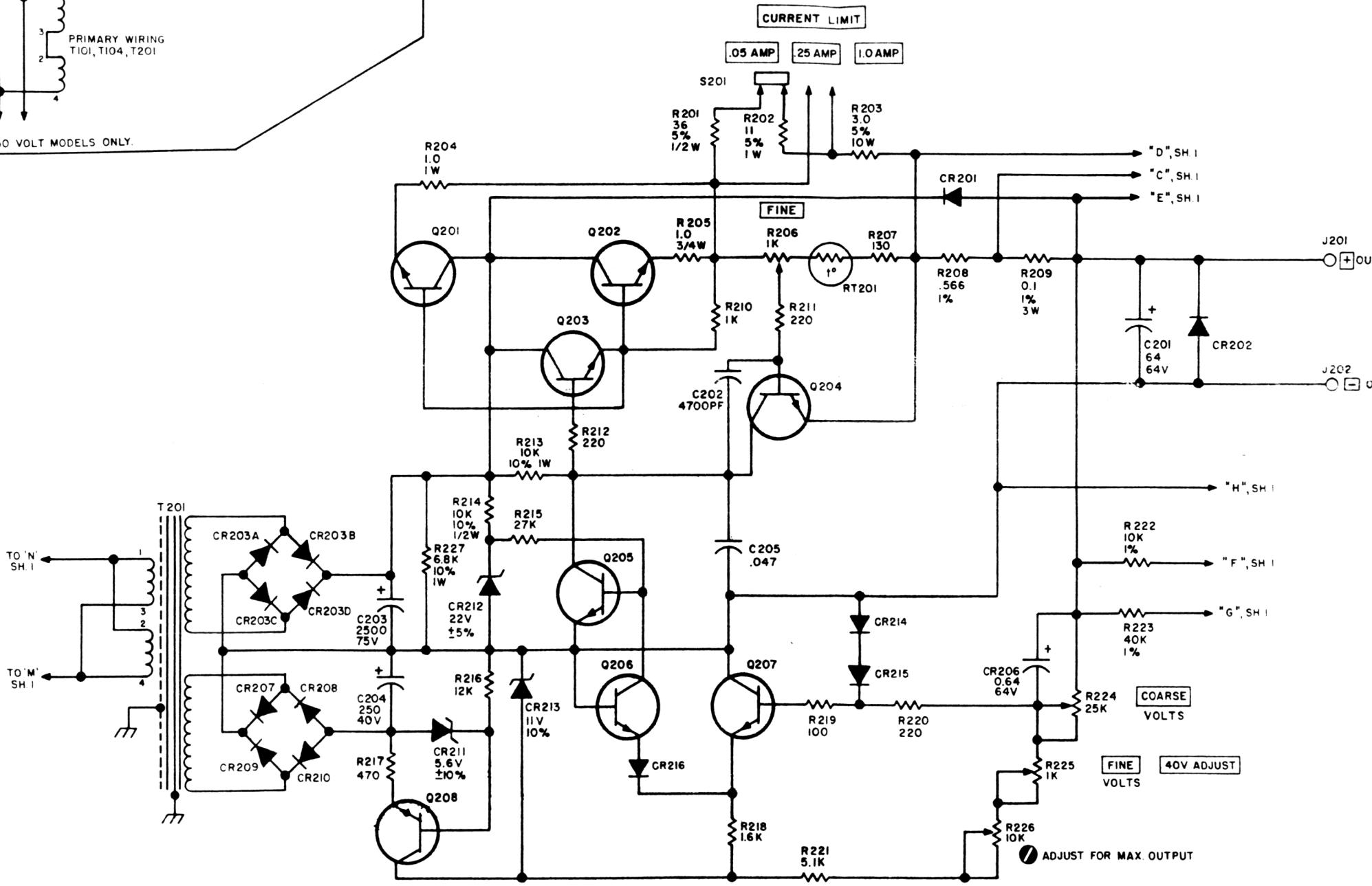
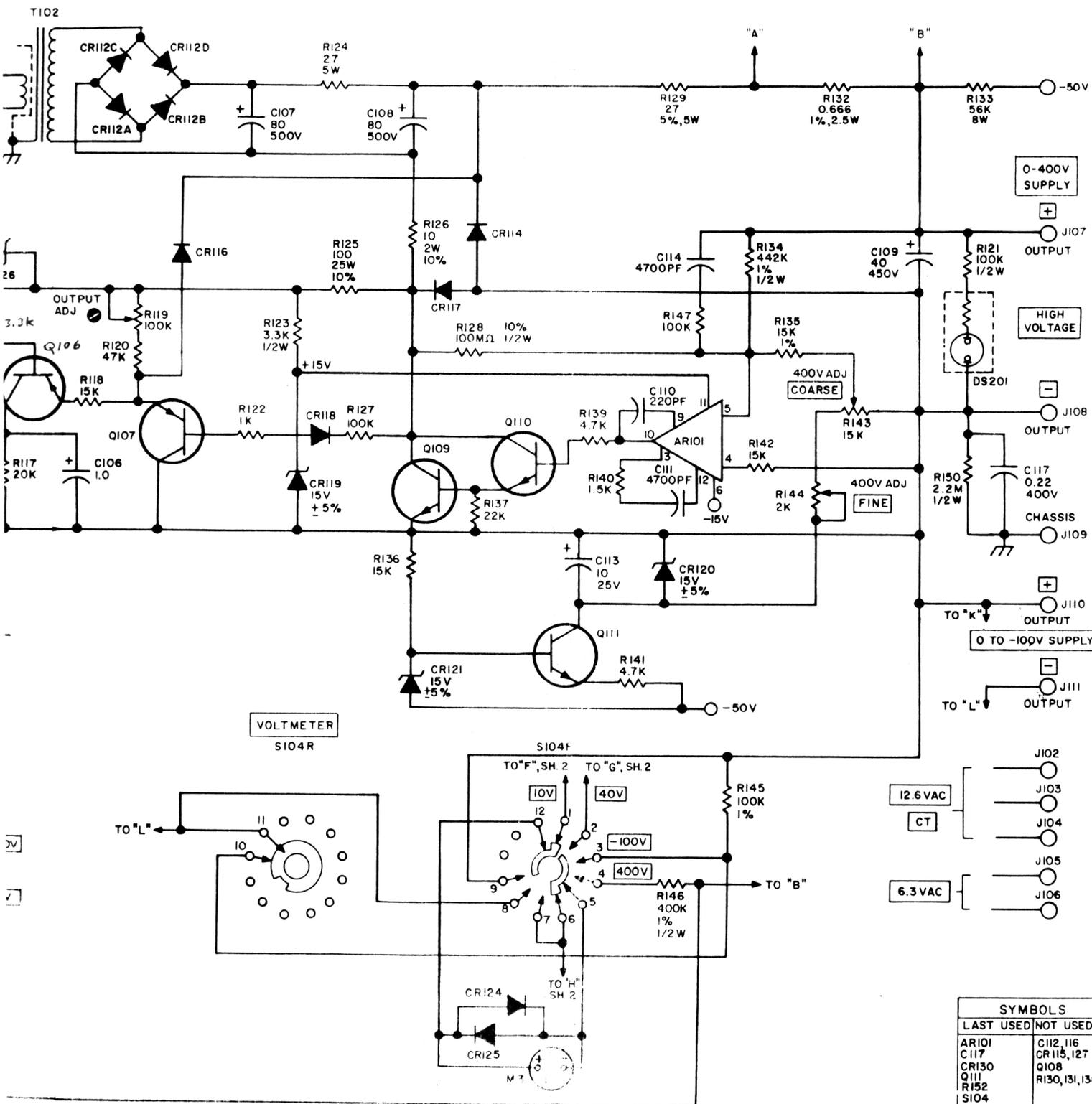


ON 230 VOLT MODELS ONLY.



SYMBOLS	
[Symbol]	LAST USED
[Symbol]	NOT USED



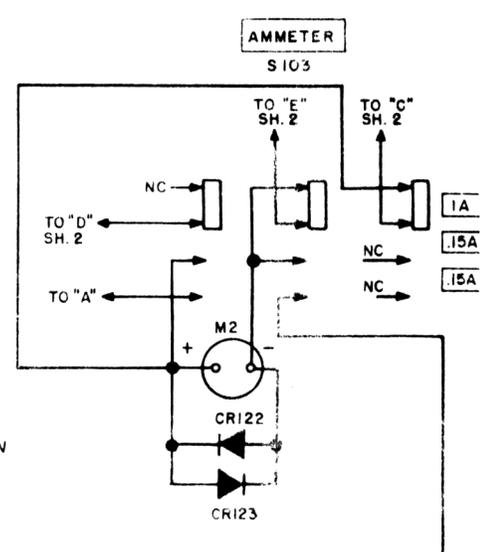
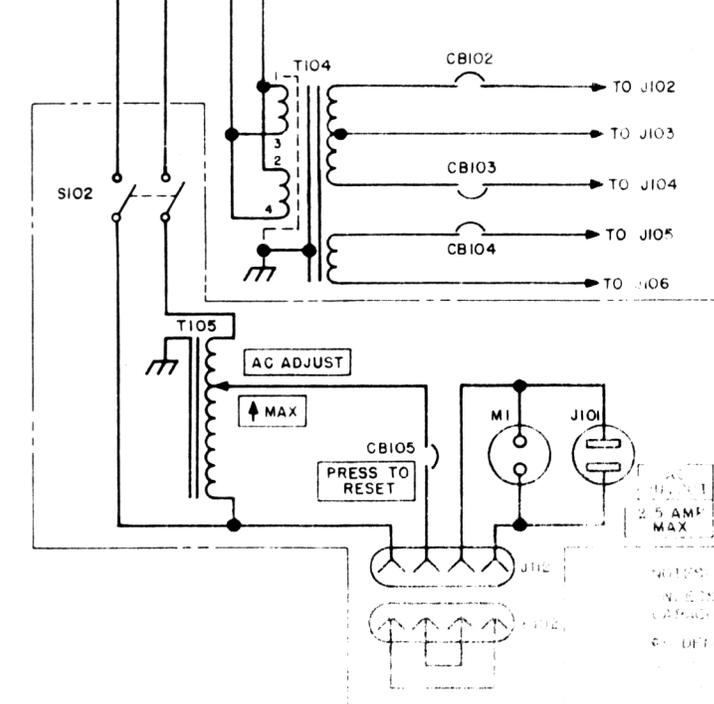
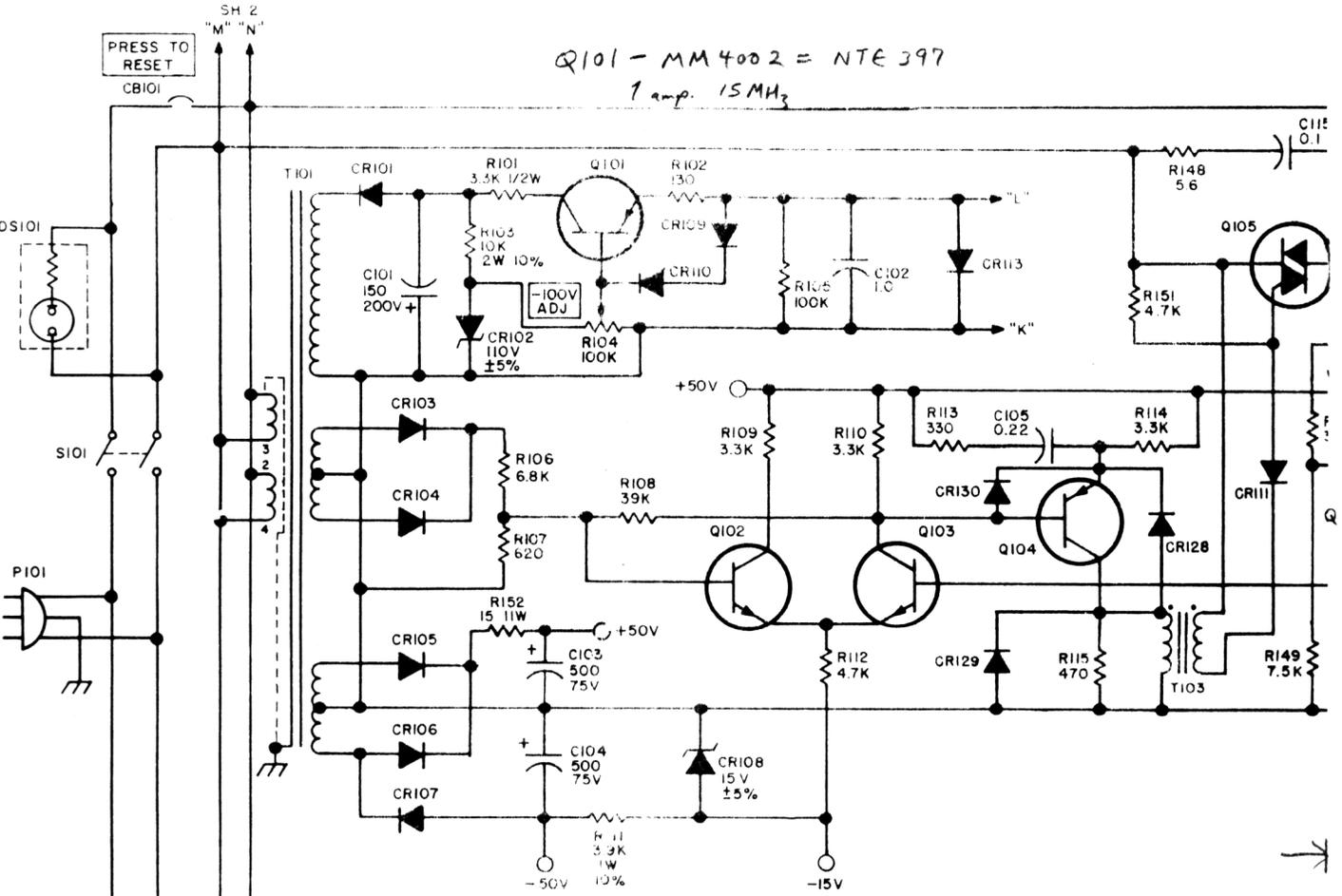
MODEL	STYLE NO.	AC LINE VOLTAGE
5055	905-068	115V RMS
5056	905-071	(NOMINAL)
5055E	905-077	230V RMS
5056E	905-078	(NOMINAL)

SH. 1 OF 2

SCHEMATIC WIRING DIAG. MODEL 5055 & 5056  
POWER SUPPLY (400V)

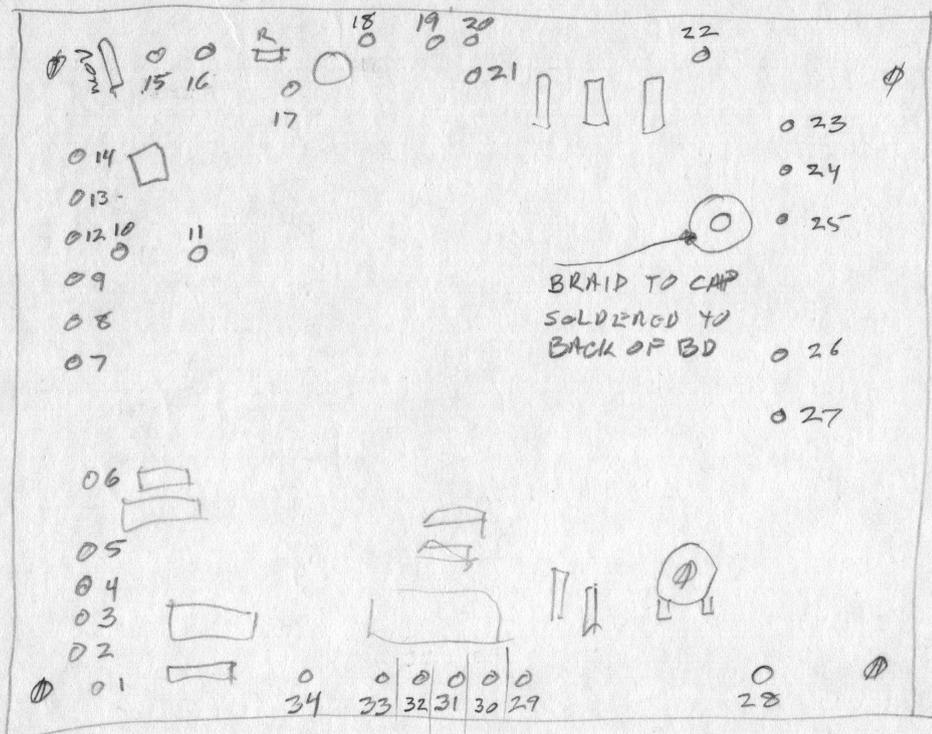
SYMBOLS	
LAST USED	NOT USED
AR101	CI12, 116
CI17	CR115, 127
CR130	Q108
Q111	RI30, 131, 138
RI52	
S104	
T106	
J112	
DS102	
CB105	
M3	
P102	

Q101 - MM4002 = NTE 397  
 1 amp. 15MHz



NOTES:  
 1. UNLESS OTHERWISE SPECIFIED, ALL RESISTOR VALUES ARE IN OHMS, 1/4W, 5%  
 CAPACITOR VALUES ARE MICROGRADS  
 2. REFLECTS CONNECTION  
 3. CONNECTION  
 4. COMPONENT NOMENCLATURE  
 5. COMPONENTS SHOWN AS WIRED IN 110 VOLT MODELS 5055 AND 5056.  
 MODELS 5055 AND 5056 REFER TO ALTERNATE WIRING DIAGRAM  
 ON SHEET 2 OF THIS DRAWING

BACK



LEFT BOARD

FRONT

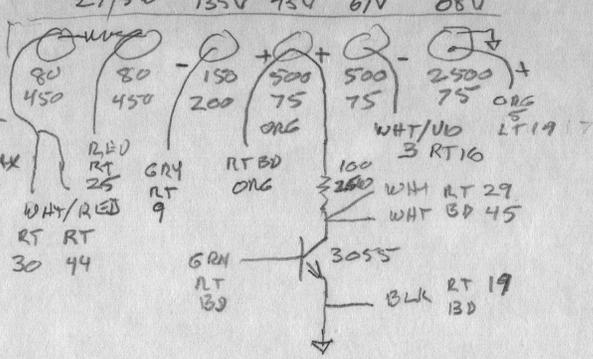
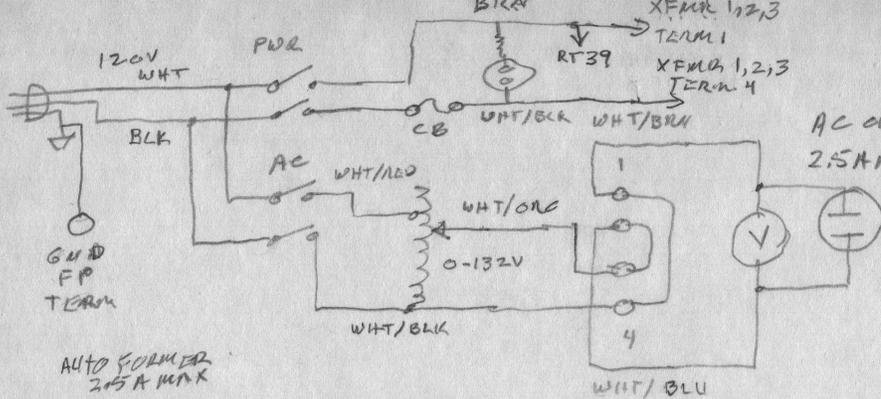
HICKOK  
2421-148

1	WHT/BLU #1	13	WHT/BRN #7
2	PINK #2	14	WHT #8
3	WHT/GRY #3	15	WHT/YEL #1
4	GRY #4	16	WHT/ORG #2
5	WHT/GRN #5	17	GRN #3
6	YEL #1	18	WHT/BLU #4
7	WHT/BLK #2	19	ORG #5
8	WHT/YEL #3	20	WHT #6
9	GRN #4	21	WHT/GRN #7
10	YEL -	22	BRN #1
11	VIO -	23	BRN #2
12	WHT/ORG #6	24	BLK TO BACK
25	BLK TO FRONT BLK CONN		
26	BLU #2		
27	BLU #1		
28	WHT/VIO TO 40V POT #1		
29	WHT/VIO TO BACK #2		
30	WHT/RED		
31	N/C		
32	BLK SILVER CONN		
33	N/C		
34	RED		

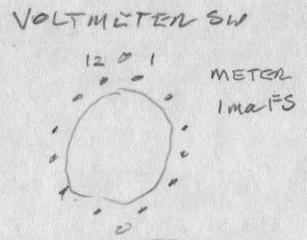
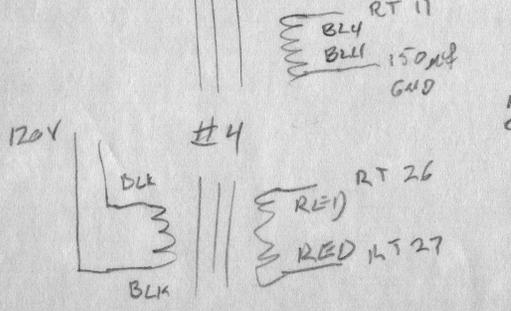
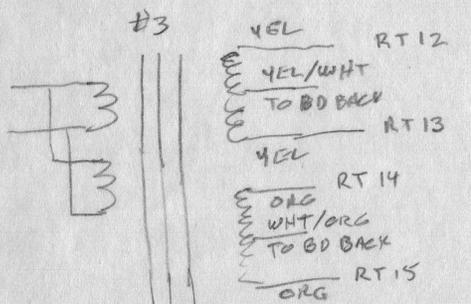
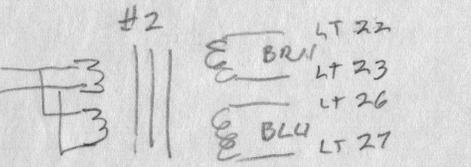
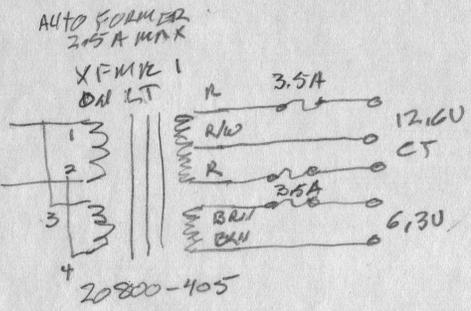
LEFT BOARD TOP CONNS  
HICKOK PS-5055 POWER SUPPLY

11/30/2017 LW





- 9 WHT/GRN PIN 5?
- 3R
- 5W
- 6 GRN #3 PIN 17
- LT 18D
- 9 BLK. PIN 24?
- ± 220
- 50
- 0 WHT/VIO #2 PIN 29



- VOLTMETER SW
- 1 ORG TO METER +
  - 2 GRN TO S
  - 3 GRN TO 10/WHT/BLU TO RT 46
  - 4 BLK TO 40V BLK OUT
  - 5 WHT TO -150 BLU OUT / GRN TO 2
  - 6 JMP TO 7
  - 7 JMP TO 6 / BLK TO
  - 8 GRN TO METER -
  - 9 WHT/BLK TO RT 4
  - 10 GRN TO 3
  - 11 WHT/BLU LT 41
  - 12 GRN TO LT #2
- #2 TO #3 EXCEPT 100 POS

1A .25 .05  
BLACK  
CUR LIM SW

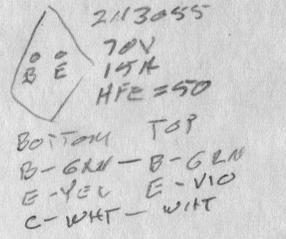
4	3	2	1
0	0	0	0

- 1 WHT/BLK TO LT 7
- 2 WHT/GRY TO LT 3
- 3 YEL TO LT 6
- 3 YEL TO CUR LIM POT TOP
- 4 GRN TO LT #4

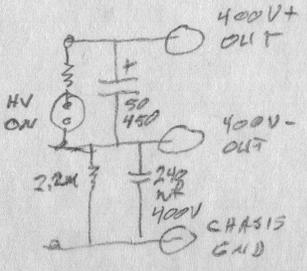
1	2	3
9	9	9
0	0	0
2	3	4

1A .25A .05A  
7-3 1A  
3-6 .25A  
6-4 .05A  
CUR LIM POS = 1K  
CUR METER  
1mA FS

1A	.15A	.15A
40V	40V	40V
AMPS SW		
10	7	4
8	0	0
11	8	5
9	0	9
12	9	6
0	0	0



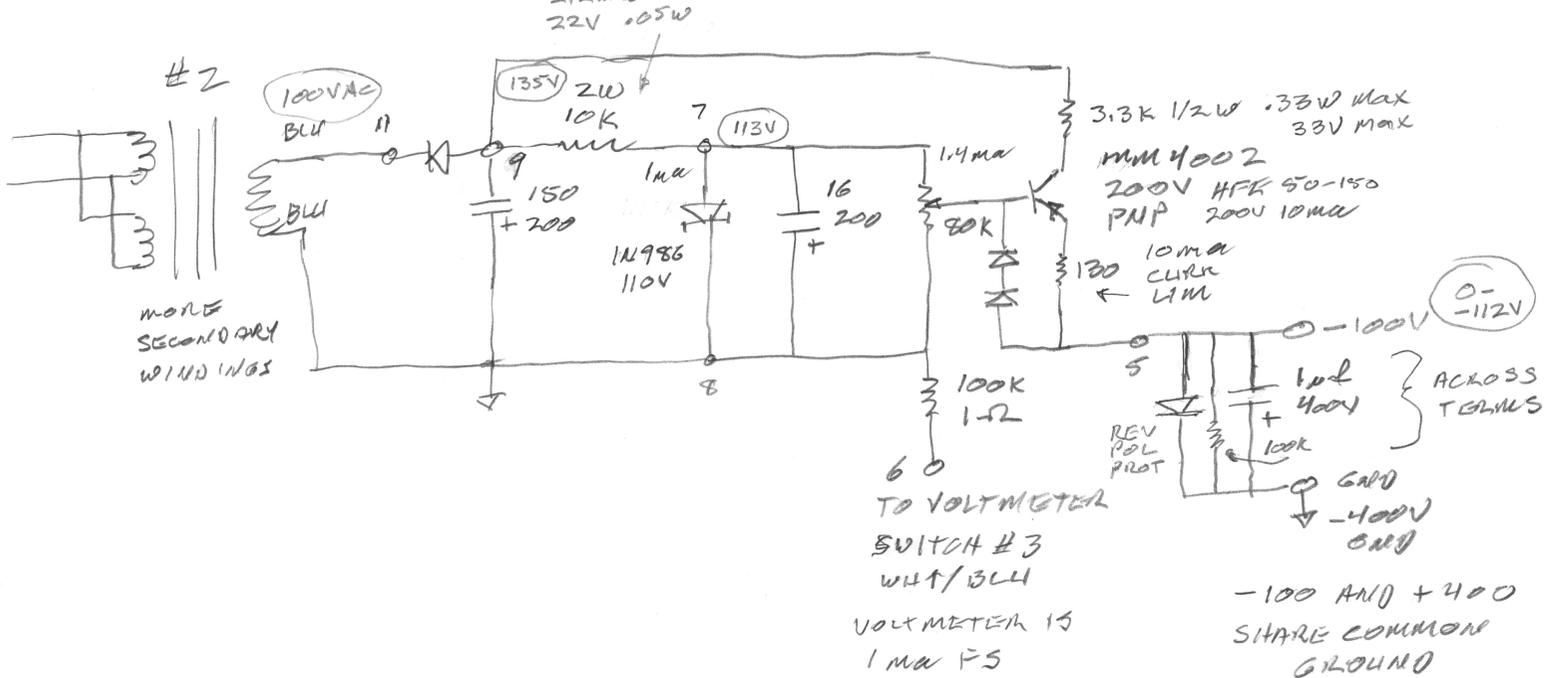
- 1 WHT/VIO } 400V 150mA
- 2 GRN
- 3 NC
- 4 GRN TO 12
- 5 [JMP TO 11 / BLK TO AMMETER - ] 40V 150mA
- 6 NC
- 7 WHT TO LT #14
- 8 WHT/BRN TO LT #13
- 9 WHT/ORG TO LT #12
- 10 NC
- 11 JMP TO 5
- 12 [GRN TO 4 / RED TO AMMETER + ] 40V 1A



HICKOK PS-5055 POWER SUPPLY CHASSIS WIRING BITS



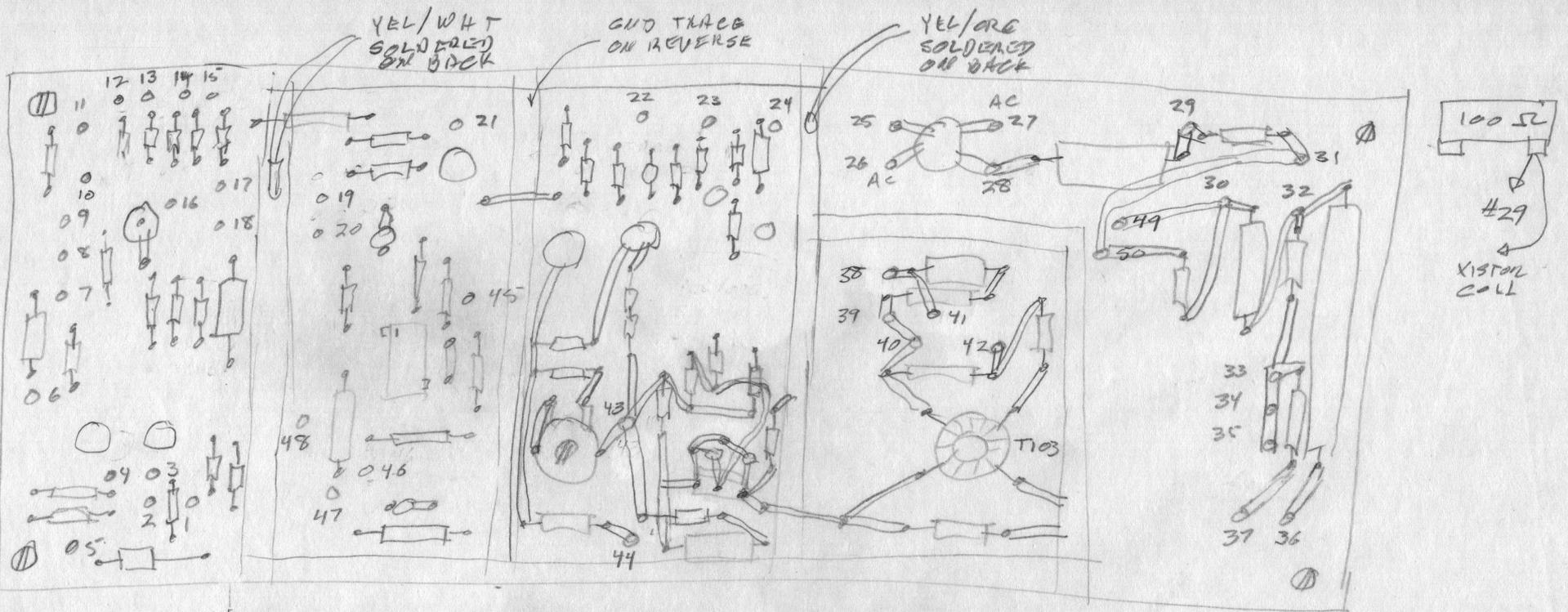




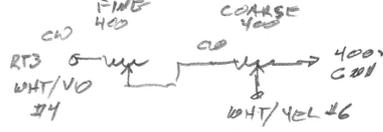
MM4002 IS TO 39 CAN, NO HEAT SINK.  
 ASSUME 1W MAX @ 25C  
 IF OUTPUT SHORTED, WILL HAVE 90V @ 10mA,  
 = 900mw. IN SPEC, BARELY

HICKOK PS-5055  
 RIGHT BOARD  
 -100V SUPPLY

11/20/2017  
 LW



1 BLK -	13 YEL #2	25 RED -	37 WHT/BLK #2	HICKOK 2421-149
2 N/C -	14 ORG #3	26 RED #2	38 BLK BLK CONN	
3 WHT/VIO #4	15 ORG #4	27 RED #1	39 WHT TO PWR SW #1	
4 WHT/GRN #3	16 WHT/VIO #3	28 BLK SILVER CONN	40 GRN #2	
5 WHT #2	17 ORG #5	29 WHT TO 100Ω R	41 GRN #3	
6 WHT/BLU #1	18 WHT/VIO #4	30 WHT/RED	42 YEL #4	
7 WHT/ORG -	19 BLK TO XISTOR	31 BLK TO FRONT	43 ORG -	
8 BLK -	20 BLK TO P.R. SWITCH	32 WHT/VIO	44 WHT/RED -	
9 GRN #1	21 GRN TO XISTOR	33 GRN #1	45 WHT TO XISTOR COLL. #29	
10 WHT #2	22 BLK	34 GRN #2	HICKOK PS-5055 POWER SUPPLY RIGHT BOARD TOP CONNS	
11 BLU -	23 WHT/VIO TO #48	35 GRN #3		47 WHT/MEL #6
12 YEL #1	24 WHT TO #10	36 WHT/VIO #1	48 WHT/VIO #5	11/31/2017 LW
		UPPER RIGHT →	49 N/C	
			50 N/C	



**Right Board**

Pin	Wire Color	Marker	To
1	BLK	-	FP TO #31 400V - STAR GND
2	n/c	-	N/C
3	WHT/VIO	4	TO 400V FINE POT CW
4	WHT/GRN	3	FP -100V POT ARM
5	WHT	2	FP -100 - OUT
6	WHT/BLU	1	FP VOLT METER SW #3 W/ FERRITE BEAD ON BOARD END
7	WHT/ORG	-	FP -100 POT CW TOP
8	BLK	-	FP 400V - STAR GND
9	GRY	1	BP 150 @ 200V CAP - ONLY
10	WHT	2	TO #24
11	BLU 100VAC	-	PROB -100V WINDING NO CT
12	YEL 112VAC	1	TO XFMR WINDING AT I-EL END TO 150 @ 200 + & 400V STAR -
13	YEL	2	XFMR, PROB 400V WINDING
14	ORG 96VAC	3	CT IS YEL/WHT TO GND TRACE ON BOARD BACK
15	ORG	4	XFMR, PROB LV BIAS WINDING
16	WHT/VIO	3	CT IS WHT/ORG TO GND TRACE ON BOARD BACK
17	ORG	5	BP 500 @ 75 #1 CAP + ONLY, CAP - TO 400V STAR GND
18	WHT/VIO	4	15 OHM SW RESISTOR LT ON PCB STRIP/RT TO 400V STAR GND
19	BLK	-	TO WHT/VIO #1, #36
20	BLK	-	to xistor 400V - STAR GND
21	GRN	-	to f.p. switch 400V STAR GND
22	BLK	-	to xistor 3055
23	WHT/VIO	-	400V STAR GND
24	WHT	-	to #48
25	RED	-	to #10
26	RED	2	80 @ 450 #1 +
27	RED	1	XFMR WINDING, NO CT
28	BLK	silver conn	ONLY WINDING ON XFMR, NO DUAL PRIMARY
29	WHT	-	80 @ 450 #1 + 2 -; NOT TO COMM GND
30	WHT/RED	-	to 100 ohm resistor & xistor coll & #45 / LEFT TO #43
31	BLK	-	80 @ 450 #2 +, also #44
32	WHT/VIO	-	to front TO #1 400V - STAR GND
33	GRY	1	TO AMMETER SWITCH #1 4 3 2 1
34	GRY	2	TO AMMETER SWITCH #5 8 7 6 5
35	GRY	3	TO 400V + OUT PLT
36	WHT/VIO	1	TO #46
37	WHT/BLK	2	TO #18
38	BLK	black conn	TO VOLT METER SW #9
39	WHT	1	TO XFMR PRIMARY, OTHER END TO WHT/BLK TO MAIN CB OUTPUT
40	GRY	2	to pwr switch
41	GRN	3	Q105 LT
42	YEL	4	Q105 COLLECTOR } MAC10-6, MAYBE REPLACED
43	ORG	-	Q105 RT
44	WHT/RED	-	500 @ 75 #2 +, ALSO 100 @ 200V LEFT / RT TO #29
45	WHT	-	80 @ 450 #2 +, ALSO #30
46	GRY	-	to xistor collector & #29 100 ohm R
47	WHT/YEL	6	TO #35
48	WHT/VIO	5	FP 400V COARSE POT ARM
49	n/c	-	TO #23
50	n/c	-	