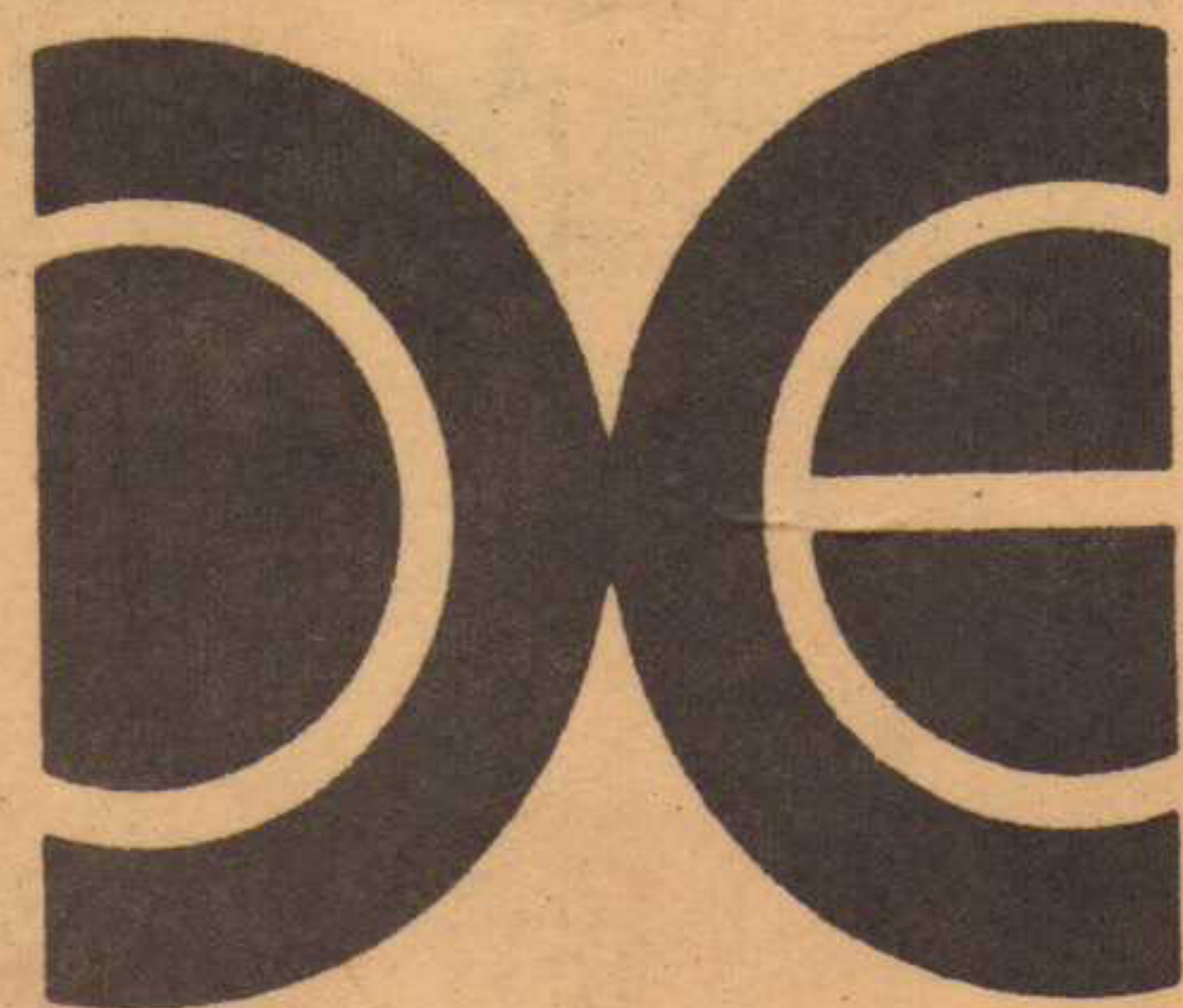
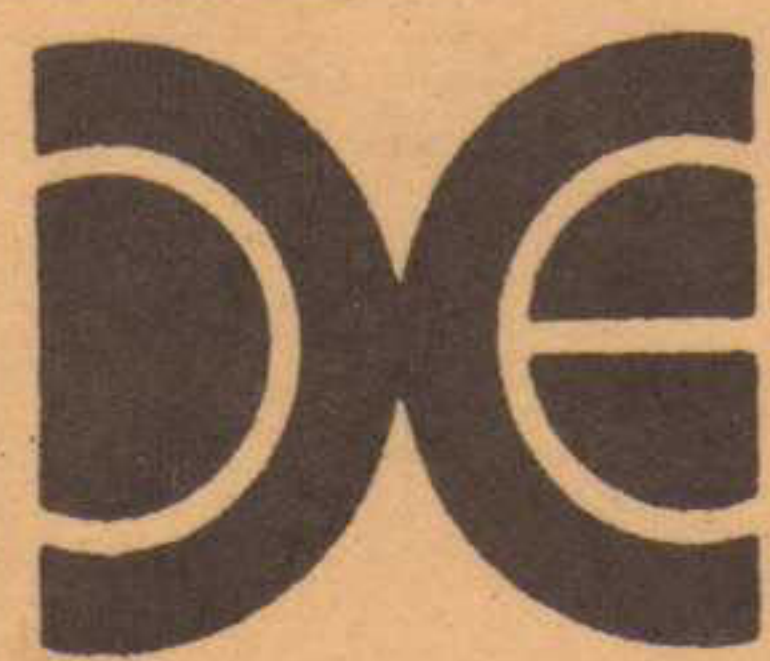


# KUNG-FU MASTER™



## INSTALLATION INSTRUCTIONS



**DATA EAST USA, INC.**

470 Gianni Street, Santa Clara, CA 95054  
Telephone: (408) 727-4490  
Toll Free: (800) 538-5129  
Tellex: 172163 DATA EAST SNTA

# **WARNING**

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instructions manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

## **CAUTION**

EMI Shield must be securely installed in order to protect against undesirable radio interference.

K U N G - F U M A S T E R

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NOTE: Schematic set for ASAHI model 6352 power supply was not available for inclusion in this manual at press time. Refer any problems to the DATA EAST Service Department.

# KUNG-FU MASTER<sup>tm</sup>

## G A M E P L A Y

1. You are a Kung-Fu Master. Your girlfriend has been kidnapped by criminals and locked up on the 5th floor of their headquarters. Get into their headquarters and save your girlfriend!
2. On your way up to the 5th floor, various criminals will block your way. Defeat the criminals by using your Kung-Fu techniques.
3. Masters at various martial arts appear at the end of each floor. You cannot go upstairs unless you defeat them. Remaining energy of the masters is indicated by the energy gauge.
4. Press "PUNCH" button to punch, press "KICK" button to kick.
5. Jiggle the joystick quickly to shake off enemy holds.
6. The game will be over if either your energy or your allotted time runs out.
7. At the end of the 4th floor, may wizards will appear. You must guess which one is the real wizard and defeat him.

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DATA EAST USA, INC.

OPTION SWITCH SETTINGS

DIP SWITCH #1

OPTION	SWITCH	1	2	3	4	5	6	7	8
DIFFICULTY	EASY	OFF							
	DIFFICULT	ON							
DECREASE OF ENERGY	SLOW		OFF						
	FAST		ON						
NUMBER OF FIGHTERS	2			ON	OFF				
	3			OFF	OFF				
	4			OFF	ON				
	5			ON	ON				
COIN SELECTION  (SWITCH #3 of DIP SWITCH #2 MUST BE OFF)	1 COIN 1 PLAY					OFF	OFF	OFF	OFF
	2 COINS 1 PLAY					ON	OFF	OFF	OFF
	3 COINS 1 PLAY					OFF	ON	OFF	OFF
	4 COINS 1 PLAY					ON	ON	OFF	OFF
	5 COINS 1 PLAY					OFF	OFF	ON	OFF
	6 COINS 1 PLAY					ON	OFF	ON	OFF
	1 COIN 2 PLAYS					OFF	OFF	OFF	ON
	1 COIN 3 PLAYS					ON	OFF	OFF	ON
	1 COIN 4 PLAYS					OFF	ON	OFF	ON
	1 COIN 5 PLAYS					ON	ON	OFF	ON
	1 COIN 6 PLAYS					OFF	OFF	ON	ON
	FREE PLAY					ON	ON	ON	ON

DIP SWITCH #2

OPTION	SWITCH	1	2	3	4	5	6	7	8
FLIP PICTURE?	NO	OFF							
	YES	ON							
CABINET TYPE	COCKTAIL TABLE		OFF	ALWAYS KEEP OFF	ALWAYS KEEP OFF		ALWAYS KEEP OFF		
	UPRIGHT		ON						
* FREEZE PICTURE?	NO					OFF			
	YES					ON			
NO DEATH MODE?	NO							OFF	
	YES							ON	
TEST MODE?	NO								OFF
	YES								ON

NOTE: \* PRESS 2-PLAYER START BUTTON TO FREEZE PICTURE. PRESS 1-PLAYER START BUTTON TO LET IT MOVE AGAIN.

POWER SUPPLY:

+5 volts dc at 5 A (max)  
+12 volts dc at 1.5 A (max)

ENVIRONMENT:

Operating temperature range: 0 to 50°C  
Relative Humidity: 20 to 70%

MONITOR INTERFACE:

Video Signals: TTL Positive  
Sync Signals: TTL Negative (Composite Sync)  
Horizontal Frequency: 16 KHz  
Vertical Frequency: 56.3 Hz

SIGNAL NAME	PCB PIN #	EDGE CONNECTOR PIN #
GROUND	43	1
+ 5 VOLTS	41	2
+ 2 VOLTS	41	3
SERVICE SWITCH	32	4
1 P UP	32	5
1 P DOWN	32	6
2 P UP	32	7
2 P DOWN	32	8
RED	32	9
1 P PUNCH	32	10
SPEAKER	32	11
+ 12 VOLTS	32	12
+ 12 VOLTS	32	13
1 P START	32	14
1 P KICK	32	15
1 P RIGHT	32	16
1 P LEFT	32	17
GROUND	32	18
GROUND	32	19
GROUND	32	20
GROUND	32	21
GROUND	32	22

NOTE: 1 P controls for UP, DOWN, LEFT, RIGHT, KICK & PUNCH are for Cocktail Table game only.

PCB PIN NUMBERS DIFFER FROM EDGE CONNECTOR NUMBERS

C A U T I O N ! PCB PIN NUMBERS DIFFER FROM EDGE CONNECTOR PIN NUMBERS

44 PIN EDGE CONNECTOR

SIGNAL ASSIGNMENTS

POWER SUPPLY

CAUTION! PCB PIN NUMBERS DIFFER FROM EDGE CONNECTOR PIN NUMBERS CAUTION!

SIGNAL NAME	EDGE CONNECTOR PIN No.		SIGNAL NAME
GROUND (PCB PIN 1)	22	Z	GROUND (PCB PIN 2)
GROUND (PCB PIN 3)	21	Y	GROUND (PCB PIN 4)
	20	X	
COIN COUNTER A	19	W	
1 P LEFT (PCB PIN 9)	18	V	2 P LEFT (PCB PIN 10)
1 P RIGHT (PCB PIN 11)	17	U	2 P RIGHT (PCB PIN 12)
1 P KICK (PCB PIN 13)	16	T	2 P KICK (PCB PIN 14)
2 P START (PCB PIN 15)	15	S	1 P START (PCB PIN 16)
	14	R	COIN COUNTER B (PCB PIN 18)
COIN B (PCB PIN 19)	13	P	COMPOSIT SYNC (PCB PIN 20)
+ 12 VOLTS (PCB PIN 21)	12	N	+ 12 VOLTS (PCB PIN 22)
+ 12 VOLTS (PCB PIN 23)	11	M	+ 12 VOLTS (PCB PIN 24)
SPEAKER (-) (PCB PIN 25)	10	L	SPEAKER (+) (PCB PIN 26)
1 P PUNCH (PCB PIN 27)	9	K	2 P PUNCH (PCB PIN 28)
RED (PCB PIN 29)	8	J	GREEN (PCB PIN 30)
BLUE (PCB PIN 31)	7	H	
2 P UP (PCB PIN 33)	6	F	2 P DOWN (PCB PIN 34)
1 P UP (PCB PIN 35)	5	E	1 P DOWN (PCB PIN 36)
SERVICE SWITCH	4	D	COIN A (PCB PIN 38)
+ 5 VOLTS (PCB PIN 39)	3	C	+ 5 VOLTS (PCB PIN 40)
+ 5 VOLTS (PCB PIN 41)	2	B	+ 5 VOLTS (PCB PIN 42)
GROUND (PCB PIN 43)	1	A	GROUND (PCB PIN 44)

NOTE: 2 P controls for UP, DOWN, LEFT, RIGHT, KICK & PUNCH are for Cocktail Table games only.

CAUTION!

PCB PIN NUMBERS DIFFER FROM  
EDGE CONNECTOR NUMBERS

## DIAGNOSTIC MODE TESTS

The diagnostic program is activated by turning switch 8 of Dip Switch 2 to the ON position and turning the power switch ON. This diagnostic program is composed of 8 independent tests, the first two (RAM test and ROM test) of which initiate automatically as the power switch is turned ON. After these two tests end, the TV monitor displays a list of the next six tests as described below:

- 01 DIP SWITCH
- 02 I-O PORT
- 03 SOUNDS
- 04 CHARACTER
- 05 COLOR
- 06 CROSS HATCH PATTERN

Move the joystick to position the cursor at the desired test and then press the 1-Player button to start the test.

To return to the test list:

Press the 2-Player button (except when 02 I-O PORT test ends). As the 02 I-O PORT test ends, move the joystick left (the 1-Player joystick for table type games) while pressing the 2-player button.

When all the necessary testing is completed, turn the power switch OFF and turn switch 8 of Dip Switch 2 to the OFF position.

### 1. RAM TEST

If RAM is OK, "RAM OK" appears on the TV monitor.

If RAM is faulty: "RAM NG XXXX YY ZZ"  
(Faulty RAM address)(RAM input data)(RAM output data)  
appears on the TV Monitor.

Press the 1-Player button to continue RAM TEST, or  
Press the 2-Player button to end this test and advance to ROM TEST.

### 2. ROM TEST

If ROMs are OK the following appears on the TV Monitor:

RAM OK  
ROM 0 OK  
ROM 1 OK  
ROM 2 OK  
ROM 3 OK

If any of the ROMs are faulty, for instance ROM 1, the following appears on the TV Monitor:

RAM OK  
ROM 0 OK  
ROM 1 NG  
ROM 2 OK  
ROM 3 OK



3. DIP SWITCH TEST While the TV monitor displays the test list, control the joystick to position the cursor at 01 and press the 1-Player button.

This test shows the state of the switches of Dip Switch 1 and 2 and the results of game adjustments.

```

Dip Sw   1  2  3  4  5  6  7  8
DSW 1    0  0  0  0  0  0  0  0    1=ON
DSW 2    0  0  0  0  0  0  0  1    0=OFF

COIN MODE A      1 COIN  1 PLAY
COIN MODE B      1 COIN  2 PLAYS

BODY TYPE        UPRIGHT
DIFFICULTY        EASY
DECREASE         SLOW
FIGHTERS         3

```

4. I-O PORT TEST When the TV Monitor displays the test list, control the joystick to position the cursor at 02 and press the 1-Player button.

This test checks if all the switches on the Control Panel and Coin Doors are working correctly. The following display appears.

```

INTERFACE 1      1  2  3  4  5  6  7  8
READ DATA      0  0  0  0  0  0  0  0

INTERFACE 2      1  2  3  4  5  6  7  8
READ DATA      0  0  0  0  0  0  0  0

INTERFACE 3      1  2  3  4  5  6  7  8
READ DATA      0  0  0  0  0  0  0  0

```

TIMING n n n n

\* TIMING starts a 0000 and adds one count approximately every second.

```

INTERFACE 1-1 ... 1-Player Start Button
          1-2 ... 2-Player Start Button
          1-3 ... Service Switch
          1.4 ... Coin Switch A
INTERFACE 2-1 ... 1P Joystick RIGHT
          2-2 ... 1P Joystick LEFT
          2-3 ... 1P Joystick DOWN
          2-4 ... 1P Joystick UP
          2-6 ... 1P PUNCH button
          2-8 ... 1P KICK button
INTERFACE 3-1 ... 2P Joystick RIGHT
          3-2 ... 2P Joystick LEFT
          3-3 ... 2P Joystick DOWN
          3-4 ... 2P Joystick UP
          3-5 ... Coin Switch B
          3-6 ... 2P PUNCH button
          3-8 ... 2P KICK button

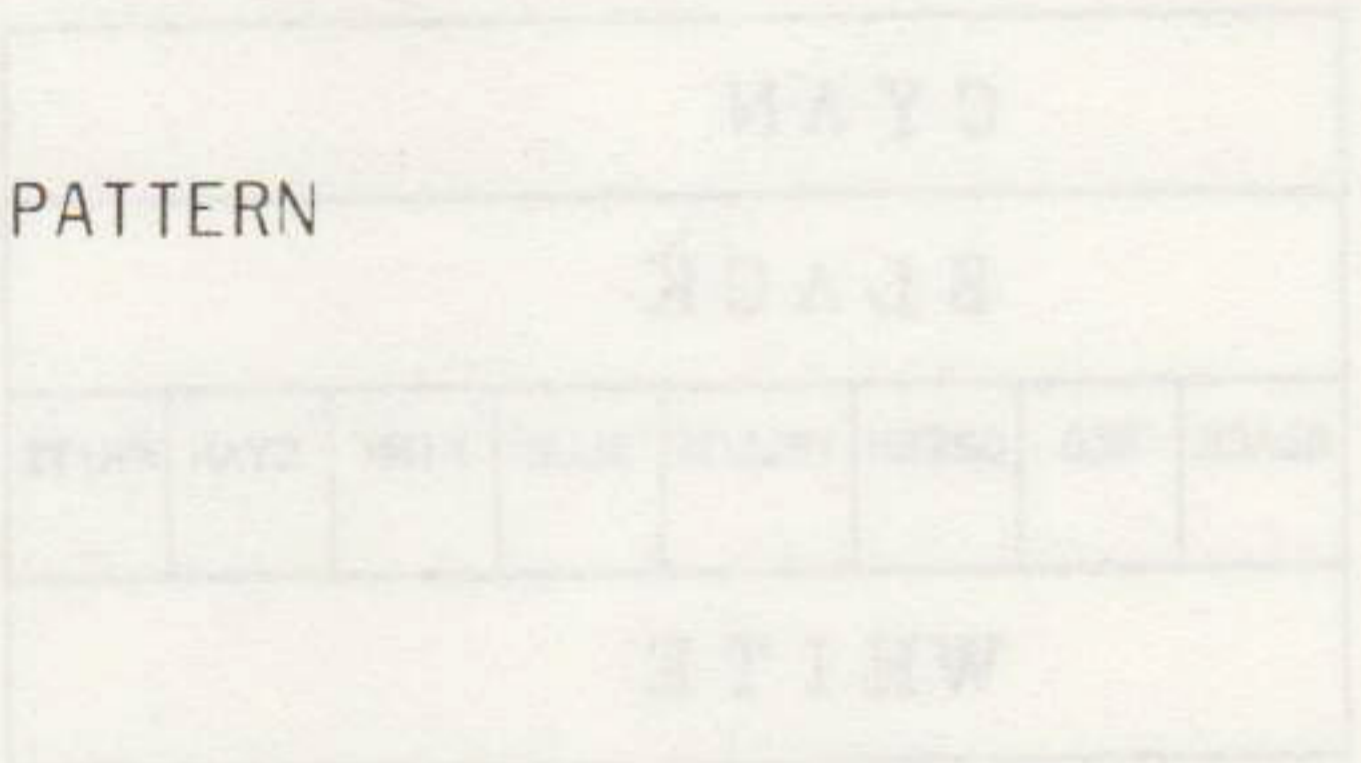
```

To terminate this test and bring the test list back to the TV monitor, move the joystick LEFT while depressing the 2-Player button.

5. SOUND TEST When the TV Monitor displays the test list, control the joystick to position the cursor at 03 and press the 1-Player button.

A table of sounds appears on the TV Monitor.

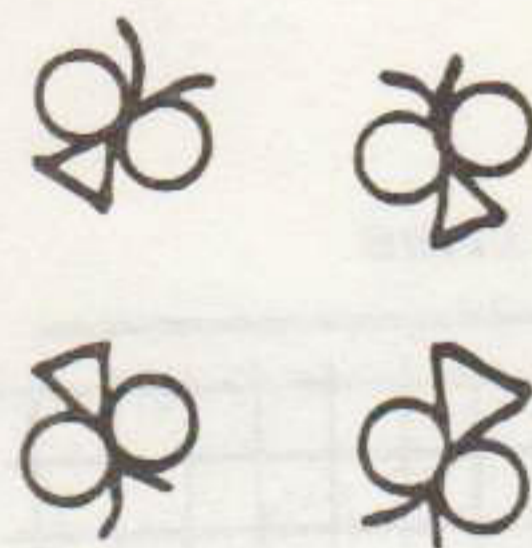
- SOUNDS
- 01 YELL OF PLAYER (JUMP-KICKS)  
CREDIT ADDING SOUND
  - 02 YELL OF PLAYER (PUNCHES, KICKS)
  - 03 GROAN OF PLAYER OR ENEMY
  - 04 LAUGHING VOICE OF ENEMIES-1
  - 05 LAUGHING VOICE OF ENEMIES-2
  - 06 BURSTING OF PAPER BALL  
BURSTING OF DRAGON'S EGG
  - 07 SHRIEK OF PLAYER
  - 08 PLAYER RUNNING
  - 09 HITTING SOUND (PUNCHES, KICKS)
  - 10 SWISHING SOUND
  - 11 BURSTING OF SNAKE POT
  - 12 BITING SOUND
  - 13 SOUND OF KNIVES, BOOMERANGS
  - 14 COUNTING POINTS
  - 15 GAME START
  - 16 BGM
  - 17 COMPLETION OF EACH PATTERN
  - 18 COMPLETION OF GAME
  - 19 GAME OVER
  - 20 TIME UP WARNING
  - 21 ADDITIONAL FIGHTER  
MUSIC END



Select a sound by positioning the cursor with the joystick. Depressing the 1-Player button repeats the sound.

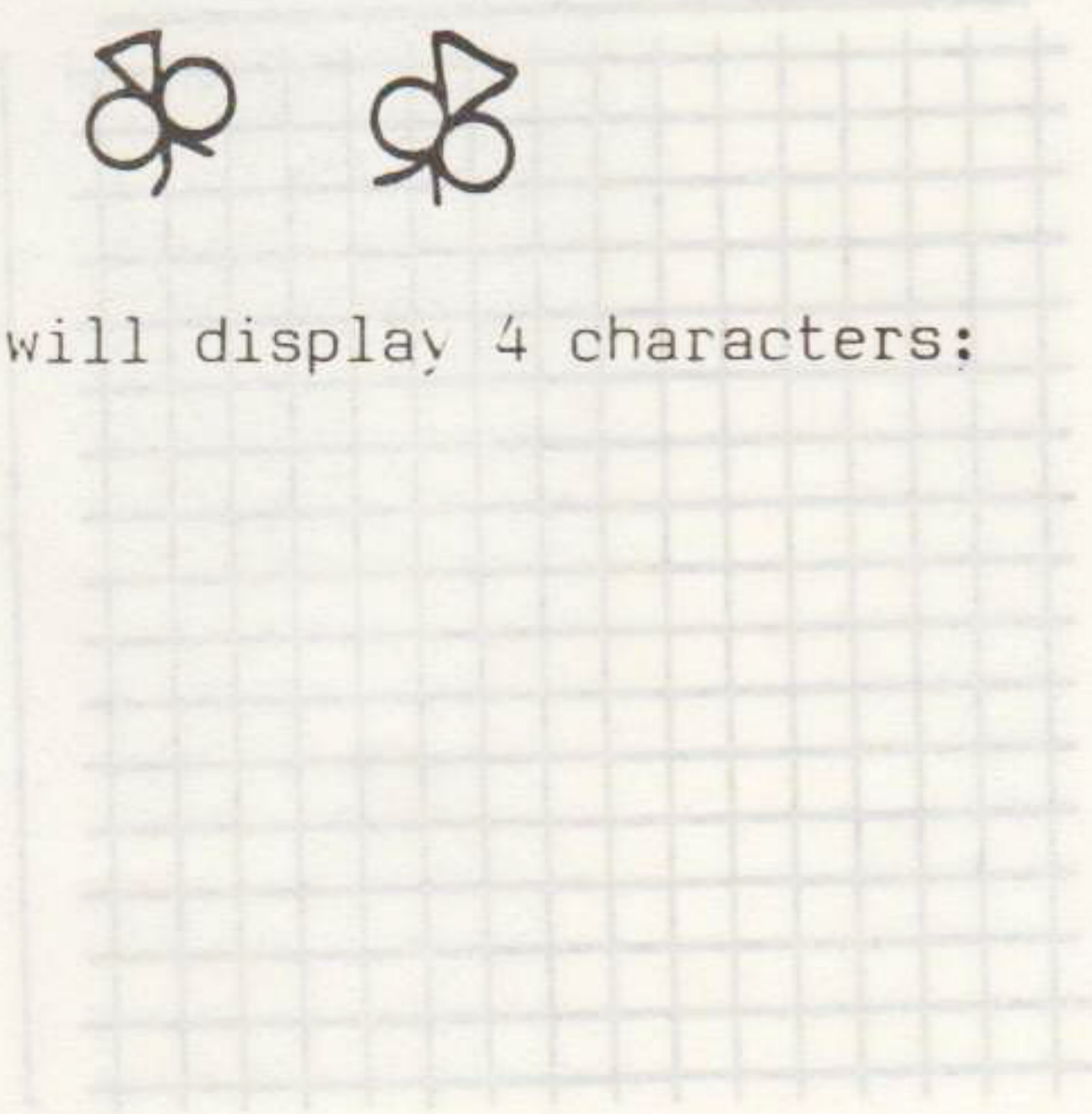
6. CHARACTER TEST When the TV Monitor displays the test list, control the joystick to position the cursor at 04 and press the 1-Player button.

The TV Monitor displays four moths which are flipped vertically and horizontally as shown below.



Moving the joystick to the left will display 4 characters:

- 1. Kung-Fu Master
- 2. Knife Thrower
- 3. Man of Brute Force
- 4. Boss of Organization X



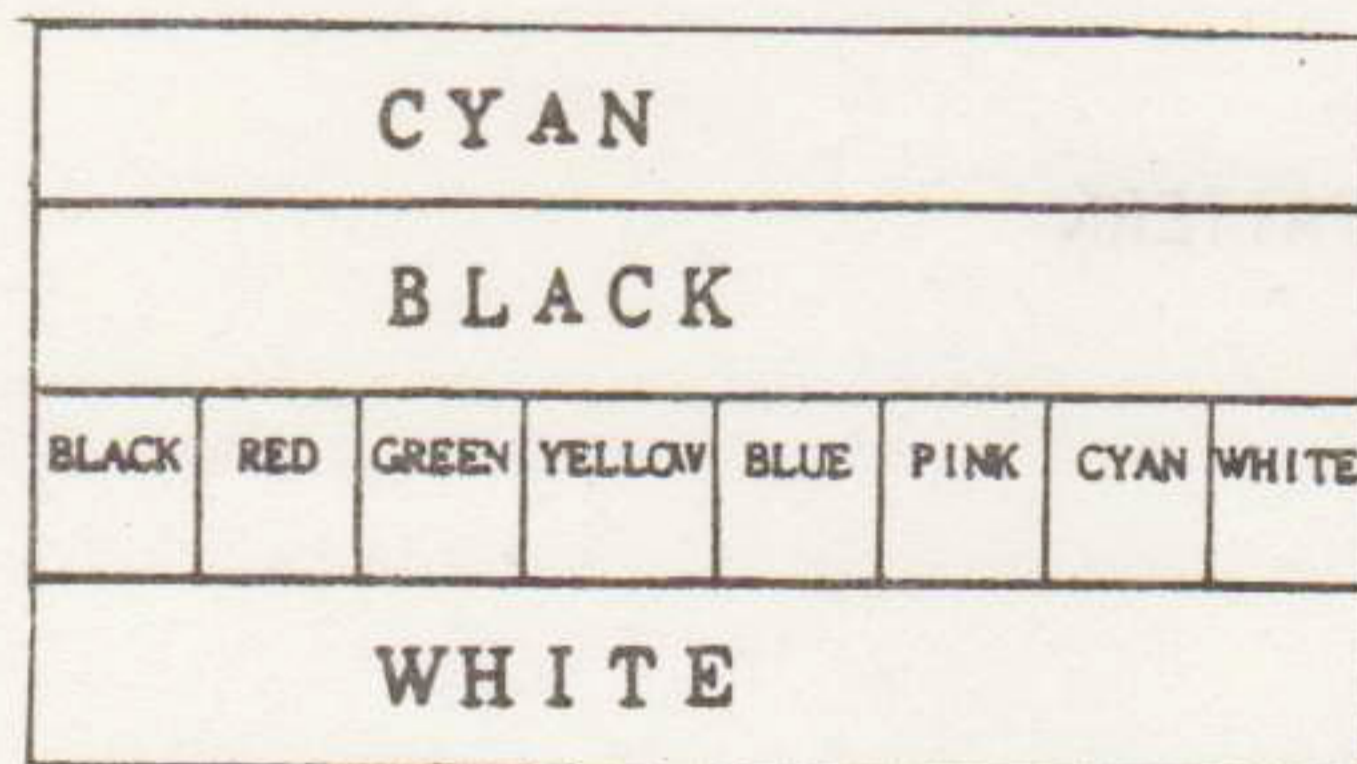
7. COLOR TEST While the TV Monitor displays the test list, control the Joystick to position the cursor at 05 and press the 1-Player button.

This test is comprised of five independent checks. Pressing the 1-Player button brings the check to the TV Monitor.

- (1) A row of letters A through Z appears along with a row of numbers 0 through 9 as shown below.

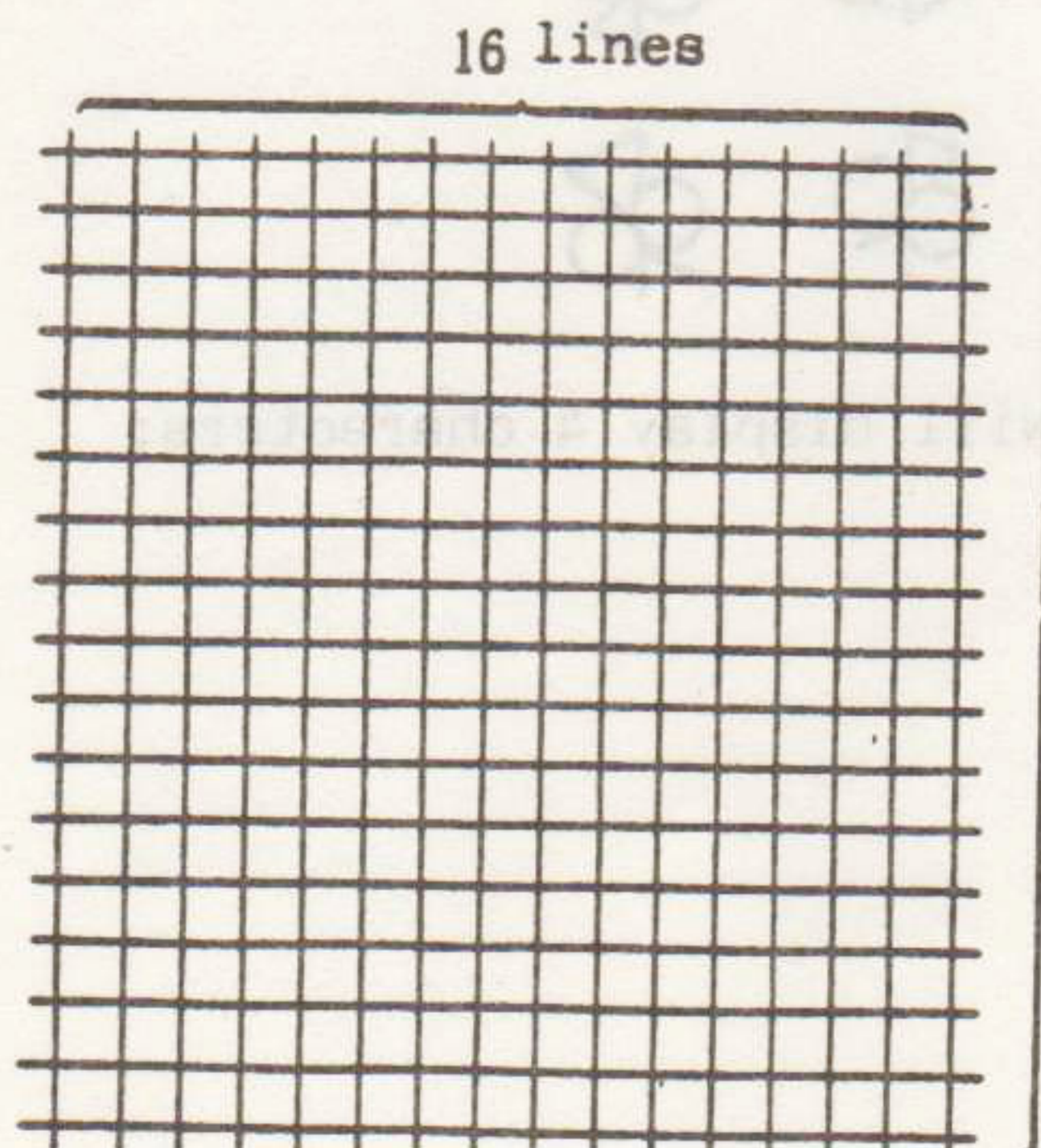
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
0123456789

- (2) Press the 2-Player button and a BLUE FIELD is displayed.  
 (3) Press the 2-Player button and a RED FIELD is displayed.  
 (4) Press the 2-Player button and a GREEN FIELD is displayed.  
 (5) Press the 2-Player button and a color Test Pattern is displayed as shown below.

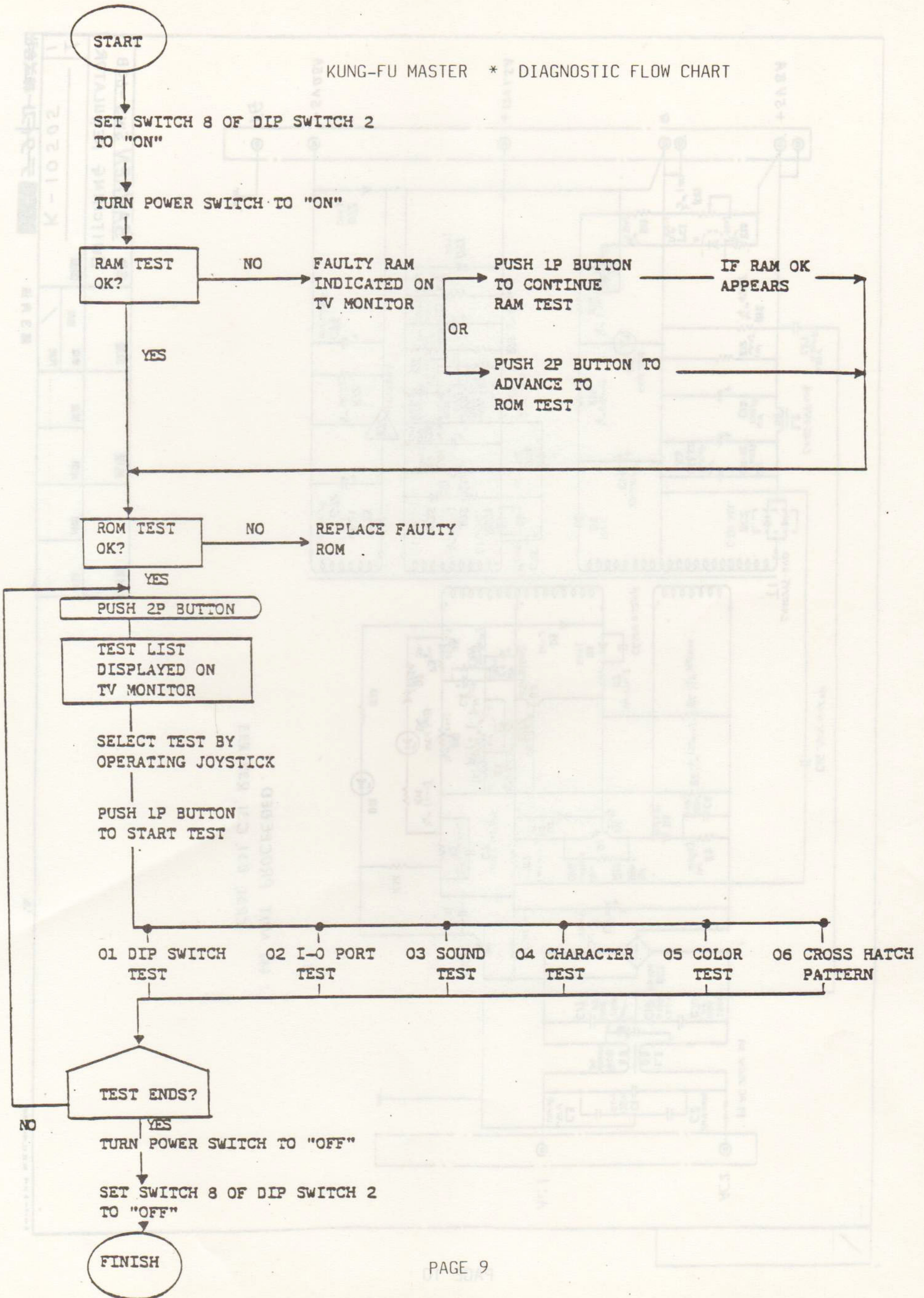


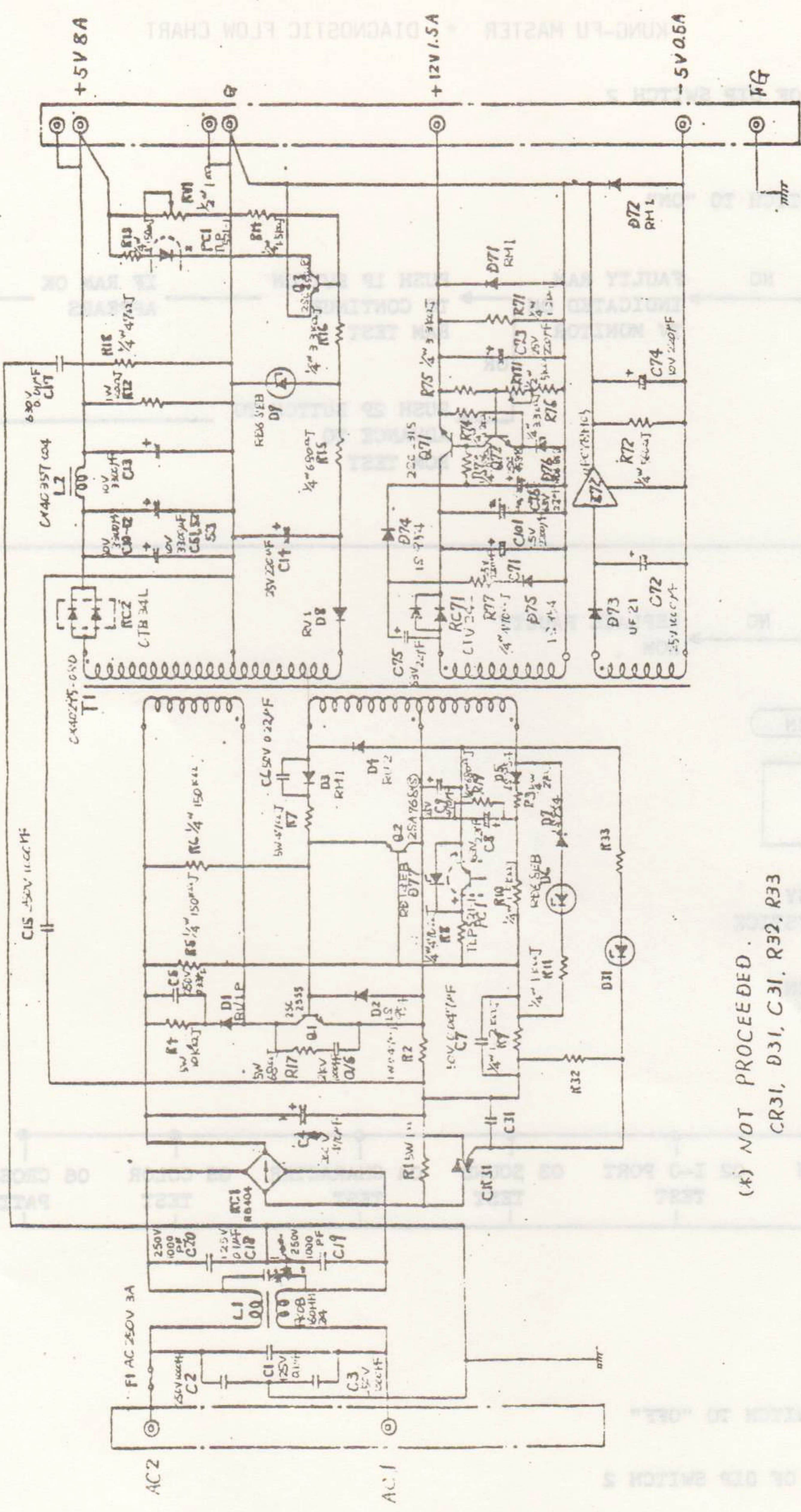
8. CROSS HATCH PATTERN TEST While the TV monitor displays the test list, control the joystick to position the cursor at 06 and press the 1-Player button.

A Cross Hatch Pattern is displayed as shown below.



KUNG-FU MASTER \* DIAGNOSTIC FLOW CHART



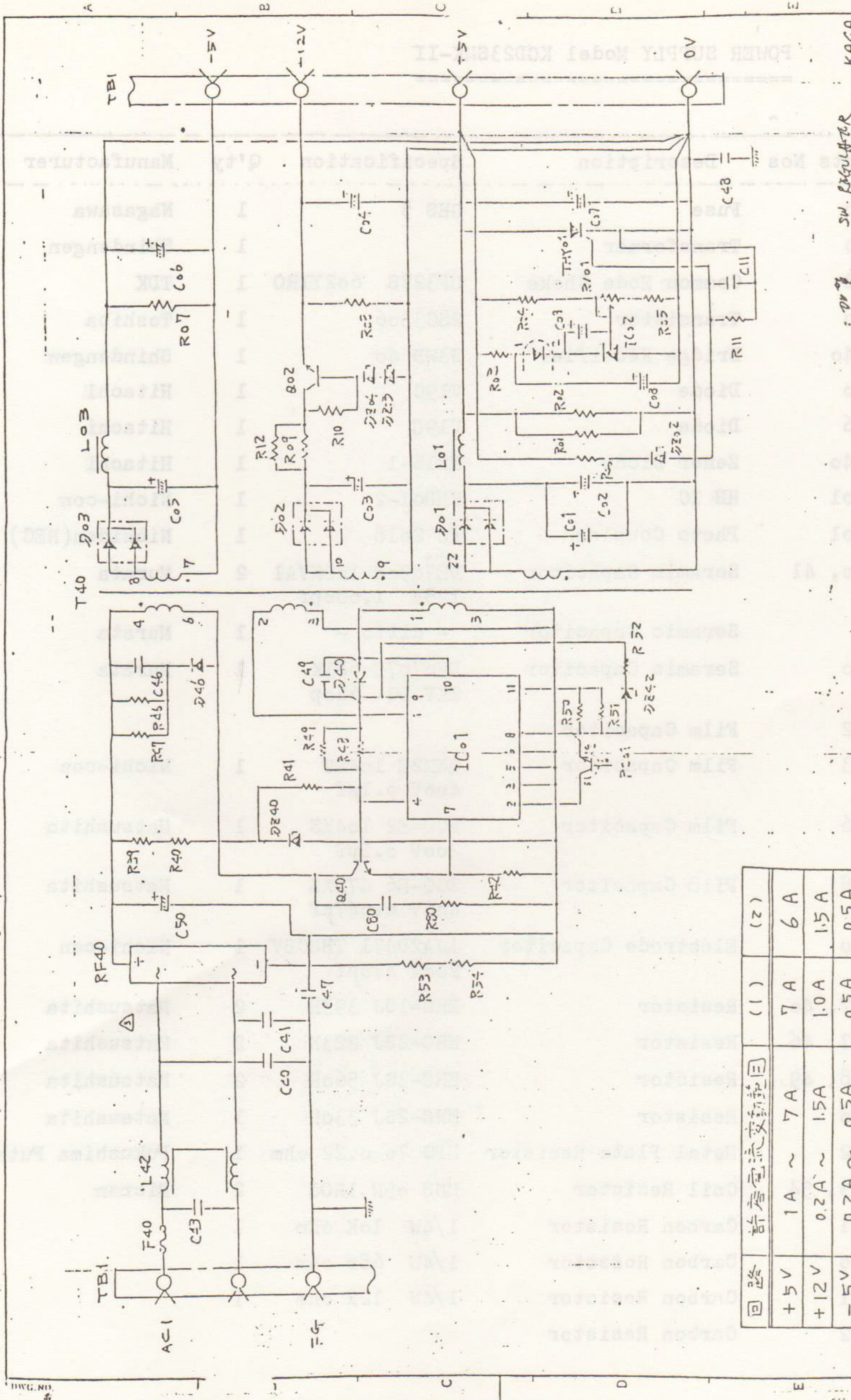


(\*) NOT PROCEEDED.  
 CR31, D31, C31, R32, R33

材質		処理		公差		名称	
寸法	単位	種類	寸法	種類	単位	寸法	図面
							SANKEN SWS-60B
							SWITCHING REGULATOR
							K-10505
							1
							1

第3角法

サンケン電子株式会社



APPRO. 承認		TITLE 名称	
DATE 日期	REVISION 修正	DATE 日期	REVISION 修正
DATE 日期	DESCRIPTION 說明	DATE 日期	REVISION 修正
DATE 日期	SCALE 比例	DATE 日期	REVISION 修正
DATE 日期	UNIT 單位	DATE 日期	REVISION 修正
SHINDENGEN ELECTRIC MFG. CO., LTD. 新電元工業株式会社			

回路	許容電流(安培)	(1)	(2)
+5V	1A ~ 7A	7A	6A
+12V	0.2A ~ 1.5A	1.0A	1.5A
-5V	0.2A ~ 0.5A	0.5A	0.5A

但し出力容量は Total 2" 50W

C49は実装されない。

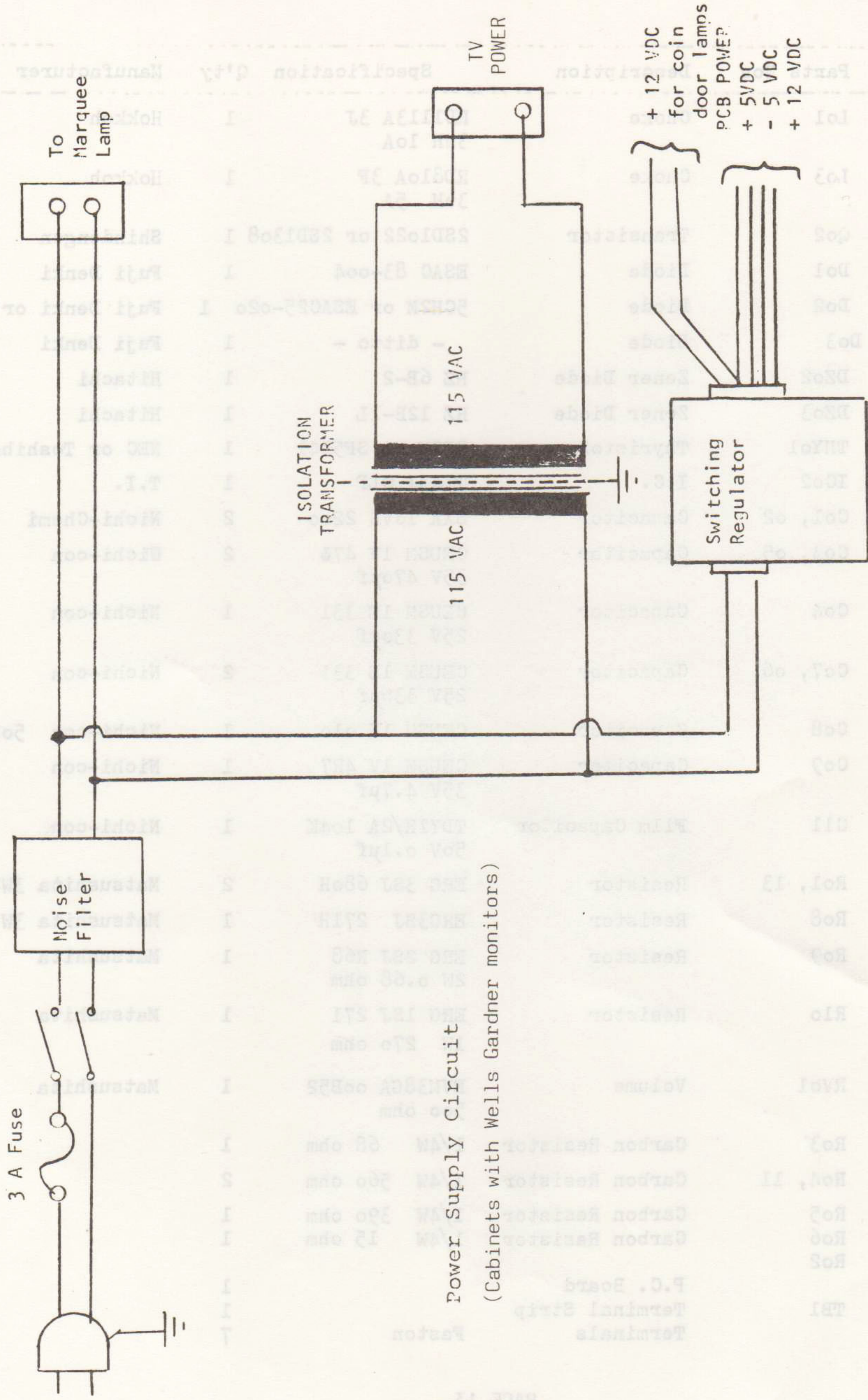
POWER SUPPLY Model KGD23SMK-II

=====

Item	Parts Nos	Description	Specification	Q'ty	Manufacturer
1.	F4o	Fuse	GHS 5	1	Nagasawa
2.	T4o	Transformer		1	Shindengen
3.	L42	Common Mode Choke	UF327S 6o2YIRO	1	TDK
4.	Q4o	Transistor	2SC33o6	1	Toshiba
5.	RF4o	Bridge Rectifier	S3WB 4o	1	Shindengen
6.	D4o	Diode	V19C	1	Hitachi
7.	D46	Diode	V19G	1	Hitachi
8.	DZ4o	Zener Diode	HZ16-1	1	Hitachi
9.	ICo1	HB IC	RHDol-2	1	Nichi-con
1o.	PCo1	Photo Coupler	PS 2o18	1	Nichiden(NEC)
11.	C4o, 41	Seramic Capacitor	DE7o9oB 1o2KVA1 125V 1,ooopf	2	Murata
12.	C47	Seramic Capacitor	- ditto -	1	Murata
13.	C8o	Seramic Capacitor	DEo7o7B 681K 2KV DC 68op	1	Murata
14.	C42	Film Capacitor			
15	C43	Film Capacitor	QXM2G 1o4KT 4ooV o.1µf	1	Nichi-con
16.	C46	Film Capacitor	ECQ-E2 1o4KS 2ooV o.1µf	1	Matsushita
17.	C48	Film Capacitor	ECQ-E6 473KZ 4ooV o.o47µf	1	Matsushita
18.	C5o	Electrode Capacitor	LJA2D471 THSCBV 2ooV 47opf	1	Nichi-con
19.	R37, 4o	Resistor	ERG-1SJ 393H	2	Matsushita
2o.	R47, 46	Resistor	ERG-2SJ 223H	2	Matsushita
21.	R48, 49	Resistor	ERG-3SJ 56oH	2	Matsushita
22.	R8o	Resistor	ERG-2SJ 33oH	1	Matsushita
23.	R42	Metal Plate Resistor	MFC 7o o.22 ohm	1	Fukushima Futaba
24.	R53, 54	Coil Resistor	INS o5N 1ROJ	2	Micron
25.	R41	Carbon Resistor	1/4W 1oK ohm	1	
26.	R5o	Carbon Resistor	1/4W 68o ohm	1	
27.	R51	Carbon Resistor	1/4W 12K ohm	1	
28.	R52	Carbon Resistor			

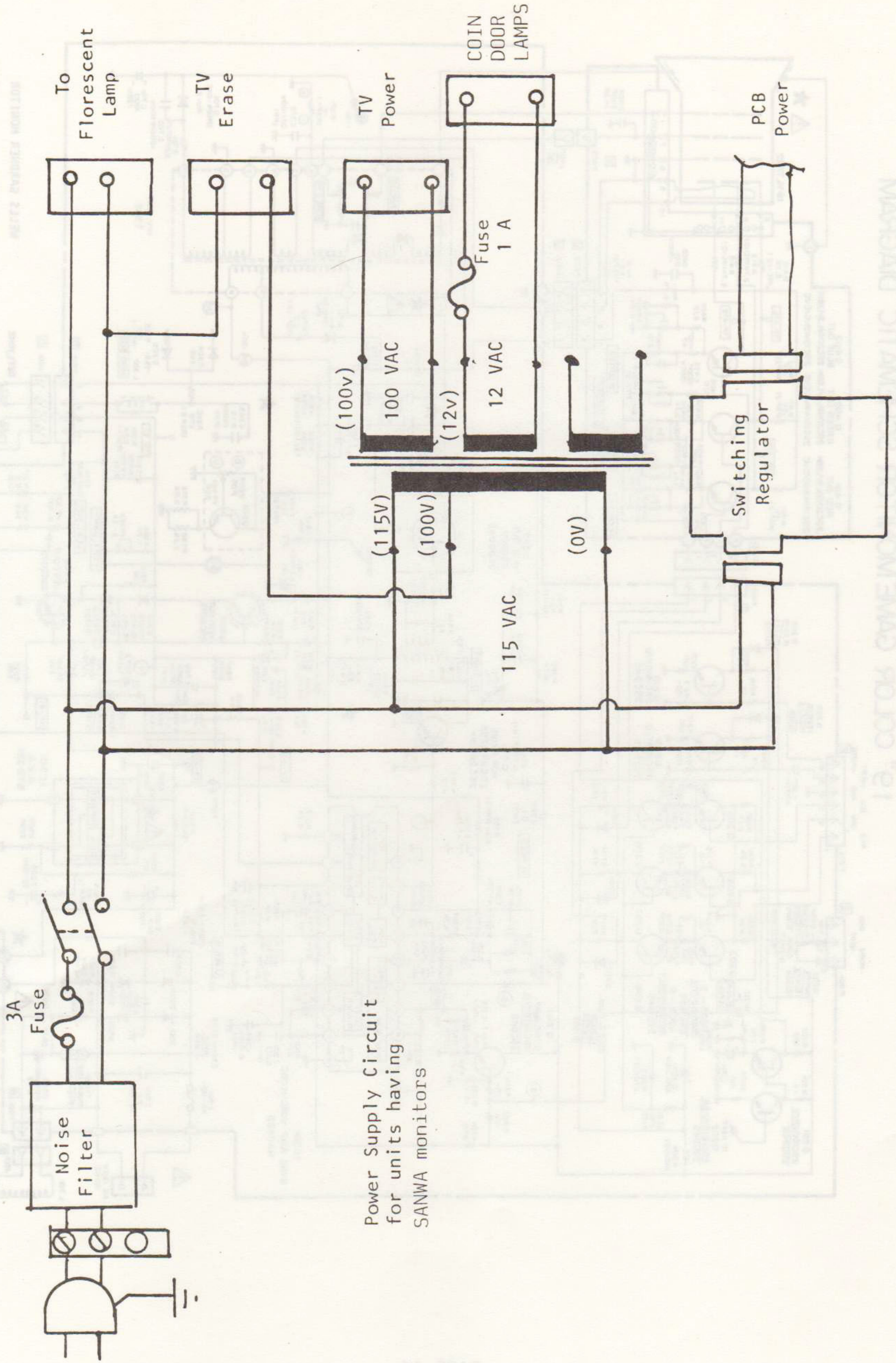
Item	Parts Nos	Description	Specification	Q'ty	Manufacturer
29.	Lo1	Choke	RD1113A 3J 3uH 10A	1	Hokkoh
30.	Lo3	Choke	RD310A 3F 3uH 5A	1	Hokkoh
31.	Qo2	Transistor	2SD1022 or 2SD1308	1	Shindengen
32.	Do1	Diode	ESAC 83-004	1	Fuji Denki
33.	Do2	Diode	5CH2M or ESAC25-020	1	Fuji Denki or NEC
34.	Do3	Diode	- ditto -	1	Fuji Denki
35.	DZo2	Zener Diode	HZ 6B-2	1	Hitachi
36.	DZo3	Zener Diode	HZ 12B-1L	1	Hitachi
37.	THYo1	Thyristor	5PIM or SF5B41	1	NEC or Toshiba
38.	ICo2	I.C.	TL431 CLP	1	T.I.
39.	Co1, o2	Capacitor	SXA 16VB 2200	2	Nichi-Chemi
40.	Co3, o5	Capacitor	CEUSM 1V 47u 35V 470uf	2	Nichi-con
41.	Co4	Capacitor	CEUSM 1E 331 25V 330uf	1	Nichi-con
42.	Co7, o6	Capacitor	CEUSM 1E 331 25V 330uf	2	Nichi-con
43.	Co8	Capacitor	CEUSM 1H o10	1	Nichi-con 50V 1uf
44.	Co9	Capacitor	CEUSM 1V 4R7 35V 4.7uf	1	Nichi-con
45.	Cl1	Film Capacitor	TDY1H/2A 104K 50V 0.1uf	1	Nichi-con
46.	Ro1, 13	Resistor	ERG 3SJ 680H	2	Matsushita 3W 68Ω
47.	Ro8	Resistor	ERG3SJ 271H	1	Matsushita 3W 270Ω
48.	Ro9	Resistor	ERG 2SJ R68 2W 0.68 ohm	1	Matsushita
49.	R10	Resistor	ERG 1SJ 271 1W 270 ohm	1	Matsushita
50.	RVo1	Volume	EVM38GA 00B52 500 ohm	1	Matsushita
51.	Ro3	Carbon Resistor	1/4W 68 ohm	1	
52.	Ro4, 11	Carbon Resistor	1/4W 560 ohm	2	
53.	Ro5	Carbon Resistor	1/4W 390 ohm	1	
54.	Ro6	Carbon Resistor	1/4W 15 ohm	1	
55.	Ro2				
56.		P.C. Board		1	
57.	TB1	Terminal Strip		1	
58.		Terminals	Faston	7	





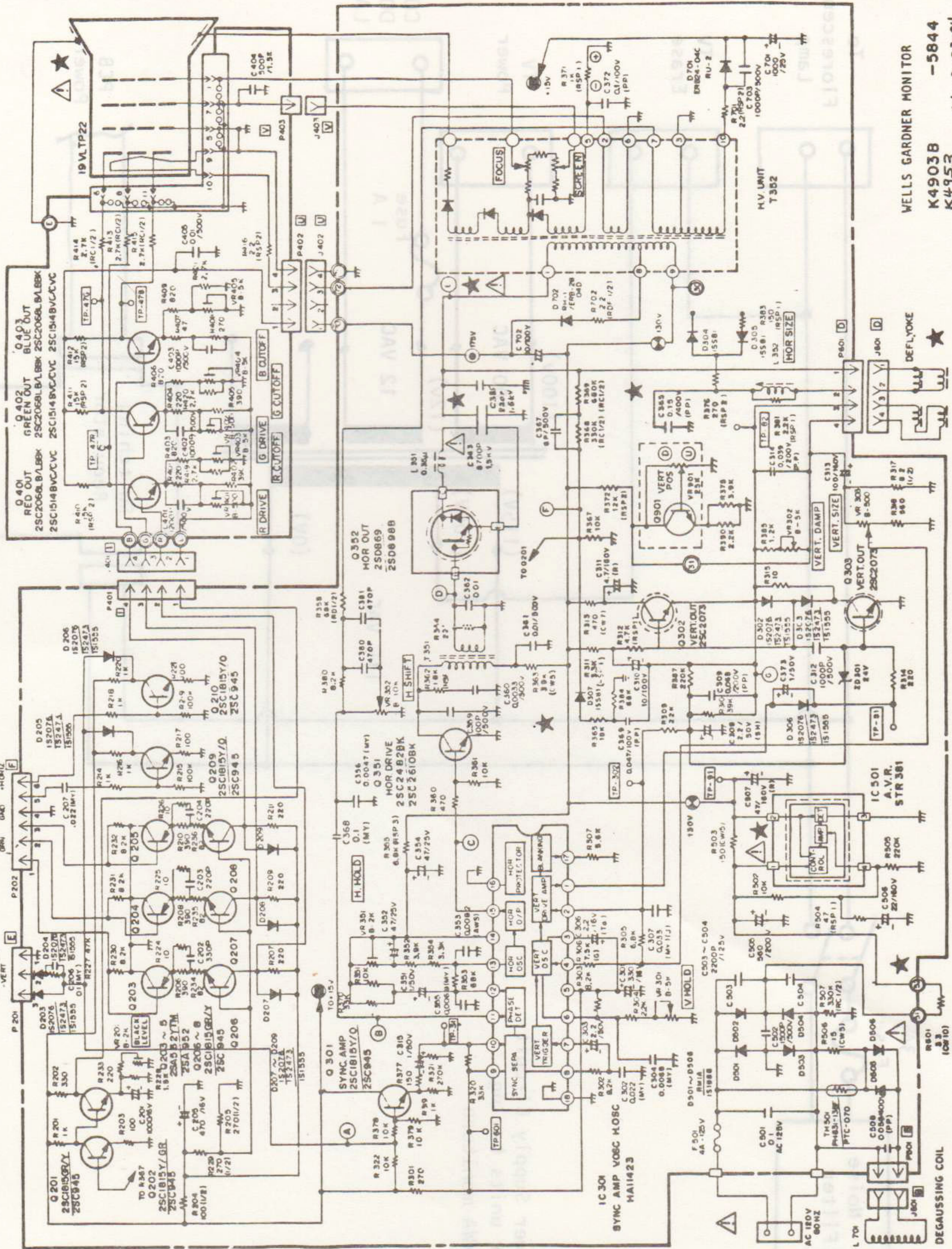
Power Supply Circuit  
(Cabinets with Wells Gardner monitors)

44-23  
448039  
-2044  
RECEIVED BY THE WORLD

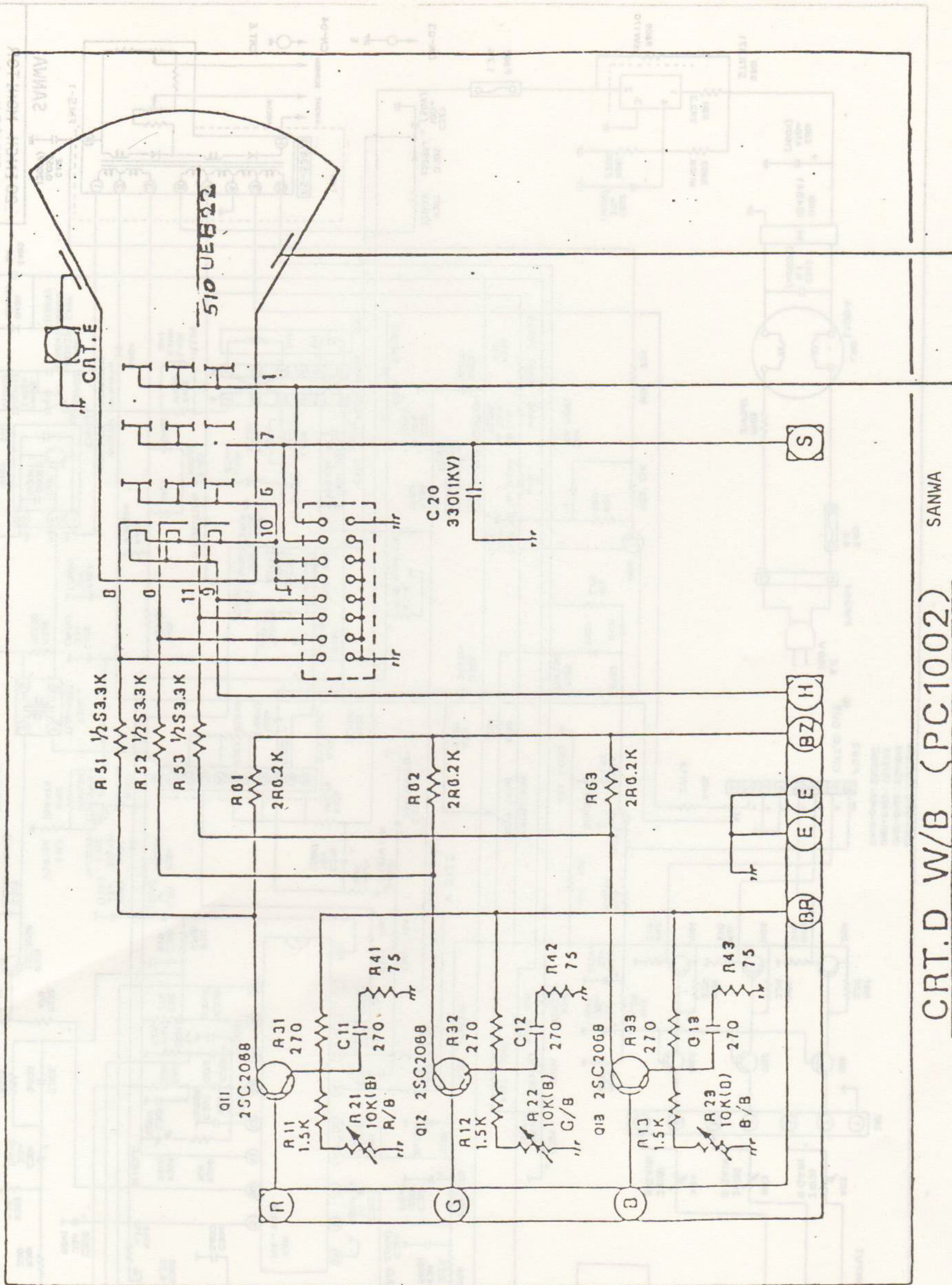


Power Supply Circuit  
for units having  
SANWA monitors

# 19" COLOR GAME MONITOR SCHEMATIC DIAGRAM

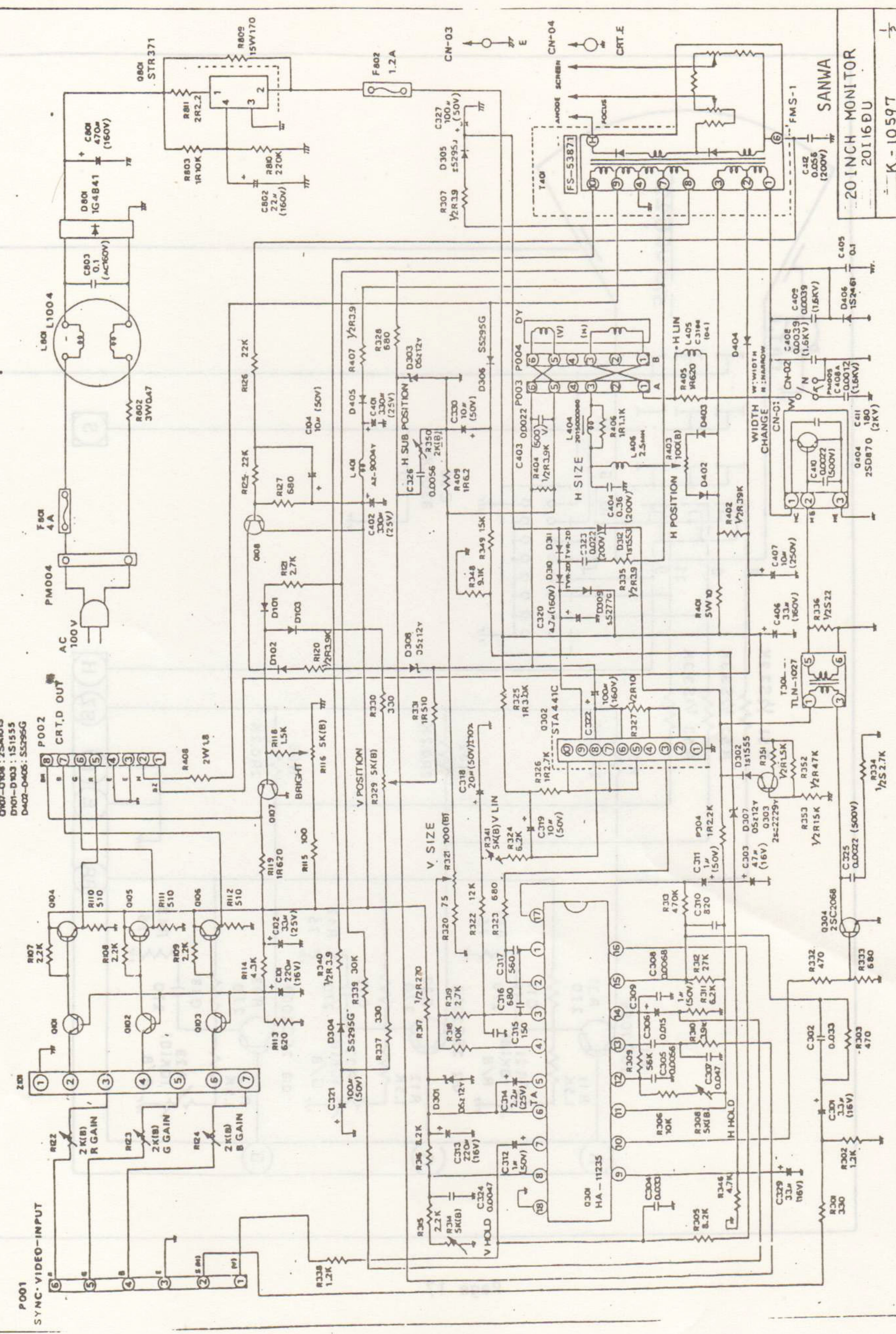


WELLS GARDNER MONITOR  
 K4903B  
 K4953  
 -5844  
 M.L. 2-23-84

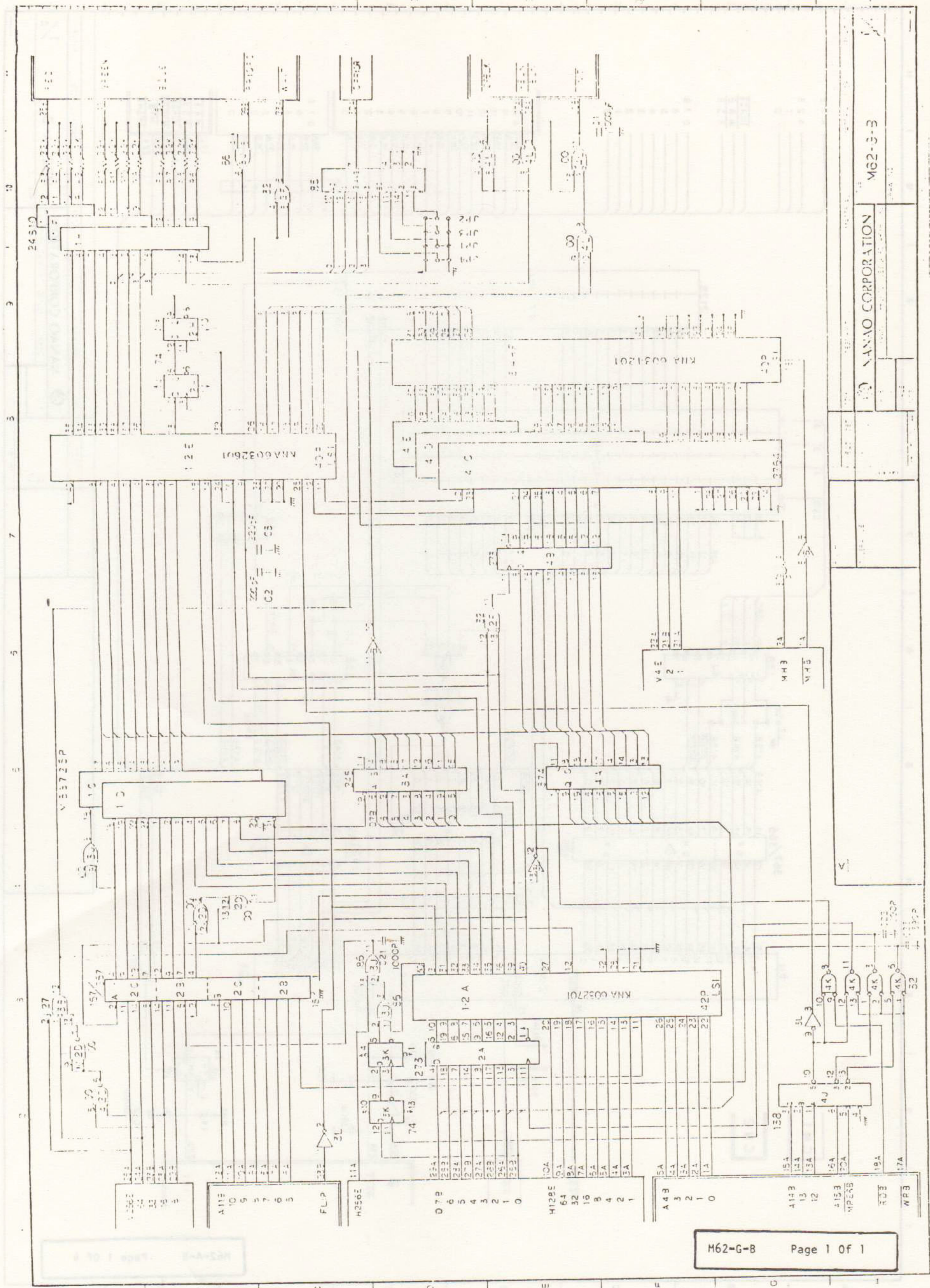


CHLD M/B (6C1005)

- Q101-Q106 : 75C1615
- Q107-Q108 : 2SA1015
- D101-D103 : 1S1555
- D402-D405 : 55Z95G

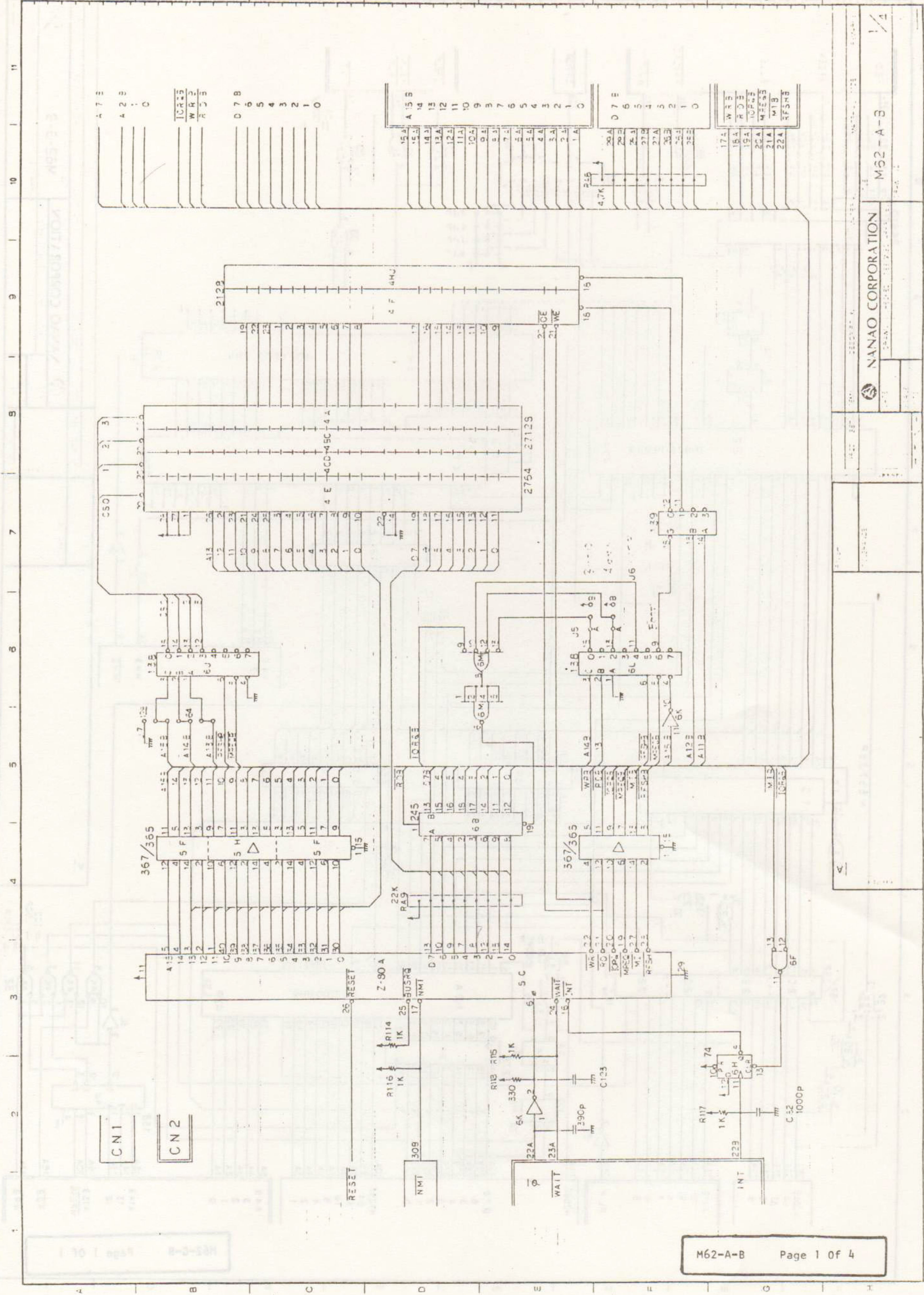


20 INCH MONITOR  
20I16DU  
K-10597



M62-3-B

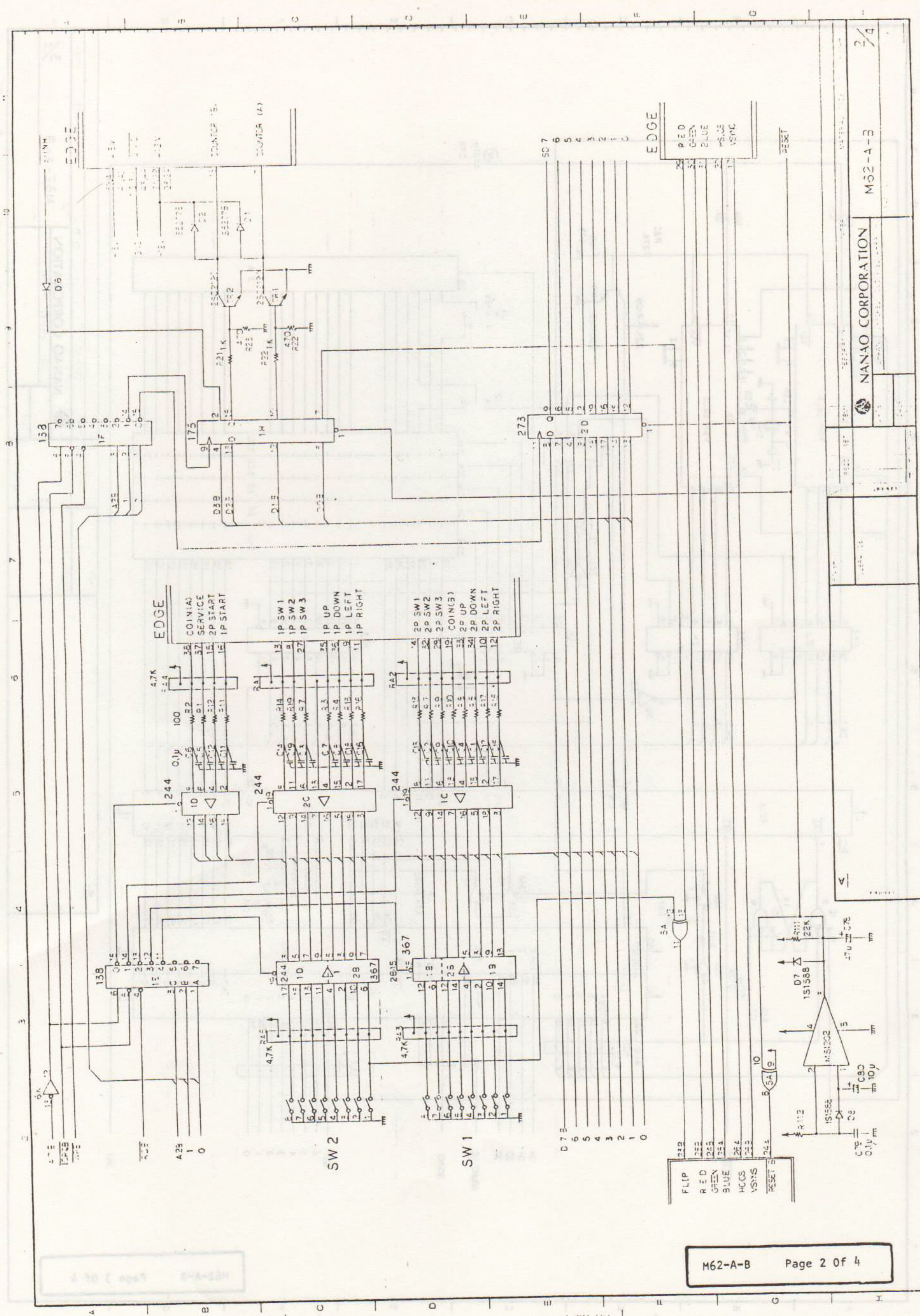
NANO CORPORATION



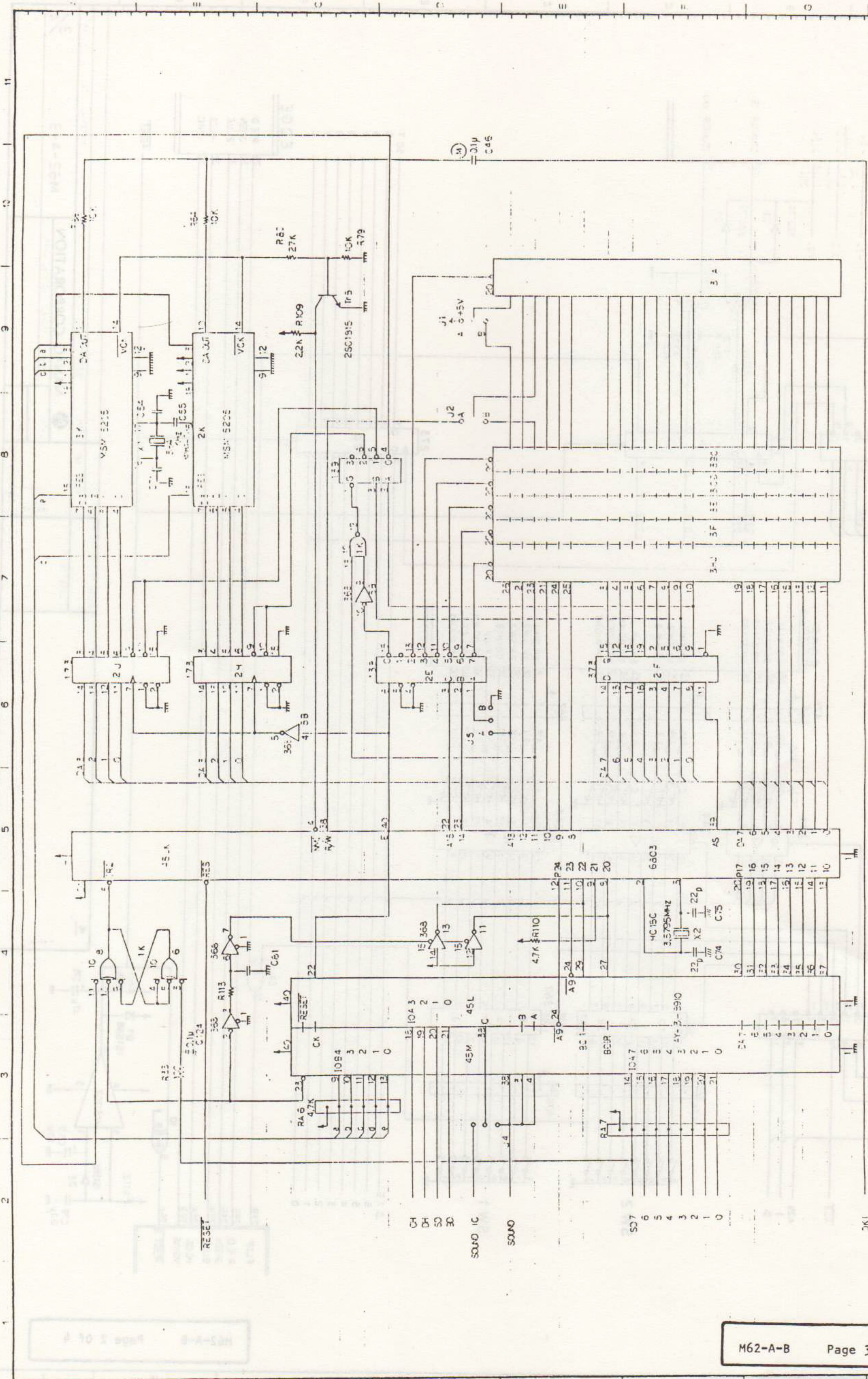
NANAO CORPORATION

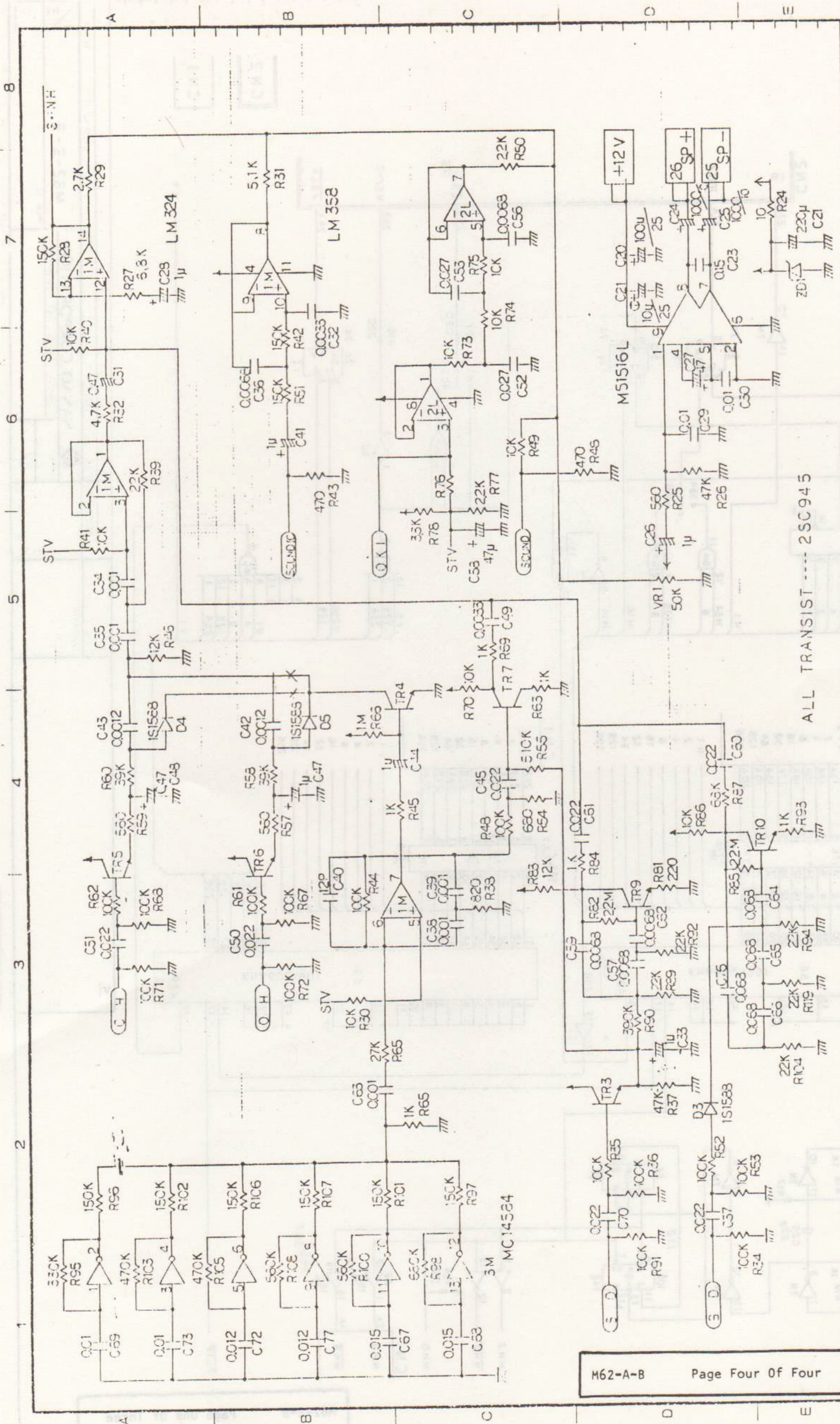
M62-A-B

1/4







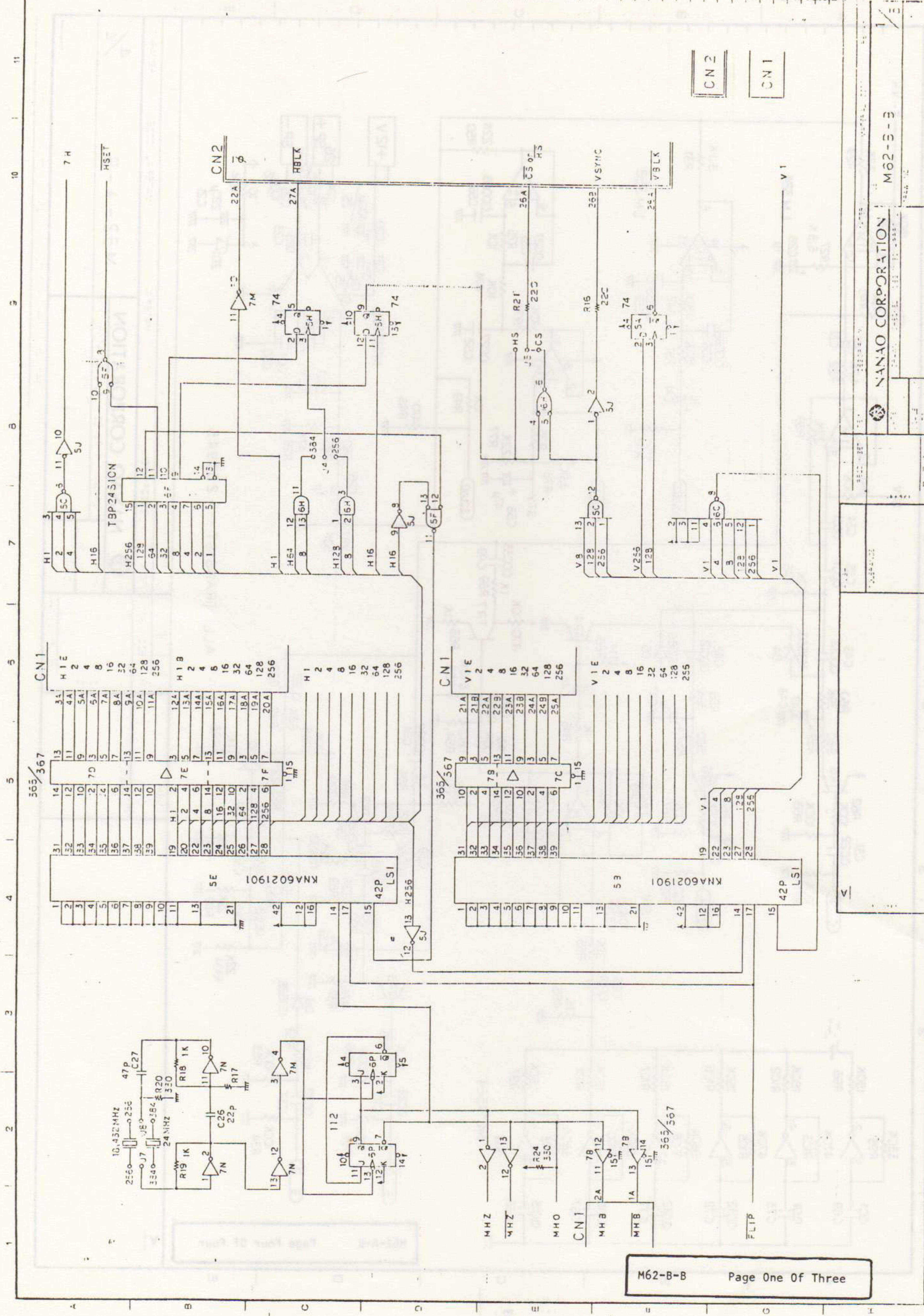


ALL TRANSIST - - - - 2SC945

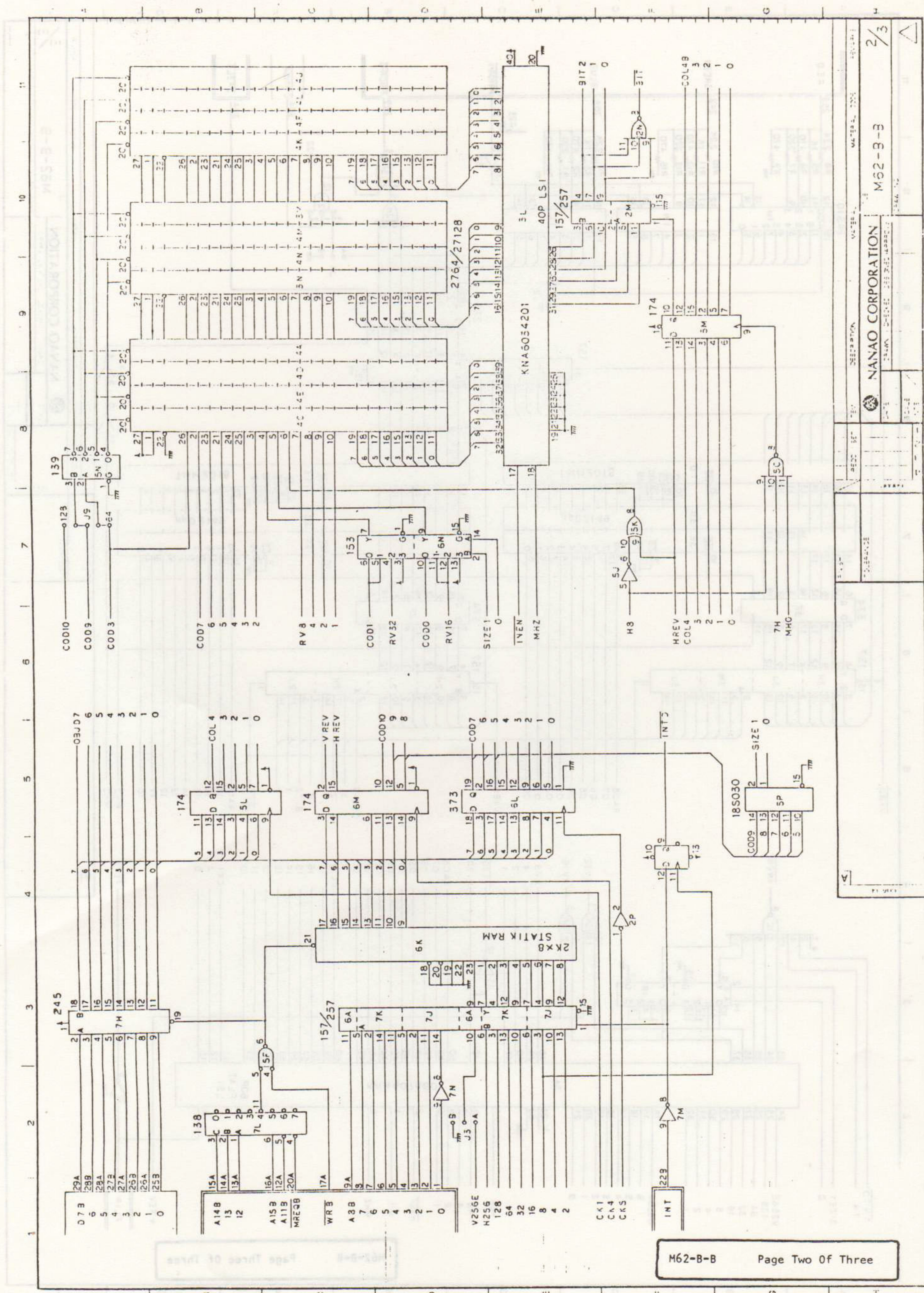
M62-A-B

NANAO CORPORATION

REV.	DESCRIPTION	DATE	DESIGNED BY	APPROVED BY
1				
2				
3				
4				
5				
6				
7				
8				



NANO CORPORATION  
 M62-B-B  
 1/3



M52-B-B

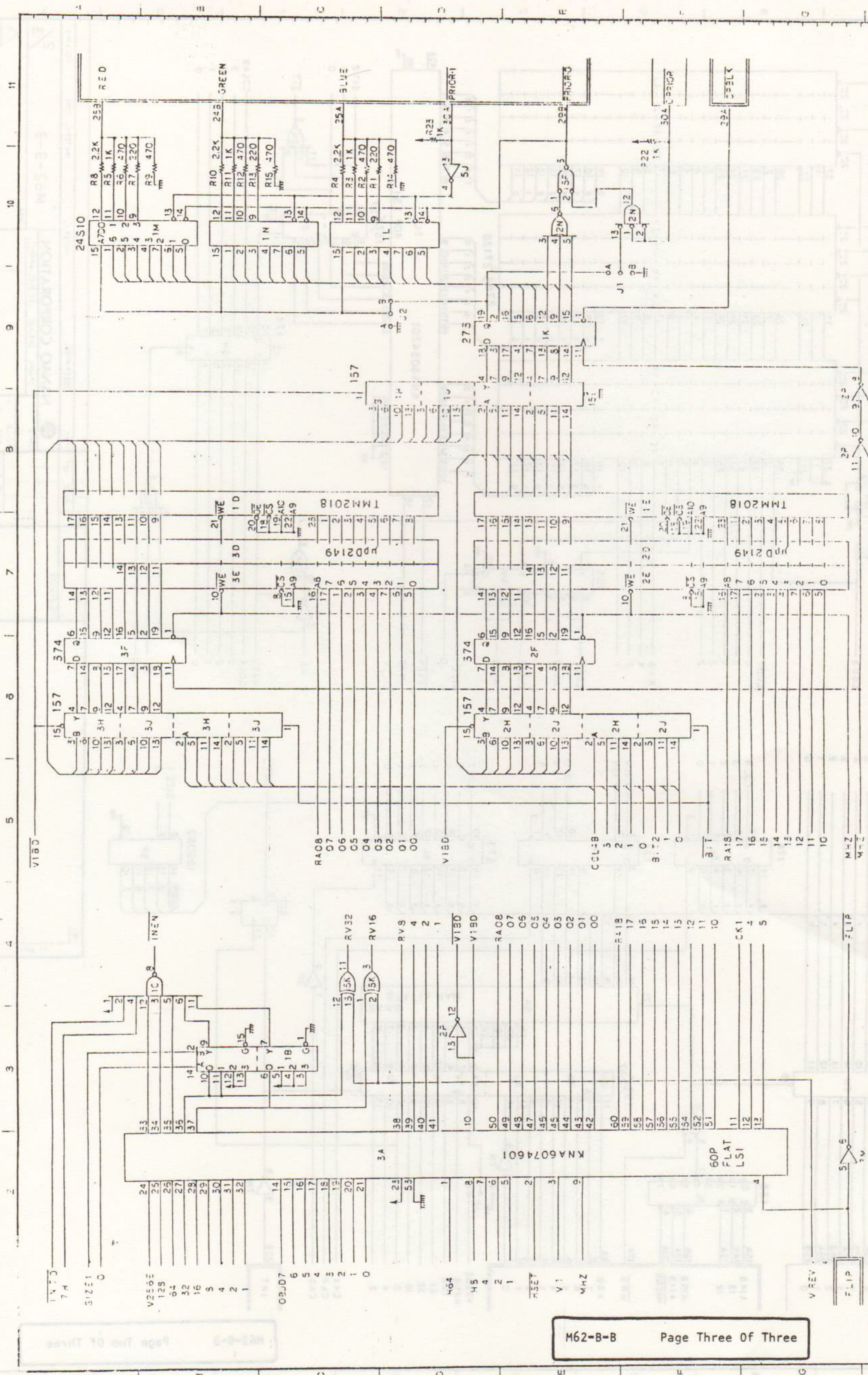
NANO CORPORATION

2/3

M52-B-B

NANO CORPORATION

DRAWN: [Name] CHECKED: [Name] DATE: [Date]



NANO CORPORATION

M62-B-B

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DESCRIPTION

RESISTORS

R1	Carbon	470 ohm J 1/4W 5%
R2	"	220 ohm J 1/4W 5%
R3	"	2.2K ohm J 1/4W 5%
R4	"	1K ohm J 1/4W 5%
R5	"	470 ohm J 1/4W 5%
R6	"	220 ohm J 1/4W 5%
R7	"	1K ohm J 1/4W 5%
R8	"	2.2K ohm J 1/4W 5%
R9	"	220 ohm J 1/4W 5%
R10	"	470 ohm J 1/4W 5%
R11	"	1K ohm J 1/4W 5%
R12	"	2.2K ohm J 1/4W 5%

SYMBOL NO.



Parts List

DISCRPTION

2B	TTL-IC	74LS157N
2C	"	"
2D	"	74LS00N
2F	"	74LS32N
2H	"	74LS74AN
2J	"	74LS85N
3A	"	74LS245N
3B	"	74LS27N
3J	"	74LS86N
3K	"	74LS74AN
3L	"	74LS04N
4A	"	74LS374N
4B	"	74LS273N
4J	"	74LS138N
4K	"	74LS32N
4L	"	74LS00N
2A	"	74LS273N

S-RAM N58725P or 林多

1 2A	CUSTOM-LSI	KNA6032701
1 2E	"	KNA6032601
3 4FH	"	KNA6034201

NO.

DATE

FILE

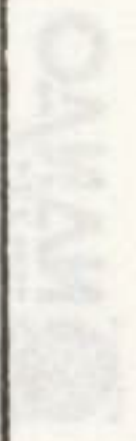
M62-G

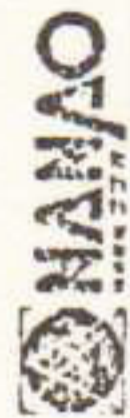
NANAO CORP. ST. TYPE KA03-2

CHANGE

REVISION

4 11





SYMBOL NO.	DISCRPTION
CN1	CONNECTOR XG3A-6014
CN2	" "
	Assy CONNECTOR (OJ40418A3) (2)
1F	IC-SOCKET IC-02T-1603S4 (16P)
1H	" "
1J	" "
4C	IC-02T-2806S4 (28P)
4D	" "
4E	" "
	PCB M62-G-A

NANAO CORP. ST.  
TYPE K404-S

SYMBOL NO.	DESCRIPTION
	CAPACITORS
C1	Ceramic B 1000 pf K 50V
C2	Ceramic SL 220 pf J 50V
C3	" SL 220 pf J 50V
C4	Ceramic BC 0.1 uf Z 12V or 16V
C5	" 0.1 uf Z 12V or 16V
C6	" 0.1 uf Z 12V or 16V
C7	" 0.1 uf Z 12V or 16V
C8	" 0.1 uf Z 12V or 16V
C9	" 0.1 uf Z 12V or 16V
C10	" 0.1 uf Z 12V or 16V
C11	" 0.1 uf Z 12V or 16V
C12	" 0.1 uf Z 12V or 16V
C13	" 0.1 uf Z 12V or 16V
C14	" 0.1 uf Z 12V or 16V
C15	" 0.1 uf Z 12V or 16V
C16	" 0.1 uf Z 12V or 16V
C17	" 0.1 uf Z 12V or 16V
C18	" 0.1 uf Z 12V or 16V
C19	" 0.1 uf Z 12V or 16V
C20	" 0.1 uf Z 12V or 16V
C21	Ceramic B 1000 pf K 50V
C22	" SL 390 pf J 50V
C23	" SL 390 pf J 50V
	0.1 uf Z 12V or 16V IC 0.1 uf Z 25V 3 追加部品

△ △ △

NANAO CORP. ST.  
TYPE K404-S

△ 34-11-16 300  
△ 34-11-17 300



TITLE		NO.	DATE
M62-A Parts List			
SYMBOL NO.	DESCRIPTION		
1B	TTL-IC	74LS367N	
1C	"	74LS244N	
1D	"	"	
1E	"	74LS138N	
1F	"	"	
1H	"	74LS175N	
1J	"	74LS139N	
1K	"	74LS10N	
2B	"	74LS367N	
2C	"	74LS244N	
2D	"	74LS273N	
2E	"	74LS138N	
2F	"	74LS373N	
2H	"	74LS173N	
2J	"	"	
5A	"	74LS86N	
5B	"	74LS368N	
5E	"	74LS365N/74LS367N	
5F	"	"	
5H	"	"	
6B	"	74LS245N	
6E	"	74LS365N/74LS367N	
6F	"	74LS32N	
6H	"	74LS74N	
6J	"	74LS138N	
6K	"	74LS04N	
6L	"	74LS138N	
6M	"	74LS20N	



SYMBOL NO.	DESCRIPTION		
4F	S-RAM	M58725P	
4H	"	"	
4K	CPU	6803	
5D	"	Z80A/D730C-1	
4L	SOUND-G	AY-3-8910	
4M	"	"	
2K	SOUND-SYMC	MSM5205	
3K	"	"	
1M	LINEAR-IC	LM324	
2L	"	LM358	
	COMPARATOR	M51202	
3M	C-MOS-IC	TC4584	
1L	POWER-AMP	M51516L	

M62-G  
Parts List Page One Of Thirteen

NANO CORR. ST  
TYPE K001-S

29  
NANO CORR. ST  
TYPE K001-S







SYMBOL NO.	DESCRIPTION
	RESISTORS
R1	Carbon 100 ohm J ±W 5% (UB)
R2	" 100 ohm J ±W 5% (UB)
R3	" 100 ohm J ±W 5% (UB)
R4	" 100 ohm J ±W 5% (UB)
R5	" 100 ohm J ±W 5% (UB)
R6	" 100 ohm J ±W 5% (UB)
R7	" 100 ohm J ±W 5% (UB)
R8	" 100 ohm J ±W 5% (UB)
R9	" 100 ohm J ±W 5% (UB)
R10	" 100 ohm J ±W 5% (UB)
R11	" 100 ohm J ±W 5% (UB)
R12	" 100 ohm J ±W 5% (UB)
R13	" 100 ohm J ±W 5% (UB)
R14	" 100 ohm J ±W 5% (UB)
R15	" 100 ohm J ±W 5% (UB)
R16	" 100 ohm J ±W 5% (UB)
R17	" 100 ohm J ±W 5% (UB)
R18	" 100 ohm J ±W 5% (UB)
R19	" 100 ohm J ±W 5% (UB)
R20	" 1K ohm J ±W 5% (UB)
R21	" 1K ohm J ±W 5% (UB)
R22	" 470 ohm J ±W 5% (UB)
R23	" 470 ohm J ±W 5% (UB)
R24	" 10 ohm J ±W 5% (UB)
R25	" 560 ohm J ±W 5% (UB)
R26	" 4.7K ohm J ±W 5% (UB)
R27	" 6.8K ohm J ±W 5% (UB)
R28	" 150K ohm J ±W 5% (UB)
R29	" 2.7K ohm J ±W 5% (UB)
R30	" 10K ohm J ±W 5% (UB)
R31	" 5.1K ohm J ±W 5% (UB)
R32	" 4.7K ohm J ±W 5% (UB)
R33	" 100 ohm J ±W 5% (UB)

3-1-13

3-1-13

3-1-13

SYMBOL NO.	DESCRIPTION
R34	Carbon 100K ohm J ±W 5% (UB)
R35	" 100K ohm J ±W 5% (UB)
R36	" 100K ohm J ±W 5% (UB)
R37	" 47K ohm J ±W 5% (UB)
R38	" 820 ohm J ±W 5% (UB)
R39	" 22K ohm J ±W 5% (UB)
R40	" 10K ohm J ±W 5% (UB)
R41	" 10K ohm J ±W 5% (UB)
R42	" 150K ohm J ±W 5% (UB)
R43	" 470 ohm J ±W 5% (UB)
R44	" 100K ohm J ±W 5% (UB)
R45	" 1K ohm J ±W 5% (UB)
R46	" 12K ohm J ±W 5% (UB)
R47	" 100K ohm J ±W 5% (UB)
R48	" 470 ohm J ±W 5% (UB)
R49	" 10K ohm J ±W 5% (UB)
R50	" 2.2K ohm J ±W 5% (UB)
R51	" 150K ohm J ±W 5% (UB)
R52	" 100K ohm J ±W 5% (UB)
R53	" 100K ohm J ±W 5% (UB)
R54	" 680 ohm J ±W 5% (UB)
R55	" 510K ohm J ±W 5% (UB)
R56	Carbon
R57	" 560 ohm J ±W 5% (UB)
R58	" 39K ohm J ±W 5% (UB)
R59	" 560 ohm J ±W 5% (UB)
R60	" 39K ohm J ±W 5% (UB)
R61	" 100K ohm J ±W 5% (UB)
R62	" 100K ohm J ±W 5% (UB)
R63	" 1K ohm J ±W 5% (UB)
R64	" 10K ohm J ±W 5% (UB)
R65	" 27K ohm J ±W 5% (UB)
R66	" 1M ohm J ±W 5% (UB)
R67	" 100K ohm J ±W 5% (UB)
R68	" 100K ohm J ±W 5% (UB)

3-1-13

3-1-13

M62-A  
Parts List Page Three Of Thirteen

3-1-13



SYMBOL NO.	DESCRIPTION	
R69	Carbon	1K ohm J ±W 5% (UB) ○
R70	"	10K ohm J ±W 5% (UB) ○
R71	"	100K ohm J ±W 5% (UB) ○
R72	"	100K ohm J ±W 5% (UB) ○
R73	"	10K ohm J ±W 5% (UB) ○
R74	"	10K ohm J ±W 5% (UB) ○
R75	"	10K ohm J ±W 5% (UB) ○
R76	"	47K ohm J ±W 5% (UB) ○
R77	"	2.2K ohm J ±W 5% (UB) ○
R78	"	3.3K ohm J ±W 5% (UB) ○
R79	"	10K ohm J ±W 5% (UB) ○
R80	"	27K ohm J ±W 5% (UB) ○
R81	"	220 ohm J ±W 5% (UB) ○
R82	"	2.2M ohm J ±W 5% (UB) ○
R83	"	12K ohm J ±W 5% (UB) ○
R84	"	1K ohm J ±W 5% (UB) ○
R85	"	2.2M ohm J ±W 5% (UB) ○
R86	"	10K ohm J ±W 5% (UB) ○
R87	"	68K ohm J ±W 5% (UB) ○
R88	"	10K ohm J ±W 5% (UB) ○
R89	"	22K ohm J ±W 5% (UB) ○
R90	"	390K ohm J ±W 5% (UB) ○
R91	"	100K ohm J ±W 5% (UB) ○
R92	"	22K ohm J ±W 5% (UB) ○
R93	"	1K ohm J ±W 5% (UB) ○
R94	"	22K ohm J ±W 5% (UB) ○
R95	"	330K ohm J ±W 5% (UB) ○
R96	"	150K ohm J ±W 5% (UB) ○
R97	"	150K ohm J ±W 5% (UB) ○
R98	"	680K ohm J ±W 5% (UB) ○
R99	"	1K ohm J ±W 5% (UB) ○
R100	"	560K ohm J ±W 5% (UB) ○
R101	"	150K ohm J ±W 5% (UB) ○
R102	"	150K ohm J ±W 5% (UB) ○
R103	"	470K ohm J ±W 5% (UB) ○



SYMBOL NO.	DESCRIPTION	
R104	Carbon	22K ohm J ±W 5% (UB) ○
R105	"	470K ohm J ±W 5% (UB) ○
R106	"	150K ohm J ±W 5% (UB) ○
R107	"	150K ohm J ±W 5% (UB) ○
R108	"	560K ohm J ±W 5% (UB) ○
R109	"	2.2K ohm J ±W 5% (UB) ○
R110	"	4.7K ohm J ±W 5% (UB) ○
R111	"	22K ohm J ±W 5% (UB) ○
R112	"	1K ohm J ±W 5% (UB) ○
R113	"	100 ohm J ±W 5% (UB) ○
R114	"	1K ohm J ±W 5% (UB) ○
R115	"	1K ohm J ±W 5% (UB) ○
R116	"	1K ohm J ±W 5% (UB) ○
R117	"	1K ohm J ±W 5% (UB) ○
R118	"	330 ohm J ±W 5% (UB) ○
R119	"	22K ohm J ±W 5% (UB) ○
RA1	Block	IHR-8-472JA
RA2	"	IHR-8-472JA
RA3	"	IHR-8-472JA
RA4	"	IHR-8-472JA
RA5	"	IHR-8-472JA
RA6	"	IHR-8-472JA
RA7	"	IHR-8-472JA
RA8	"	IHR-8-472JA
RA9	"	IHR-8-223JA
VR1	Semi-Fixed	VE103KSL <sub>2</sub> B-50K ohm



SYMBOL NO.	DESCRIPTION
	CAPACITORS
C1	Ceramic BC 0.1 uf Z 12V or 16V
C2	" 0.1 uf Z 12V or 16V
C3	" 0.1 uf Z 12V or 16V
C4	" 0.1 uf Z 12V or 16V
C5	" 0.1 uf Z 12V or 16V
C6	" 0.1 uf Z 12V or 16V
C7	" 0.1 uf Z 12V or 16V
C8	" 0.1 uf Z 12V or 16V
C9	" 0.1 uf Z 12V or 16V
C10	" 0.1 uf Z 12V or 16V
C11	" 0.1 uf Z 12V or 16V
C12	" 0.1 uf Z 12V or 16V
C13	" 0.1 uf Z 12V or 16V
C14	" 0.1 uf Z 12V or 16V
C15	" 0.1 uf Z 12V or 16V
C16	" 0.1 uf Z 12V or 16V
C17	" 0.1 uf Z 12V or 16V
C18	" 0.1 uf Z 12V or 16V
C19	" 0.1 uf Z 12V or 16V
C20	Electrolytic 100 uf M 25V
C21	Tantal 10 uf M 25V
C22	Electrolytic 220 uf M 16V
C23	Polyester 0.15 uf J 50V
C24	Electrolytic 1000 uf M 10V
C25	" 1000 uf M 10V
C26	" 1 uf M 50V
C27	" 47 uf M 16V
C28	" 1 uf M 50V
C29	Polyester 0.01 uf J 50V
C30	" 0.01 uf J 50V
C31	Electrolytic 0.47 uf M 50V
C32	Polyester 0.0033 uf J 50V
C33	Electrolytic 1 uf M 50V

NANA O CAP. ST  
TYPE 1401-S

SYMBOL NO.	DESCRIPTION
C34	Polyester 0.001 uf J 50V
C35	" 0.001 uf J 50V
C36	" 0.0068 uf J 50V
C37	" 0.022 uf J 50V
C38	" 0.001 uf J 50V
C39	" 0.001 uf J 50V
C40	Ceramic 12 pf J 50V
C41	Electrolytic 1 uf M 50V
C42	Polyester 0.0012 uf J 50V
C43	" 0.0012 uf J 50V
C44	Electrolytic 1 uf M 50V
C45	Polyester 0.022 uf J 50V
C46	" 0.1 uf J 50V
C47	Electrolytic 1 uf M 50V
C48	" 0.47 uf M 50V
C49	Polyester 0.0033 uf J 50V
C50	" 0.022 uf J 50V
C51	" 0.022 uf J 50V
C52	" 0.027 uf J 50V
C53	" 0.027 uf J 50V
C54	Ceramic 220 pf J 50V
C55	" 100 pf J 50V
C56	Polyester 0.0068 uf J 50V
C57	" 0.0068 uf J 50V
C58	Electrolytic 47 uf M 16V
C59	Polyester 0.0068 uf J 50V
C60	" 0.022 uf J 50V
C61	" 0.022 uf J 50V
C62	" 0.0068 uf J 50V
C63	" 0.001 uf J 50V
C64	" 0.068 uf J 50V
C65	" 0.068 uf J 50V
C66	" 0.068 uf J 50V
C67	" 0.015 uf J 50V
C68	" 0.015 uf J 50V

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Parts List Page Seven Of Thirteen

NANA O CAP. ST  
TYPE 1401-S



SYMBOL NO.	DESCRIPTION	
C69	Polyester 0.01 uf J 50V	○
C70	" 0.022 uf J 50V	○
C71	Ceramic 220 pf J 50V	○
C72	Polyester 0.012 uf J 50V	○
C73	" 0.01 uf J 50V	○
C74	Ceramic 22 pf J 50V	○
C75	" 22 pf J 50V	○
C76	Polyester 0.063 uf J 50V	○
C77	" 0.012 uf J 50V	○
C78	Electrolytic 47 uf M 16V	○
C79	Ceramic BC 0.1 uf Z 12V or 16V	○
C80	Electrolytic 10 uf M 16V	○
C81	Ceramic 0.01 uf J 50V	○
C82	" 1000 pf K 50V	○
C83	Ceramic BC 0.1 uf Z 12V or 16V	○
C84	" 0.1 uf Z 12V or 16V	○
C85	" 0.1 uf Z 12V or 16V	○
C86	" 0.1 uf Z 12V or 16V	○
C87	" 0.1 uf Z 12V or 16V	○
C88	" 0.1 uf Z 12V or 16V	○
C89	" 0.1 uf Z 12V or 16V	○
C90	" 0.1 uf Z 12V or 16V	○
C91	" 0.1 uf Z 12V or 16V	○
C92	" 0.1 uf Z 12V or 16V	○
C93	" 0.1 uf Z 12V or 16V	○
C94	" 0.1 uf Z 12V or 16V	○
C95	" 0.1 uf Z 12V or 16V	○
C96	" 0.1 uf Z 12V or 16V	○
C97	" 0.1 uf Z 12V or 16V	○
C98	" 0.1 uf Z 12V or 16V	○
C99	" 0.1 uf Z 12V or 16V	○
C100	" 0.1 uf Z 12V or 16V	○
C101	" 0.1 uf Z 12V or 16V	○
C102	" 0.1 uf Z 12V or 16V	○
C103	" 0.1 uf Z 12V or 16V	○



SYMBOL NO.	DESCRIPTION	
C104	Ceramic BC 0.1 uf Z 12V or 16V	○
C105	" 0.1 uf Z 12V or 16V	○
C106	" 0.1 uf Z 12V or 16V	○
C107	" 0.1 uf Z 12V or 16V	○
C108	" 0.1 uf Z 12V or 16V	○
C109	" 0.1 uf Z 12V or 16V	○
C110	" 0.1 uf Z 12V or 16V	○
C111	" 0.1 uf Z 12V or 16V	○
C112	" 0.1 uf Z 12V or 16V	○
C113	" 0.1 uf Z 12V or 16V	○
C114	" 0.1 uf Z 12V or 16V	○
C115	" 0.1 uf Z 12V or 16V	○
C116	" 0.1 uf Z 12V or 16V	○
C117	" 0.1 uf Z 12V or 16V	○
C118	" 0.1 uf Z 12V or 16V	○
C119	" 0.1 uf Z 12V or 16V	○
C120	" 0.1 uf Z 12V or 16V	○
C121	" 0.1 uf Z 12V or 16V	○
C122	" 0.1 uf Z 12V or 16V	○
C123	" 0.1 uf Z 12V or 16V	○
C124	Ceramic 0.01 uf Z 50V	○
	Ceramic BC 0.1 uf Z 12V or 16V	
	Ceramic 390 pf J 50V	

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Parts List Page Nine Of Thirteen

NANA/O CORR. ST.  
TYPE K404-S

△ 94 5 20 2/00  
△ 94 5 41 2/00



DESCRIPTION

SYMBOL NO.

X1 384 KHz  
 X2 3.579545 MHz

CN1 XG3A-6014  
 CN2 " XG3M-6001 (2)  
 XG3T-6004 (2)

J1 IMSA-9202B-1-3  
 J2 IMSA-9202-H  
 J3 IMSA-9202B-1-3  
 J4 IMSA-9202-H

J5 IMSA-9202B-1-3  
 J6 IMSA-9202-H  
 J7

HEART-SINK 5D00609 (DRAW NO.)

TAP-SCREW-2-P-BIND 3x8 (2)

PCB M62-A-B

NANO Corp. ST  
 Type F4M1-S

M62-A  
 Parts List Page Eleven Of Thirteen

REVISION NO.

DESCRIPTION

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DESCRIPTION

SYMBOL NO.

D1 S5277B  
 D2 " "  
 D3 1S1588  
 D4 " "  
 D5 " "  
 D6 " "  
 D7 " "  
 D8 " "

TR1 2SC2120  
 TR2 " "  
 TR3 2SC945  
 TR4 " "  
 TR5 " "  
 TR6 " "  
 TR7 " "  
 TR8 2SC1815  
 TR9 2SC945  
 TR10 " "

1A A6MS-8  
 2A " "

NANO Corp. ST  
 Type K1M-S

REVISION NO.

DESCRIPTION

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SYMBOL NO.	DESCRIPTION
3A	IC-SOCKET IC-02T-2806S4 (28P)
3B	" " " " " "
3D	" " " " " "
3E	" " " " " "
3F	" " " " " "
3H	" " " " " "
4A	" " " " " "
4B	" " " " " "
4D	" " " " " "
4E	" " " " " "
4K	" " C-641268-3 (40P)
4L	" " " " " "
4M	" " " " " "
5D	" " " " " "

NANO COMP S1  
TYPE 1404-S





TITLE		NO	
M62-B		Parts List	
DATE			
SYMBOL NO.	DESCRIPTION		
1B	TTL-IC	74LS153N	
1C	"	74LS30N	
1H	"	74LS157N	
1J	"	"	
1K	"	74LS273N	
2F	"	74LS374N	
2H	"	74LS157N	
2J	"	"	
2M	"	"	/74LS257N
2N	"	74LS27N	
2P	"	74LS04N	
3F	"	74LS374N	
3H	"	74LS157N	
3J	"	"	
5A	"	74LS74N	
5C	"	74LS10N	
5E	"	74LS32N	
5H	"	74LS74N	
5J	"	74LS04N	
5K	"	74LS86N	
5L	"	74LS174N	
5M	"	74LS174N	
5N	"	74LS139N	
6A	"	74LS157N/74LS257N	
6C	"	74LS30N	
6H	"	74LS08N	
6L	"	74LS373N	
6M	"	74LS174N	
6N	"	74LS153N	
6P	"	74LS112N	
7B	"	74LS365N/74LS367N	
7C	"	"	
7D	"	"	

NANA AO (XRF) ST  
TYPE K401-S



TITLE		NO	
M62-B		Parts List	
DATE			
SYMBOL NO.	DESCRIPTION		
7E	TTL-IC	74LS365N/74LS367N	
7F	"	"	
7H	"	74LS245N	
7J	"	74LS157N/74LS257N	
7K	"	"	
7L	"	74LS138N	
7M	"	74LS04N	
7N	"	74LS04N (F.I. 三番増設)	
1D	S-RAM	TMM2018	
1E	"	"	
2D	"	uPD2149	
2E	"	"	
3D	"	"	
3E	"	"	
6K	"	M58725P	
3A	CUSTOM-LSI	KNA6074601	
3L	"	KNA6034201	
5B	"	KNA6021901	
5E	"	"	

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NANA AO (XRF) ST  
TYPE K401-S



SYMBOL NO.	DESCRIPTION
	CAPACITORS
C1	Ceramic BC 0.1 uf Z 12V or 16V ○
C2	" 0.1 uf Z 12V or 16V ○
C3	" 0.1 uf Z 12V or 16V ○
C4	" 0.1 uf Z 12V or 16V ○
C5	" 0.1 uf Z 12V or 16V ○
C6	" 0.1 uf Z 12V or 16V ○
C7	" 0.1 uf Z 12V or 16V ○
C8	" 0.1 uf Z 12V or 16V ○
C9	" 0.1 uf Z 12V or 16V ○
C10	" 0.1 uf Z 12V or 16V ○
C11	" 0.1 uf Z 12V or 16V ○
C12	" 0.1 uf Z 12V or 16V ○
C13	" 0.1 uf Z 12V or 16V ○
C14	" 0.1 uf Z 12V or 16V ○
C15	" 0.1 uf Z 12V or 16V ○
C16	" 0.1 uf Z 12V or 16V ○
C17	" 0.1 uf Z 12V or 16V ○
C18	" 0.1 uf Z 12V or 16V ○
C19	" 0.1 uf Z 12V or 16V ○
C20	" 0.1 uf Z 12V or 16V ○
C21	" 0.1 uf Z 12V or 16V ○
C22	" 0.1 uf Z 12V or 16V ○
C23	" 0.1 uf Z 12V or 16V ○
C24	" 0.1 uf Z 12V or 16V ○
C25	" 0.1 uf Z 12V or 16V ○
C26	Ceramic 22 pf J 50V ○
C27	" 47 pf J 50V ○
C28	Ceramic BC 0.1 uf Z 12V or 16V ○
C29	" 0.1 uf Z 12V or 16V ○
C30	" 0.1 uf Z 12V or 16V ○
C31	" 0.1 uf Z 12V or 16V ○
C32	" 0.1 uf Z 12V or 16V ○
C33	" 0.1 uf Z 12V or 16V ○
C34	" 0.1 uf Z 12V or 16V ○

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NANAO CORR ST TYPE K104-S



SYMBOL NO.	DESCRIPTION
	RESISTORS
R1	Carbon 220 ohm J 1/4W 5%
R2	" 470 ohm J 1/4W 5%
R3	" 1K ohm J 1/4W 5%
R4	" 2.2K ohm J 1/4W 5%
R5	" 1K ohm J 1/4W 5%
R6	" 470 ohm J 1/4W 5%
R7	" 220 ohm J 1/4W 5%
R8	" 2.2K ohm J 1/4W 5%
R9	" 470 ohm J 1/4W 5%
R10	" 2.2K ohm J 1/4W 5%
R11	" 1K ohm J 1/4W 5%
R12	" 470 ohm J 1/4W 5%
R13	" 220 ohm J 1/4W 5%
R14	" 470 ohm J 1/4W 5%
R15	" 470 ohm J 1/4W 5%
R16	
R17	
R18	Carbon 1K ohm J 1/4W 5%
R19	" 1K ohm J 1/4W 5%
R20	
R21	Carbon 1K ohm J 1/4W 5%
R22	" 1K ohm J 1/4W 5%
R23	" 1K ohm J 1/4W 5%

④ 加-7-2 追加  
⑤ 加-8-2 追加





SYMBOL NO.	DESCRIPTION
J8	SHORT-BASE IMSA-9202B-1-3
J9	SHORT-HEAD IMSA-9202-H
1L	IC-SOCKET IC-02T-1603S4 (16P)
1M	"
1N	"
3M	IC-02T-2806S4 (28P)
3N	"
4A	"
4C	"
4D	"
4E	"
4F	"
4J	"
4K	"
4L	"
4M	"
4N	"
6F	IC-02T-1603S4 (16P)
	PCB M62-B-B

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SYMBOL NO.	DESCRIPTION
C35	Ceramic BC 0.1 uf Z 12V or 16V
C36	" 0.1 uf Z 12V or 16V
C37	" 0.1 uf Z 12V or 16V
C38	" 0.1 uf Z 12V or 16V
	Ceramic 33 pf J 50V
	" 390 pf J 50V
X1	CRYSTAL 24 MHz
X2	" 18.432 MHz
CN1	CONNECTOR FC60A2MAB and FO
CN2	" FC60A2MAB and FO
J1	SHORT-BASE IMSA-9202B-1-3
	SHORT-HEAD IMSA-9202-H
J2	SHORT-BASE IMSA-9202B-1-3
J3	SHORT-HEAD IMSA-9202-H
J4	SHORT-BASE IMSA-9202B-1-3
	SHORT-HEAD IMSA-9202-H
J5	SHORT-BASE IMSA-9202B-1-3
J6	SHORT-HEAD IMSA-9202-H
J7	SHORT-BASE IMSA-9202B-1-3
	SHORT-HEAD IMSA-9202-H

**FBI**



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