Q-8 40410
 Q-9 FET
 Q-10 FET

+50mA
 -20mA

D-1 1N914 -
 D-2 "
 D-3 9.1V ZENER -
 D-4 1N914 -
 D-5 "
 D-6 "
 D-7 "

~~IC-1~~
~~IC-2~~
~~IC-3~~
~~IC-4~~

IC-1 LM 318 OP-AMP
 IC-3 LM 318 OP-AMP
 IC-4 SG-4501M REGULATOR
 IC-2 MC1494 Dip

R-10 OUTPUT OFFSET
 R-12 X.
 R-13 Y.
 R-16 SCALE FACTOR

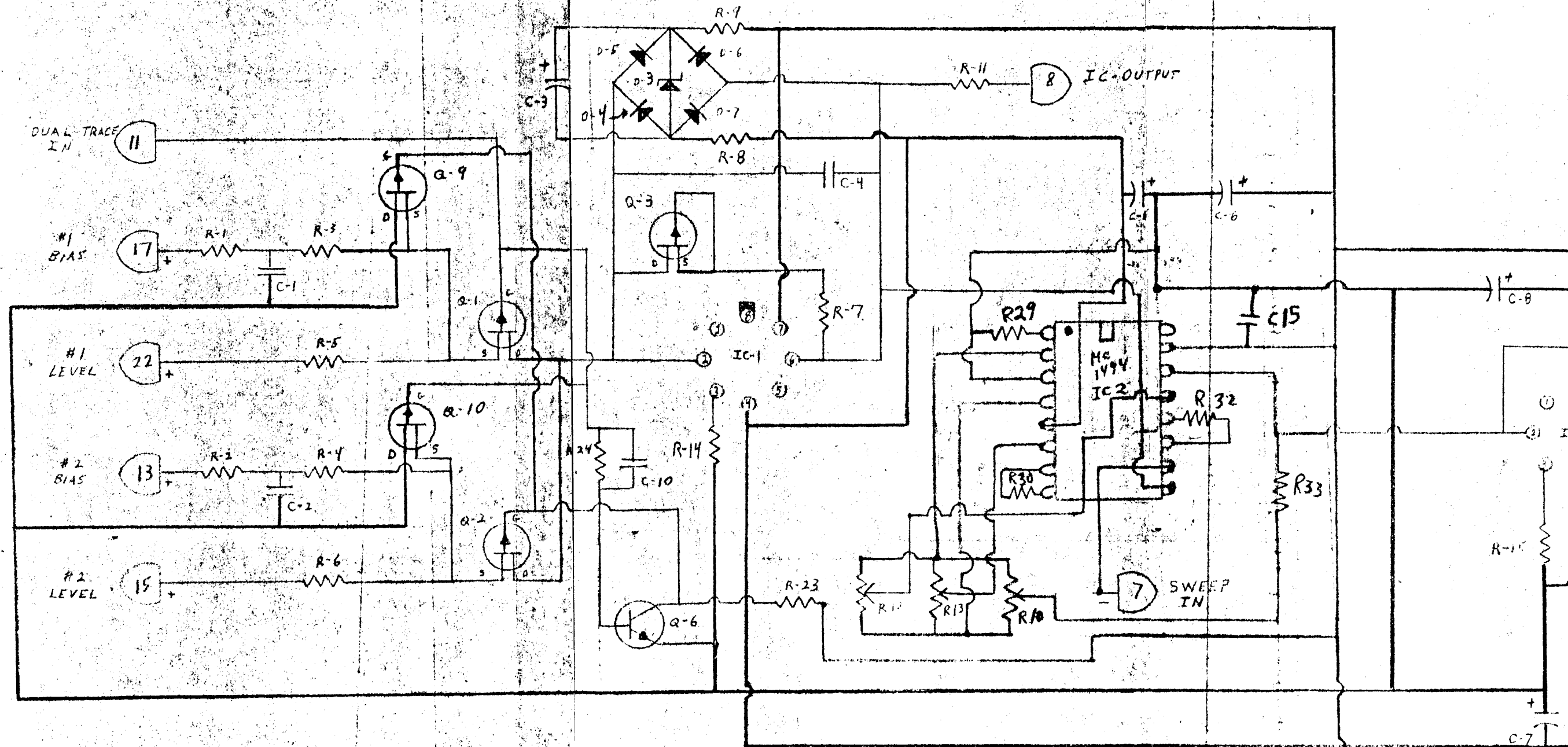
C-1 .1u -
 C-2 .1u -
 C-3 15u 20V -
 C-4 5PF -
 C-5 15u 20V -
 C-6 15u 20V -
 C-7 15u 20V -
 C-8 15u 20V -
 C-9 5PF
 C-10 100PF -
 C-11 10u 25V -
 C-12 10u 25V -
 C-13 .1u u -
 C-14 .1u u -
 C-15 .1 u -

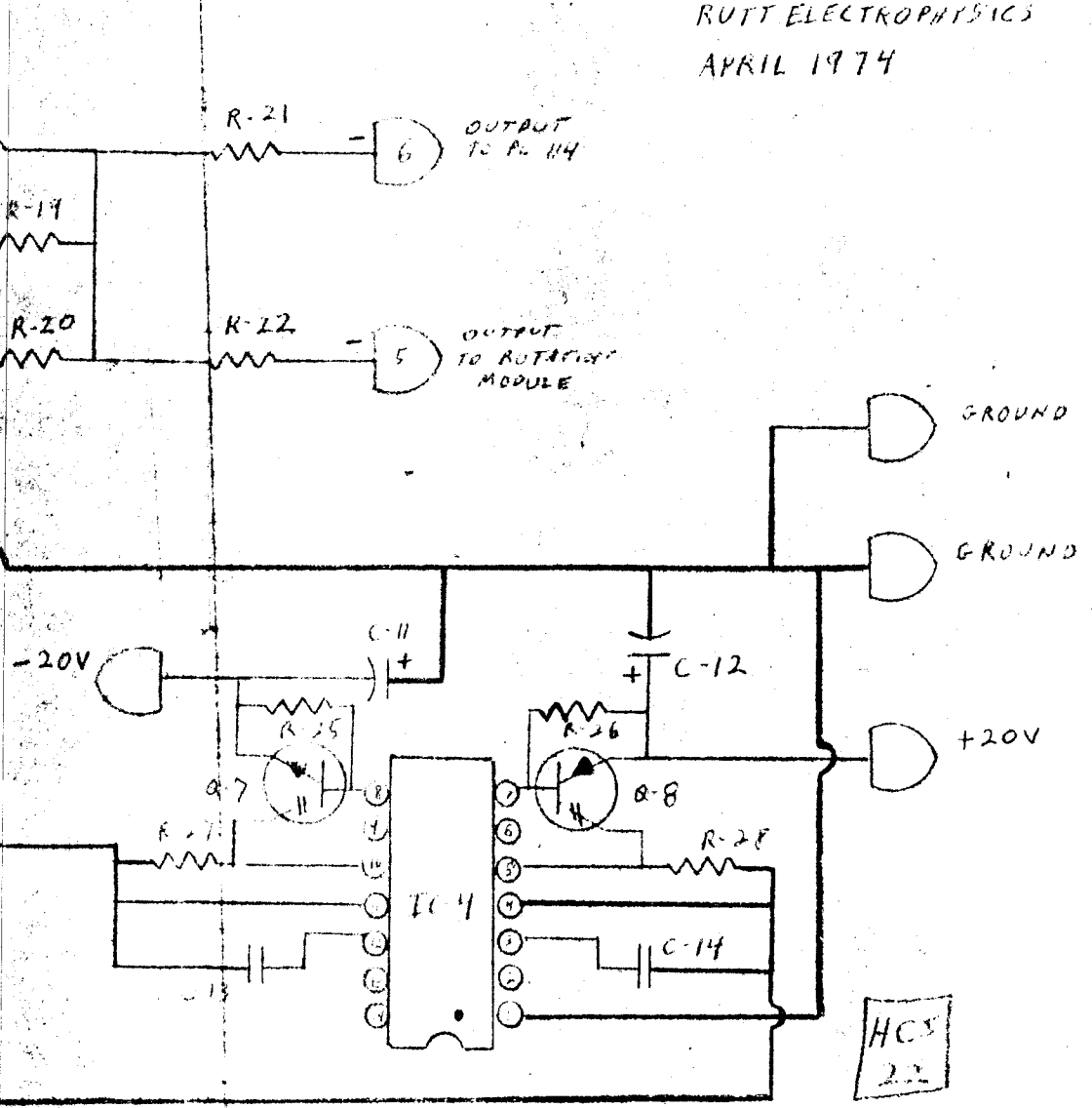
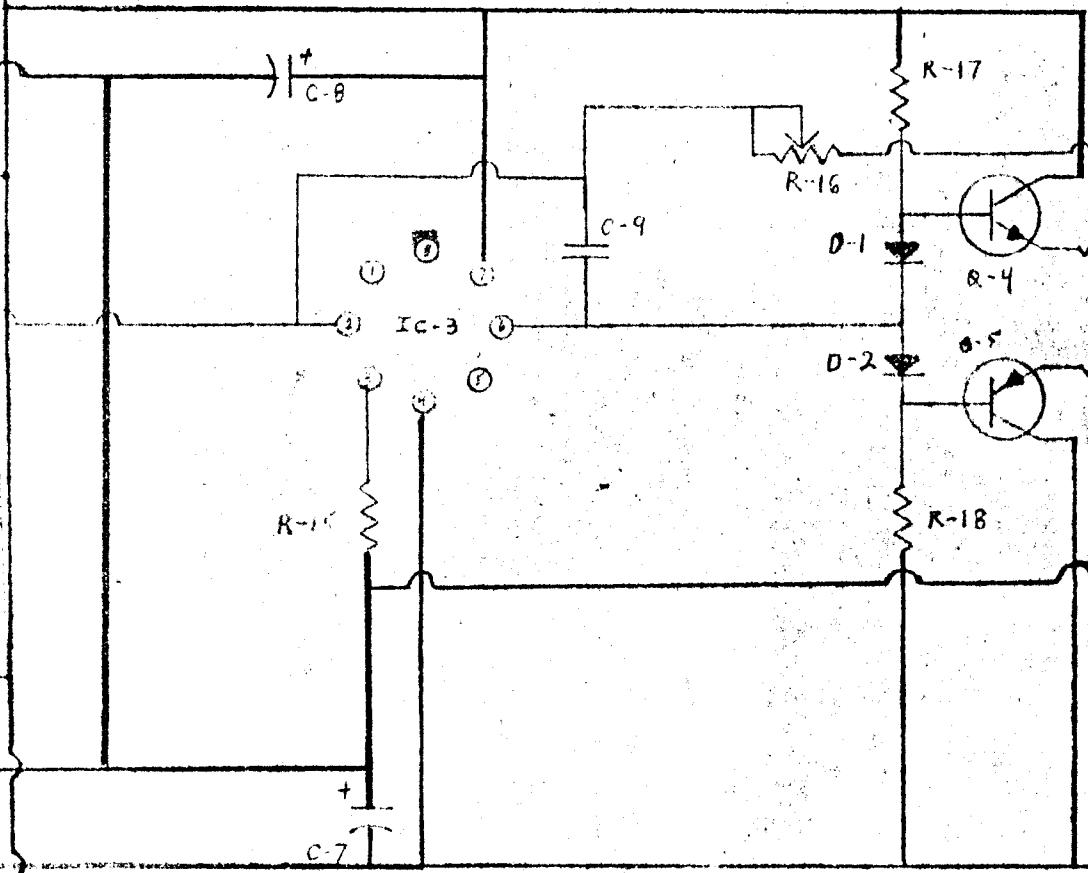
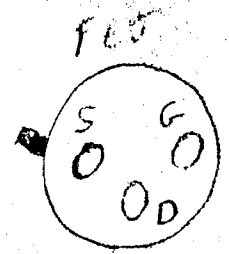
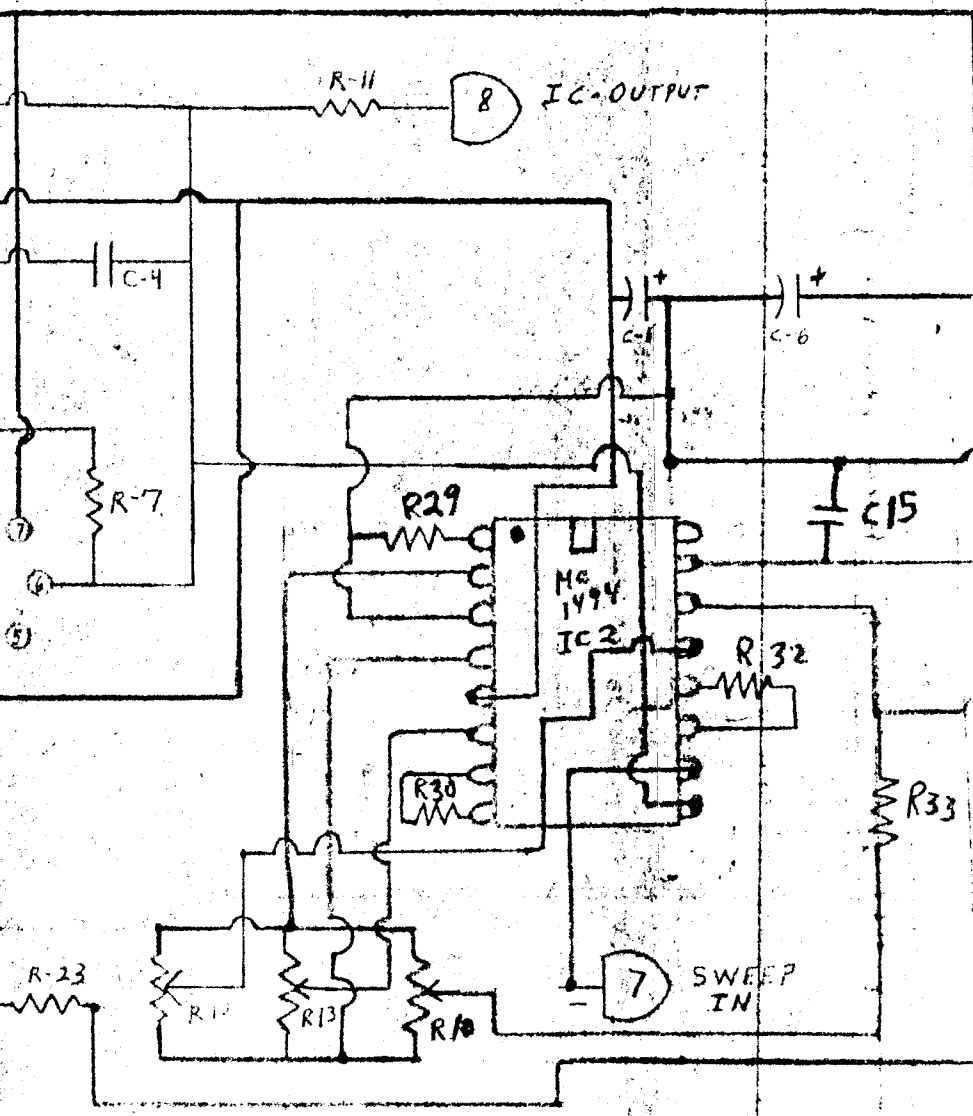
R-1 510u 2 -
 R-2 510u -
 R-3 4.7K 4 -
 R-4 4.7K -
 R-5 4.7K -
 R-6 4.7K -
 R-7 10K 4 -
 R-8 15K -
 R-9 15K -
 R-10 5K POT (20K) ✓
 R-11 1K +
 R-12 20K POT -
 R-13 20K POT -
 R-14 2.7K 1 -
 R-15 10K
 R-16 ~~100K~~ 100K pot -
 R-17 10K -
 R-18 10K -
 R-19 4.7u -
 R-20 4.7u -
 R-21 75u 4 -
 R-22 75u -
 R-23 10K -
 R-24 33K 2 -
 R-25 75u -
 R-26 75u -
 R-27 .5u DALE
 R-28 .5u DALE
 R-29 12K
 R-30 27K
 R-31 1K
 R-32 15K
 R-33 4.7K

WV 15

PC-117

HC5
 39



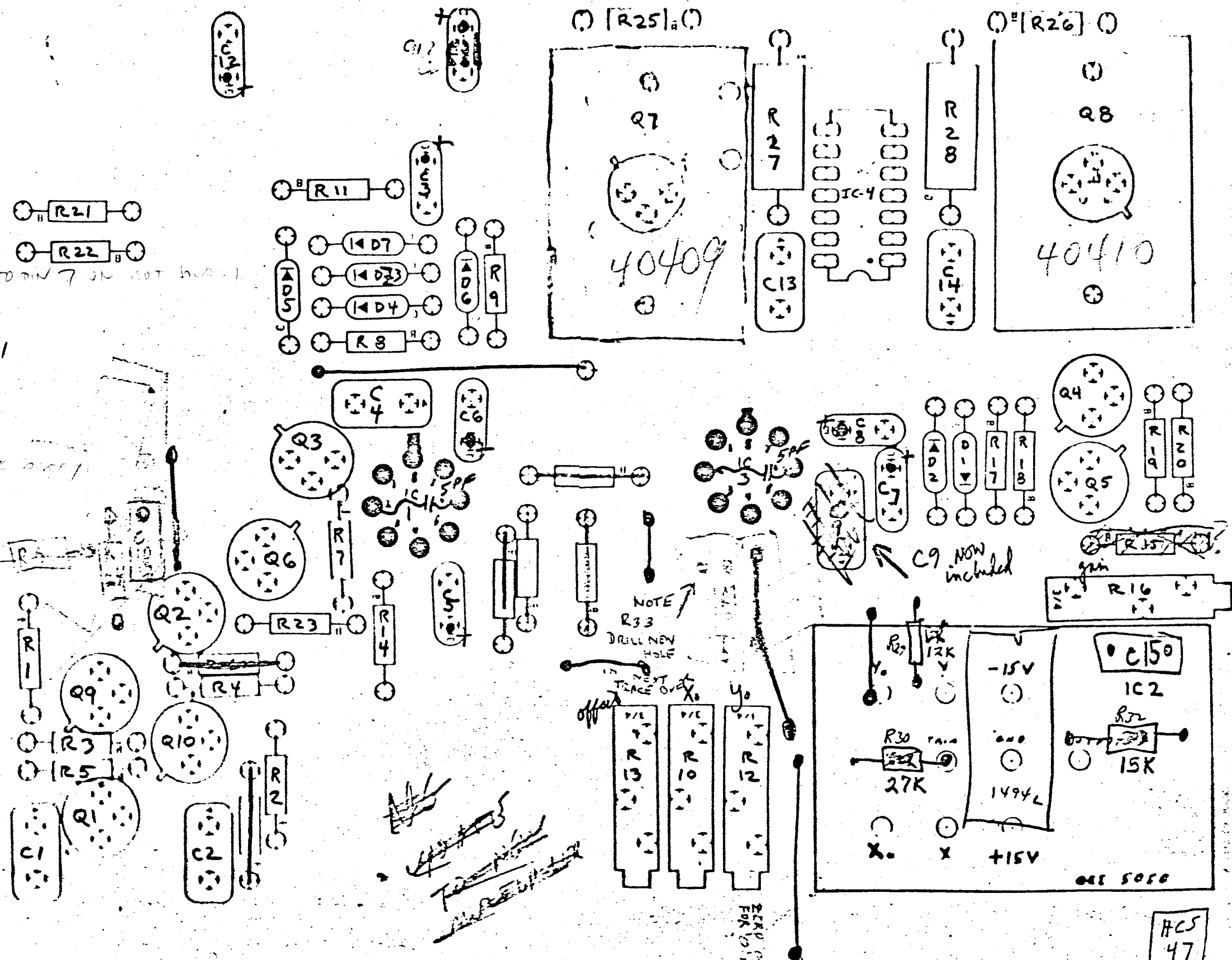


PC-117B
RUTT ELECTROPHYSICS
APRIL 1974

TOP VIEW

- GND 1
- GND 2
- +20V 3
- 20V 4
- OUTPUT TO IN 5
- OUT TO ROT 6
- SWEEP IN 7
- I.C. OUT 8
- 9
- 10
- DUAL TRACE 11
- TO PIN 1 ON ROTARY SWITCH MODULE 12
- #2 BIAS 13
- 14
- LEVEL #2 15
- 16
- #1 BIAS 17
- 18
- 19
- 20
- 21
- #1 LEVEL FET 22

Top View



PC 117

PC 117

