
YAMAHA COMBO ORGAN

SERVICE MANUAL

MODEL **YC-25D**





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1. Circuit Board Substitution Chart

SUBSTITUTION CAN BE MADE AS FOLLOWS,

CIRCUITS	PART NO	REMARKS
M (#2158)	NA 2158	c5 ~ b5 Tone Generator Circuit
D (#2159)	NA 2159	C ~ B Divider Circuit
I3 (#2191)	NA 2191	G ~ B Integrator Circuit
I2 (#2192)	NA 2192	E ~ G Integrator Circuit
I1 (#2193)	NA 2193	C ~ D Integrator Circuit
BV (#2194)	NA 2194	BASS Divider Circuit BASS Keying Circuit VIBRATO OSC. Circuit GLIDE Drive Circuit
UF (# 2195)	NA 2195	16' 8' 4' FLUTE Filter Mixing Amp. Circuit
LF (# 2196)	NA 2196	UPPER LOWER High Pass Filter " Low Pass Filter
BF (# 2197)	NA 2197	Tone Filter
PS (#2198)	NA 2198	PERCUSSIVE Circuit (4' 8')
MA (#2199)	NA 2199	MUTE Preamp. Circuit
TV (#2184)	NA 2184	TOUCH VIBRATO Preamp. Circuit TOUCH MUTE "
PU (#2248)	NA 2248	Power Supply Circuit
CNR (#2201)	NA 2201	BASS Mixing Circuit

NOTE : ABBREVIATIONS OF WIRE COLOURS

BL : BLACK	BR : BROWN	RE : RED	OR : ORANGE
YE : YELLOW	GR : GREEN	BE : BLUE	VI : VIOLET
GY : GRAY	WH : WHITE	GG : GRASS GREEN	SB : SKY BLUE
PK : PINK	TR : TRANSPARENT	PT : TIN PLATED WIRE	

Wire colours in the circuit diagrams are indicated as above.

2. YC-25D Specifications

KEYBOARDS

UPPER MANUAL KEYS 49, c ~ c4 (4 octaves)

LOWER MANUAL KEYS 49, c ~ c3 (4 octaves)

(incl. 19 MANUAL BASS KEYS)

OPTIONAL PEDALBOARD KEYS 13, C1~C (1 octaves)

TONE LEVERS

UPPER MANUAL 16', 8', 4', 2-2/3', 2', 1-3/5', 1'

TROMBONE 16', KINURA 16', TRUMPET 8', STRING 5'

LOWER MANUAL 16', 8', 4', 2-2/3', 2'

BASS 16', 8', BASS GUITAR

EFFECT LEVERS

VIBRATO, VIBRATO SPEED, TOUCH VIBRATO (UPPER)

PERCUSSIVE 4', 2-2/3' (UPPER)

PERCUSSIVE LENGTH (UPPER)

UPPER BRIGHT, LOWER BRIGHT, BASS PIZZICATO

EFFECT CONTROLS

MANUAL BALANCE

EFFECT SELECTORS

TOUCH MUTE (UPPER), ATTACK GLIDE (UPPER)

OTHER CONTROLS

MASTER VOLUME, BASS VOLUME; PITCH CONTROL

EXPRESSION PEDAL

BASS CHANGEOVER SWITCH (MANUAL/PEDAL)

POWER SWITCH WITH PILOT LAMP

OTHER FITTINGS

OUTPUT JACK, OPTIONAL PEDALBOARD SOCKET

CIRCUITRY

SOLID STATE, Incl. ICS

POWER CONSUMP.

15 WATTS

DIMENSIONS

W x D x H (SET UP) 101 x 62 x 97 cm (40" x 24" x 38")

WEIGHT

43 kg (95 lbs.)

FINISH

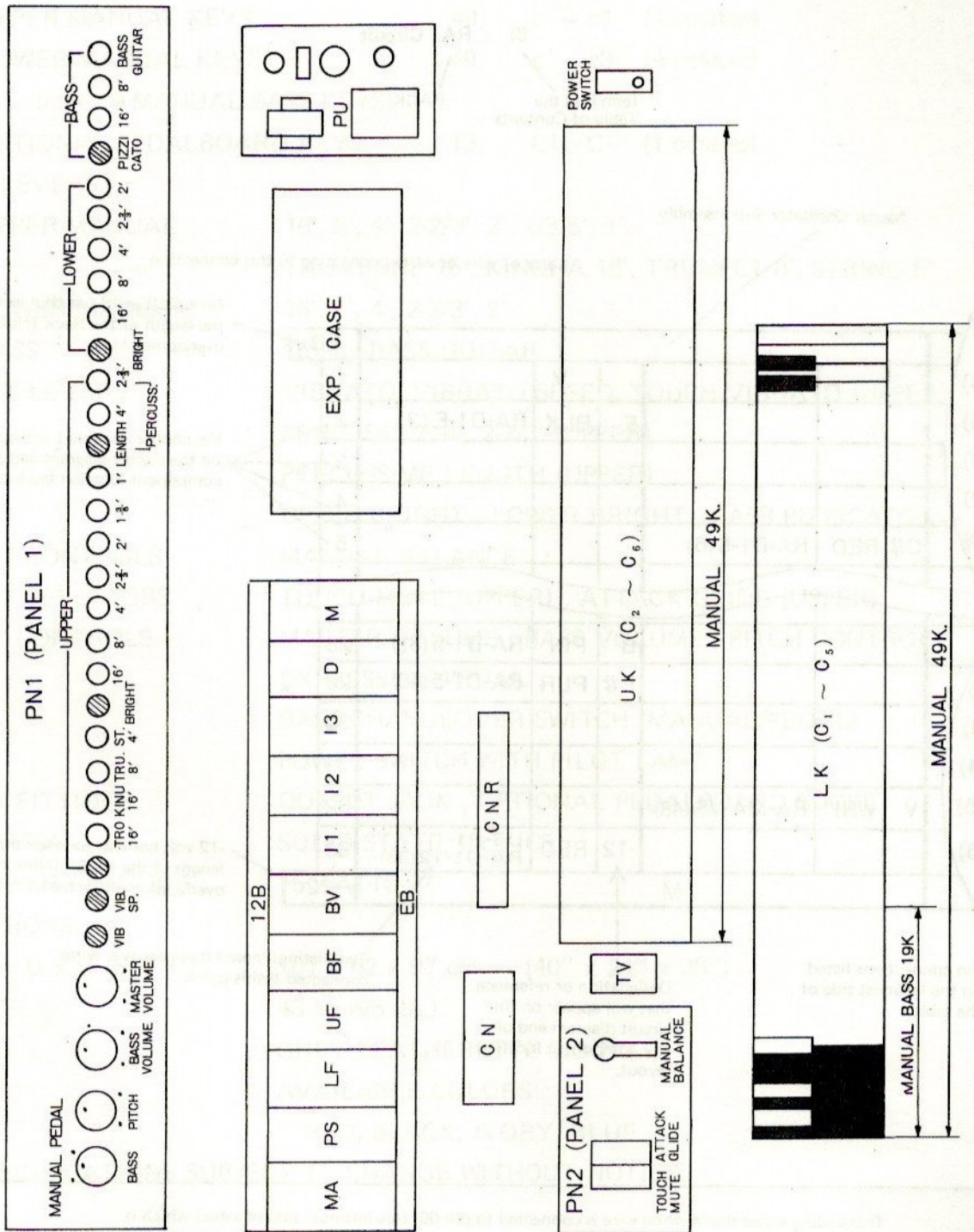
GREY LEATHERETTE SIDING

AVAILABLE COLORS

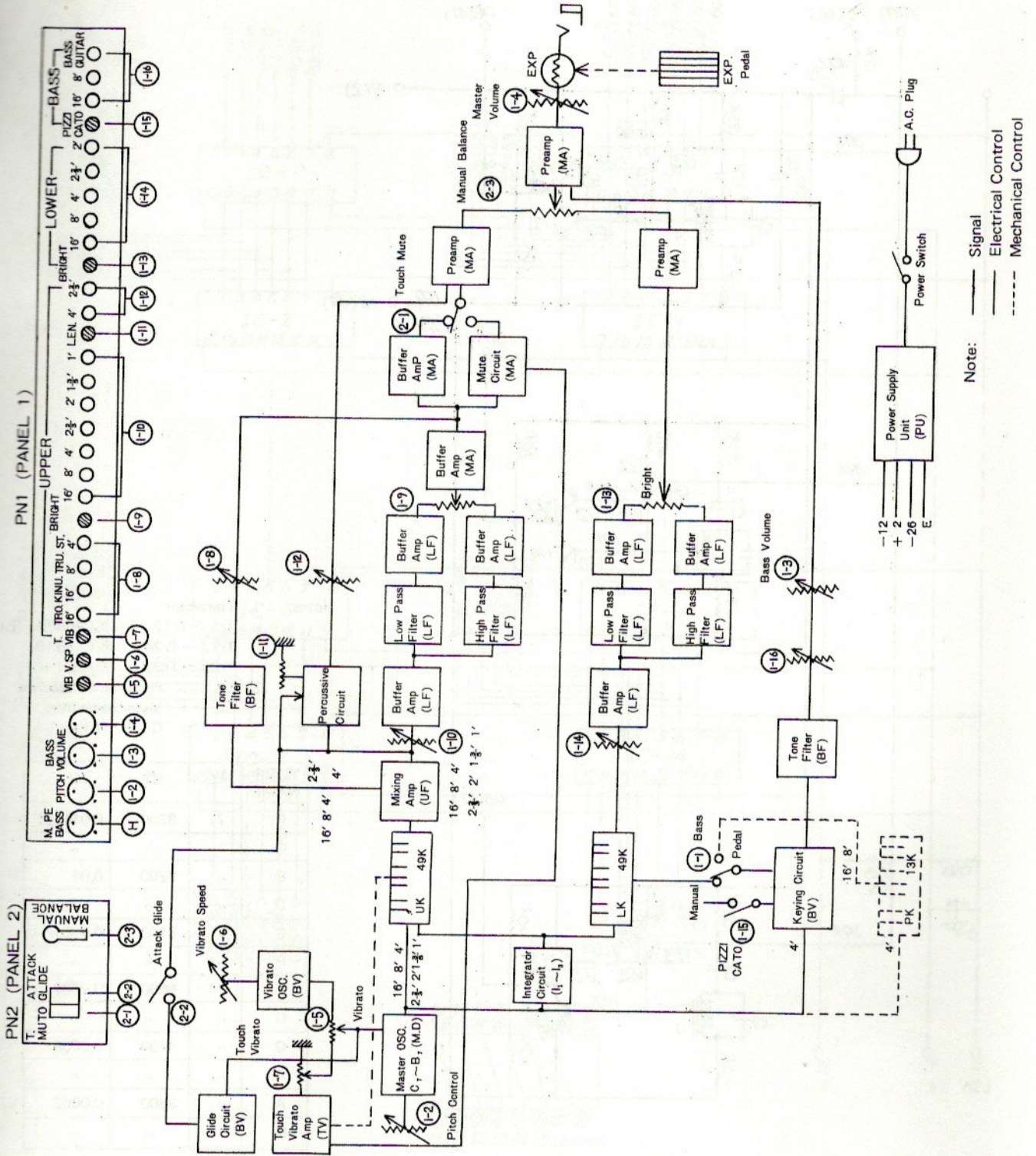
RED, BLACK, IVORY, BLUE

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

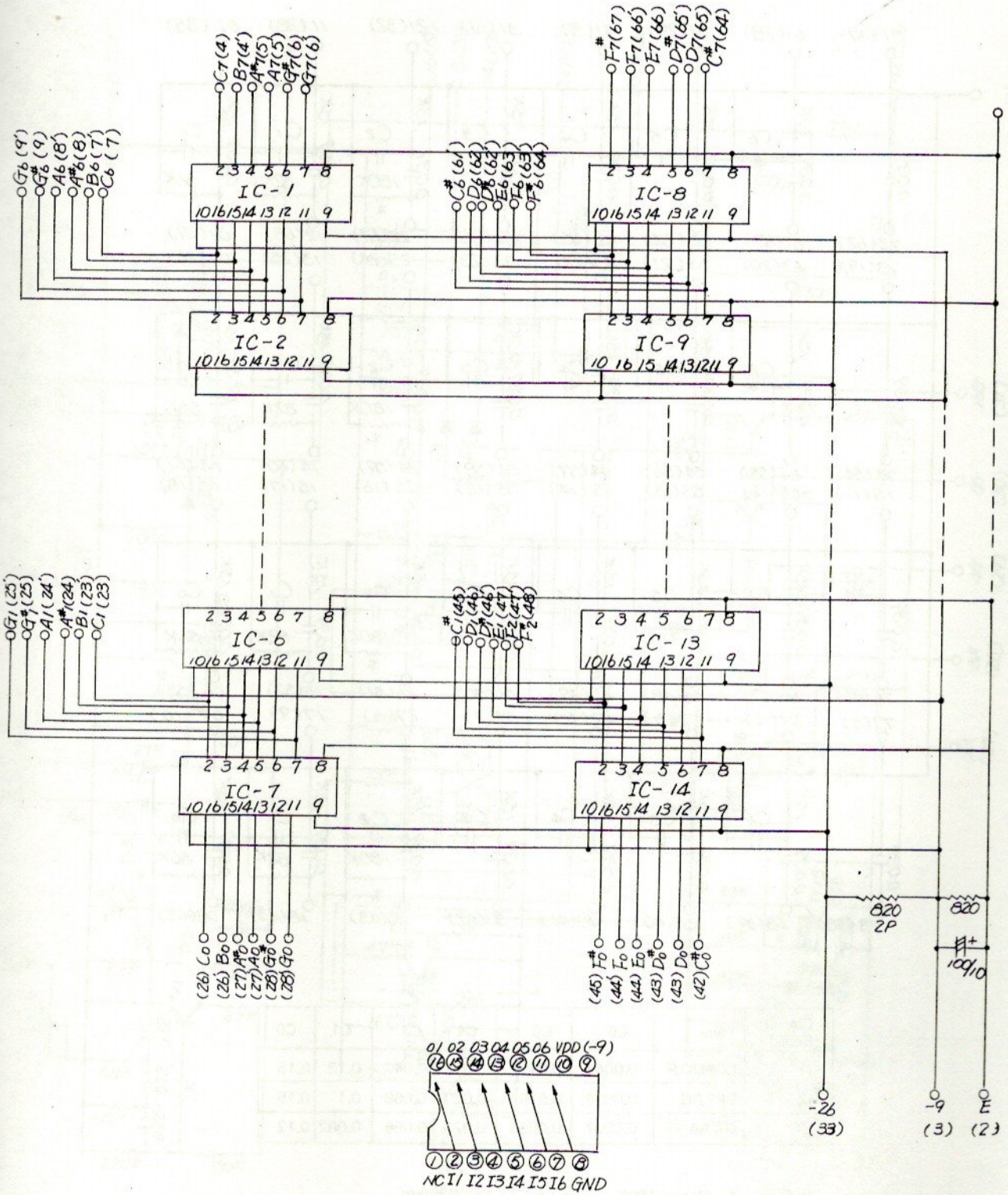
3 Unit Layouts



4. Block Diagrams

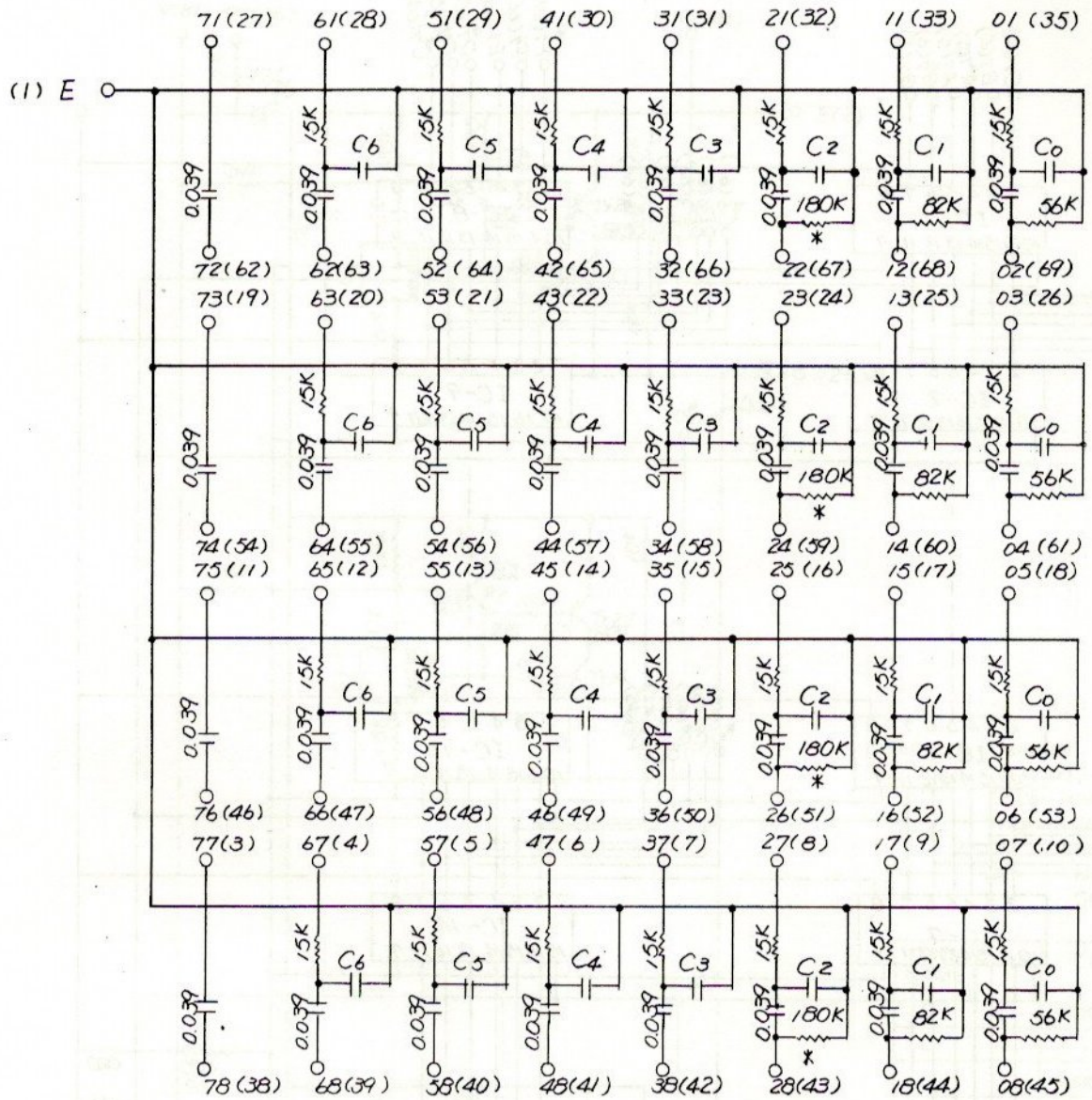


6. D Circuit Diagram



Note: 1. DIL: IC
 IC-1 ~ IC-14
 Integrated Circuit
 (HD3111 or S-3788)

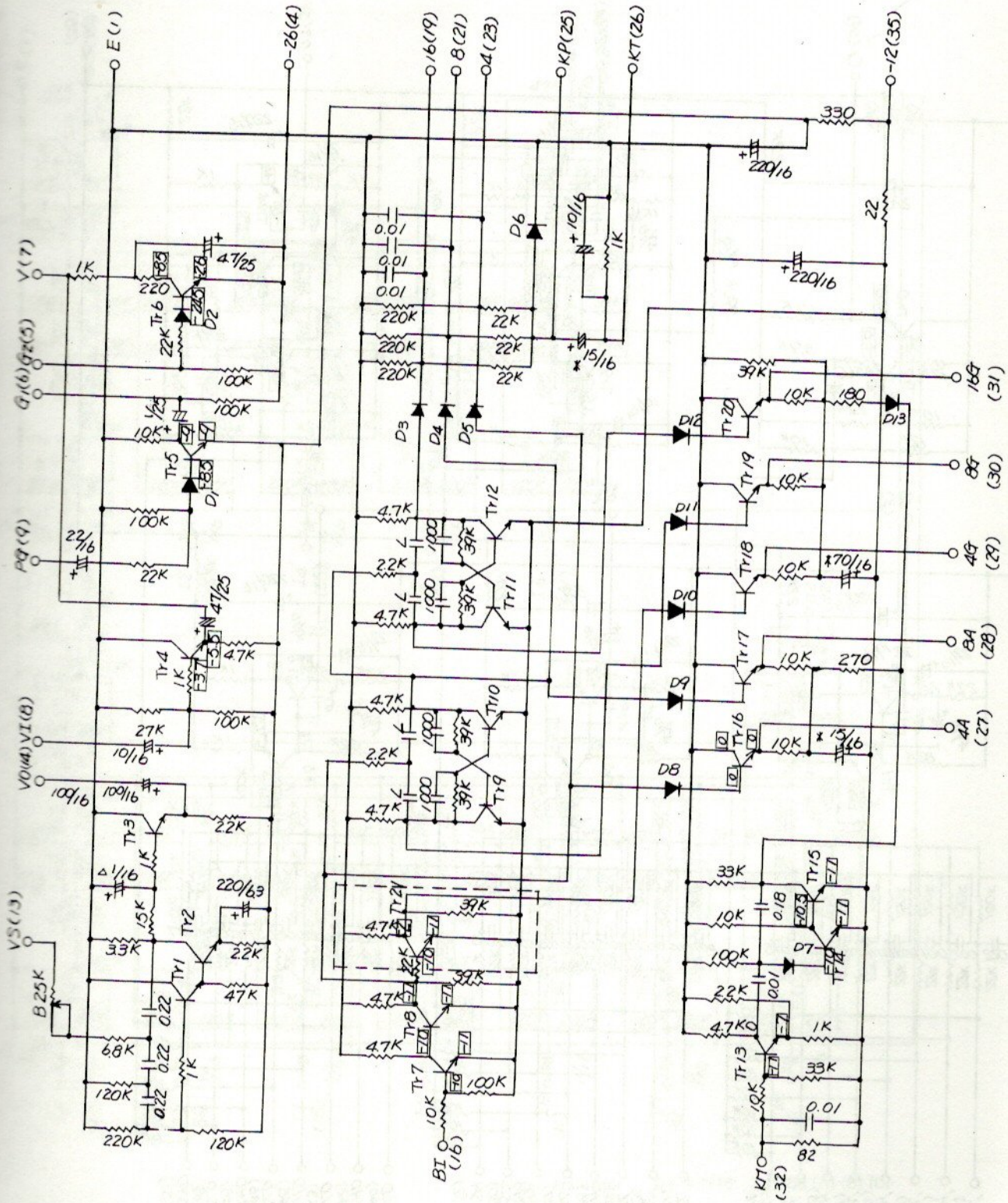
7. I (I1, I2, I3) Circuit Diagram



Circuit Board	Tone	C6	C5	C4	C3	C1	C0
I1	CC#DD#	0.0047	0.01	0.022	0.047	0.12	0.15
I2	EFF#G	0.0039	0.018	0.039	0.068	0.1	0.15
I3	G#AA#B	0.0027	0.0056	0.027	0.056	0.082	0.12

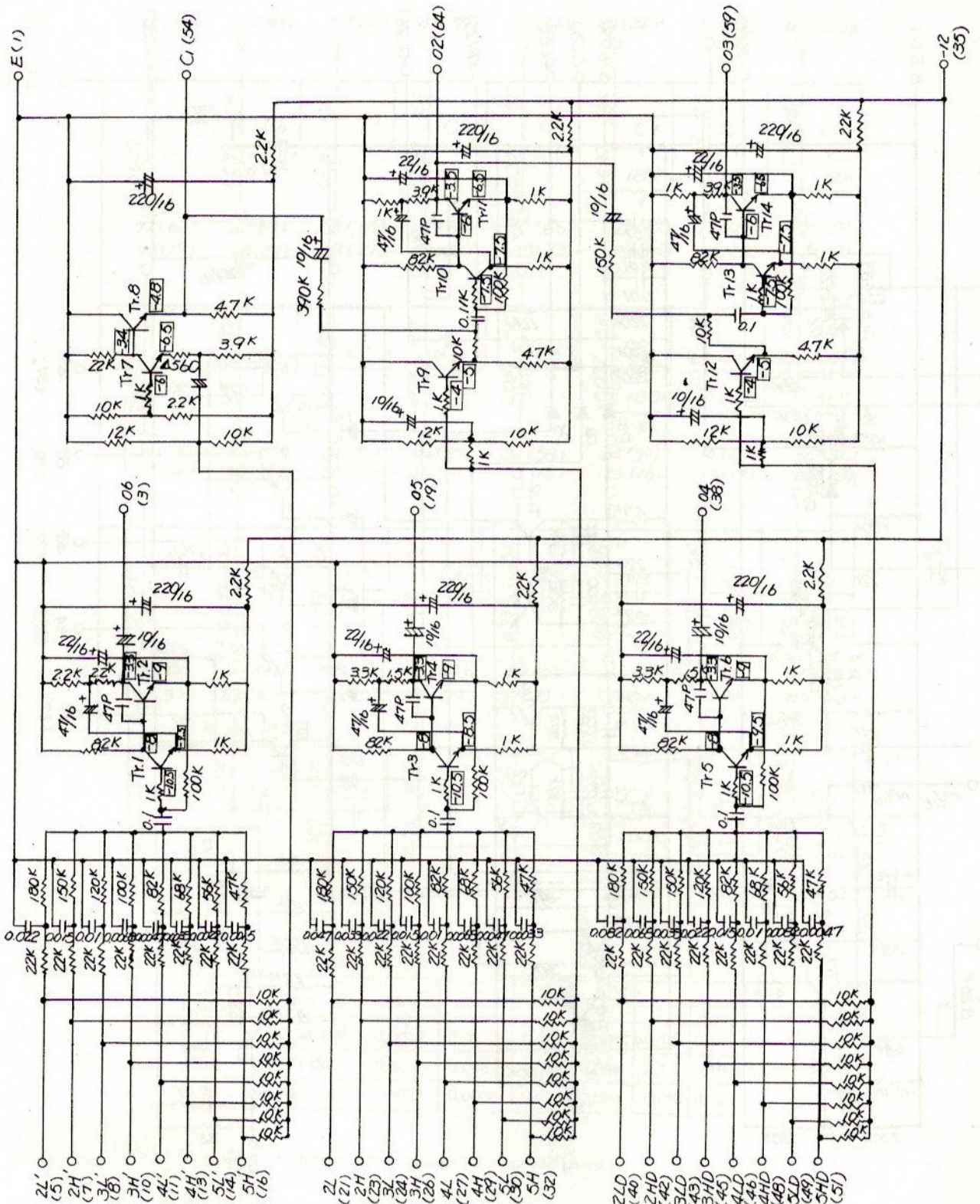
Note) * Market 180K: except for I3 circuit board

8. BV Circuit Diagram



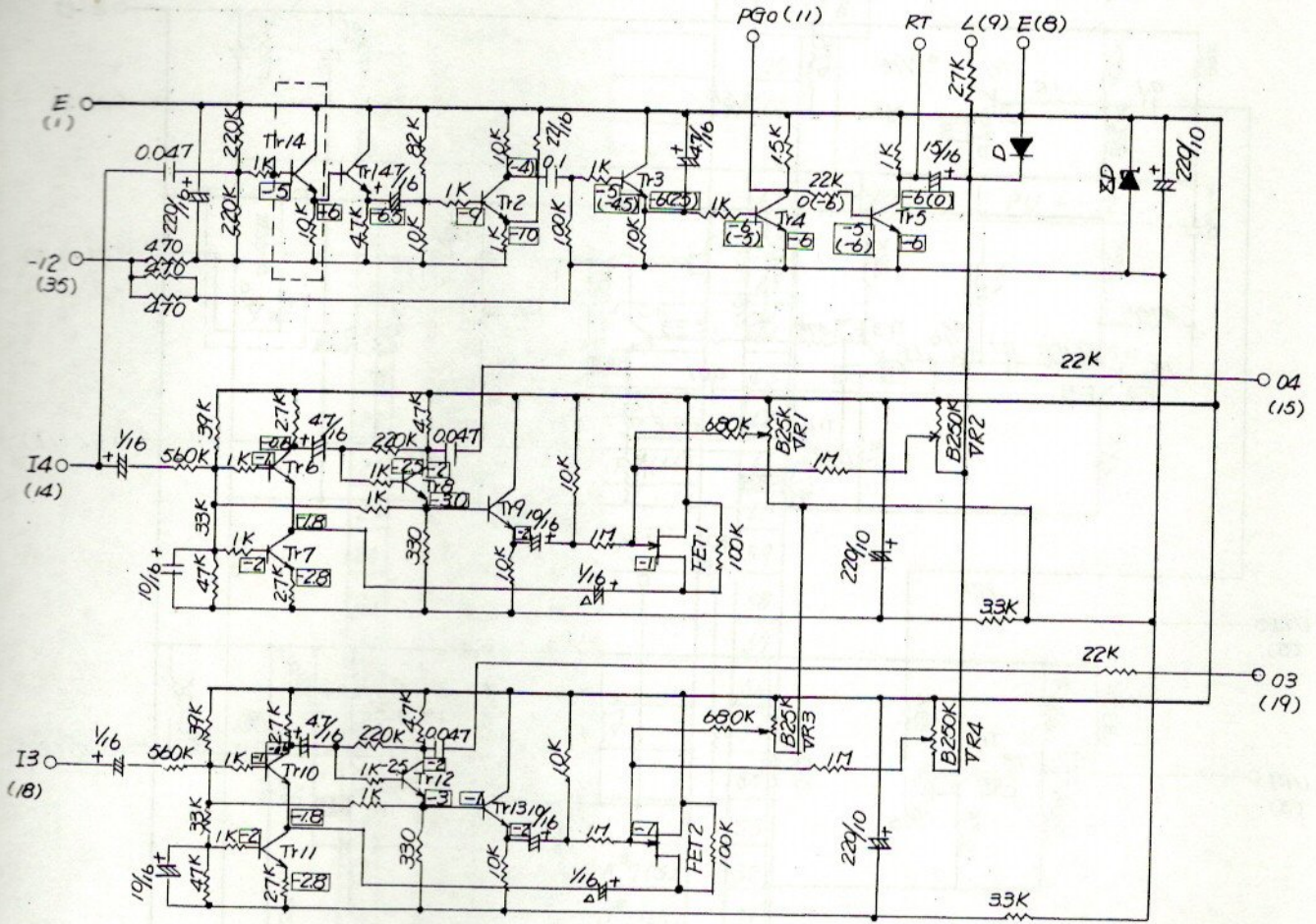
- Notes: 1. Transistor Tr9~Tr12: 2SC458 (A)
 Others: 2SC458 (B), (C)
 2. Diode D1~D13: 1S1555
 3. * Marked: Electrolytic capacitor
 4. Δ Marked: solid AL capacitor

9. UF Circuit Diagram



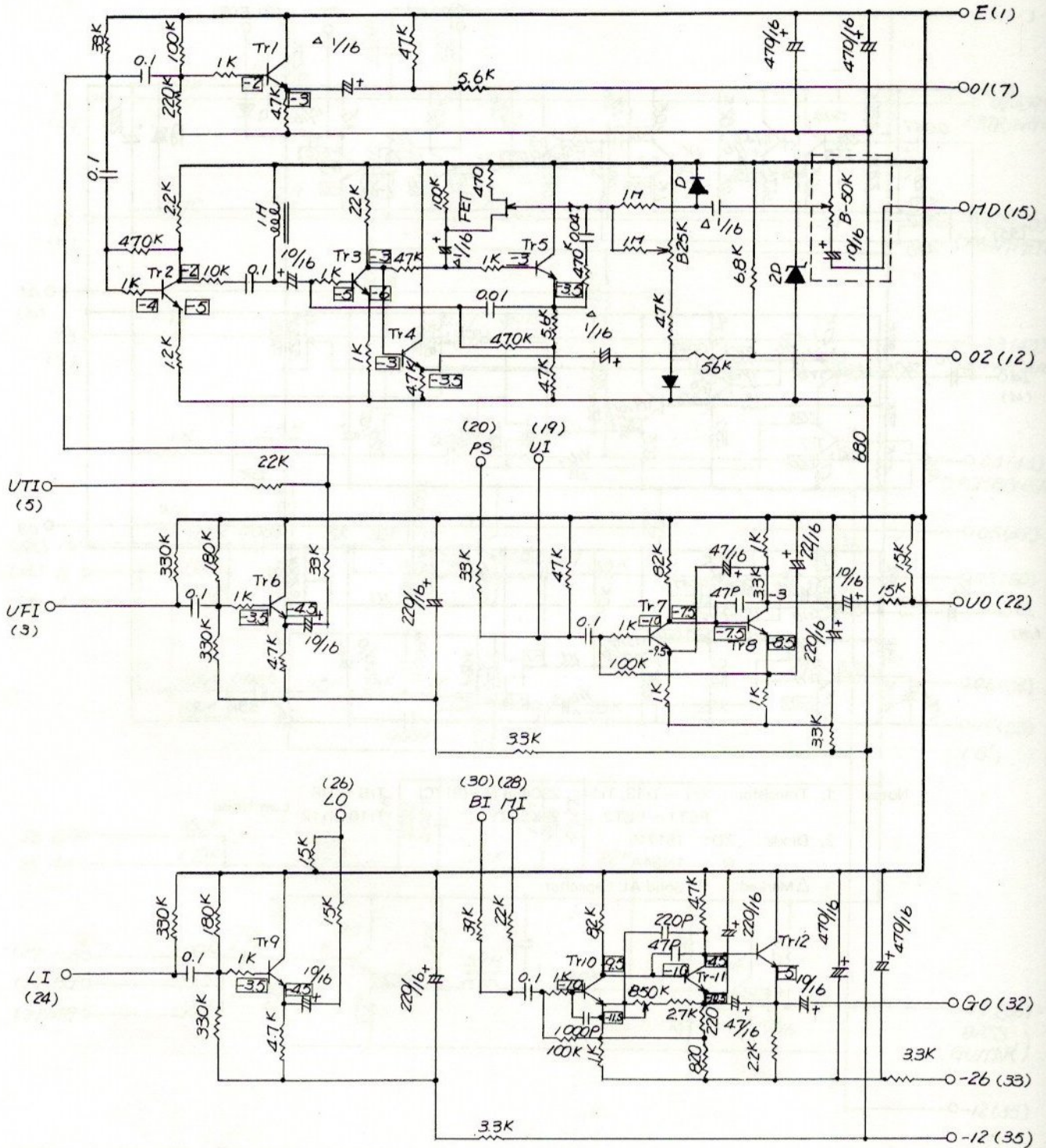
Note: 1. Transistor Tr1, Tr3, Tr5, Tr10, Tr13: Low Noise
Other: 2SC458 (B) (C)

12. PS Circuit Diagram



- Notes:
1. Transistor Tr1 ~ Tr13, Tr14; 2SC458 (A) (B) (C) Tr6 ~ Tr8
 FET1 ~ FET2 ; 2SK30 (Y) Tr10 ~ Tr12 : Low Noise
 2. Diode ZD: 1S1715
 D : 1N34A
 3. Δ Marked: Solid AL Capacitor

13. MA Circuit Diagram



- Notes:
1. Transistor
 Tr1~Tr4, Tr6, Tr7, Tr10 Low noise
 Tr5, Tr8, Tr9, Tr11, Tr12 2SC458 (B) (C)
 FET : 2SK30 (V)
 2. Diode ZD: 1S1715
 D : 1S1555
 3. Δ marked : Solid AL Capacitor

-12 B

I 1		I 1	
35	BR	RA-D-Co (26)	LK-C1-16'
34	BR	RA-D-C1 (23)	LK-C2-16'
33	BRx2	CNR-1	LK-C3-16'
32	BRx2	RA-D-C2 (20)	LK-C4-16'
31	BRx2	CNR-13	UK-F2-22 2/3'
30	BR	RA-D-C3 (16)	LK-C5-16'
29	BR	RA-D-C4 (13)	UK-F3-22 2/3'
28	BR	RA-D-C5 (10)	LK-C6-8'
27	BR	RA-D-C6 (7)	UK-F4-22 2/3'
26	BRx2	RA-D-C7 (4)	LK-C5-4'
25	RE	RA-D-C8 (42)	LK-C5-2'
24	RE	RA-D-C9 (45)	LK-C1-16'
23	REx2	CNR-2	LK-C2-16'
22	RE	RA-D-C10 (48)	LK-C3-16'
21	RE	CNR-14	LK-C4-16'
20	REx2	RA-D-C11 (52)	UK-F2-22 2/3'
19	REx2	RA-D-C12 (55)	LK-C4-8'
18	REx2	RA-D-C13 (58)	UK-F3-22 2/3'
17	REx2	RA-D-C14 (61)	LK-C4-4'
16	RE	RA-D-C15 (64)	UK-F4-22 2/3'
15	OR	RA-D-C16 (67)	LK-F4-22 2/3'
14	OR	RA-D-C17 (70)	UK-F5-22 2/3'
13	ORx2	RA-D-C18 (73)	LK-F6-22 2/3'
12	ORx2	RA-D-C19 (76)	UK-F7-22 2/3'
11	OR	RA-D-C20 (79)	LK-F8-22 2/3'
10	OR	RA-D-C21 (82)	LK-F9-22 2/3'
9	OR	RA-D-C22 (85)	LK-F10-22 2/3'
8	OR	RA-D-C23 (88)	LK-F11-16'
7	OR	RA-D-C24 (91)	LK-D2-16'
6	OR	RA-D-C25 (94)	LK-D3-16'
5	OR	RA-D-C26 (97)	LK-D4-16'
4	OR	RA-D-C27 (100)	LK-D5-16'
3	OR	RA-D-C28 (103)	LK-D6-16'
2	OR	RA-D-C29 (106)	LK-D7-16'
1	OR	RA-D-C30 (109)	LK-D8-16'
E	BLx2	RA-I2-E (1)	
	BLx2	RA-I1-E (1)	

E B

I 2		I 2	
01	GR	RA-D-E0 (44)	LK-E1-16'
11	GR	RA-D-E1 (47)	LK-E2-16'
21	GRx2	CNR-5	LK-E3-16'
31	GRx2	RA-D-E2 (50)	LK-E4-16'
41	GR	CNR-17	UK-A2-22 2/3'
51	GR	RA-D-E3 (54)	LK-E4-8'
61	GR	RA-D-E4 (57)	UK-A3-22 2/3'
71	GR	RA-D-E5 (60)	LK-E4-4'
81	GR	RA-D-E6 (63)	UK-A4-22 2/3'
91	GR	RA-D-E7 (66)	LK-A4-22 2/3'
03	BE	RA-D-E8 (69)	UK-A5-22 2/3'
13	BE	RA-D-E9 (72)	LK-F1-16'
23	BEx2	RA-D-E10 (75)	LK-F2-16'
33	BE	CNR-6	LK-F3-16'
43	BE	RA-D-E11 (78)	LK-F4-16'
53	BE	RA-D-E12 (81)	UK-A2-22 2/3'
63	BE	RA-D-E13 (84)	LK-F4-8'
73	BE	RA-D-E14 (87)	UK-A3-22 2/3'
83	BE	RA-D-E15 (90)	LK-A4-22 2/3'
93	BE	RA-D-E16 (93)	UK-A4-22 2/3'
05	VI	RA-D-E17 (96)	LK-A4-22 2/3'
15	VI	RA-D-E18 (99)	UK-A5-22 2/3'
25	VIx2	RA-D-E19 (102)	LK-F1-16'
35	VI	CNR-7	LK-F2-16'
45	VI	RA-D-E20 (105)	LK-F3-16'
55	VI	RA-D-E21 (108)	LK-F4-16'
65	VI	RA-D-E22 (111)	UK-B2-22 2/3'
75	VI	RA-D-E23 (114)	LK-F4-8'
85	VI	RA-D-E24 (117)	UK-B3-22 2/3'
95	VI	RA-D-E25 (120)	LK-F4-4'
07	VI	RA-D-E26 (123)	UK-B4-22 2/3'
17	VI	RA-D-E27 (126)	LK-B4-22 2/3'
27	VI	RA-D-E28 (129)	UK-B5-22 2/3'
37	VIx2	RA-D-E29 (132)	LK-G1-16'
47	VI	CNR-8	LK-G2-16'
57	VI	RA-D-E30 (135)	LK-G3-16'
67	VI	RA-D-E31 (138)	UK-C2-22 2/3'
77	VI	RA-D-E32 (141)	LK-G4-16'
87	VI	RA-D-E33 (144)	UK-C3-22 2/3'
97	VI	RA-D-E34 (147)	LK-G4-8'
09	VI	RA-D-E35 (150)	UK-C4-22 2/3'
19	VI	RA-D-E36 (153)	LK-G4-4'
29	VI	RA-D-E37 (156)	UK-C5-22 2/3'
39	VI	RA-D-E38 (159)	LK-C5-22 2/3'
49	VI	RA-D-E39 (162)	UK-C6-22 2/3'
59	VI	RA-D-E40 (165)	LK-C6-22 2/3'
69	VI	RA-D-E41 (168)	
79	VI	RA-D-E42 (171)	
89	VI	RA-D-E43 (174)	
99	VI	RA-D-E44 (177)	
E	BLx2	RA-I3-E (1)	
	BLx2	RA-I1-E (1)	

I 2

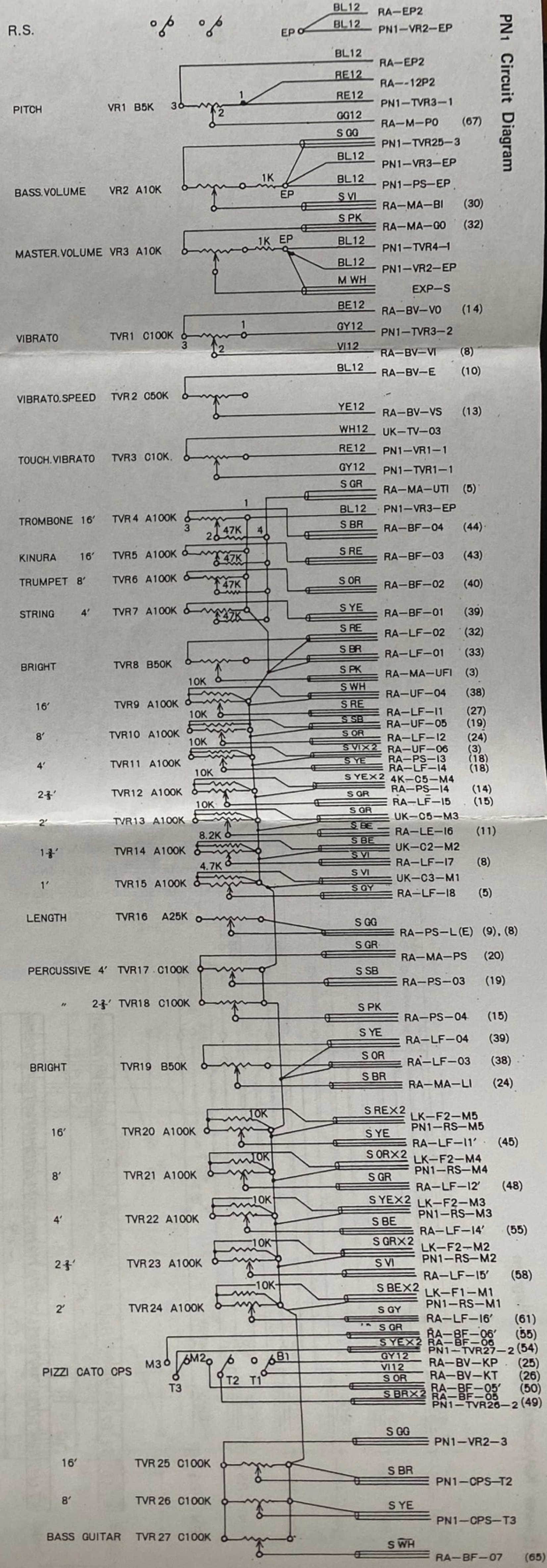
-12 B

I 3		I 3	
01	WH	RA-D-G0 (28)	LK-G#1-16'
11	WH	RA-D-G1 (25)	LK-G#2-16'
21	WHx2	CNR-9	LK-G#3-16'
31	WH	RA-D-G2 (22)	UK-C#2-22 2/3'
41	WH	RA-D-G3 (18)	LK-G#4-16'
51	WH	RA-D-G4 (15)	UK-C#3-22 2/3'
61	WH	RA-D-G5 (12)	LK-G#4-8'
71	WH	RA-D-G6 (9)	UK-C#4-22 2/3'
81	WH	RA-D-G7 (6)	LK-G#5-2'
91	WH	RA-D-G8 (3)	UK-C#5-22 2/3'
03	GG	RA-D-A0 (27)	LK-A1-16'
13	GG	RA-D-A1 (24)	LK-A2-16'
23	GGx2	CNR-10	LK-A3-16'
33	GG	RA-D-A2 (21)	UK-D2-22 2/3'
43	GG	RA-D-A3 (17)	LK-A4-16'
53	GG	RA-D-A4 (14)	UK-D3-22 2/3'
63	GG	RA-D-A5 (11)	LK-A4-8'
73	GG	RA-D-A6 (8)	UK-D4-22 2/3'
83	GG	RA-D-A7 (5)	LK-A4-4'
93	GG	RA-D-A8 (2)	UK-D5-22 2/3'
05	SB	RA-D-A9 (27)	LK-A4-2'
15	SB	RA-D-A10 (24)	UK-A5-2'
25	SBx2	CNR-11	LK-A#1-16'
35	SB	RA-D-A11 (21)	LK-A#2-16'
45	SB	RA-D-A12 (17)	LK-A#3-16'
55	SB	RA-D-A13 (14)	UK-D#2-22 2/3'
65	SB	RA-D-A14 (11)	LK-A#4-16'
75	SB	RA-D-A15 (8)	UK-D#3-22 2/3'
85	SB	RA-D-A16 (5)	LK-A#4-8'
95	SB	RA-D-A17 (2)	UK-D#4-22 2/3'
07	PK	RA-D-B0 (26)	LK-A#5-2'
17	PK	RA-D-B1 (23)	LK-B1-16'
27	PKx2	CNR-12	LK-B2-16'
37	PK	RA-D-B2 (20)	LK-B3-16'
47	PK	RA-D-B3 (16)	UK-E2-22 2/3'
57	PK	RA-D-B4 (13)	LK-B4-16'
67	PK	RA-D-B5 (10)	UK-E3-22 2/3'
77	PK	RA-D-B6 (7)	LK-B4-8'
87	PK	RA-D-B7 (4)	UK-E4-22 2/3'
97	PK	RA-D-B8 (1)	LK-B4-4'
E	BLx2	RA-U-E (3)	UK-E5-22 2/3'
	BLx2	RA-I2-E (1)	LK-B4-2'
	BLx2	RA-I1-E (1)	UK-B5-2'

I 3

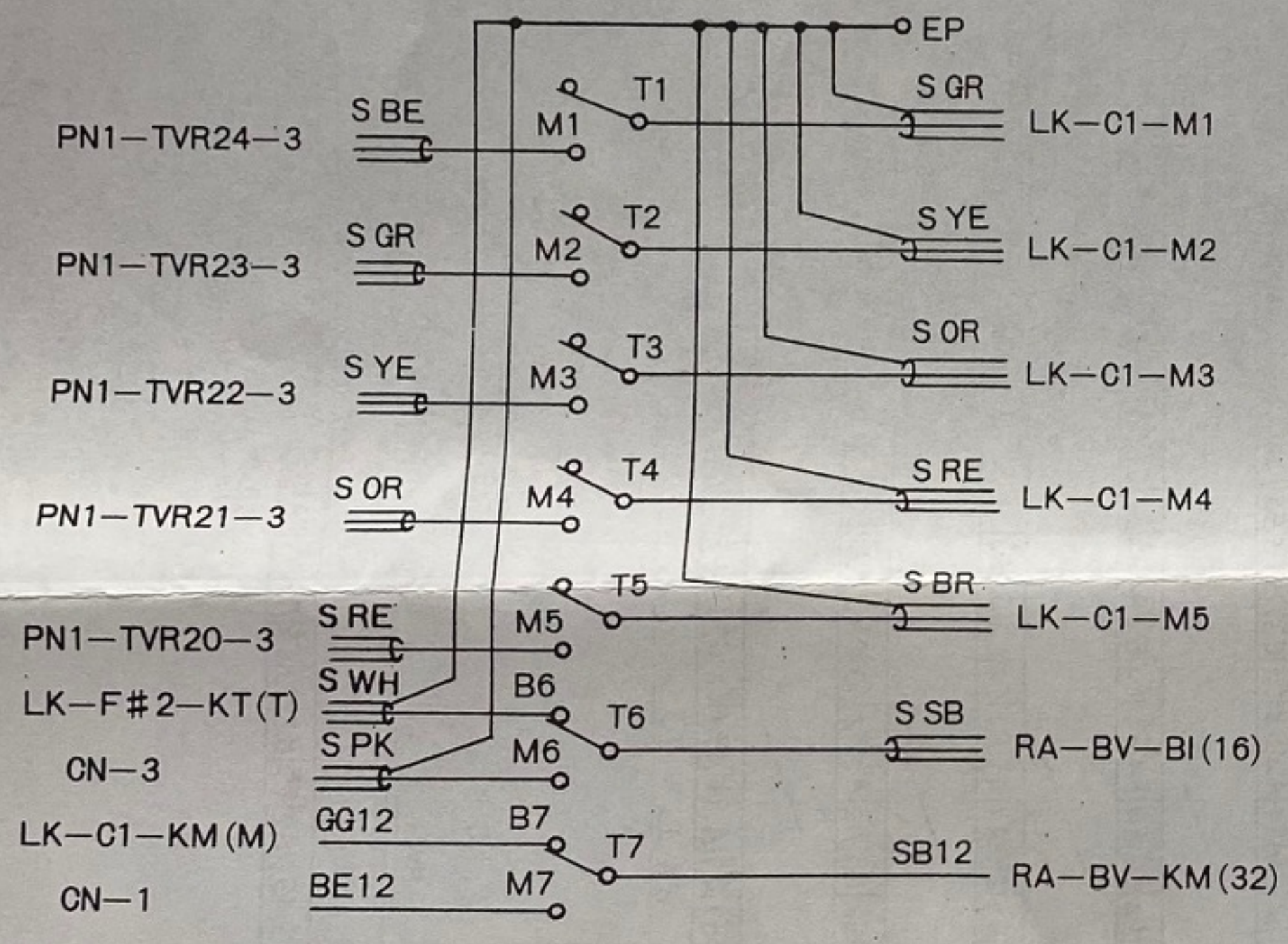
E B

Note)

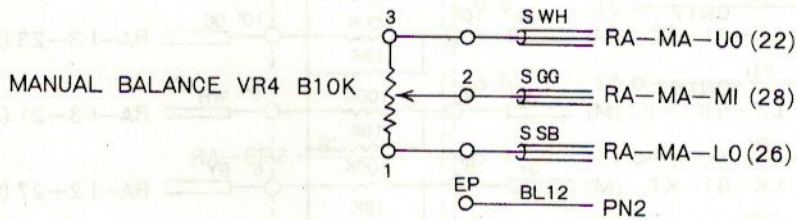
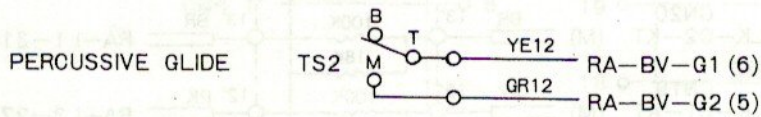
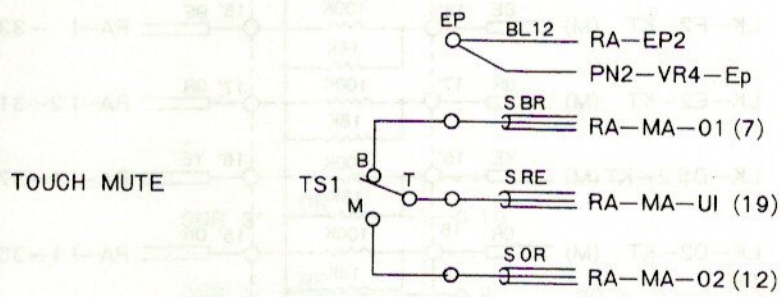


Note)

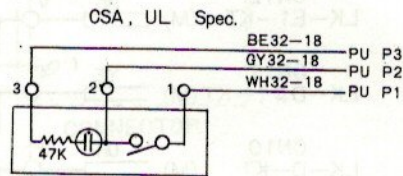
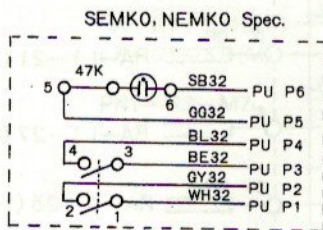
R.S. Circuit Diagram



18. PN2 Circuit Diagram

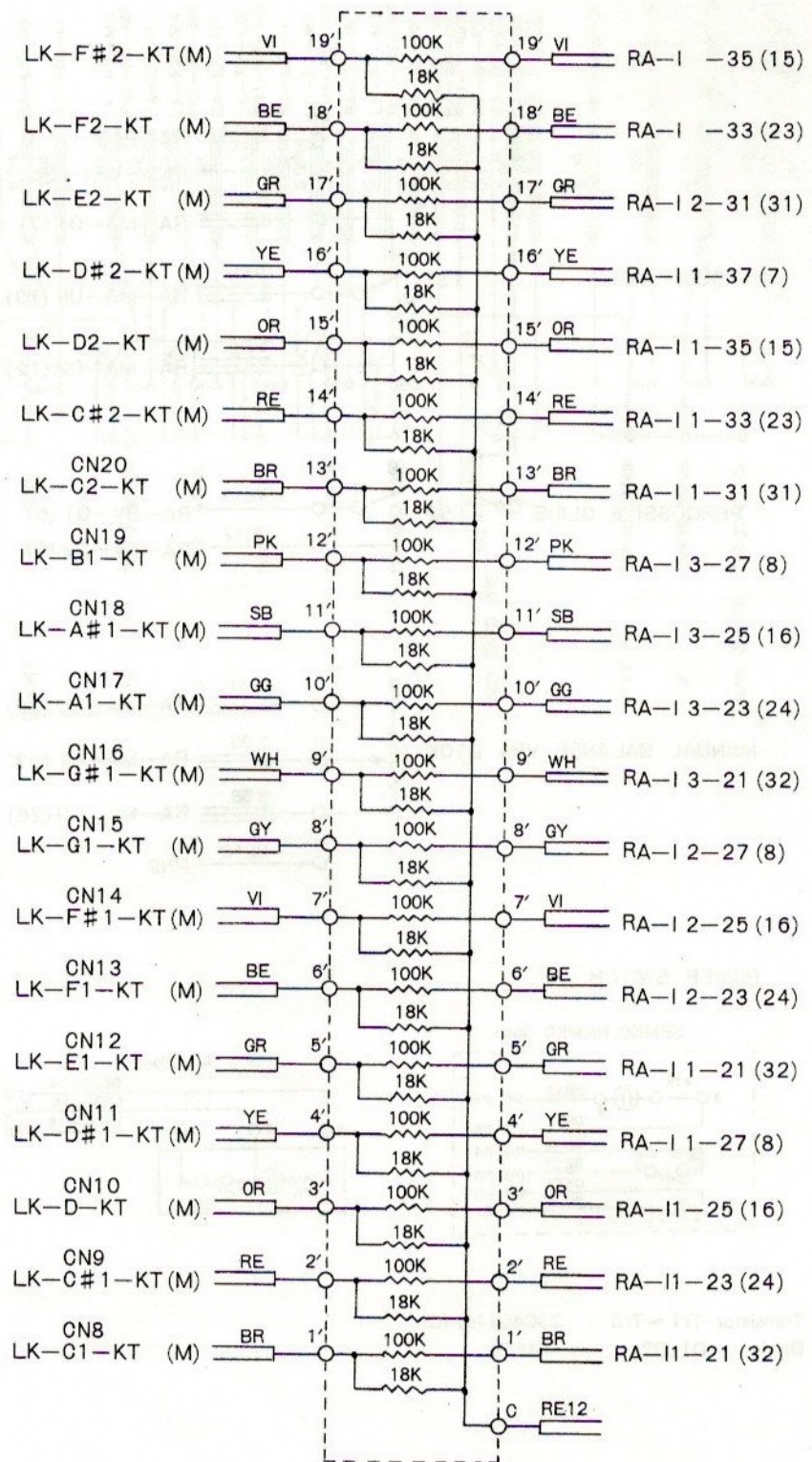


POWER SWITCH

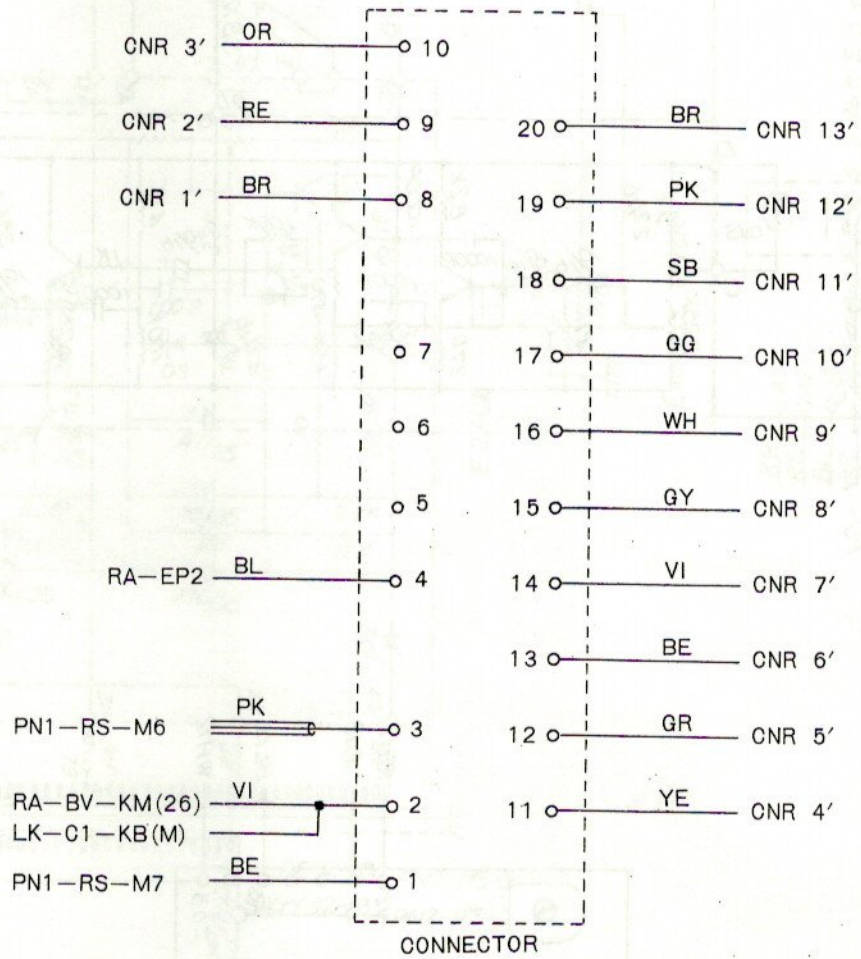


- Notes:
1. Transistor Tr1 ~ Tr3 : 2SC458 (B) (C)
 2. Diode D1, D2 : 1S1555

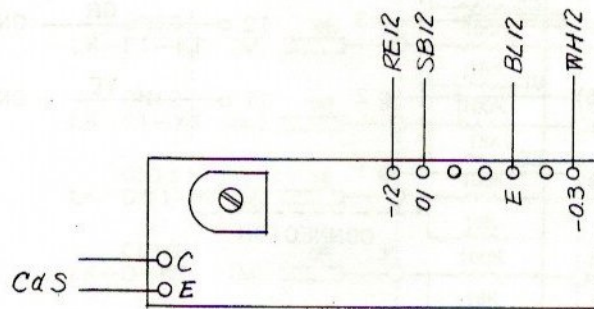
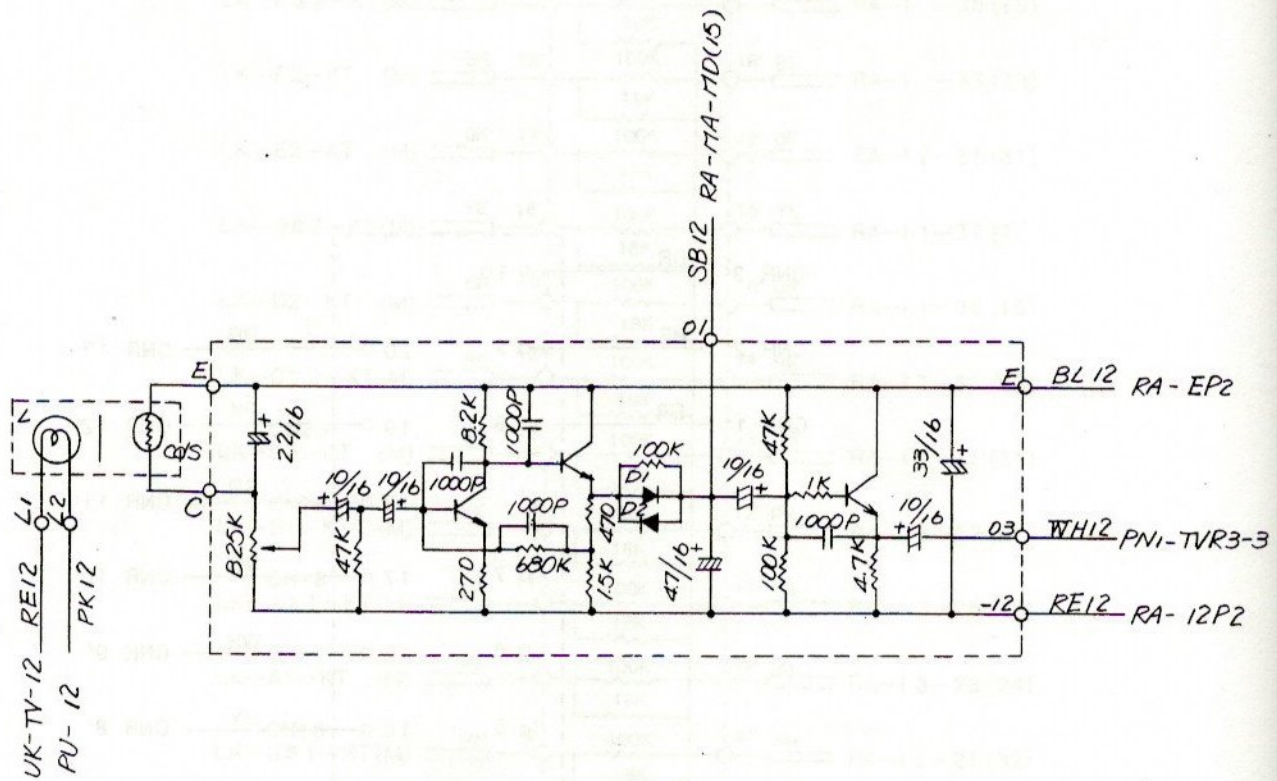
19. CNR Circuit Diagram



20. CN Circuit Diagram

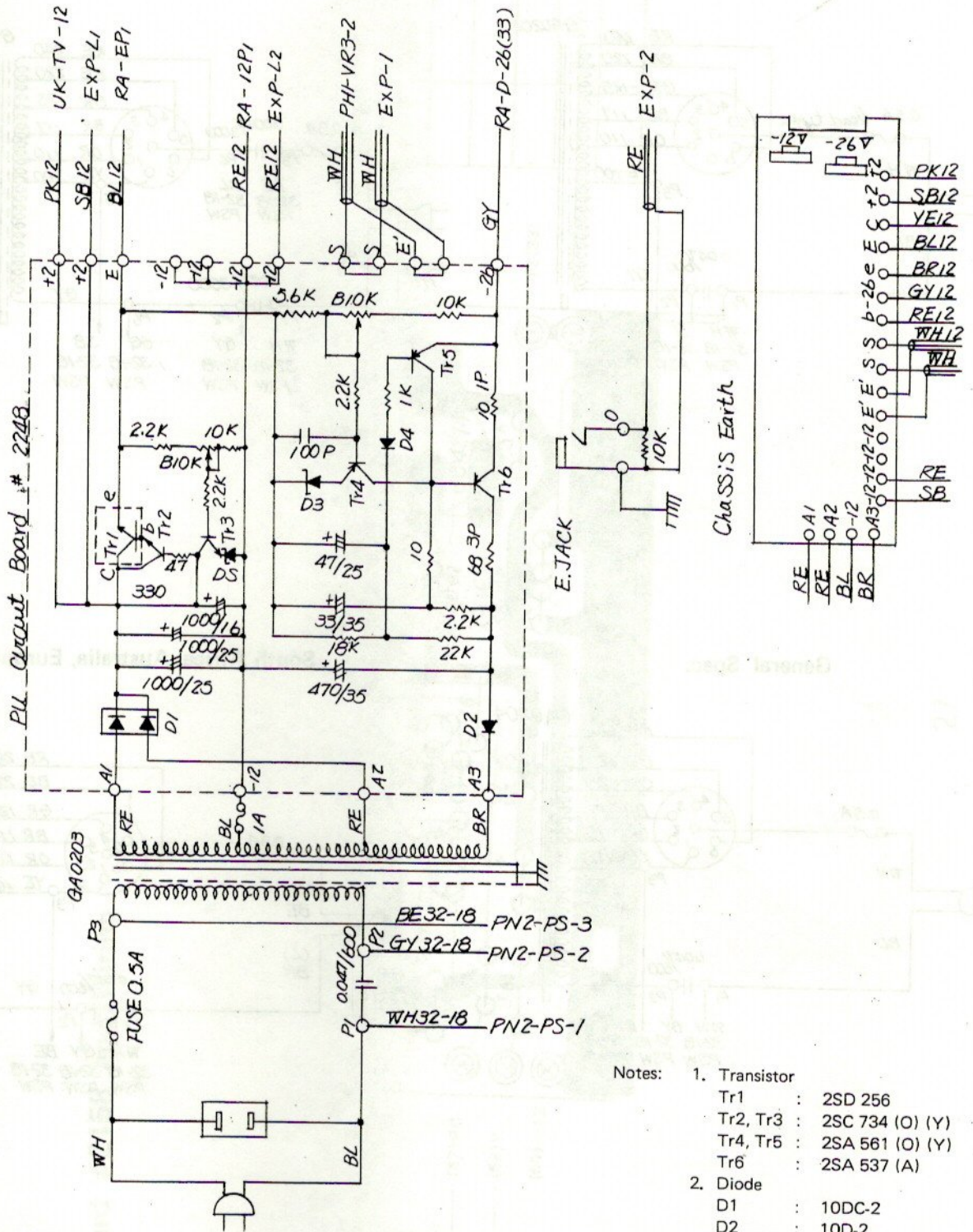


21. TV Circuit Diagram

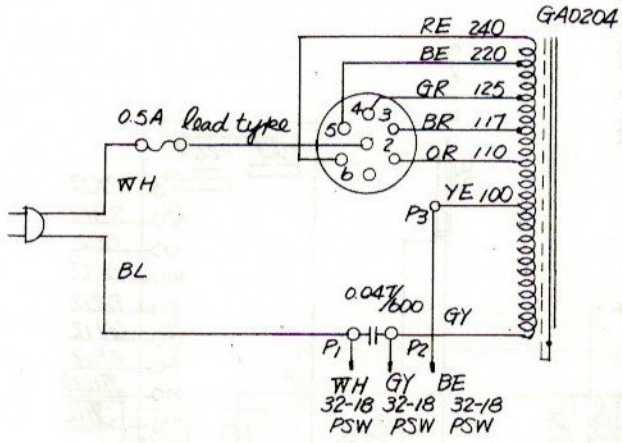


- Notes: 1. Transistor Tr1~Tr3: 2SC458 (B) (C)
 2. Diode D1, D2 : 1S1555

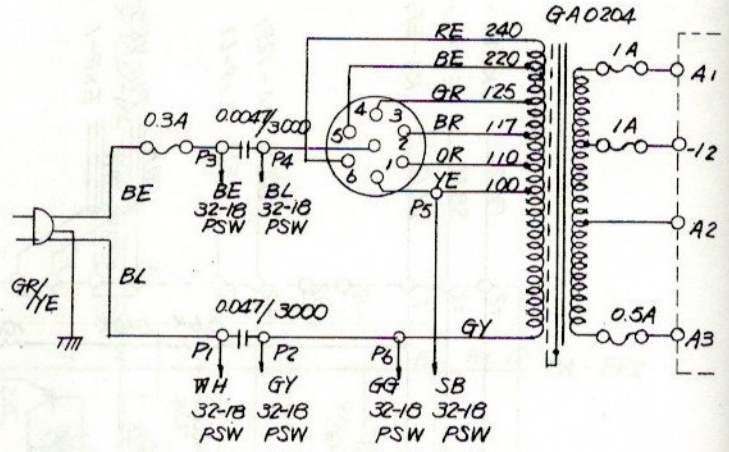
22. PU Circuit Diagram



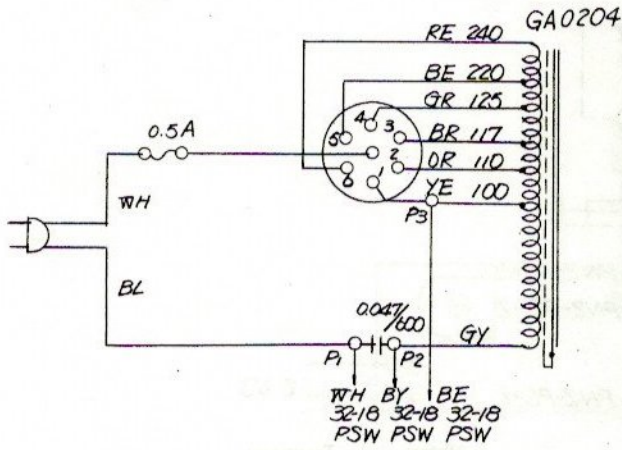
UL, CSA Spec.



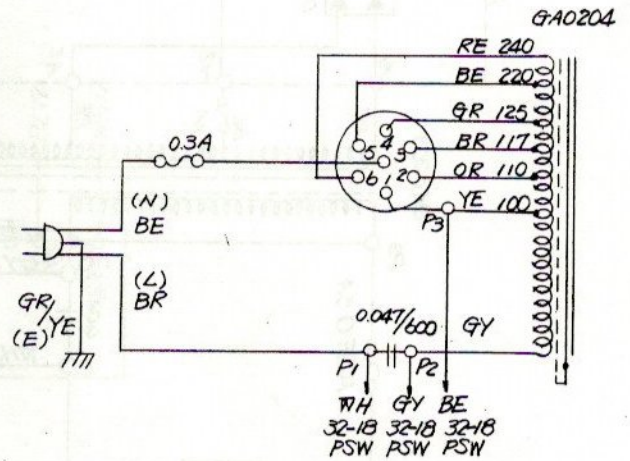
MEMKO, SEMKO Spec.



General Spec.



South Africa, Australia, Europe Spec.

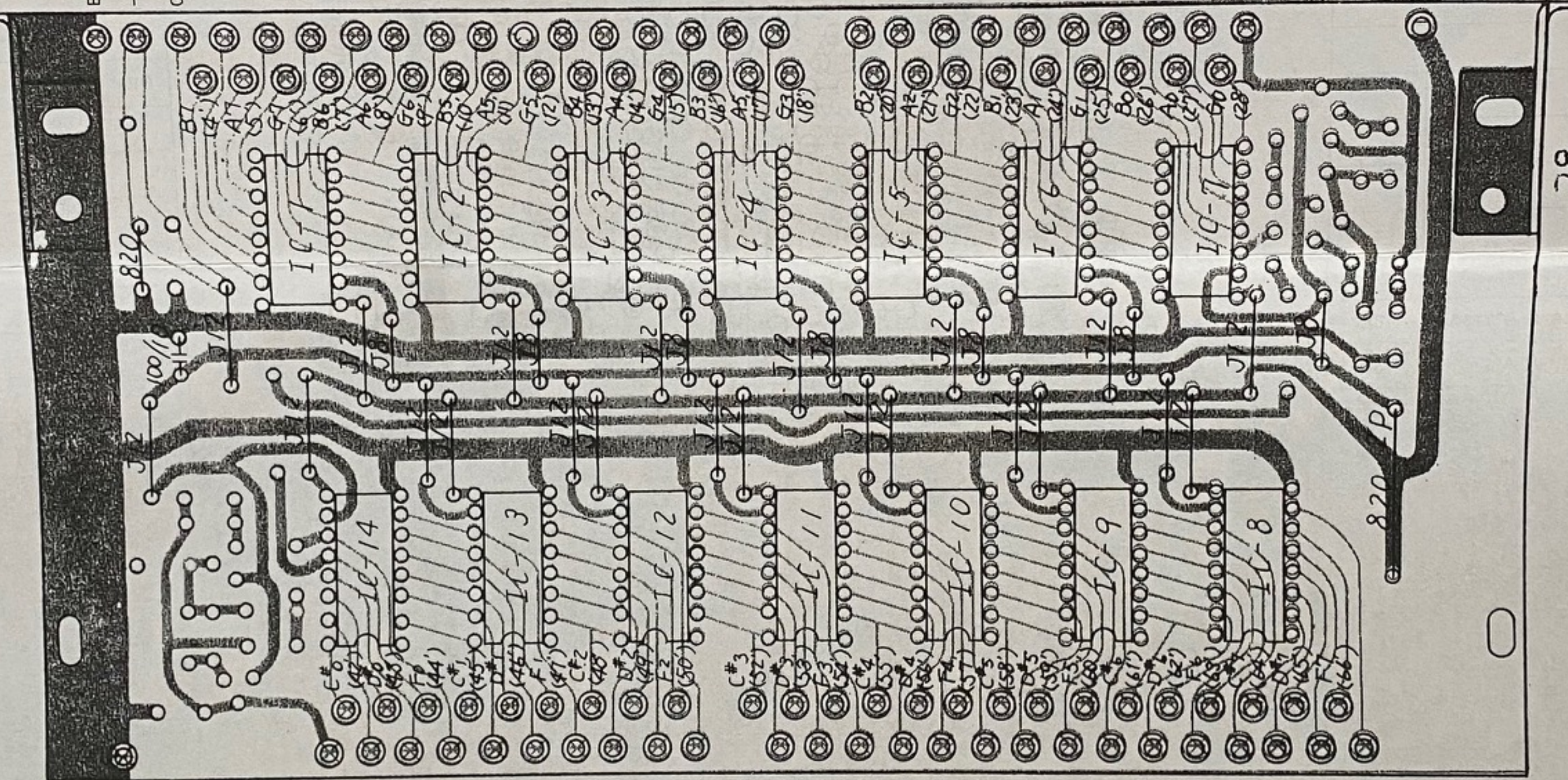


24. D Circuit Board #2159 and Wiring

RA-11-03(26)	REX2	C*0
RA-11-07(10)	YEX2	D*0
RA-12-03(26)	BEX2	F0
UK-C*2-16'	REX2	C*1
RA-11-13(25)	YEX2	D*1
UK-D*2-16'	YEX2	D*1
RA-11-17(9)	BEX2	F1
RA-12-13(25)	REX2	C*2
UK-C*3-16'	YEX2	D*2
RA-11-23(24)	BEX2	F2
UK-D*3-16'	REX2	C*3
RA-11-27(8)	YEX2	D*3
UK-F*3-16'	BEX2	F3
RA-12-23(24)	REX2	C*4
UK-C*4-16'	YEX2	D*4
RA-11-33(23)	BEX2	F4
UK-D*4-16'	REX2	C*5
RA-11-33(23)	YEX2	D*5
UK-F*4-16'	BEX2	F5
RA-12-33(23)	REX2	C*6
UK-C*5-16'	YEX2	D*6
RA-11-43(22)	BEX2	F6
UK-D*5-16'	REX2	C*7
RA-11-47(6)	YEX2	D*7
UK-F*5-16'	BEX2	F7
RA-12-43(22)	REX2	C*8
UK-C*6-8'	YEX2	D*8
RA-11-53(21)	BEX2	F8
UK-D*6-8'	REX2	C*9
RA-11-57(5)	YEX2	D*9
UK-F*6-8'	BEX2	F9
RA-12-63(21)	REX2	C*10
UK-C*7-4'	YEX2	D*10
RA-11-63(20)	BEX2	F10
UK-D*7-4'	REX2	C*11
RA-11-67(4)	YEX2	D*11
UK-F*7-4'	BEX2	F11
RA-12-63(20)	REX2	C*12
BA-M-C*(40)	YEX2	D*12
RA-11-73(19)	BEX2	F12
RA-M-D*(51)	REX2	C*13
RA-11-77(3)	YEX2	D*13
RA-M-E*(61)	BEX2	F13
RA-12-73(19)	REX2	C*14
RA-12-73(19)	YEX2	D*14
RA-12-73(19)	BEX2	F14

RA-11-05(18)	OR	
RA-12-01(35)	GR	
RA-12-05(18)	VI	
UK-D2-16'	ORX2	(43)D 0
RA-11-15(17)	GRX2	(44)E 0
UK-E2-16'	GRX2	(45)F #0
RA-12-11(33)	VIx2	(46)D 1
UK-F*2-16'	ORX2	(47)E 1
RA-12-15(17)	ORX2	(48)F #1
UK-D3-16'	GRX2	(49)D 2
RA-11-25(16)	GRX2	(50)E 2
UK-E3-16'	VIx2	(51)F #2
RA-12-21(32)	ORX2	(53)D 3
UK-F*3-16'	GRX2	(54)E 3
RA-12-25(16)	VIx2	(55)F #3
UK-D4-16'	ORX2	(56)D 4
RA-11-35(15)	GRX2	(57)E 4
UK-E4-16'	VIx2	(58)F #4
RA-12-31(31)	ORX2	(59)D 5
UK-F*4-16'	GRX2	(60)E 5
RA-12-35(15)	VIx2	(61)F #5
UK-D5-16'	ORX2	(62)D 6
RA-11-45(14)	GRX2	(63)E 6
UK-E5-16'	VIx2	(64)F #6
RA-12-41(30)	ORX2	(65)D 7
UK-F*5-16'	GRX2	(66)E 7
RA-12-45(14)	VIx2	(67)F #7
UK-D5-8'	ORX2	
RA-11-55(13)	GRX2	
UK-E5-8'	VIx2	
RA-12-5'(29)	ORX2	
UK-F*5-8'	GRX2	
RA-12-55(13)	VIx2	
UK-D5-4'	ORX2	
RA-11-65(12)	GRX2	
UK-E5-4'	VIx2	
RA-12-6'(28)	ORX2	
UK-F*5-4'	GRX2	
RA-12-65(12)	VIx2	
RA-M-D7(10)	ORX2	
RA-11-75(11)	GRX2	
RA-M-E(20)	VIx2	
RA-12-71(27)	ORX2	
RA-M-F*(30)	GRX2	
RA-12-57(11)	VIx2	

RA-M-E(2)	BLx2	
RA-13-E(1)	BRx2	
RA-M-C(62)	SBx2	
RA-11-71(27)	WHx2	
RA-M-A*(52)	BRx2	
RA-13-75(11)	SBx2	
RA-M-G*(42)	WHx2	
RA-13-71(27)	BRx2	
UK-C6-8'	SBx2	
RA-11-61(28)	WHx2	
UK-A*5-4'	BRx2	
RA-13'-65(12)	SBx2	
UK-G*5-4'	WHx2	
RA-13-61(28)	BRx2	
UK-C6-16'	SBx2	
RA-11-51(29)	WHx2	
UK-B5-81	BRx2	
RA-13-57(5)	SBx2	
UK-A5-8'	WHx2	
RA-13-53(21)	BRx2	
UK-G5-8'	SBx2	
RA-12-57(5)	WHx2	
UK-B5-16'	BRx2	
RA-13-47(6)	SBx2	
UK-A5-16'	WHx2	
RA-13-43(22)	BRx2	
UK-G5-16'	SBx2	
RA-12-47(6)	WHx2	
UK-B4-16'	BRx2	
RA-13-37(7)	SBx2	
UK-A4-16'	WHx2	
RA-13-33(23)	BRx2	
UK-G*4-16'	SBx2	
RA-12-37(7)	WHx2	



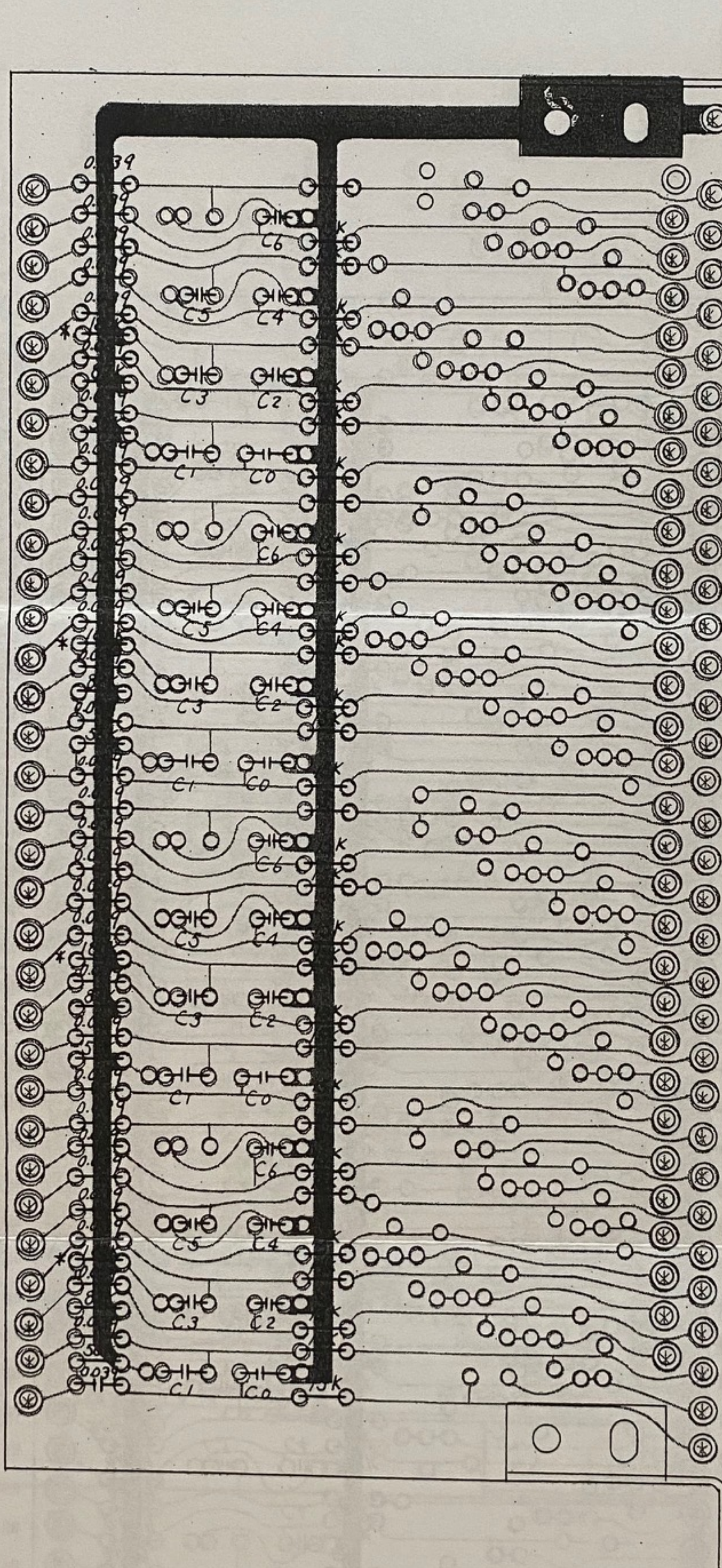
RA-11-01(35)	OR	
RA-12-05(18)	GR	
RA-12-05(18)	VI	
UK-D2-16'	ORX2	(43)D 0
RA-11-15(17)	GRX2	(44)E 0
UK-E2-16'	GRX2	(45)F #0
RA-12-11(33)	VIx2	(46)D 1
UK-F*2-16'	ORX2	(47)E 1
RA-12-15(17)	ORX2	(48)F #1
UK-D3-16'	GRX2	(49)D 2
RA-11-25(16)	GRX2	(50)E 2
UK-E3-16'	VIx2	(51)F #2
RA-12-21(32)	ORX2	(53)D 3
UK-F*3-16'	GRX2	(54)E 3
RA-12-25(16)	VIx2	(55)F #3
UK-D4-16'	ORX2	(56)D 4
RA-11-35(15)	GRX2	(57)E 4
UK-E4-16'	VIx2	(58)F #4
RA-12-31(31)	ORX2	(59)D 5
UK-F*4-16'	GRX2	(60)E 5
RA-12-35(15)	VIx2	(61)F #5
UK-D5-16'	ORX2	(62)D 6
RA-11-45(14)	GRX2	(63)E 6
UK-E5-16'	VIx2	(64)F #6
RA-12-41(30)	ORX2	(65)D 7
UK-F*5-16'	GRX2	(66)E 7
RA-12-45(14)	VIx2	(67)F #7
UK-D5-8'	ORX2	
RA-11-55(13)	GRX2	
UK-E5-8'	VIx2	
RA-12-5'(29)	ORX2	
UK-F*5-8'	GRX2	
RA-12-55(13)	VIx2	
UK-D5-4'	ORX2	
RA-11-65(12)	GRX2	
UK-E5-4'	VIx2	
RA-12-6'(28)	ORX2	
UK-F*5-4'	GRX2	
RA-12-65(12)	VIx2	
RA-M-D7(10)	ORX2	
RA-11-75(11)	GRX2	
RA-M-E(20)	VIx2	
RA-12-71(27)	ORX2	
RA-M-F*(30)	GRX2	
RA-12-57(11)	VIx2	

RA-11-03(26)	REX2	C*0
RA-11-07(10)	YEX2	D*0
RA-12-03(26)	BEX2	F0
UK-C*2-16'	REX2	C*1
RA-11-13(25)	YEX2	D*1
UK-D*2-16'	YEX2	D*1
RA-11-17(9)	BEX2	F1
RA-12-13(25)	REX2	C*2
UK-C*3-16'	YEX2	D*2
RA-11-23(24)	BEX2	F2
UK-D*3-16'	REX2	C*3
RA-11-27(8)	YEX2	D*3
UK-F*3-16'	BEX2	F3
RA-12-23(24)	REX2	C*4
UK-C*4-16'	YEX2	D*4
RA-11-33(23)	BEX2	F4
UK-D*4-16'	REX2	C*5
RA-11-33(23)	YEX2	D*5
UK-F*4-16'	BEX2	F5
RA-12-33(23)	REX2	C*6
UK-C*5-16'	YEX2	D*6
RA-11-43(22)	BEX2	F6
UK-D*5-16'	REX2	C*7
RA-11-47(6)	YEX2	D*7
UK-F*5-16'	BEX2	F7
RA-12-43(22)	REX2	C*8
UK-C*6-8'	YEX2	D*8
RA-11-53(21)	BEX2	F8
UK-D*6-8'	REX2	C*9
RA-11-57(5)	YEX2	D*9
UK-F*6-8'	BEX2	F9
RA-12-63(21)	REX2	C*10
UK-C*7-4'	YEX2	D*10
RA-11-63(20)	BEX2	F10
UK-D*7-4'	REX2	C*11
RA-11-67(4)	YEX2	D*11
UK-F*7-4'	BEX2	F11
RA-12-63(20)	REX2	C*12
BA-M-C*(40)	YEX2	D*12
RA-11-73(19)	BEX2	F12
RA-M-D*(51)	REX2	C*13
RA-11-77(3)	YEX2	D*13
RA-M-E*(61)	BEX2	F13
RA-12-73(19)	REX2	C*14
RA-12-73(19)	YEX2	D*14
RA-12-73(19)	BEX2	F14

RA-M-E(2)	BLx2	
RA-13-E(1)	BRx2	
RA-M-C(62)	SBx2	
RA-11-71(27)	WHx2	
RA-M-A*(52)	BRx2	
RA-13-75(11)	SBx2	
RA-M-G*(42)	WHx2	
RA-13-71(27)	BRx2	
UK-C6-8'	SBx2	
RA-11-61(28)	WHx2	
UK-A*5-4'	BRx2	
RA-13'-65(12)	SBx2	
UK-G*5-4'	WHx2	
RA-13-61(28)	BRx2	
UK-C6-16'	SBx2	
RA-11-51(29)	WHx2	
UK-B5-81	BRx2	
RA-13-57(5)	SBx2	
UK-A5-8'	WHx2	
RA-13-53(21)	BRx2	
UK-G5-8'	SBx2	
RA-12-57(5)	WHx2	
UK-B5-16'	BRx2	
RA-13-47(6)	SBx2	
UK-A5-16'	WHx2	
RA-13-43(22)	BRx2	
UK-G5-16'	SBx2	
RA-12-47(6)	WHx2	
UK-B4-16'	BRx2	
RA-13-37(7)	SBx2	
UK-A4-16'	WHx2	
RA-13-33(23)	BRx2	
UK-G*4-16'	SBx2	
RA-12-37(7)	WHx2	

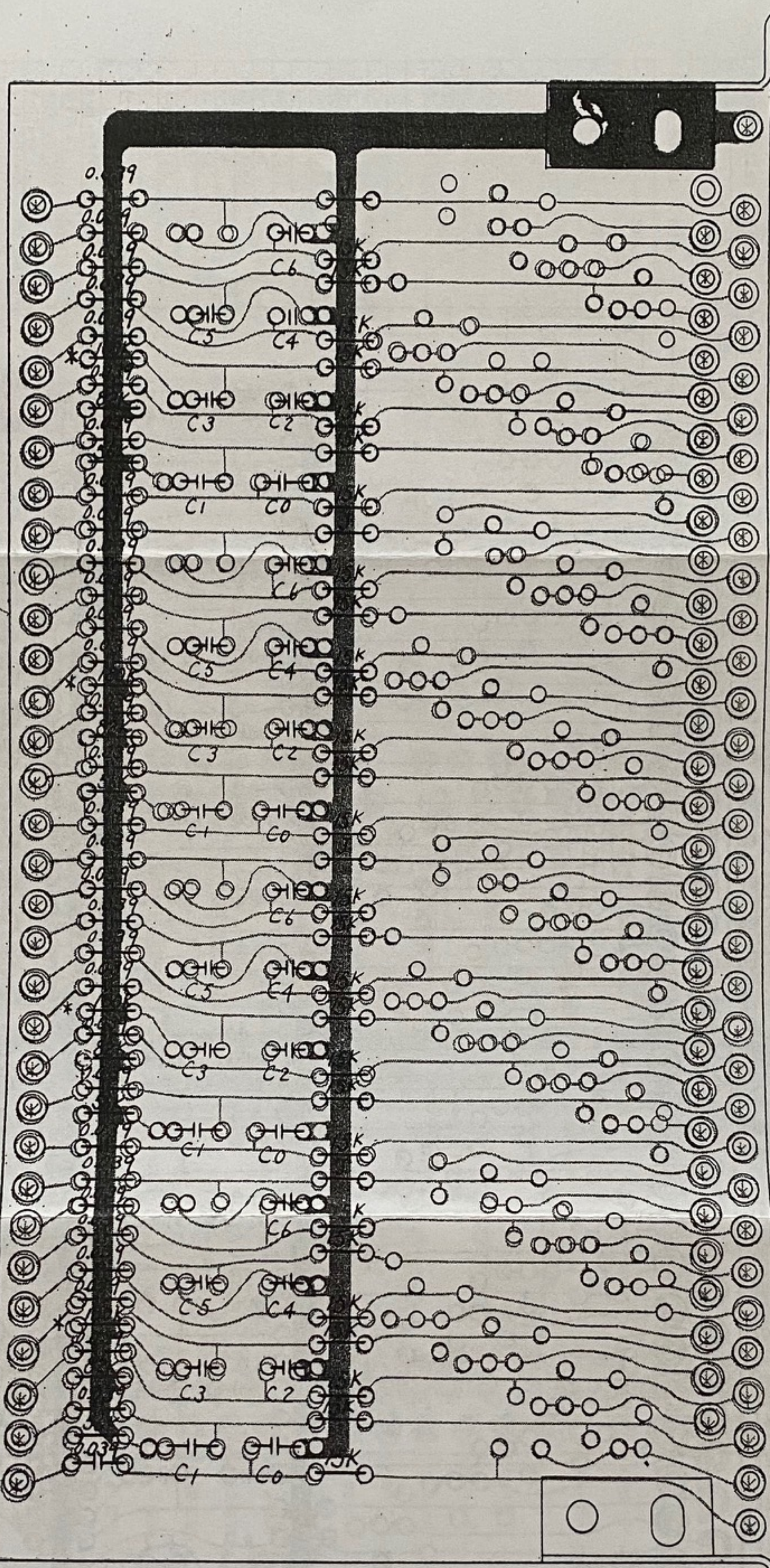
25. I1 Circuit Board #2193 and Wiring

UK-G [#] 5-2 3/4'	YE	(38) 78	
UK-G [#] 4-2 3/4'	YE x 2	(39) 68	
LK-D [#] 4-2 3/4'			
UK-G [#] 3-2 3/4'	YE x 2	(40) 58	
LK-D [#] 4-4'			
UK-G [#] 2-2 3/4'	YE x 2	(41) 48	
LK-D [#] 4-8'			
LK-D [#] 4-16'	YE	(42) 38	
LK-D [#] 3-16'	YE	(43) 28	
LK-D [#] 2-16'	YE	(44) 18	
LK-D [#] 1-16'	YE	(45) 08	
UK-G [#] 5-2 3/4'	OR	(46) 76	
UK-G [#] 4-2 3/4'	OR x 2	(47) 66	
LK-G [#] 4-2 3/4'			
UK-G [#] 3-2 3/4'	OR x 2	(48) 56	
LK-D [#] 4-4'			
UK-G [#] 2-2 3/4'	OR x 2	(49) 46	
LK-D [#] 4-8'			
LK-D [#] 4-16'	OR	(50) 36	
LK-D [#] 3-16'	OR	(51) 26	
LK-D [#] 2-16'	OR	(52) 16	
LK-D [#] 1-16'	OR	(53) 06	
UK-F [#] 5-2 3/4'	RE	(54) 74	
UK-F [#] 4-2 3/4'	RE x 2	(55) 64	
LK-F [#] 4-2 3/4'			
UK-F [#] 3-2 3/4'	RE x 2	(56) 54	
LK-C [#] 4-4'			
UK-F [#] 2-2 3/4'	RE x 2	(57) 44	
LK-C [#] 4-8'			
LK-C [#] 4-16'	RE	(58) 34	
LK-C [#] 3-16'	RE	(59) 24	
LK-C [#] 2-16'	RE	(60) 14	
LK-C [#] 1-16'	RE	(61) 04	
UK-C [#] 6-2'	BR x 2	(62) 72	
LK-C [#] 5-2'			
UK-F [#] 4-2 3/4'	BR x 2	(63) 62	
LK-C [#] 5-4'			
UK-F [#] 3-2 3/4'	BR x 2	(64) 52	
LK-C [#] 5-8'			
UK-F [#] 2-2 3/4'	BR x 2	(65) 42	
LK-C [#] 5-16'			
LK-C [#] 4-16'	BR	(66) 32	
LK-C [#] 3-16'	BR	(67) 22	
LK-C [#] 2-16'	BR	(68) 12	
LK-C [#] 1-16'	BR	(69) 02	



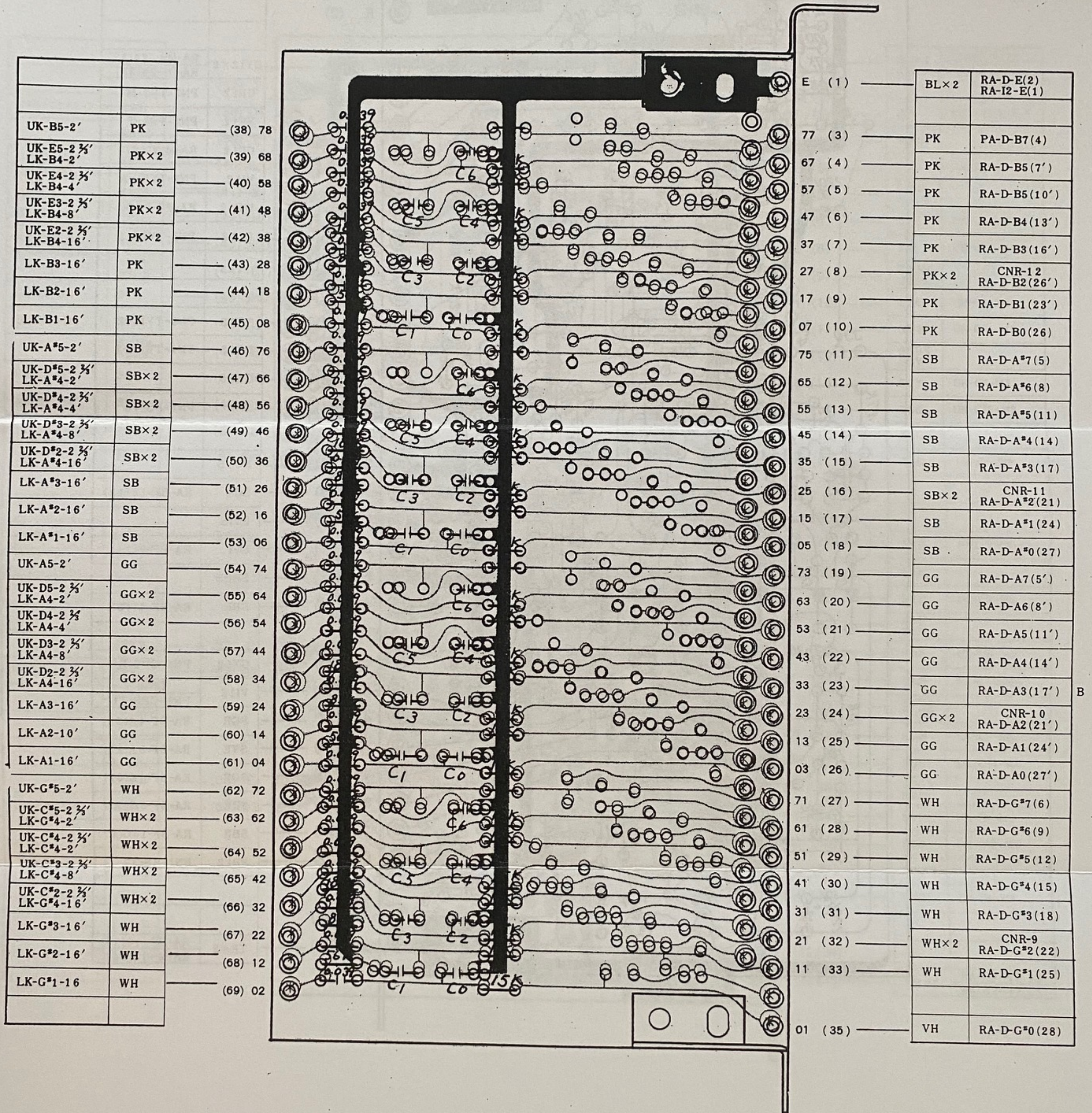
E, (1)	BL x 2	RA-I2-E(1) RA-BV-E(1)
77 (3)	YE	RA-D-D [#] 7(65')
67 (4)	YE	RA-D-D [#] 6(62')
57 (5)	YE	RA-D-D [#] 5(59')
47 (6)	YE	RA-D-D [#] 4(56')
37 (7)	YE x 2	CNR-16 RA-D-D [#] 3(53')
27 (8)	YE x 2	CNR-4 RA-D-D [#] 2(49')
17 (9)	YE	RA-D-D [#] 1(46')
07 (10)	YE	RA-D-D [#] 0(43')
75 (11)	OR	RA-D-D7(65)
65 (12)	OR	RA-D-D6(62)
55 (13)	OR	RA-D-D5(59)
45 (14)	OR	RA-D-D4(56)
35 (15)	OR x 2	CNR-15 RA-D-D3(53)
25 (16)	OR x 2	CNR-3 RA-D-D2(49)
15 (17)	OR	RA-D-D1(46)
05 (18)	OR	RA-D-D0(43)
73 (19)	RE	RA-D-C [#] 7(64')
63 (20)	RE	RA-D-C [#] 6(61')
53 (21)	RE	RA-D-C [#] 5(58')
43 (22)	RE	RA-D-C [#] 4(55')
33 (23)	RE	CNR-14 RA-D-C [#] 3(52')
23 (24)	RE x 2	CNR-2 RA-D-C [#] 2(48')
13 (25)	RE	RA-D-C [#] 1(45')
03 (26)	RE	RA-D-C [#] 0(42')
71 (27)	BR	RA-D-C7(4)
61 (28)	BR	RA-D-C6(7)
51 (29)	BR	RA-D-C5(10)
41 (30)	BR	RA-D-C4(13)
31 (31)	BR x 2	CNR-13 RA-D-C3(16)
21 (32)	BR x 2	CNR-1 RA-D-C2(20)
11 (33)	BR	RA-D-C1(23)
01 (35)	BR	RA-D-C0(26)

UK-C6-2 3/4'	GY	(38)	78
UK-C5-2 3/4'	GY×2	(39)	68
LK-C5-2 3/4'			
UK-C4-2 3/4'	GY×2	(40)	58
LK-G4-4'			
UK-C3-2 3/4'	GY×2	(41)	48
LK-F4-8'			
UK-C2-2 3/4'	GY×2	(42)	38
LK-G4-16'			
LK-G3-16'	GY	(43)	28
LK-G2-16'	GY	(44)	18
LK-G1-16'	GY	(45)	08
UK-B5-2 3/4'	VI	(46)	76
UK-B4-2 3/4'	VI×2	(47)	66
LK-B4-2 3/4'			
UK-B3-2 3/4'	VI×2	(48)	56
LK-F4-4'			
UK-B2-2 3/4'	VI×2	(49)	46
LK-F4-8'			
LK-F4-16'	VI	(50)	36
LK-F3-16'	VI	(51)	26
LK-F2-16'	VI	(52)	16
LK-F1-16'	VI	(53)	06
UK-A5-2 3/4'	BE	(54)	74
UK-A4-2 3/4'	BE×2	(55)	64
LK-A4-2 3/4'			
UK-A3-2 3/4'	BE×2	(56)	54
LK-A4-2 3/4'			
UK-A2-2 3/4'	BE×2	(57)	44
LK-F4-8'			
LK-F4-16'	BE	(58)	34
LK-F3-16'	BE	(59)	24
LK-F2-16'	BE	(60)	14
LK-F1-16'	BE	(61)	04
UK-A5-2 3/4'	GR	(62)	72
UK-A4-2 3/4'	GR×2	(63)	62
LK-A4-2 3/4'			
UK-A3-2 3/4'	GR×2	(64)	52
LK-E4-4'			
UK-A2-2 3/4'	GR×2	(65)	42
LK-E4-8'			
LK-E4-16'	GR	(66)	32
LK-E3-16'	GR	(67)	22
LK-E2-16'	GR	(68)	12
LK-E1-16'	GR	(69)	02



E (1)	BL×2	RA-I3-E(1)
		RA-I1-E(1)
77 (3)	GY	RA-D-G7(6')
67 (4)	GY	RA-D-G6(9')
57 (5)	GY	RA-D-G5(12')
47 (6)	GY	RA-D-G4(15')
37 (7)	GY×2	RA-D-G3(18')
27 (8)	VI	CNR-8 RA-D-G2(22')
17 (9)	VI	RA-D-G1(25')
07 (10)	VI	RA-D-G0(28')
75 (11)	VI	RA-D-F7(67)
65 (12)	VI	RA-D-F6(64)
55 (13)	VI	RA-D-F5(61)
45 (14)	VI	RA-D-F4(58)
35 (15)	VI	CNR-19 RA-D-F3(55)
25 (16)	VI×2	CNR-7 RA-D-F2(51)
15 (17)	VI	RA-D-F1(48)
05 (18)	VI	RA-D-F0(45)
73 (19)	BE	RA-D-F7(66')
63 (20)	BE	RA-D-F6(63')
53 (21)	BE	RA-D-F5(60')
43 (22)	BE	RA-D-F4(57')
33 (23)	BE	CNR-18 RA-D-F3(54')
23 (24)	BE×2	CNR-6 RA-D-F2(50')
13 (25)	BE	RA-D-F1(47')
03 (26)	BE	RA-D-F0(44')
71 (27)	GR	RA-D-E7(66)
61 (28)	GR	RA-D-E6(63)
51 (29)	GR	RA-D-E5(60)
41 (30)	GR	RA-D-E4(57)
31 (31)	GR×2	CNR-17 RA-D-E3(54)
21 (32)	GR×2	CNR-5 RA-D-E2(50)
11 (33)	GR	RA-D-E1(47)
01 (35)	GR	RA-D-E0(44)

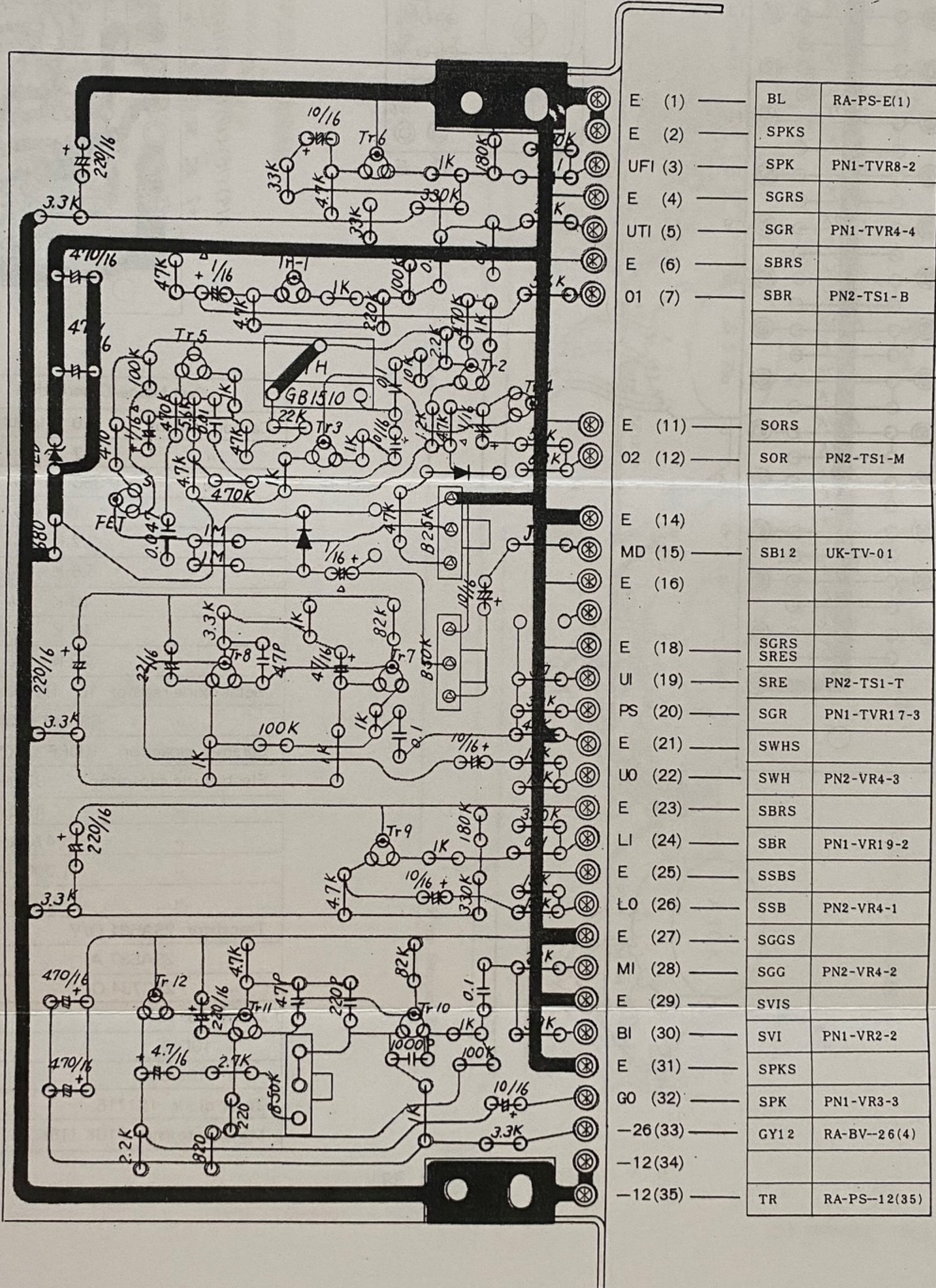
27. I3 Circuit Board #2191 and Wiring



UK-B5-2'	PK	(38) 78
UK-E5-2 3/4'	PKx2	(39) 68
LK-B4-2'		
UK-E4-2 3/4'	PKx2	(40) 58
LK-B4-4'		
UK-E3-2 3/4'	PKx2	(41) 48
LK-B4-8'		
UK-E2-2 3/4'	PKx2	(42) 38
LK-B4-16'		
LK-B3-16'	PK	(43) 28
LK-B2-16'	PK	(44) 18
LK-B1-16'	PK	(45) 08
UK-A*5-2'	SB	(46) 76
UK-D*5-2 3/4'	SBx2	(47) 66
LK-A*4-2'		
UK-D*4-2 3/4'	SBx2	(48) 56
LK-A*4-4'		
UK-D*3-2 3/4'	SBx2	(49) 46
LK-A*4-8'		
UK-D*2-2 3/4'	SBx2	(50) 36
LK-A*4-16'		
LK-A*3-16'	SB	(51) 26
LK-A*2-16'	SB	(52) 16
LK-A*1-16'	SB	(53) 06
UK-A5-2'	GG	(54) 74
UK-D5-2 3/4'	GGx2	(55) 64
LK-A4-2'		
UK-D4-2 3/4'	GGx2	(56) 54
LK-A4-4'		
UK-D3-2 3/4'	GGx2	(57) 44
LK-A4-8'		
UK-D2-2 3/4'	GGx2	(58) 34
LK-A4-16'		
LK-A3-16'	GG	(59) 24
LK-A2-10'	GG	(60) 14
LK-A1-16'	GG	(61) 04
UK-G*5-2'	WH	(62) 72
UK-C*5-2 3/4'	WHx2	(63) 62
LK-G*4-2'		
UK-C*4-2 3/4'	WHx2	(64) 52
LK-C*4-2'		
UK-C*3-2 3/4'	WHx2	(65) 42
LK-C*4-8'		
UK-C*2-2 3/4'	WHx2	(66) 32
LK-G*4-16'		
LK-G*3-16'	WH	(67) 22
LK-G*2-16'	WH	(68) 12
LK-G*1-16'	WH	(69) 02

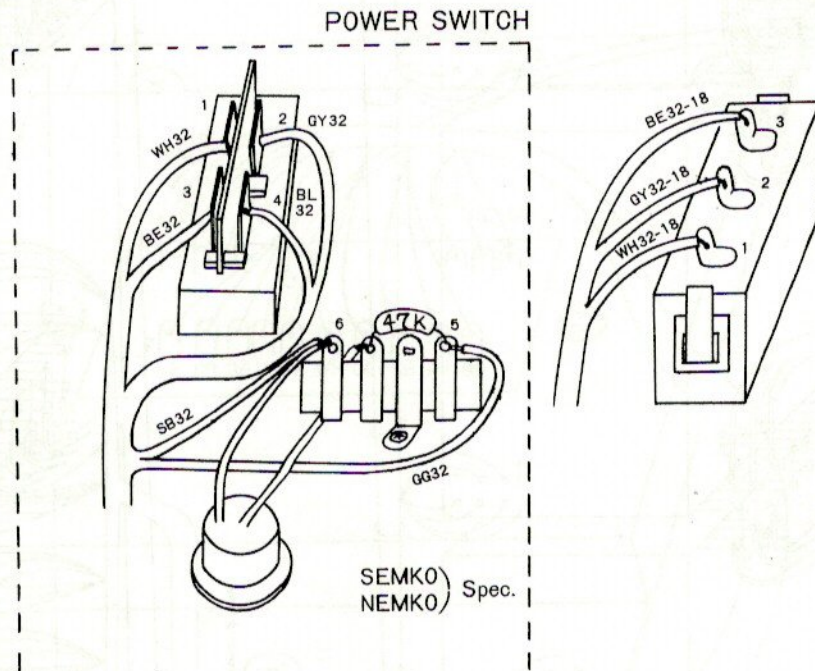
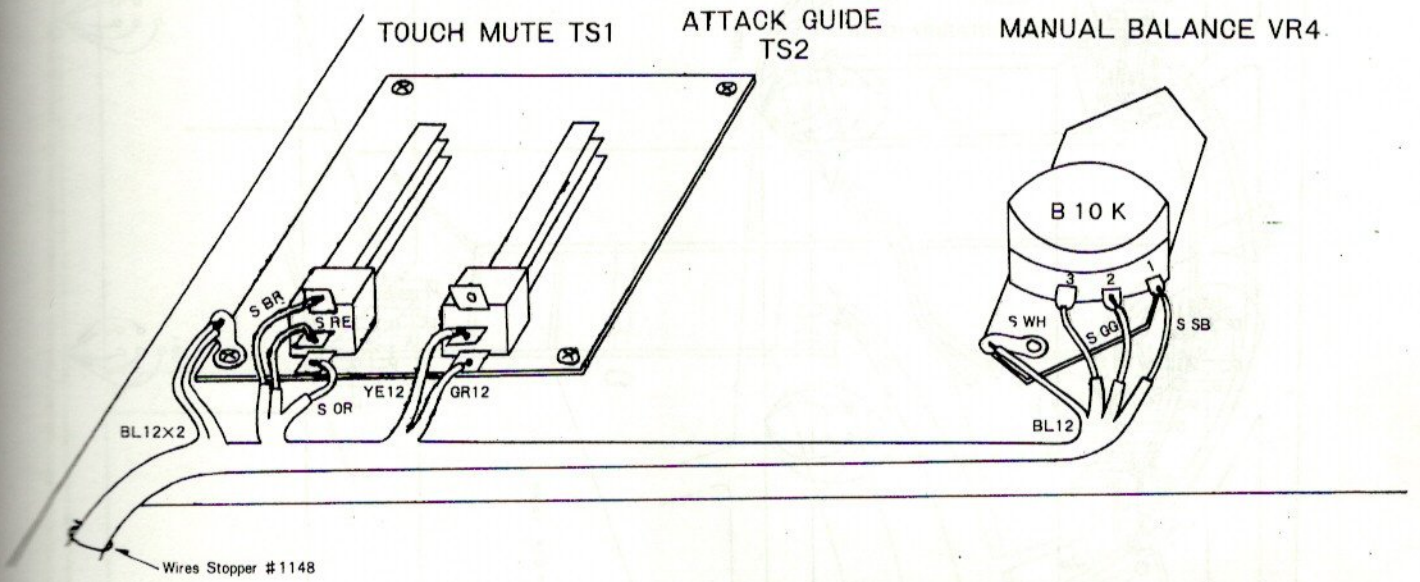
E (1)	BLx2	RA-D-E(2) RA-I2-E(1)
77 (3)	PK	PA-D-B7(4)
67 (4)	PK	RA-D-B5(7')
57 (5)	PK	RA-D-B5(10')
47 (6)	PK	RA-D-B4(13')
37 (7)	PK	RA-D-B3(16')
27 (8)	PKx2	CNR-12 RA-D-B2(26')
17 (9)	PK	RA-D-B1(23')
07 (10)	PK	RA-D-B0(26)
75 (11)	SB	RA-D-A*7(5)
65 (12)	SB	RA-D-A*6(8)
55 (13)	SB	RA-D-A*5(11)
45 (14)	SB	RA-D-A*4(14)
35 (15)	SB	RA-D-A*3(17)
25 (16)	SBx2	CNR-11 RA-D-A*2(21)
15 (17)	SB	RA-D-A*1(24)
05 (18)	SB	RA-D-A*0(27)
73 (19)	GG	RA-D-A7(5')
63 (20)	GG	RA-D-A6(8')
53 (21)	GG	RA-D-A5(11')
43 (22)	GG	RA-D-A4(14')
33 (23)	GG	RA-D-A3(17')
23 (24)	GGx2	CNR-10 RA-D-A2(21')
13 (25)	GG	RA-D-A1(24')
03 (26)	GG	RA-D-A0(27')
71 (27)	WH	RA-D-G*7(6)
61 (28)	WH	RA-D-G*6(9)
51 (29)	WH	RA-D-G*5(12)
41 (30)	WH	RA-D-G*4(15)
31 (31)	WH	RA-D-G*3(18)
21 (32)	WHx2	CNR-9 RA-D-G*2(22)
11 (33)	WH	RA-D-G*1(25)
01 (35)	VH	RA-D-G*0(28)

34. MA Circuit Board #2199 and Wiring

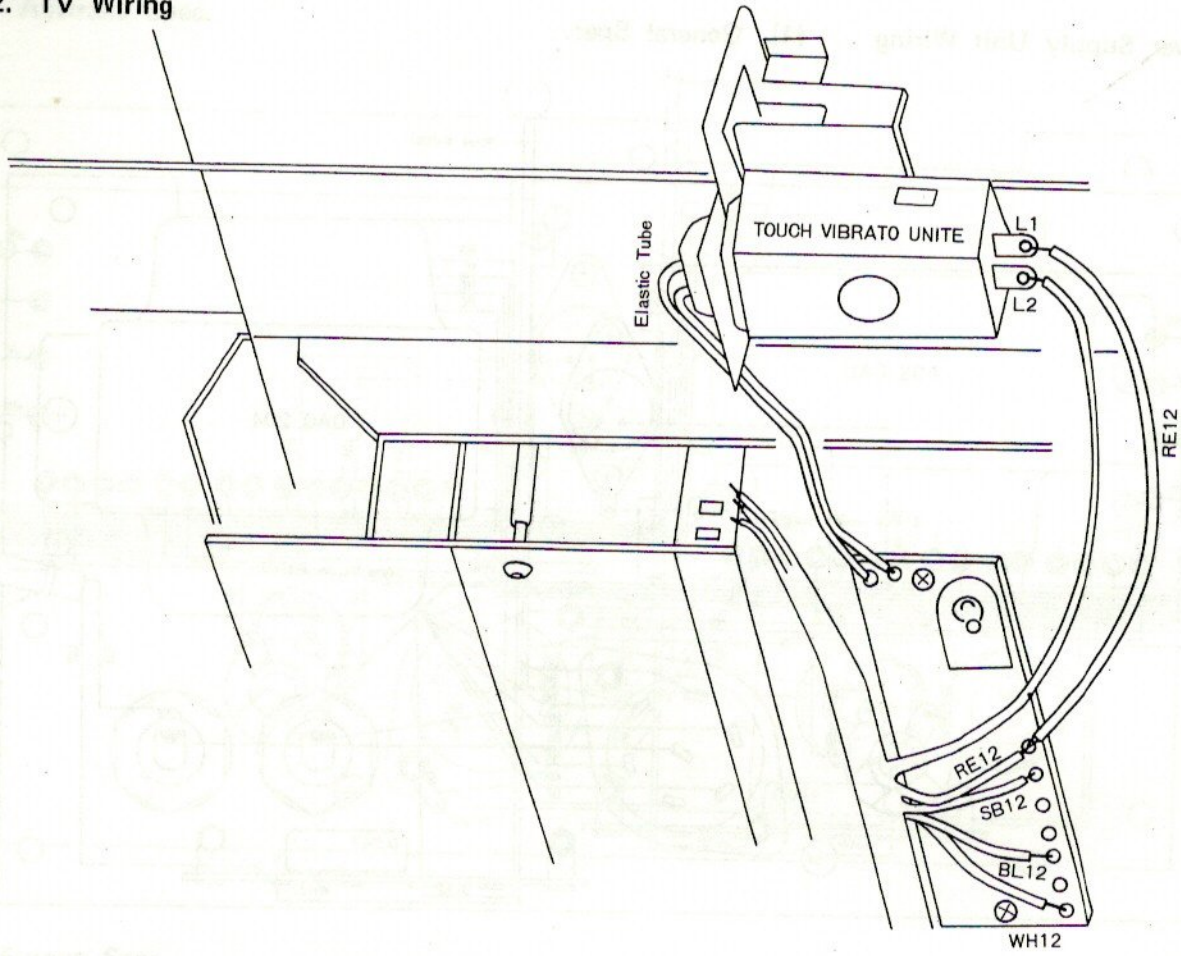


E (1)	BL	RA-PS-E(1)
E (2)	SPKS	
UFI (3)	SPK	PN1-TVR8-2
E (4)	SGRS	
UTI (5)	SGR	PN1-TVR4-4
E (6)	SBRS	
01 (7)	SBR	PN2-TS1-B
E (11)	SORS	
02 (12)	SOR	PN2-TS1-M
E (14)		
MD (15)	SB12	UK-TV-01
E (16)		
E (18)	SGRS SRES	
UI (19)	SRE	PN2-TS1-T
PS (20)	SGR	PN1-TVR17-3
E (21)	SWHS	
UO (22)	SWH	PN2-VR4-3
E (23)	SBRS	
LI (24)	SBR	PN1-VR19-2
E (25)	SSBS	
LO (26)	SSB	PN2-VR4-1
E (27)	SGGS	
MI (28)	SGG	PN2-VR4-2
E (29)	SVIS	
BI (30)	SVI	PN1-VR2-2
E (31)	SPKS	
GO (32)	SPK	PN1-VR3-3
-26 (33)	GY12	RA-BV-26(4)
-12 (34)		
-12 (35)	TR	RA-PS-12(35)

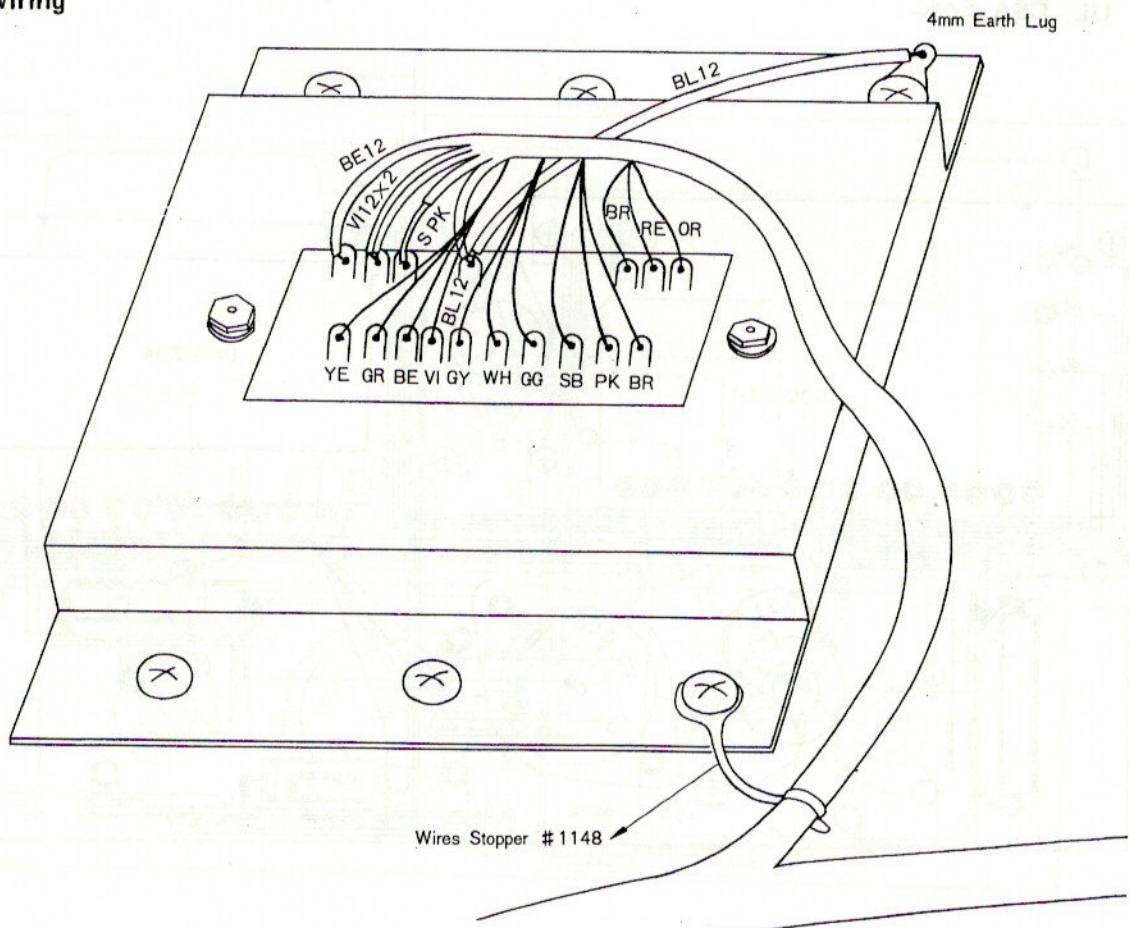
39. PN2 Wiring



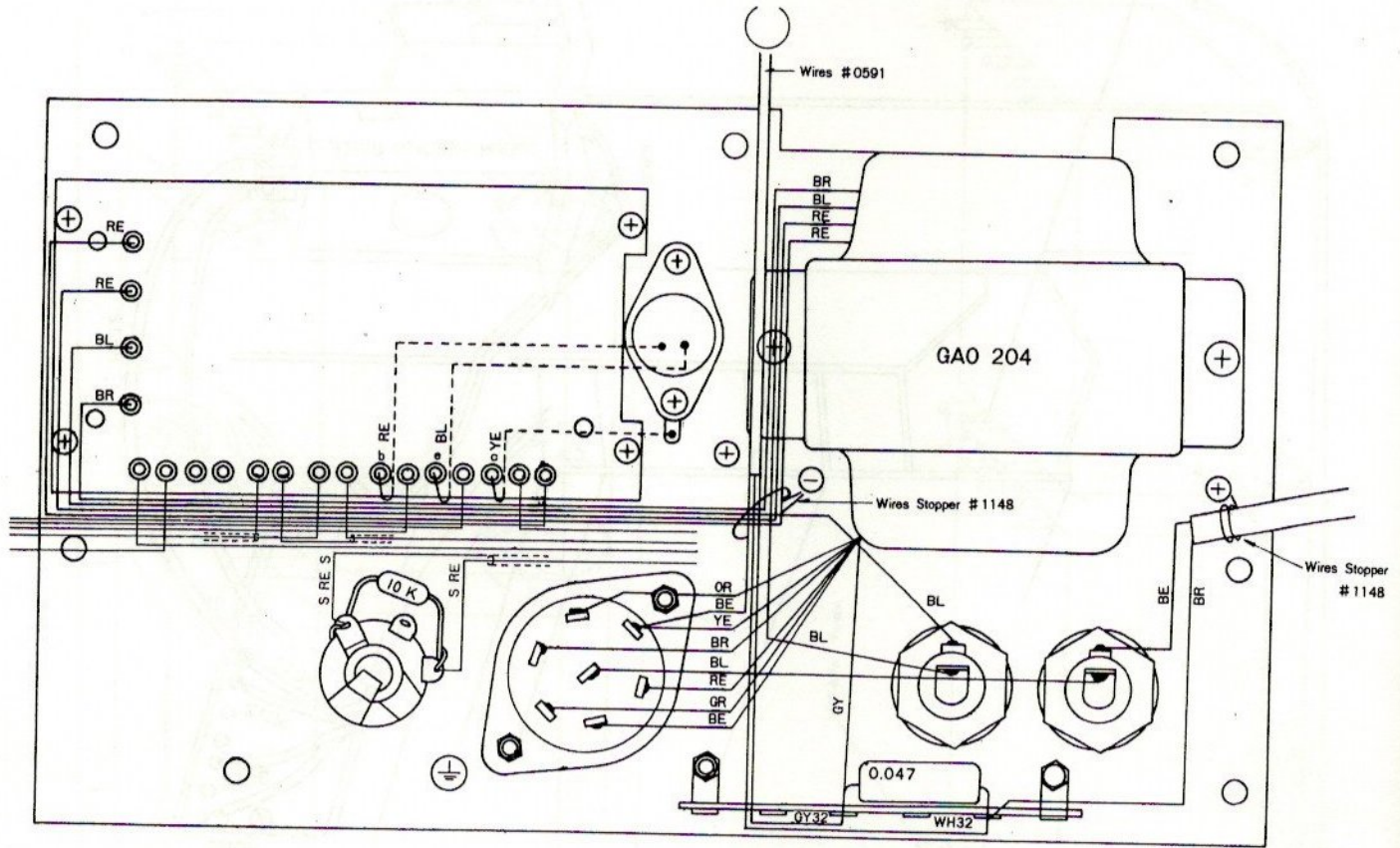
42. TV Wiring



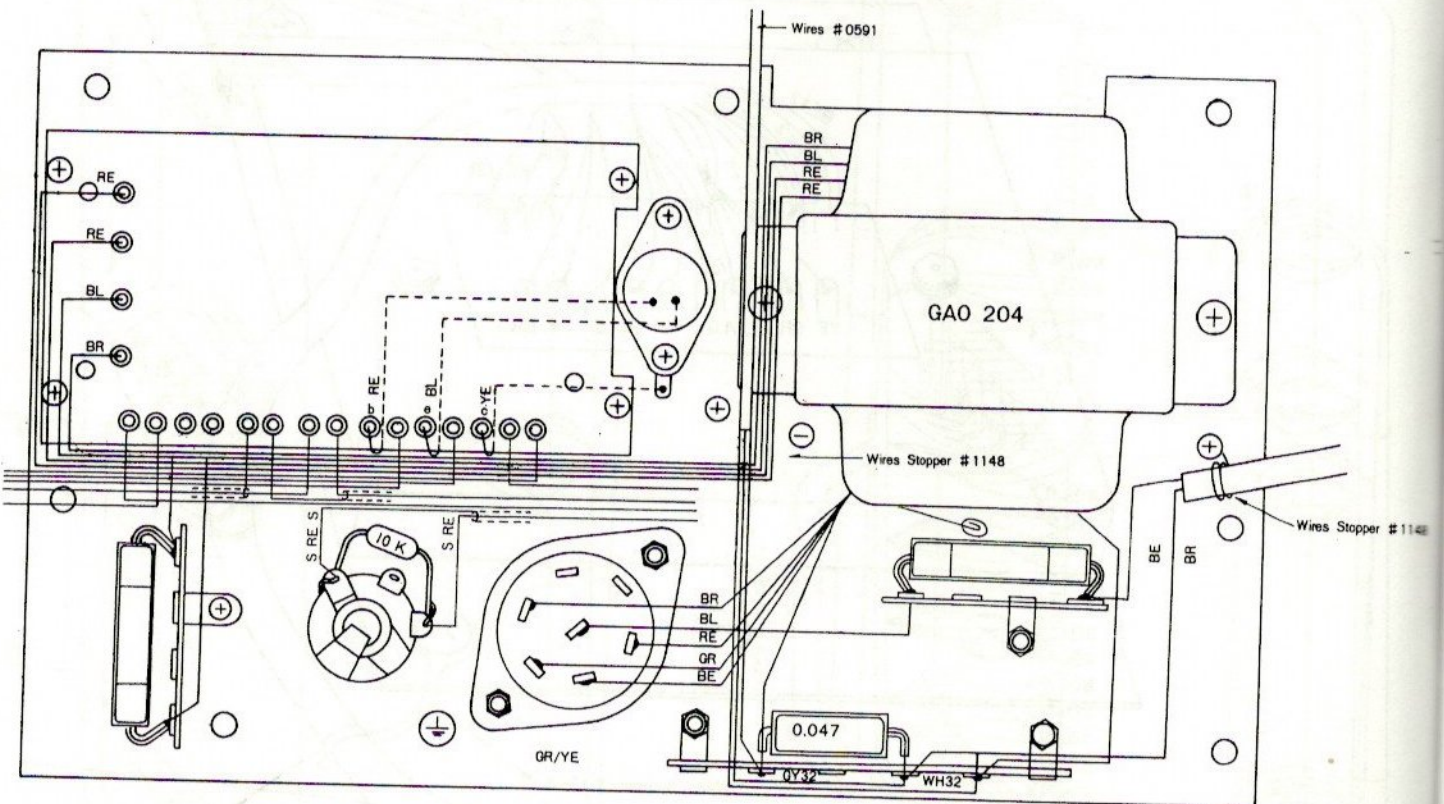
43. CN Wiring



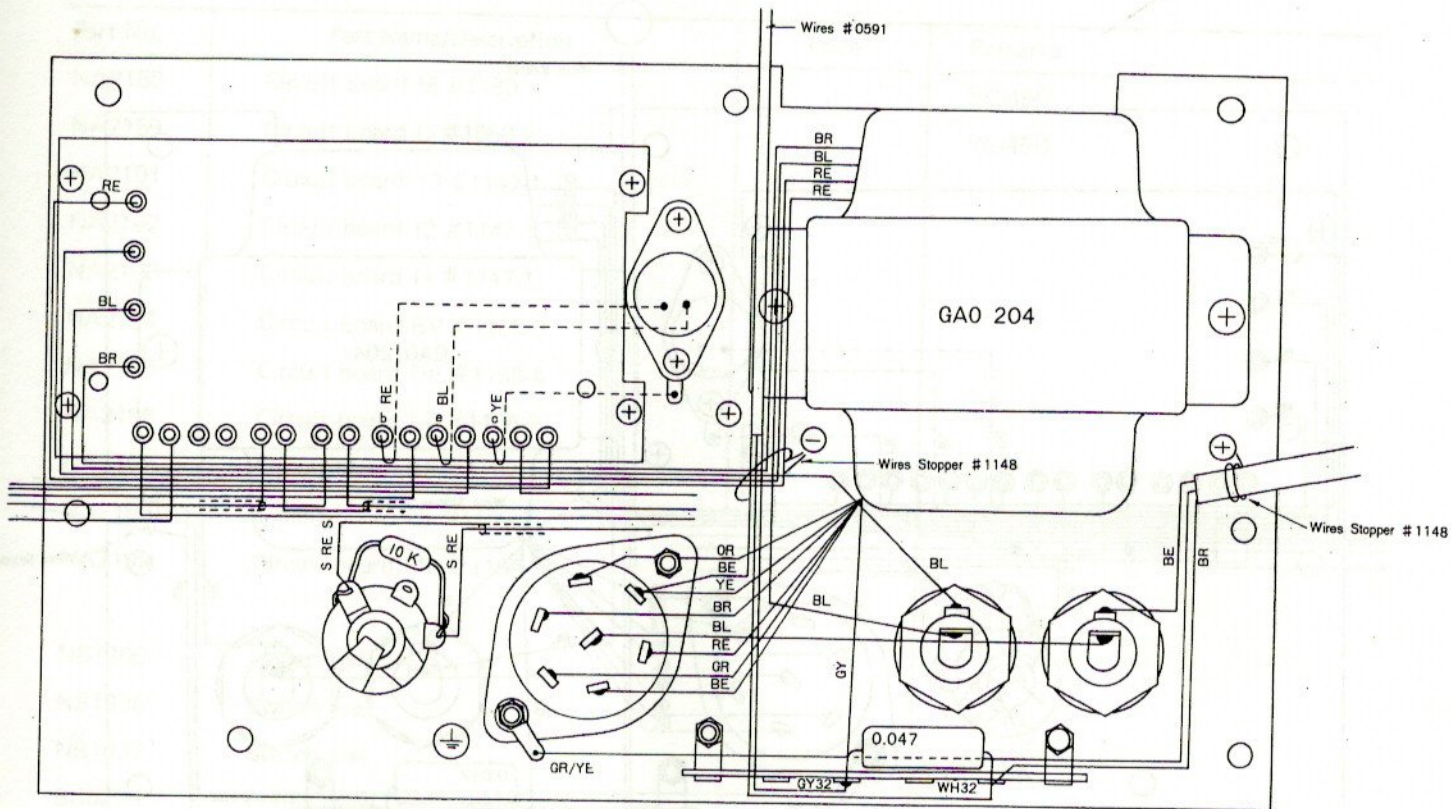
44. Power Supply Unit Wiring (1) General Spec.



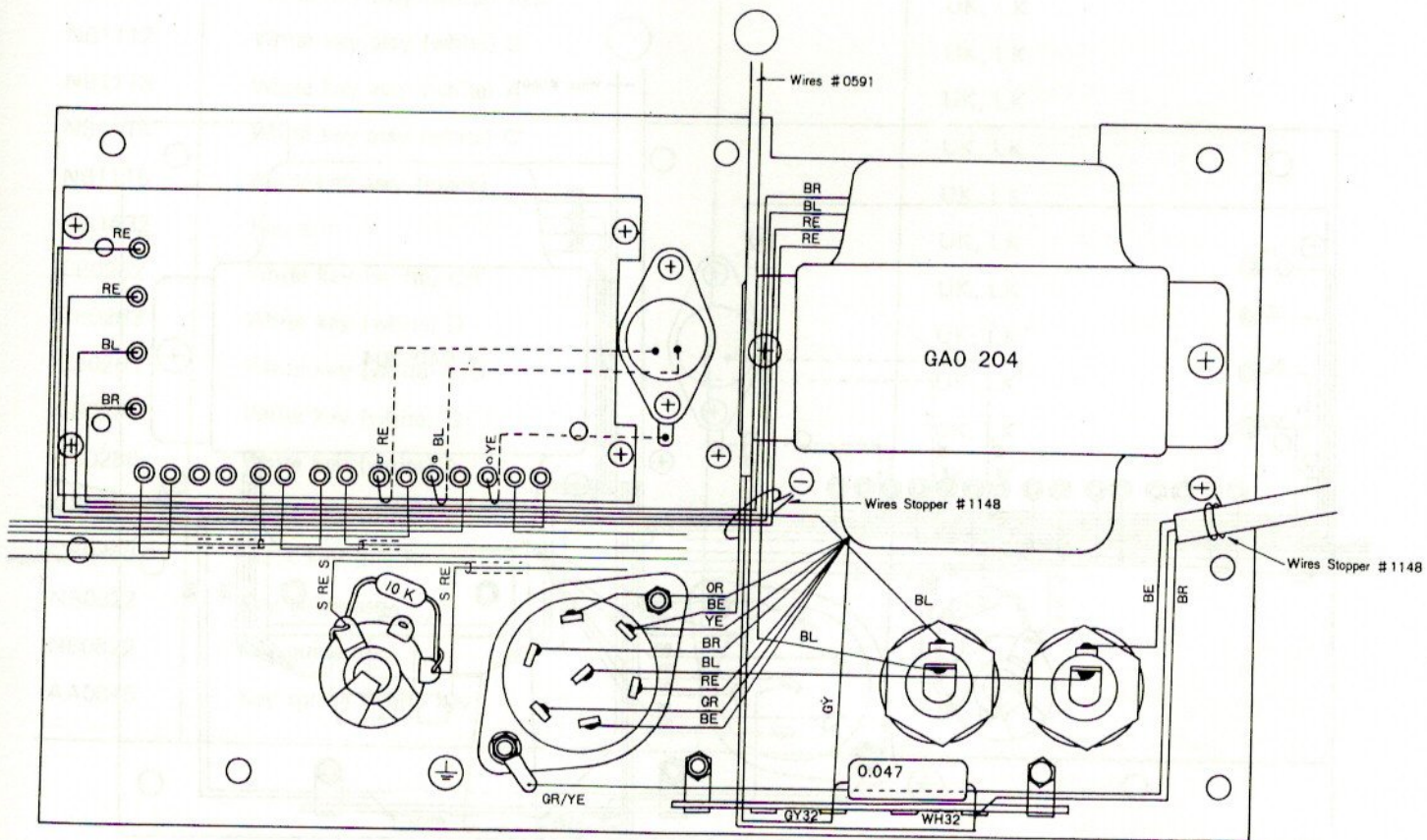
(2) UL, CSA Spec.



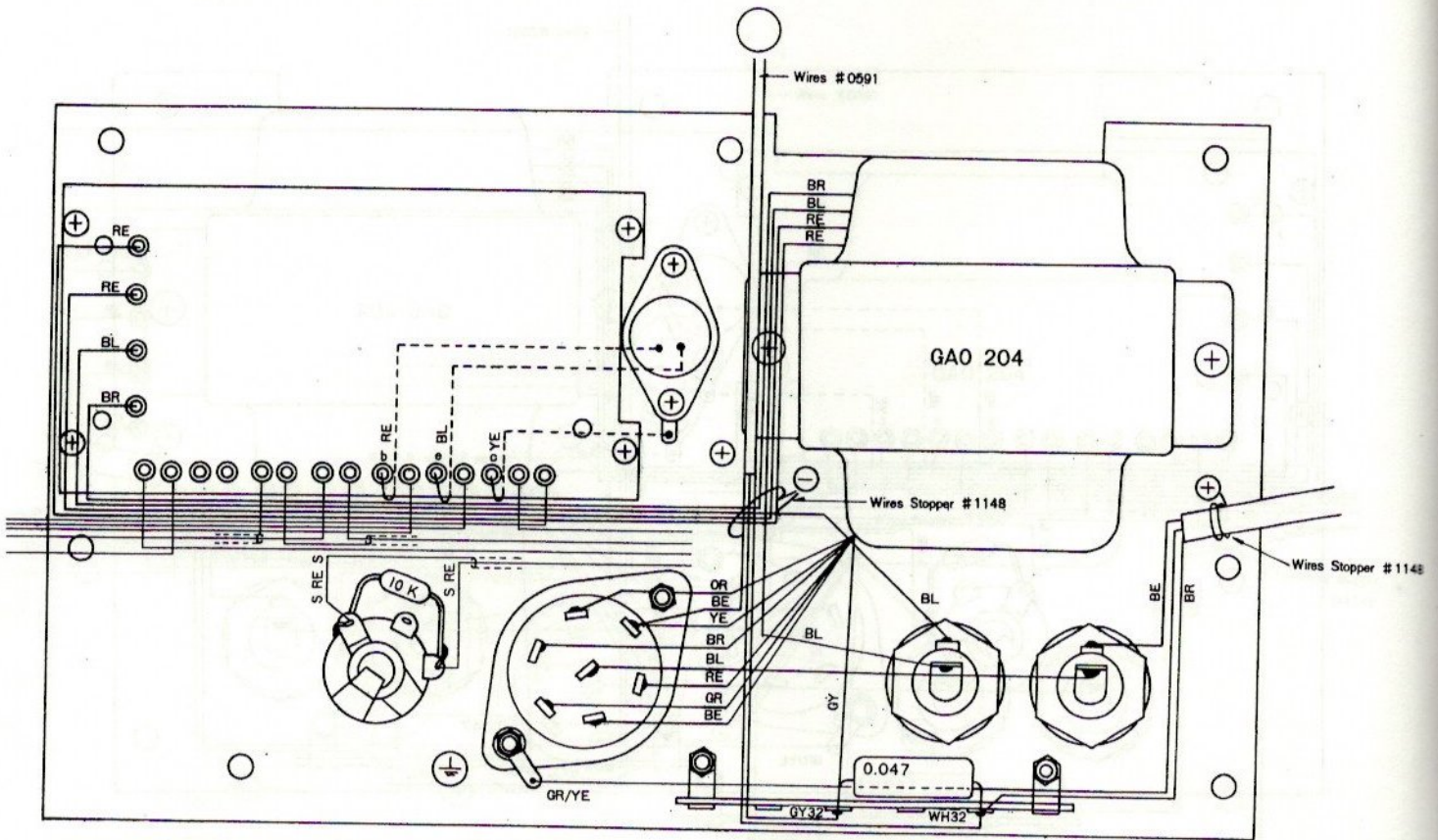
(3) Australia Spec.



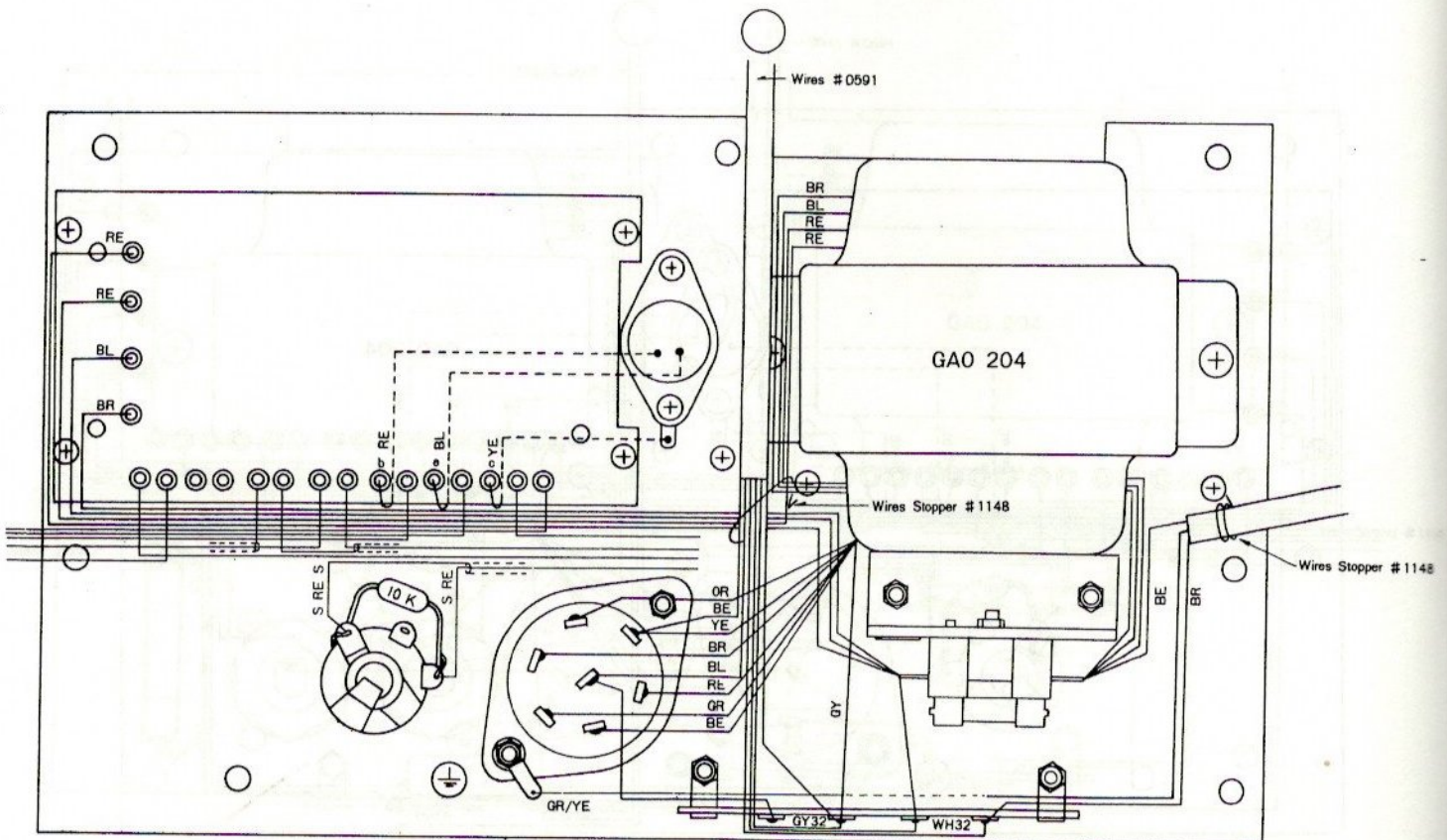
(4) Europe Spec.



(5) South Africa Spec.



(6) SEMKO NEMKO Spec.



YC-25D Parts List

Part No.	Part Name/Description	Price	Remarks
NA2158	Circuit board M #1180		YC-45D
NA2159	Circuit board D #1050-2		YC-45D
NA2191	Circuit board 13 #1147-1		
NA2192	Circuit board I2 #1147-1		
NA2193	Circuit board I1 #1147-1		
NA2194	Circuit board BV #1165-3		
NA2195	Circuit board UF #1166-4		
NA2196	Circuit board LF #1155-2		
NA2197	Circuit board BF #1167-1		
NA2198	Circuit board PS #1159-2		
NA2199	Circuit board MA #1168-3		
NB1900	Upper manual		
NB1936	Switch assy		UK, LK
NB1937	Switch assy		UK, LK
BC0235	Contact leaf		UK, LK
NB1109	White key assy (white) C/F		UK, LK
NB1110	White key assy (white) D		UK, LK
NB1111	White key assy (white) E/B		UK, LK
NB1112	White key assy (white) G		UK, LK
NB1113	White key assy (white) A		UK, LK
NB1114	White key assy (white) C'		UK, LK
NB1115	Black key assy (black)		UK, LK
AA1632	Key arm		UK, LK
CB0282	White key (white) C/F		UK, LK
CB0283	White key (white) D		UK, LK
CB0284	White key (white) E/B		UK, LK
CB0285	White key (white) G		UK, LK
CB0286	White key (white) A		UK, LK
CB0287	White key (white) C'		UK, LK
CB0288	Black key (black)		UK, LK
NB0822	Key guide assy		UK
NB0822	Key guide assy		UK
AA0845	Key spring (white key)		UK, LK

Part No.	Part Name/Description	Price	Remarks
AA0846	Key spring (black key)		UK, LK
NB1255	Touch vibrato assy		UK
CB0907	Photo-conductor (CdS) holder		TV ASSY
CB0908	Lamp holder		TV ASSY
HH0006	Photo-conductor (CdS)		TV ASSY
JB0020	Lamp (24V 5W)		TV ASSY
AA2154	UK spacer panel		UK
NB1908	Lower manual		
NB0282	White key (black) C/F		LK
NB0283	White key (black) D		LK
NB0284	White key (black) E/B		LK
NB0285	White key (black) G		LK
NB0286	White key (black) A		LK
NB0288	Black key (white)		LK
CB0282	White key (black) C/F		LK
CB0283	White key (black) D		LK
CB0284	White key (black) E/B		LK
CB0285	White key (black) G		LK
CB0286	White key (black) A		LK
CB0288	Black key (white)		LK
NB0841	Key guide assy		LK
NB0842	Key guide assy		LK
AA2155	LK spacer panel		LK
NB0802	Expression pedal		
CB0762	Lamp cover		EXP
CB0763	Photo-conductor (CdS) holder		EXP
CB0764	Lamp holder		EXP
HH0006	Photo-conductor (CdS)		EXP
JB0020	Lamp (24V 5W)		EXP
CB1021	Knob		PN1
KA0190	Rotary switch		PN1 (BASS MAN./PED.)

Part No.	Part Name/Description	Price	Remarks
HC0254	Variable resistor B5K (RV24YN 300d.)		PN1 (PITCH)
HC0256	Variable resistor A10K (RV24YN 300d.)		PN1 (BASS/MASTER VOL.)
CB1678	Knob (white)		PN1
CB1679	Knob (black)		PN1
CB1680	Knob (red)		PN1
CB1681	Knob (yellow)		PN1
HC0100	Tone volume C50K (TVR-6)		PN1
HC0103	Tone volume C100K (TVR-6)		PN1
HC0225	Tone volume C10K (TVR-6)		PN1
HC0101	Tone volume A100K (TVR-6)		PN1
HC0099	Tone volume B50K (TVR-9)		PN1
HC0257	Tone volume A25K (TVR-6)		PN1
KA0178	Lever slide switch		PN1
NB1901	Tablet assy		PN2
NB0756	Switch assy		TAB.
NB0757	Switch assy		TAB.
NK0002	Tablet button assy		TAB.
CB1200	Knob		PN2
HC0244	Variable resistor B10K (RV30YN 60d.)		VR (BRILLI., M. BAL.)
KA0175	Power switch		P.SW (SEMKO & NEMKO)
KA0006	Power switch		P.SW (except SEMKO & NEMKO)
NB1916	Power unit		PU (GENERAL SPEC.)
NB1917	Power unit		PU (UL & CSA SPEC.)
NB1918	Power unit		PU (AUSTRALIA SPEC.)
NB1919	Power unit		PU (EUROPE SPEC.)
NB1920	Power unit		PU (SOUTH AFRICA SPEC.)
NB1921	Power unit		PU (SEMKO & NEMKO SPEC.)
	BASS PEDAL (BP-1)		

Circuit Board Parts List

Part No.			Remarks
NA2158	2158	M	
NA2159	2159	D	
NA2191	2191	I3	
NA2192	2192	I2	
NA2193	2193	I1	
NA2194	2194	BV	
NA2195	2195	UF	
NA2196	2196	LF	
NA2197	2197	BF	
NA2198	2198	PS	
NA2199	2199	MA	

Part No.	Part Name/Description	Circuit Board												
		M	D	I3	I2	I1	BV	UF	LF	BF	PS	MA		
	Electrolytic capacitor													
	220 μ F 6.8V						1							
	100 μ F 10V		1											
	220 μ F 10V	1							4			3		
	1 μ F 16V								12			2		
	2.2 μ F 16V						1							
	4.7 μ F 16V								4			4		1
	10 μ F 16V						2	8	4	3	4	6		
	22 μ F 16V							5			1	1		
	47 μ F 16V							5				1		
	220 μ F 16V						2	6		1	1	4		
	470 μ F 16V											4		
	1 μ F 25V						1							
	4.7 μ F 25V	1					1							
	33 μ F 25V													
	47 μ F 25V						1							
	15 μ F 16V						2				1			
	70 μ F 16V						1							
	100 μ F 16V						1							
	Solid aluminium capacitor													
	1 μ F 16V						1				2			
	Master coil													
GC4174	"	5												
GC4271	"	5												
GC4171	"	1												
GC4274	"	1												
	Filter coil													
GB1468	" 680mH									1				
GB1510	" 1.0H												1	
GB1512	" 1.2H									3				
GB1515	" 1.5H									1				
GB1539	" 3.9H									1				

Part No.	Part Name/Description		Circuit Board											
			M	D	I3	I2	I1	BV	UF	LF	BF	PS	MA	
	Variable resistor													
	B25K	18K3-1						1					2	1
	B50K	"												2
	B250K	"											2	
	Mylar capacitor TDYS ±10%													
	0.001μF	"												
	0.0012μF	"									2			
	0.0015μF	"							1					
	0.0018μF	"												
	0.0022μF	"							1	2				
	0.0027μF	"			4					6	2			
	0.0033μF	"							2	4				
	0.0039μF	"				4				2				
	0.0047μF	"					4		3	8				
	0.0056μF	"			4									
	0.0068μF	"							2	4	1			
	0.0082μF	"				4			1		1			
	0.01 μF	"					4	5	3	8	3			1
	0.012 μF	"			4									
	0.015 μF	"							3					
	0.018 μF	"				4								
	0.022 μF	"					4		3	8				
	0.027 μF	"			4							2		
	0.033 μF	"							2		1			
	0.039 μF	"			32	36	32			4	1			
	0.047 μF	"					4		1		1	3		1
	0.056 μF	"			4						1			
	0.068 μF	"				4			1		1			
	0.082 μF	"			4		4		1					
	0.1 μF	"				4			5		4	1		6
	0.12 μF	"			4		4				1			
	0.15 μF	"				4	4							
	0.18 μF	"						1						
	0.22 μF	"						3						
	0.27 μF	"												
	0.33 μF	"												

Part No.	Part Name/Description	Circuit Board											
		M	D	I3	I2	I1	BV	UF	LF	BF	PS	MA	
	0.39 μ F TDYS \pm 10%												
	0.47 μ F "												
	0.0062 μ F	2											
	0.0068 μ F	2											
	0.0082 μ F	1											
	0.0091 μ F	2											
	0.01 μ F	2											
	0.011 μ F	2											
	Polystyrene capacitor \pm 5%												
	3600PF "	2											
	4700PF "	2											
	5100PF "	2											
	5600PF "	2											
	6200PF "	2											
	8200PF "	2											
	330PF \pm 10%										1		
	470PF "										1		
	Ceramic capacitor \pm 10% 50WV												
	47PF "							5					2
	220PF "												1
	1000P (L) "						4						
	1000P (K)	12					4						1

Part No.	Part Name/Description	Circuit Board												
		M	D	I3	I2	I1	BV	UF	LF	BF	PS	MA		
	Carbon resistor ¼P ±10%													
	10													
	12													
	15													
	18													
	22		1				1							
	27													
	33													
	39													
	47													
	56													
	68													
	82	1					1							
	100													
	120													
	150													
	180						1							
	220						1						1	
	270						1							
	330						1					2		
	390													
	470	12									1	3	1	
	560								1					
	680									2			1	
	820		1										1	
	1K						6	22	16	7	14	13	13	
	1.2K												1	
	1.5K	12						2			1			
	1.8K													
	2.2K						5	9	2	1	1	3	3	
	2.7K										5	1	1	
	3.3K						1	2			2	5	5	
	3.9K							3						
	4.7K	12					8	3	16	4	3	5	5	
	5.6K												2	
	6.8K						1						1	
	8.2K													
	10K	12					9	30	24	3	8	2	2	

Part No.	Part Name/Description	Circuit Board										
		M	D	I3	I2	I1	BV	UF	LF	BF	PS	MA
	10K	12					9	30	24	3	8	2
	12K	1						3				
	15K	91		28	28	28	1			2		4
	18K											
	22K						6	25	24	9	3	2
	27K						1			2		
	33K	12					2		12	4	2	3
	39K	12					7		24	3	2	1
	47K						2	3	8	4	4	4
	56K			4	4	4		3		2		1
	68K							3				
	82K			4	4	4		8			1	2
	100K						6	7		5	3	4
	120K						2	3		1		
	150K							5		3		
	180K				4	4		3		1		2
	220K						4		28	3	4	1
	270K									1		
	330K											4
	390K							1				
	470K											3
	560K										2	
	680K										2	
	820K											
	1M										4	2
	1.2M											
	Metal oxide resistor											
	820 2P		1									

Part No.	Part Name/Description	Circuit Board										
		M	D	I3	I2	I1	BV	UF	LF	BF	PS	MA
	Transistor											
	2SC458L (A)						4					
	458L (B)	12										
	458L (A) (B)	12										
	458 (B) (C)						17	9				5
	458 (A) (B) (C)								16	4	8	
	2SA561 (O) (Y)	12										
	FET											
	2SK30 (Y)										2	1
	Diode											
	1N34A										1	
	1S1555						13					2
	Zener diode											
	1S1715										1	1
	IC HD3111		14									

Power Unit Parts List

Part No.	Part Name/Description	General	UL CSA	Australia	Europe	South Africa	SEMKO NEMKO
		NB1916	NB1917	NB1918	NB1919	NB1920	NB1921
	Oil capacitor 0,047 μ F 600V (UL approved type)		1				
	Oil capacitor 0,047 μ F 600V	1		1	1	1	
	Fuse 0,3A 250V			1	1	1	
	Fuse 0,5A 250V	1					
	Fuse 1A 250V	1		1	1	1	
	Lead type fuse 0,5A 250V (UL approved type)		1				
	Lead type fuse 1A 250V (UL approved type)		1				
	Fast fuse 0,3A (SEMKO approved type)						1
	Fast fuse 0,5A (SEMKO approved type)						1
	Fast fuse 1A 250V (SEMKO approved type)						2
LB0079	Fuse holder (MIYAMA)	2	2	2	2	2	
LB0132	Fuse holder (H-N1150)						4
LB0082	Voltage adjustor	1	1	1	1	1	1
LB0088	Earphone jack	1	1	1	1	1	1
MZ0097	Power supply cord (1 =4,5m)	1					
MZ0234	Power supply cord (UL approved type)		1				
MZ0850	Power supply cord (3 core)				1	1	
MZ0391	Power supply cord (# 777N 3 core)			1			
MZ0590	Power supply cord (1 = 4,5m)						1
GA0204	Power transformer	1	1	1	1	1	1
	Transistor 2SD256	1	1	1	1	1	1
NA2248	Circuit board PU #1225	1	1	1	1	1	1

