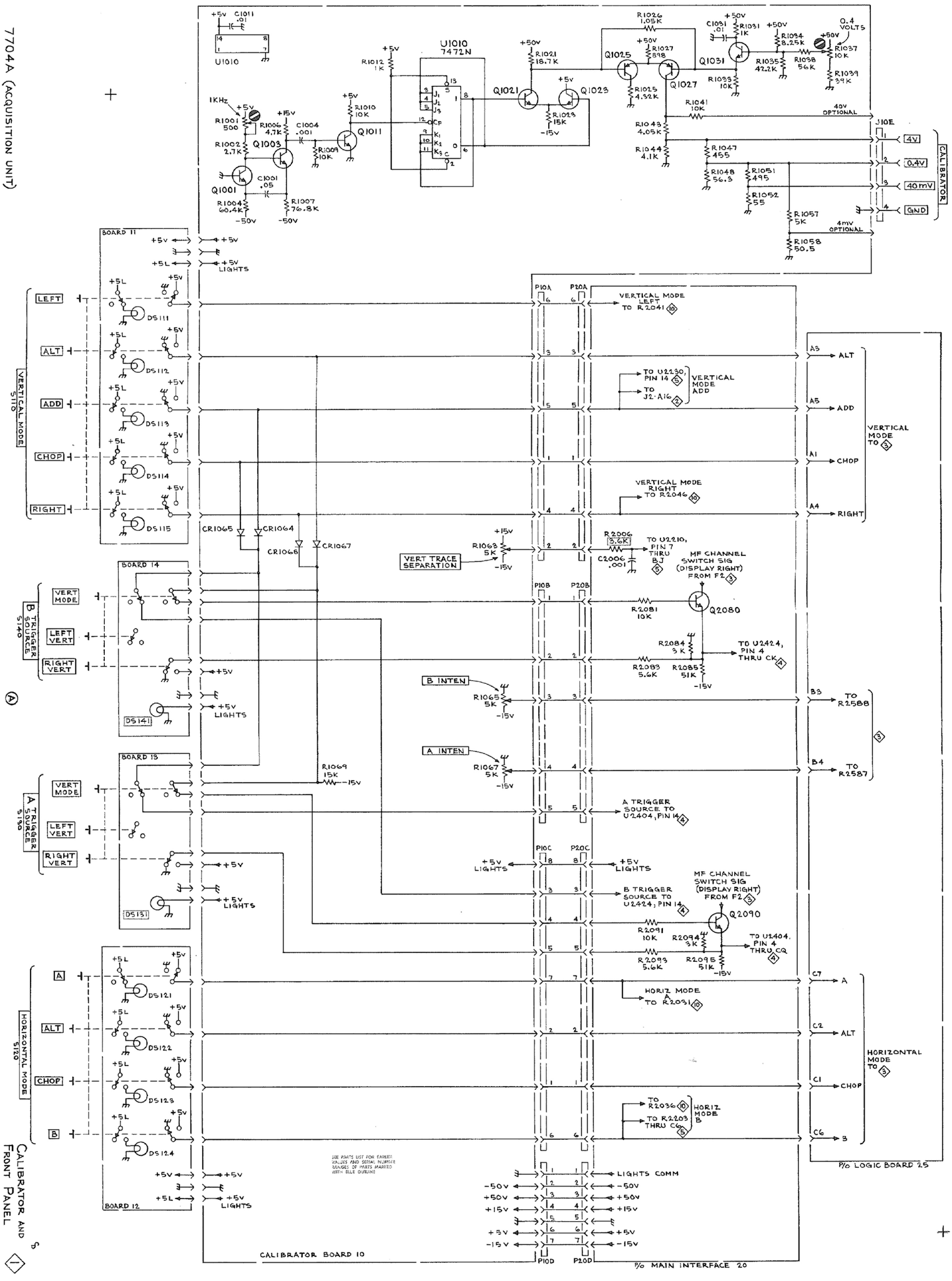
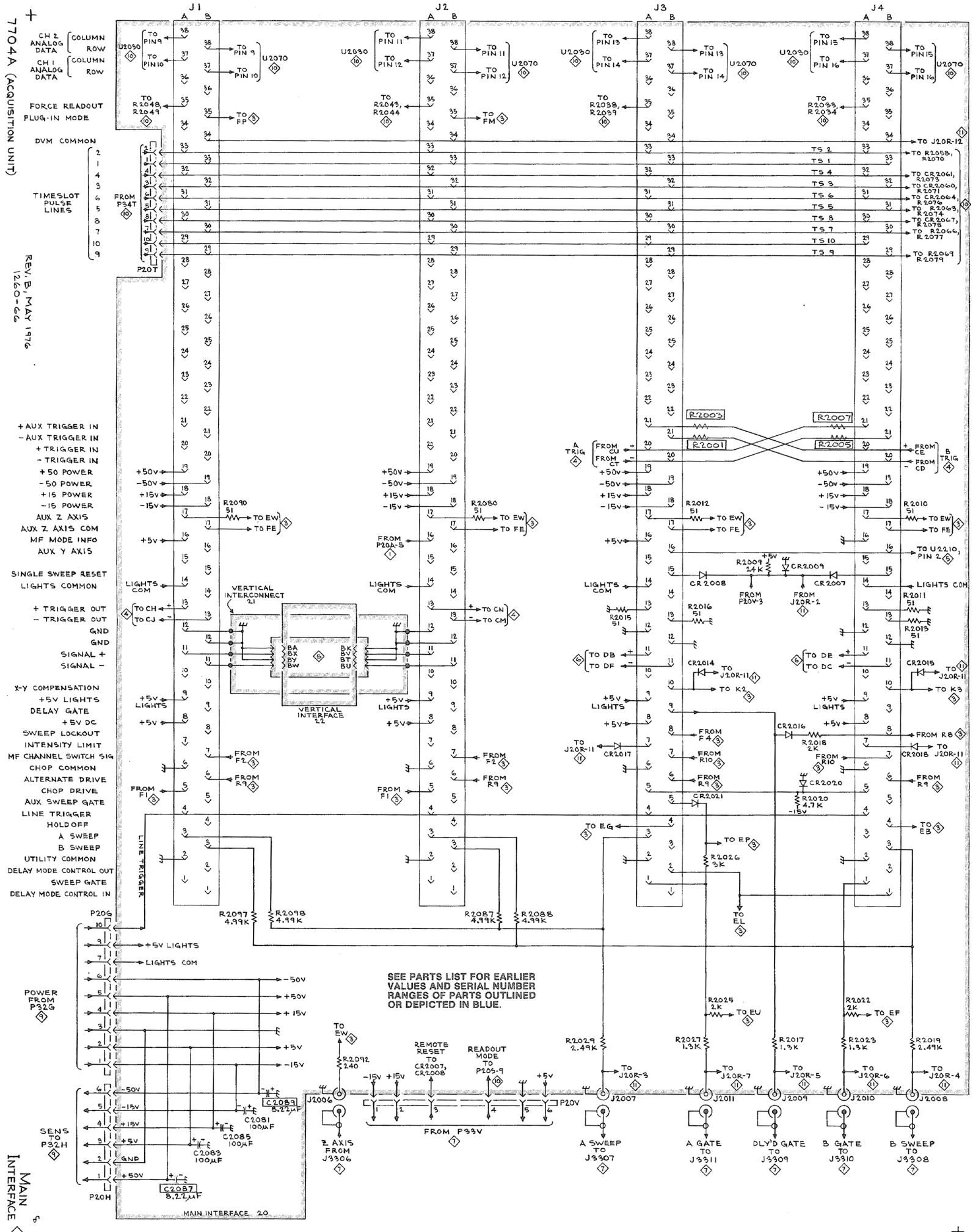

U1010
7472N
Q1001
Q1003
Q1011
Q1021
Q1023
Q1025
Q1027
Q1031
Q2080
Q2090
1KHz
0.4 VOLTS
4V
0.4V
40mV
GND
CALIBRATOR
J10E
4mV OPTIONAL
40V OPTIONAL
BOARD 11
BOARD 14
BOARD 13
BOARD 12
LEFT
ALT
ADD
CHOP
RIGHT
VERTICAL MODE S110
B TRIGGER SOURCE S140
A TRIGGER SOURCE S130
HORIZONTAL MODE S120
VERT MODE
LEFT VERT
RIGHT VERT
A
B
+5V LIGHTS
VERTICAL MODE LEFT TO R2041
VERTICAL MODE RIGHT TO R2046
VERTICAL MODE ADD
TO U2230, PIN 14
TO J2-A16
VERTICAL MODE TO
VERT TRACE SEPARATION
MF CHANNEL SWITCH SIG (DISPLAY RIGHT) FROM F2
TO U2424, PIN 4 THRU CK
B INTEN
A INTEN
TO R2588
TO R2587
A TRIGGER SOURCE TO U2404, PIN 14
B TRIGGER SOURCE TO U2424, PIN 14
TO U2404, PIN 4 THRU CQ
HORIZ MODE A TO R2031
HORIZ MODE B
HORIZONTAL MODE TO
LIGHTS COMM
P/O LOGIC BOARD 25
P/O MAIN INTERFACE 20
CALIBRATOR BOARD 10
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE


J1
J2
J3
J4
CH 2 ANALOG DATA COLUMN
CH 2 ANALOG DATA ROW
CH 1 ANALOG DATA COLUMN
CH 1 ANALOG DATA ROW
FORCE READOUT
PLUG-IN MODE
DVM COMMON
TIMESLOT PULSE LINES
FROM P54T
P20T
+AUX TRIGGER IN
-AUX TRIGGER IN
+TRIGGER IN
-TRIGGER IN
+50 POWER
-50 POWER
+15 POWER
-15 POWER
AUX Z AXIS
AUX Z AXIS COM
MF MODE INFO
AUX Y AXIS
SINGLE SWEEP RESET
LIGHTS COMMON
+ TRIGGER OUT
- TRIGGER OUT
GND
GND
SIGNAL +
SIGNAL -
X-Y COMPENSATION
+5V LIGHTS
DELAY GATE
+5V DC
SWEEP LOCKOUT
INTENSITY LIMIT
MF CHANNEL SWITCH SIG
CHOP COMMON
ALTERNATE DRIVE
CHOP DRIVE
AUX SWEEP GATE
LINE TRIGGER
HOLDOFF
A SWEEP
B SWEEP
UTILITY COMMON
DELAY MODE CONTROL OUT
SWEEP GATE
DELAY MODE CONTROL IN
VERTICAL INTERCONNECT 21
VERTICAL INTERFACE 22
LINE TRIGGER
P20G
P20H
POWER FROM P32G
SENS TO P32H
+5V LIGHTS
LIGHTS COM
-50V
+50V
+15V
-15V
+5V
GND
C2089 8.2 µF
C2081 100µF
C2085 100µF
C2083 100µF
C2087 8.2 µF
MAIN INTERFACE 20
MAIN INTERFACE
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS OUTLINED OR DEPICTED IN BLUE.
REMOTE RESET TO CR2007, CR2008
READOUT MODE TO P20S-9
FROM P33V
P20V
J2006
J2007
J2011
J2009
J2010
J2008
Z AXIS FROM J3306
A SWEEP TO J3307
A GATE TO J3311
DLY'D GATE TO J3309
B GATE TO J3310
B SWEEP TO J3308
A TRIG
B TRIG
LIGHTS COM
+5V LIGHTS
R2003
R2001
R2007
R2005
R2009 2.4K
CR2008
CR2009
CR2007
R2016 51
R2015 51
R2012 51
R2011 51
R2013 51
R2010 51
CR2014
CR2015
CR2016
R2018 2K
CR2017
CR2020
R2020 4.7K
CR2021
R2026 3K
R2025 2K
R2022 2K
R2029 2.49K
R2027 1.3K
R2017 1.3K
R2023 1.3K
R2019 2.49K
R2097 4.99K
R2098 4.99K
R2087 4.99K
R2088 4.99K
R2092 240
R2090 51
R2080 51
TO EW
TO FE
TO FP
TO FM
TO EG
TO EP
TO EL
TO EU
TO EF
TO CN
TO CM
TO DB
TO DF
TO DE
TO DC
TO K2
TO K3
TO RB
FROM F1
FROM F2
FROM F4
FROM R9
FROM R10
FROM P20A-5
FROM P20A-7
FROM P20V-3
FROM J20R-2
TO J20R-11
TO J20R-12
TO J20R-3
TO J20R-7
TO J20R-5
TO J20R-6
TO J20R-4
TO U2210, PIN 2
TO R2058, R2070
TO CR2061, R2073
TO CR2060, R2071
TO CR2064, R2076
TO R2063, R2074
TO CR2067, R2078
TO R2066, R2077
TO R2069 R2079
TS 2
TS 1
TS 4
TS 3
TS 6
TS 5
TS 8
TS 7
TS 10
TS 9
REV. B, MAY 1976
1260-66

VOLTAGE & WAVEFORM CONDITIONS

S110 VERTICAL MODE — ADD CHOP RIGHT ALT

S120 HORIZONTAL MODE — A ALT CHOP B

P/O MAIN INTERFACE 20

VERTICAL MODE LOGIC

P/O MAIN INTERFACE A20

MF CHANNEL SWITCH SIGNAL (DISPLAY RIGHT) TO F2 — TO J1-B7 — TO J2-B7 — TO J20F-2 — TO Q2080 — TO Q2090 (HI RIGHT LO LEFT)

(VERTICAL) CHOP DRIVE — TO J20F-1 — TO J1-A5 — TO J2-A5 (HI CH2 LO CH1)

ALTERNATE DRIVE — TO J1-B6 — TO J2-B6 — TO J3-B6 — TO J4-B6 — TO J20R-9 (HI CH2 LO CH1)

MF CHANNEL SWITCH SIGNAL (DISPLAY B) — TO R10 — TO R10 — TO J3-B7 — TO J4-B7 — TO J20R-10

A SWEEP LOCKOUT — TO J20F-4 — TO J3-B8

B SWEEP LOCKOUT — TO J20R-8 — TO J4-B8

+15 VOLTS

+5 VOLTS

-15 VOLTS

Z AXIS SIGNAL — TO J4114

B INTENSITY FROM R1065

A INTENSITY FROM R1067

P/O MAIN INTERFACE

P/O MAIN INTERFACE 20

LEFT PLUG-IN MODE FROM J1-B35

RIGHT PLUG-IN MODE FROM J2-B35

FROM J3-B10 — A INTENSITY LIMITING

FROM J4-B10 — B INTENSITY LIMITING

B HOLDOFF FROM J4-B4

A HOLDOFF FROM J3-B4

A GATE FROM R2026

B GATE FROM R2022

A GATE FROM R2025

DELAY MODE CONTROL OUT FROM J3-B2

AUX Z AXIS FROM: R2010, R2012, R2080, R2092

AUX Z AXIS COMMON FROM B17-J1, J2, J3, J4

U2510 -0011- VERTICAL CHOP BLANKING — DELAY RAMP — CLOCK GENERATOR

U2520 -0010- CHOP COUNTER

U2530 -0013- HORIZ BINARY

U2535 -0013- VERT BINARY

U2540 -0013- PLUG-IN BINARY

U2573 -0009- HORIZ LOGIC

U2587 -0012- Z AXIS LOGIC

(S2510) CHOP FREQUENCY

ALT PULSE

CHOP BLANKING

A INTENSIFIED

SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

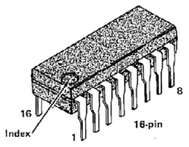
P/O LOGIC BOARD 25

7704A (ACQUISITION UNIT)

1260-69 REV. G, SEP 1977

Logic Circuit 3 DEH

VOLTAGE CONDITIONS



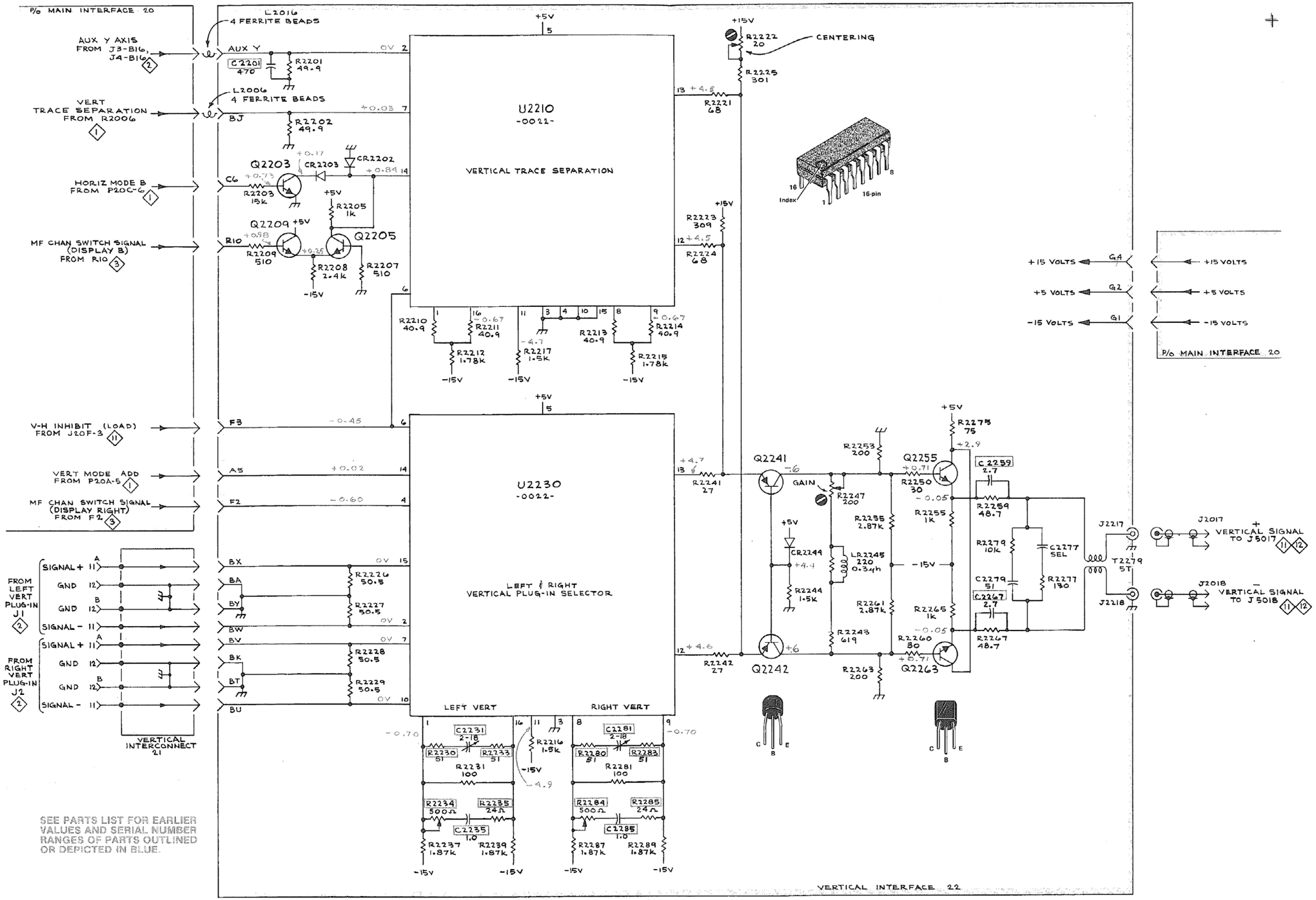
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

TRIGGER SELECTOR BOARD 24

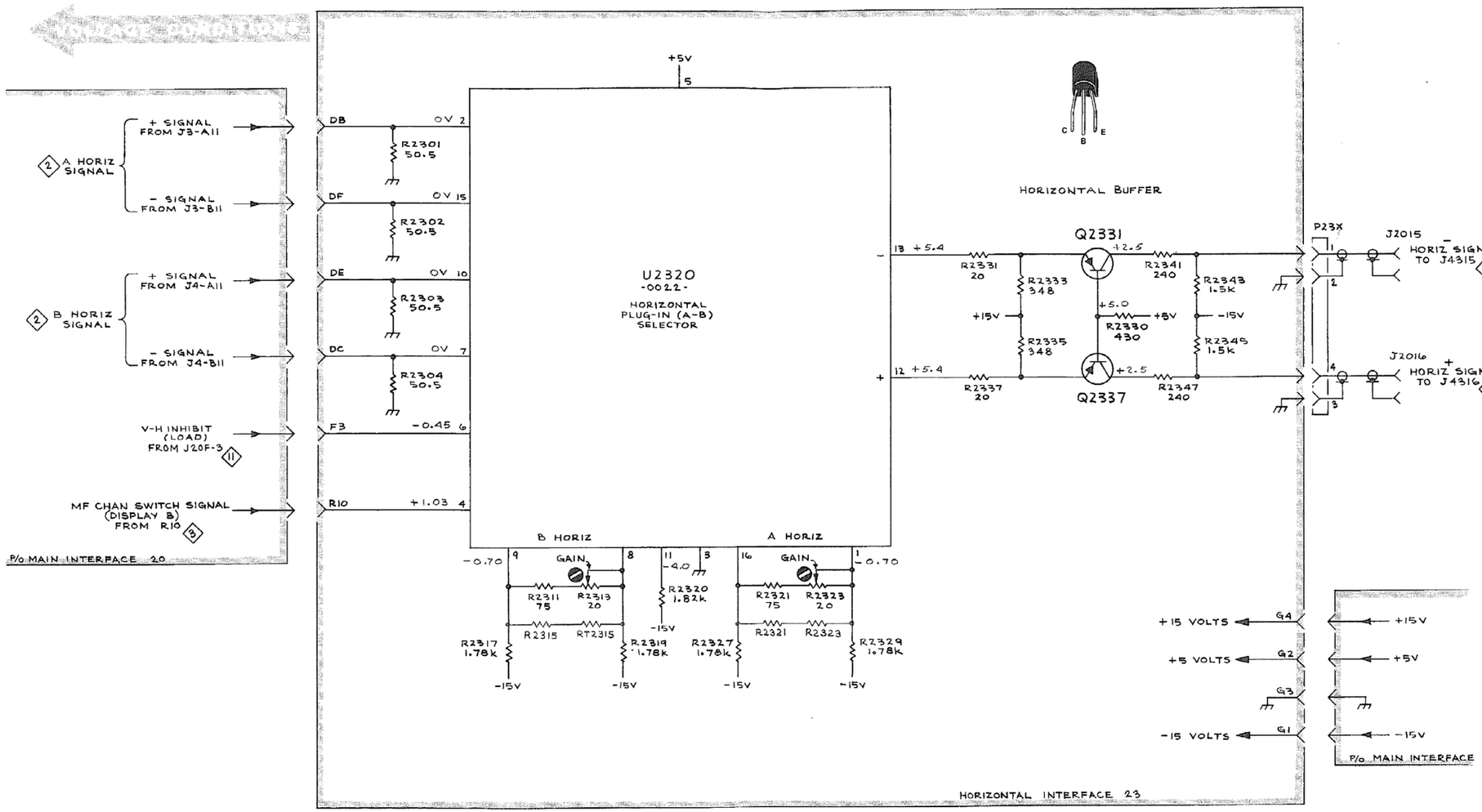
7704A (ACQUISITION UNIT)

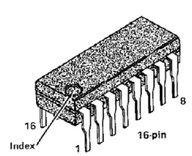
REV.C, SEPT. 1975
1260-71

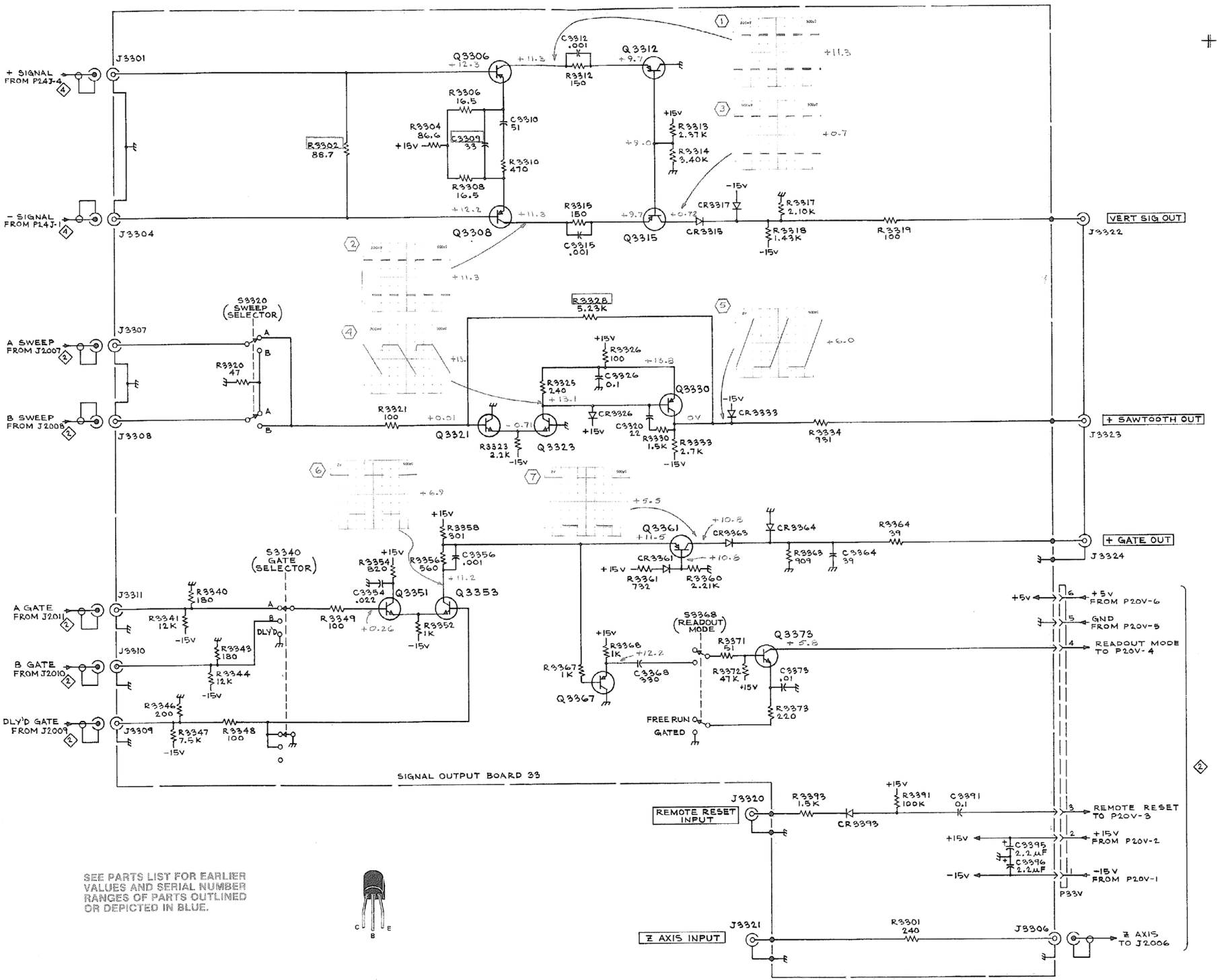
TRIGGER SELECTOR ④ DEH

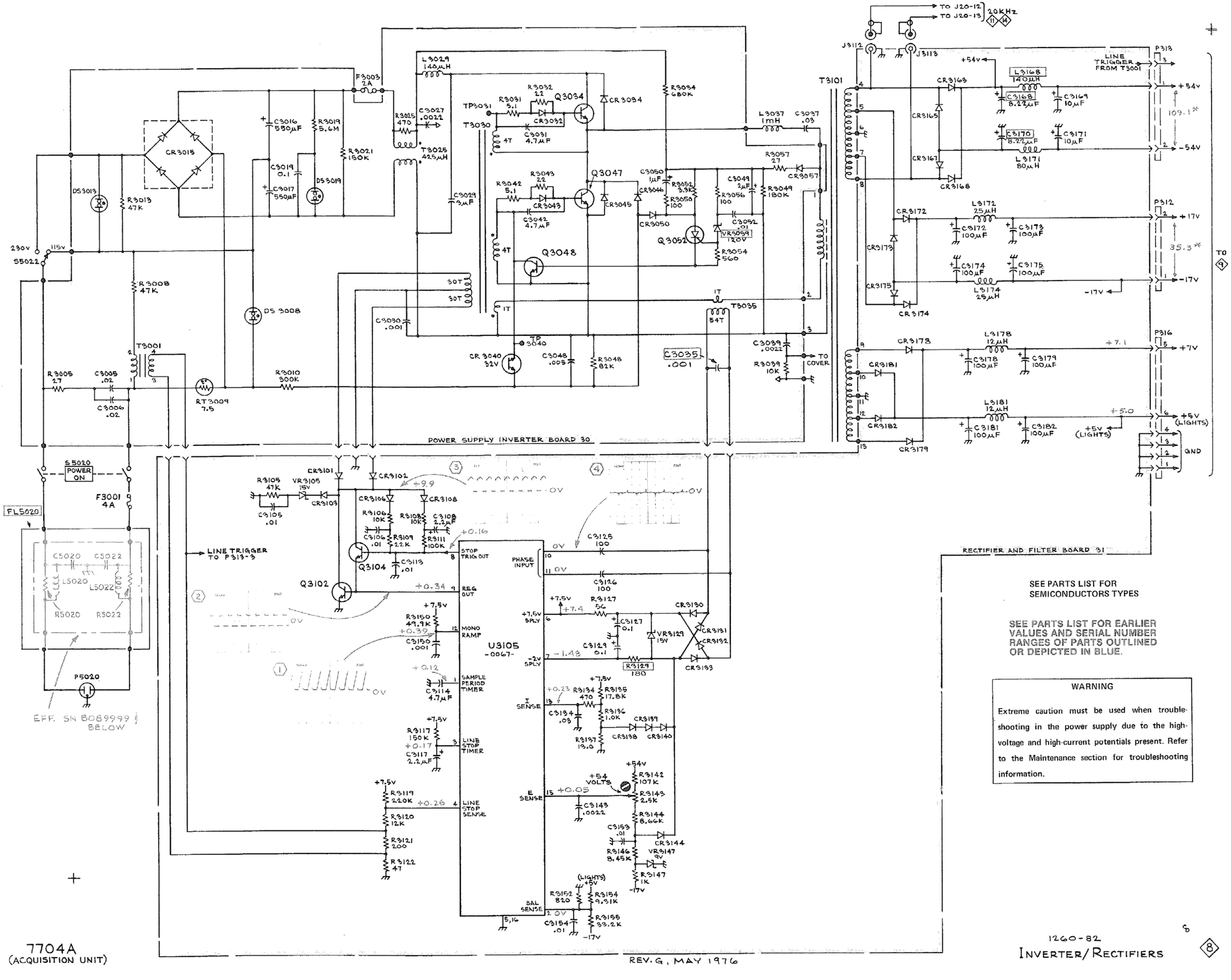


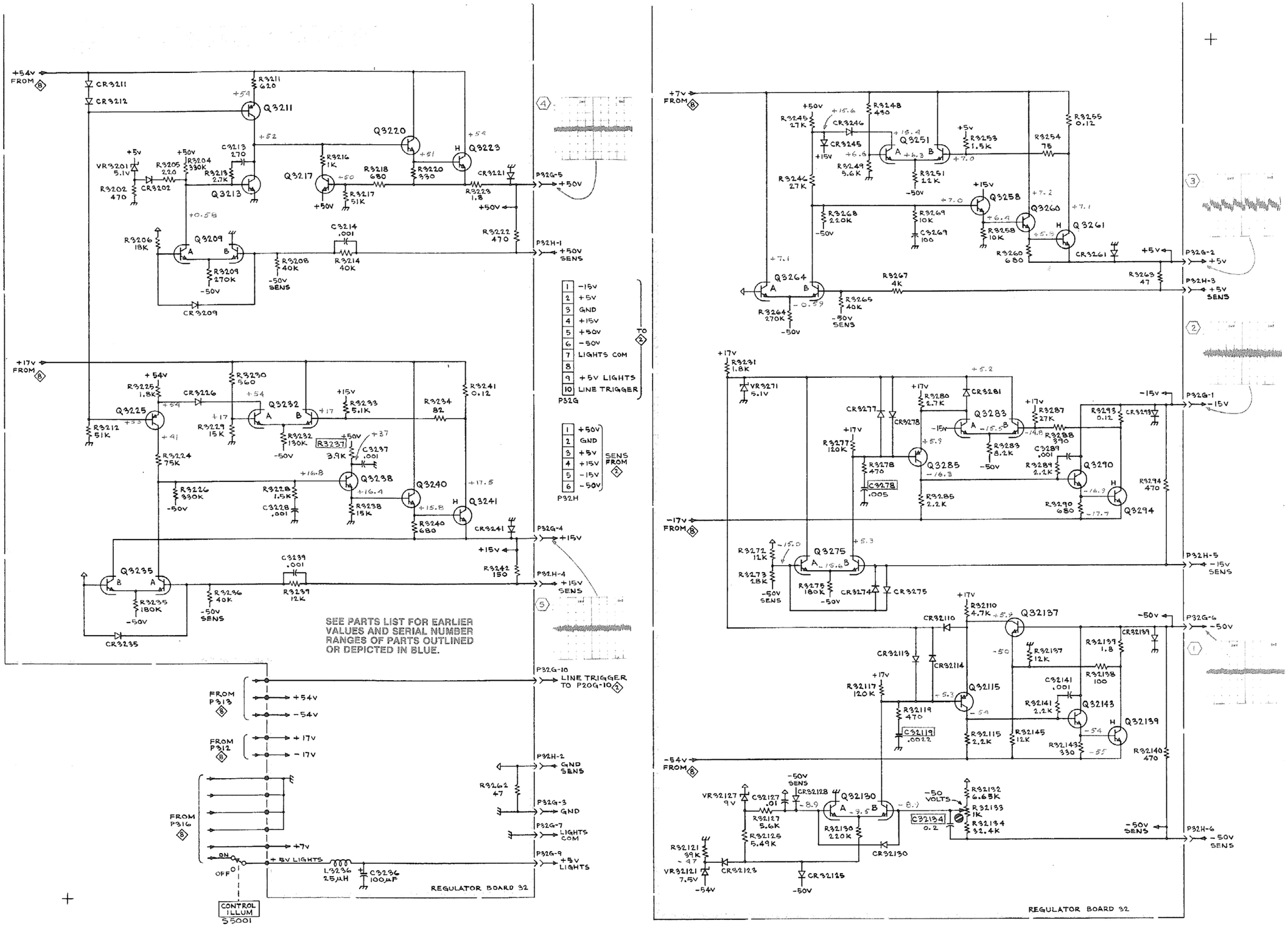
7704A (ACQUISITION UNIT) REV. E, NOV. 1976 VERTICAL INTERFACE 5 DEH


SIGNAL DESIGNATIONS
+ SIGNAL FROM J3-A11
2 A HORIZ SIGNAL
- SIGNAL FROM J3-B11
+ SIGNAL FROM J4-A11
2 B HORIZ SIGNAL
- SIGNAL FROM J4-B11
V-H INHIBIT (LOAD) FROM J20F-3 11
MF CHAN SWITCH SIGNAL (DISPLAY B) FROM R10 3
P/O MAIN INTERFACE 20
DB
DF
DE
DC
F3
R10
0V 2
0V 15
0V 10
0V 7
-0.45 6
+1.03 4
R2301 50.5
R2302 50.5
R2303 50.5
R2304 50.5
+5V
5
U2320
-0022-
HORIZONTAL PLUG-IN (A-B) SELECTOR
B HORIZ
A HORIZ
-0.70
9
GAIN
8
11
3
-4.0
16
1
R2311 75
R2313 20
R2320 1.82k
R2321 75
R2323 20
R2315
RT2315
R2317 1.78k
R2319 1.78k
R2321
R2323
R2327 1.78k
R2329 1.78k
-15V
HORIZONTAL BUFFER
C
B
E
Q2331
Q2337
13 +5.4
12 +5.4
R2331 20
R2337 20
R2333 348
R2335 348
+15V
+2.5
+5.0
R2330 430
+5V
R2341 240
R2347 240
R2343 1.5k
R2345 1.5k
-15V
P23X
J2015
HORIZ SIGNAL TO J4315 11 13
J2016
HORIZ SIGNAL TO J4316 11 13
HORIZONTAL INTERFACE 23
+15 VOLTS
+5 VOLTS
-15 VOLTS
G4
G2
G3
G1
+15V
+5V
-15V
P/O MAIN INTERFACE


16
Index
1
8
16-pin


+ SIGNAL FROM P24J-4
- SIGNAL FROM P24J-1
J3301
J3304
Q3306
Q3308
Q3312
Q3315
R3302 88.7
R3304 86.6
R3306 16.5
R3308 16.5
C3309 33
C3310 51
R3310 470
C3312 .001
R3312 150
R3313 2.37K
R3314 3.40K
R3315 150
C3315 .001
CR3317
CR3318
R3317 2.10K
R3318 1.43K
R3319 100
VERT SIG OUT
J3322
A SWEEP FROM J2007
B SWEEP FROM J2008
J3307
J3308
S3320 SWEEP SELECTOR
R3320 47
R3321 100
Q3321
Q3323
R3323 2.2K
R3325 240
R3326 100
C3326 0.1
Q3330
CR3326
CR3333
C3320 22
R3330 1.5K
R3333 2.7K
R3334 931
+ SAWTOOTH OUT
J3323
R3328 5.23K
A GATE FROM J2011
B GATE FROM J2010
DLY'D GATE FROM J2009
J3311
J3310
J3309
S3340 GATE SELECTOR
R3340 180
R3341 12K
R3343 180
R3344 12K
R3346 200
R3347 7.5K
R3348 100
R3349 100
C3354 .022
Q3351
Q3353
R3352 1K
R3354 820
R3356 560
C3356 .001
R3358 301
Q3361
CR3361
CR3363
CR3364
R3360 2.21K
R3361 732
R3363 909
C3364 39
R3364 39
+ GATE OUT
J3324
S3368 (READOUT MODE)
Q3367
Q3373
R3366 1K
R3367 1K
R3368 1K
C3368 330
R3371 51
R3372 47K
C3373 .01
R3373 220
FREE RUN
GATED
+5V FROM P20V-6
GND FROM P20V-5
READOUT MODE TO P20V-4
REMOTE RESET INPUT
J3320
R3393 1.5K
CR3393
R3391 100K
C3391 0.1
REMOTE RESET TO P20V-3
+15V FROM P20V-2
C3395 2.2μF
C3396 2.2μF
-15V FROM P20V-1
P33V
Z AXIS INPUT
J3321
R3301 240
J3306
Z AXIS TO J2006
SIGNAL OUTPUT BOARD 33
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS OUTLINED OR DEPICTED IN BLUE.
C B E


POWER SUPPLY INVERTER BOARD 30
RECTIFIER AND FILTER BOARD 31
TO J20-12
TO J20-13
20KHz
J3112
J3113
T3101
LINE TRIGGER FROM T3001
P313
P312
P316
+54v
-54v
+17v
-17v
+7V
+5V (LIGHTS)
GND
109.1*
35.3*
+7.1
+5.0
CR3163
CR3165
CR3167
CR3168
L3168 140µH
C3168 8.22µF
C3169 10µF
C3170 8.22µF
C3171 10µF
L3171 80µH
CR3172
CR3173
CR3174
CR3175
L3172 25µH
C3172 100µF
C3173 100µF
C3174 100µF
C3175 100µF
L3174 25µH
CR3178
CR3179
CR3181
CR3182
L3178 12µH
C3178 100µF
C3179 100µF
L3181 12µH
C3181 100µF
C3182 100µF
+5V (LIGHTS)
TO ⑨
CR3015
DS3013
DS3019
DS3008
R3013 47K
R3008 47K
C3016 550µF
C3017 550µF
C3019 0.1
R3019 5.6M
R3021 150K
F3003 2A
L3029 140µH
C3027 .0022
T3025 425µH
C3029 .9µF
R3025 470
TP3031
T3030
R3031 5.1
R3032 22
Q3034
CR3034
CR3032
C3031 4.7µF
4T
R3034 680K
L3037 1mH
C3037 .03
R3057 27
CR3057
R3042 5.1
R3043 22
Q3047
CR3043
CR3045
C3042 4.7µF
C3050 1µF
CR3046
CR3050
R3052 3.3K
R3050 100
R3056 100
C3049 2µF
R3049 180K
C3052 .01
VR3059 120V
Q3052
R3054 560
Q3048
30T
30T
1T
1T
T3035
54T
C3030 .001
TP3040
CR3040 32V
C3048 .005
R3048 82K
C3035 .001
C3039 .0022
R3039 10K
TO COVER
230v
115v
S5022
R3005 2.7
C3005 .02
C3006 .02
T3001
RT3009 7.5
R3010 300K
S5020 POWER ON
F3001 4A
FL5020
C5020
C5022
L5020
L5022
R5020
R5022
P5020
EFF. SN B089999 & BELOW
CR3101
CR3102
R3105 47K
VR3105 15V
CR3103
C3105 .01
CR3106
CR3108
R3106 10K
R3108 10K
C3108 2.2µF
C3106 .01
R3109 22K
R3111 100K
Q3104
C3113 .01
Q3102
LINE TRIGGER TO P313-3
U3105 -0067-
STOP TRIG OUT
REG OUT
MONO RAMP
SAMPLE PERIOD TIMER
LINE STOP TIMER
LINE STOP SENSE
BAL SENSE
PHASE INPUT
+7.5V SPLY
-2V SPLY
I SENSE
E SENSE
C3150 .001
C3114 4.7µF
C3117 2.2µF
R3117 150K
R3119 220K
R3120 12K
R3121 200
R3122 47
C3125 100
C3126 100
R3127 56
C3127 0.1
C3129 0.1
R3129 180
CR3130
CR3131
CR3132
CR3133
VR3129 15V
R3134 470
R3135 17.8K
C3134 .03
R3136 1.0K
R3137 13.0
CR3138
CR3139
CR3140
+54 VOLTS
R3142 107K
R3143 2.5K
C3143 .0022
R3144 8.66K
C3153 .01
CR3144
R3146 8.45K
VR3147 9V
R3147 1K
R3152 820
R3154 9.31K
R3155 33.2K
C3154 .01
SEE PARTS LIST FOR SEMICONDUCTORS TYPES
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS OUTLINED OR DEPICTED IN BLUE.
WARNING
Extreme caution must be used when troubleshooting in the power supply due to the high-voltage and high-current potentials present. Refer to the Maintenance section for troubleshooting information.


+54v FROM 8
CR3211
CR3212
R3211 620
Q3211
Q3220
Q3223
C3213 270
VR3201 5.1v
R3205 220
R3204 330K
R3213 2.7K
CR3202
R3202 470
Q3213
Q3217
R3216 1K
R3218 680
R3220 330
CR3221
R3223 1.8
P32G-5
+50V
R3217 51K
R3222 470
+0.58
Q3209
R3206 18K
C3214 .001
R3214 40K
R3208 40K
R3209 270K
-50V SENS
P32H-1
+50V SENS
CR3209
+17v FROM 8
R3225 1.8K
CR3226
Q3225
R3230 560
Q3232
R3233 5.1K
R3241 0.12
R3234 82
R3212 51K
R3229 15K
R3232 130K
R3231 3.9K
C3237 .001
R3224 75K
Q3238
R3226 330K
R3228 1.5K
C3228 .001
Q3240
Q3241
R3238 15K
R3240 680
CR3241
P32G-4
+15V
R3242 150
C3239 .001
R3237 12K
P32H-4
+15V SENS
Q3235
R3236 40K
R3235 180K
-50V SENS
CR3235
5
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS OUTLINED OR DEPICTED IN BLUE.
P32G-10
LINE TRIGGER TO P20G-10 4
FROM P313 8
+54v
-54v
FROM P312 8
+17v
-17v
FROM P316 8
+7v
ON
OFF
+5V LIGHTS
L3236 25µH
C3236 100µF
P32H-2
GND SENS
R3262 47
P32G-3
GND
P32G-7
LIGHTS COM
P32G-9
+5V LIGHTS
CONTROL ILLUM S5001
REGULATOR BOARD 32
1 -15V
2 +5V
3 GND
4 +15V
5 +50V
6 -50V
7 LIGHTS COM
8
9 +5V LIGHTS
10 LINE TRIGGER
P32G
TO 2
1 +50V
2 GND
3 +5V
4 +15V
5 -15V
6 -50V
P32H
SENS FROM 2
+7v FROM 8
R3245 27K
+50V
+15.6
R3248 430
CR3246
CR3245
+15V
R3249 5.6K
Q3251
+15.4
+6.3
+7.0
+5v
R3253 1.5K
R3254 78
R3255 0.12
R3246 27K
R3251 22K
-50V
Q3258
+7.0
+6.9
+7.2
Q3260
+7.1
Q3261
R3268 220K
R3269 10K
C3269 100
R3258 10K
+5.15
R3260 680
CR3261
+5V
P32G-2
+5v
3
+7.1
Q3264
R3267 4K
R3263 47
P32H-3
+5V SENS
R3264 270K
-0.59
R3265 40K
-50V SENS
2
+17v R3231 1.8K
VR3271 5.1V
+5.2
+17v
R3280 2.7K
CR3281
CR3277
CR3278
Q3283
-15V
-15.5
-14.8
R3287 27K
R3293 0.12
CR3293
-15v
P32G-1
-15v
R3277 120K
+5.9
R3278 470
C3278 .005
Q3285
-16.3
R3283 8.2K
R3288 390
C3289 .001
R3289 2.2K
Q3290
+16.9
R3285 2.2K
R3290 680
-17.7
Q3294
R3294 470
-17v FROM 8
-15.0
R3272 12K
Q3275
+5.3
-15.6
R3273 28K
-50V SENS
R3275 180K
-50V
CR3274
CR3275
P32H-5
-15V SENS
+17v
R32110 4.7K
+5.7
Q32137
CR32110
-50v
P32G-6
-50v
CR32139
R32139 1.8
CR32113
CR32114
-50
R32137 12K
R32138 100
+17v
R32117 120K
Q32115
+5.3
-54
C32141 .001
R32141 2.2K
Q32143
Q32139
R32119 470
C32119 .0022
R32115 2.2K
R32145 12K
-54
R32143 330
-55
R32140 470
1
-54v FROM 8
-50V SENS
CR32128
VR32127 9v
C32127 .01
-8.9
Q32130
-8.1
-50 VOLTS
R32132 6.65K
R32133 1K
R32134 32.4K
C32134 0.2
R32127 5.6K
R32125 5.49K
R32130 220K
CR32130
R32121 99K
-9.7
VR32121 7.5V
-54V
CR32123
CR32125
-50V
-50V SENS
P32H-6
-50V SENS
REGULATOR BOARD 32

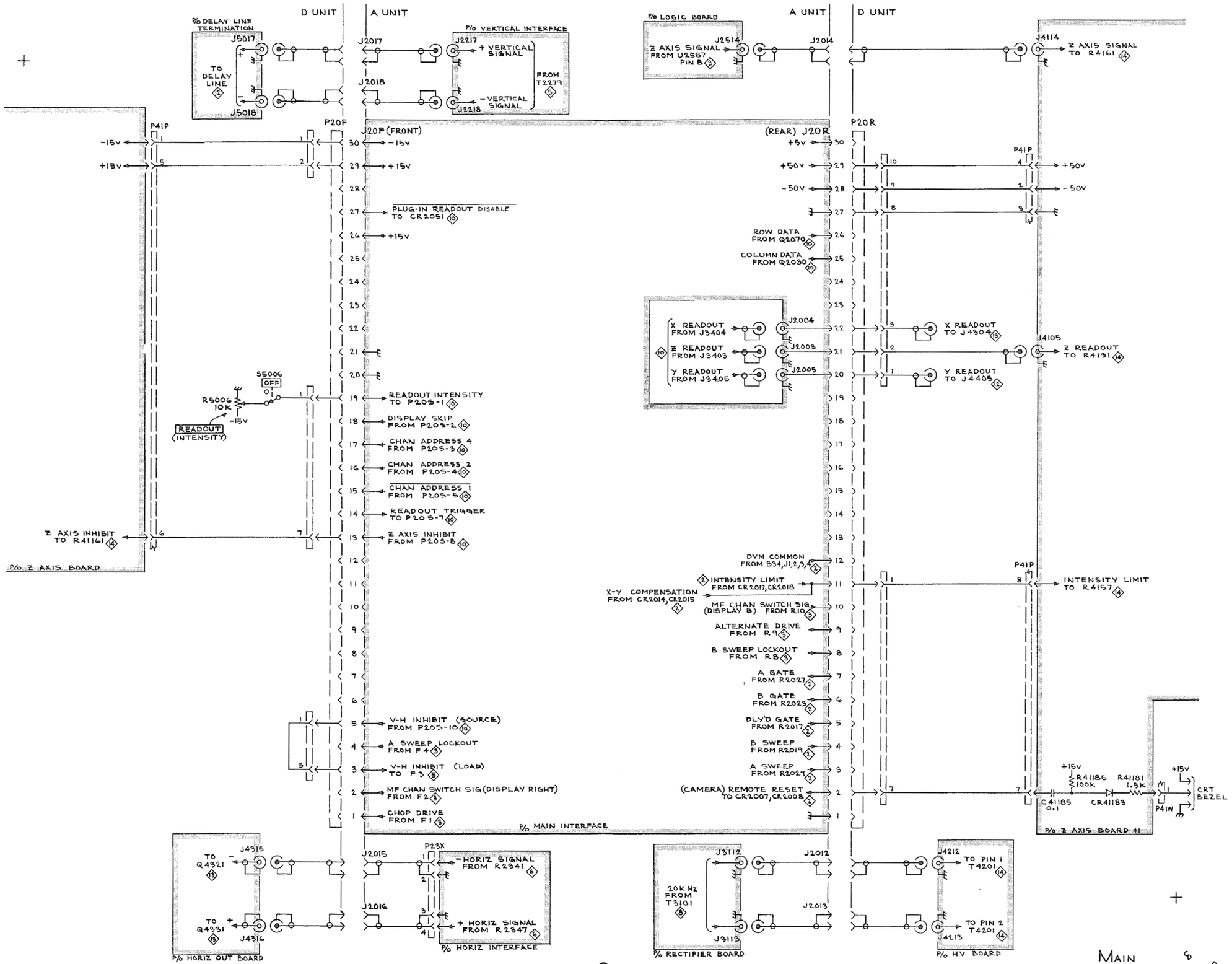
VOLTAGE & WAVEFORM CONDITIONS

SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

7704A (ACQUISITION UNIT)

REV. D, SEP 1977
1260-88

READOUT SYSTEM



7704A

A1

MAIN INTERCONNECT 11

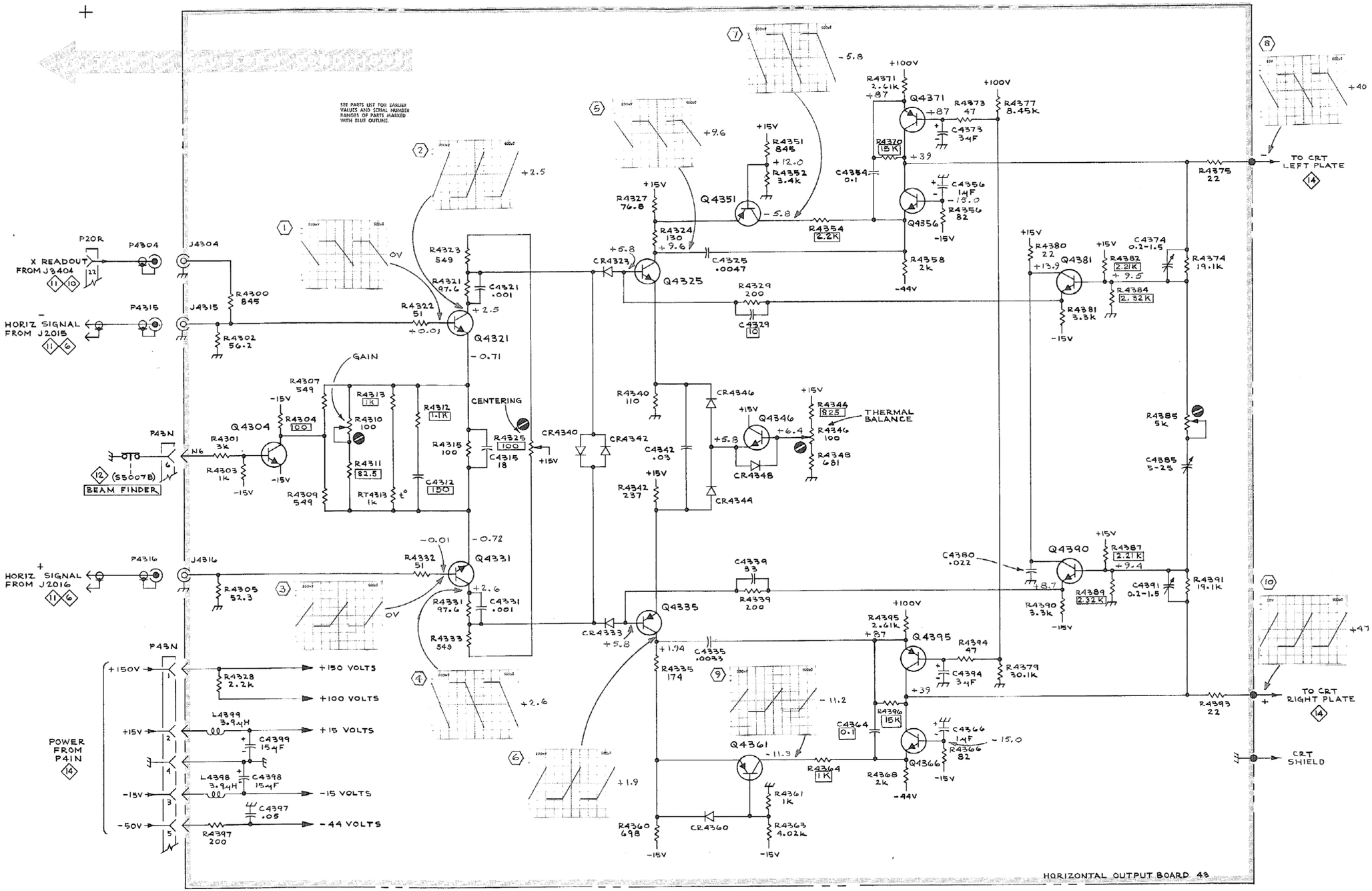
6-23

U4413
155-077

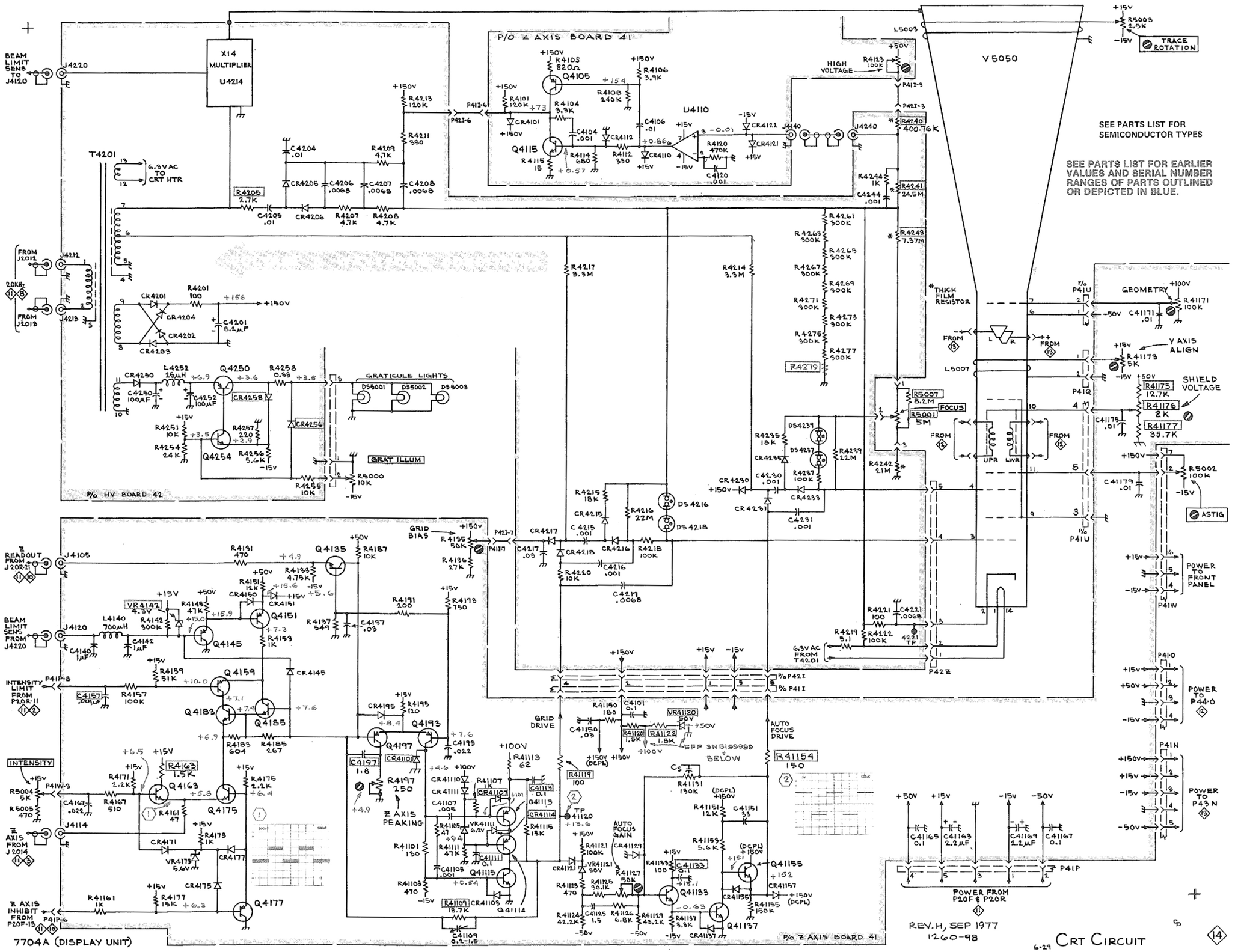
VERT SIG FROM J5018 (11)
J5118
J4418
90nS DELAY LINE DL5050
Y READOUT FROM J3405 (11) (10)
J4405
+15v
R4470 3.01K
R4471 7.5K
CR4473
R4473 7.5K
Q4470
R4477 6.98K
Q4479
R4497 464
R4475 1.37K
R4479 2.05K
R4481 182
R4487 1.07K
C4423 170
R4424 1.8K
R4427 1K
R4438 510
RT4438 500
C4424 7-45
R4423 5K
C4427 2.5-9
R4439 95.3
R4431 60.4
R4432 60.4
R4485 182
R4499 464
R4495 4.53K
R4493 500
R4491 9.76K
CENTERING
Q4485
R4421 50.0
R4436 2.32K
R4434 2.32K
R4441 50.0
J4417
J5117
+ VERT SIG FROM J5017 (11)
P/O DELAY LINE TERMINATION
-0.035
+12v
3K
1K
L4411 1-3nH
R4403 432
R4404 250
R4407 25.5
R4411 60.4
R4413 806
L4401 5-10nH
R4406 200 GAIN
C4401 2.5-9
R4405 25.5
R4410 60.4
R4401 432
L4410 1-3nH
+6.0
+5.8
45
101
18
70
R4456 200
R4452 18
R4455 562
C4453 .03
R4451 332
R4450 220
C4455 .022
R4453 1K
C4451 470
R4454 18
R4457 200
+9.3
+9.8
BIAS
R4415 500
R4417 150
R4416 2.2K
+10.110
R4467 200
R4462 18
C4465
R4463 576
C4461 .01
R4465 5K
C4463 .0022
R4461 1K
R4460 220
R4464 18
R4469 200
+9.3
+37
+36
CR4419
+50V
R4425 11.8K
R4420 5.6K
R4419 33
Q4420
+15V
R4422 4.99K
C4419 **RELOCATED AT SN B122470 & UP.
CRT UPPER PLATE (14)
* THICK FILM RESISTO
CRT TERMINATION
LR5010 180 4T
R5012 182.5 *
LR5011 180 4T
R5013 182.5 *
C5013 .001
CRT LOWER PLATE (14)
CASE
R4459 13
R4458 12.7
C4458 .001
TP4413
R4418 33
C4417 .001
C4419** .001
-15v
P44-0
S5007A (13) BEAM FINDER
POWER FROM P41-0 (14)
VERTICAL AMP BOARD 44

SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS OUTLINED OR DEPICTED IN BLUE.

C B E
C B E
Pin 1
Pin 16
16-pin



7704A (DISPLAY UNIT) REV. D, NOV. 1974 HORIZONTAL AMPLIFIER 13 DEH


P/O Z AXIS BOARD 41
X14 MULTIPLIER U4214
BEAM LIMIT SENS TO J4120
J4220
T4201
6.3V AC TO CRT HTR
U4110
Q4105
Q4115
HIGH VOLTAGE
V5050
TRACE ROTATION
SEE PARTS LIST FOR SEMICONDUCTOR TYPES
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS OUTLINED OR DEPICTED IN BLUE.
*THICK FILM RESISTOR
FROM J2012
FROM J2013
20KHz
J4212
J4213
GRATICULE LIGHTS
GRAT ILLUM
Q4250
Q4254
P/O HV BOARD 42
FOCUS
GEOMETRY
Y AXIS ALIGN
SHIELD VOLTAGE
ASTIG
P/O P41U
P41Q
P41U
P41W
P41O
P41N
POWER TO FRONT PANEL
POWER TO P44-0
POWER TO P44-N
POWER FROM P20F & P20R
Z READOUT FROM J2021-21
J4105
BEAM LIMIT SENS FROM J4120
INTENSITY LIMIT FROM P20R-11
INTENSITY
Z AXIS FROM J2014
Z AXIS INHIBIT FROM P20F-13
P41P-6
P41W-3
J4114
GRID BIAS
GRID DRIVE
AUTO FOCUS DRIVE
Z AXIS PEAKING
AUTO FOCUS GAIN
EFF SN B199999 BELOW
P/O P42I
P/O P41I
P42Z
6.3V AC FROM T4201
P41P
7704A (DISPLAY UNIT)
P/O Z AXIS BOARD 41
REV. H, SEP 1977
1260-98
CRT CIRCUIT
6-29