

SHARP SERVICE MANUAL

PDSM981010-MZ



Personal Computer **MZ-80A**

FEATURES

- The MZ-80A is a full-fledged personal microcomputer equipped with 8-bit microprocessor (Z-80) and it can meet a variety of applications like hobbies, educations, office works, controls (of apparatus in every industrial field), etc.
- It is a compact desk-top type, itself a simplified unit including CPU board, CRT display, cassette tape recorder and keyboard all together.
- The keyboard touch will satisfy professional operators, and numerical input keys are provided.
- Speaker (3 octaves) and clock function are built in.
- A video RAM of 2K bytes is provided to facilitate edition aided by CRT display.
- Memory extensions is allowed up to 48K bytes in the board.
- Four types of I/O cards for peripherals such as a floppy disk and printer can be added by optional extension units.

SHARP CORPORATION

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Caution in Service

- * Maintain the safety and protecting ability of the apparatus after service.
- * High voltage shall not be rised to excess voltage so as to prevent this apparatus from the extra X-ray radiation.

SPECIFICATIONS

■ General

CPU	Z-80	Clock function	Built in
Memory	ROM; 4K bytes (Monitor) ROM; 2K bytes (character generator) RAM; 32K bytes (dynamic RAM) Memory extension; 48K bytes (max.) RAM; 2K bytes (video RAM)	Music function	Built in
		Editor function	Cursor control; "up", "down", "right", "left", "home", "clear home" Edit key, Delete key Roll up and roll down
Display	9" CRT (green display) 8 x 8 dot matrix. Characters; 1000 (40 characters x 25 lines)	Power supply	AC 220V \pm 10%, 50 Hz AC 240V \pm 10%, 50 Hz
		Power consumption	Approx. 36W
Cassette	Standard audio cassette tape Data transfer speed; 1200 bits/sec. Data transfer system; SHARP PWM	Temperature	Operating temp.; 0°C to 35°C Storage temp.; -15°C to 60°C
		Humidity	Lower than 80° during operation
Sound output	400mW (max.)	Weight	Approx. 10kg
Keys layout	Number; 73 keys ASCII standard (alphabet capital letter, figures), Small letter, Graphic, 10 Numerical	Dimensions	Width; 440mm Depth; 480mm Height; 260mm


■ CPU Board Section

CPU	Z-80; 1 pc	Programmable counter	8253 1 pc
ROM	Monitor; 1 pc (4K bytes) Character generator; 1 pc (2K bytes)	Programmable peripheral interface	8255 1 pc
RAM	Standard; 16K dynamic RAM; 16 pcs. (32K bytes) Video RAM; 1 pc (2K bytes)		

■ Power Supply Section

Input	AC 220V \pm 10%, 50Hz AC 240V \pm 10%, 50Hz
Output	DC 12V DC 5V DC -5V

■ Display Section

I. General specifications		II. Electrical specifications	
Size	9"	Video output	40Vp-p standard (35Vp-p limit)
Frequency	60Hz (vertical), 15.75kHz (horizontal)	Resolution	Horizontal  These patterns of the left in the center of the picture must be clear.
Power source	DC 12V, 1.1A $\pm 10\%$	Non-linearity distortion	Horizontal; $\pm 8\%$ ($\pm 14\%$ max.) Vertical; $\pm 8\%$ ($\pm 12\%$ max.)
Picture tube	C10M36P31 or 2728B31; 9"90° deflection explosion proof type Heater; 12V, 75mA	Geometrical distortion	Pincushion dist.; 1% (2% max.) Barrel dist.; 1% (2% max.) Trapezoidal dist.; 1% (2% max.) Parallelogram dist.; 1° (2.5° max.)
IC	2 pcs.	High voltage	Zero beam; 11.0kV (10.0kV, min., 12.0kV, max.)
Transistor	7 pcs.		
Diode	13 pcs.	Power supply	DC12.0V, 1.05A (1.2A max.)
Sound output	400mW max. (440 Hz) Speaker 8cm, round dynamic type (32 Ω)	Working range	12V $\pm 10\%$
		Scan size	Horizontal; 10% (15% max.) Vertical; 10% (15% max.)
Control knob	Volume Brightness	Horizontal lock-in range	± 300 Hz (± 100 Hz limit)
		Vertical lock-in range	-12 Hz (-6 Hz limit)
Working temperature	-10°C to 50°C	Audio frequency characteristic	440 Hz (0dB) -10dB ± 4 dB at 100 Hz -12dB ± 4 dB at 10kHz
		Sound maximum output	400mW at 440 Hz

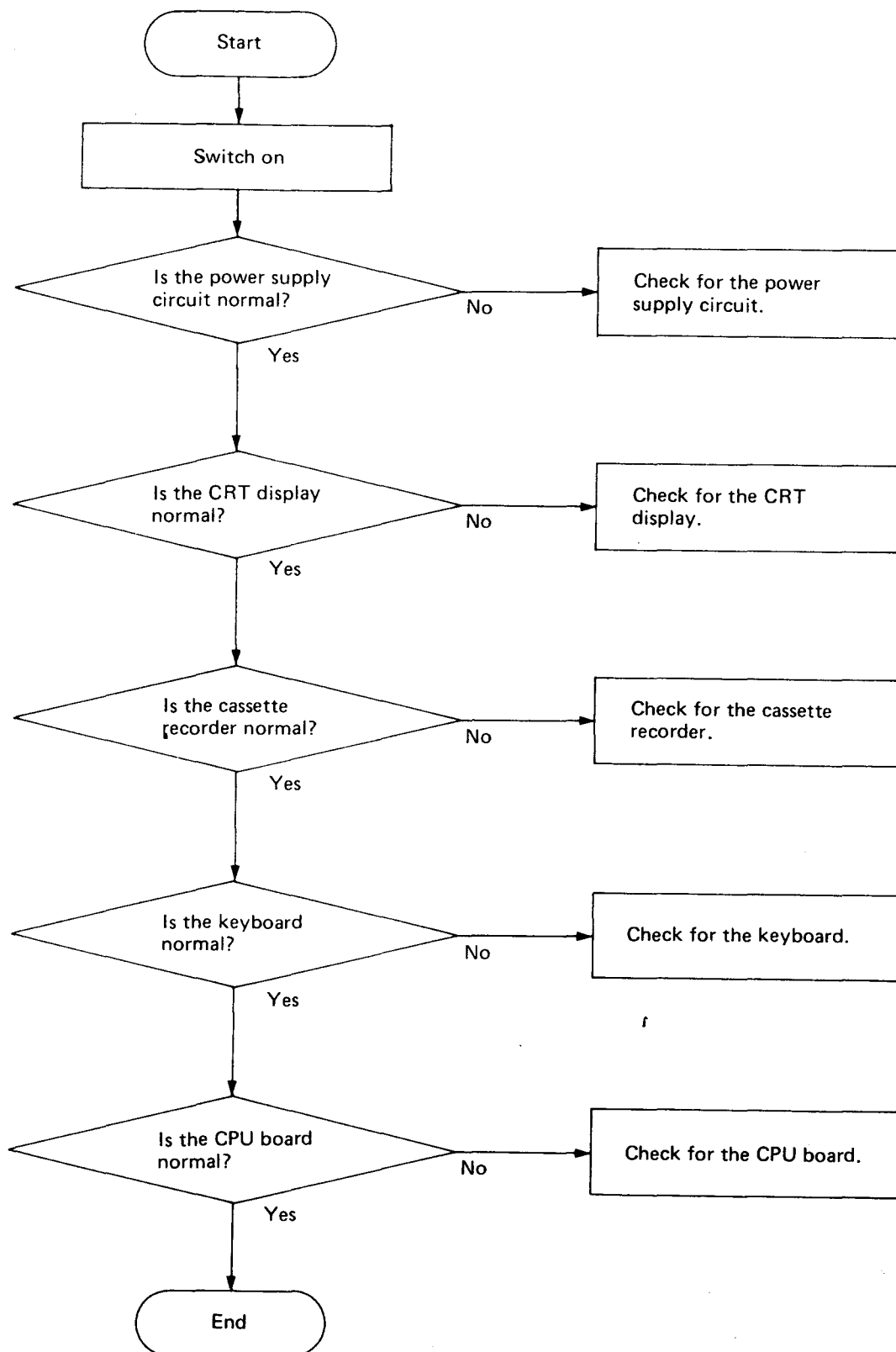
■ Cassette tape recorder Section

System	PWM recording	Biasing	DC system
Power source	5V ± 0.25 V (rated)	Erasing	DC system
Rated amperage	Wait; 2mA Record; 70mA (TEAC test tape) Playback; 7mA (TEAC test tape)	Playback sensitivity	1m sec. to 500 μ sec. (standard)
		Input level	Below 0.4V ("L") Over 2.0V ("H")
Semiconductors	4 transistors 1 IC 4 diodes	Input impedance	Over 10k Ω (record jack)
		Output level	Below 0.4V ("L") Over 2.0V ("H")
Applied tape	From C30 to C120	Working temperature	-10°C to 50°C
Tape speed	4.75 cm/sec.		
Track	2-track monaural type	Storage temperature	-25°C to 70°C
Motor	Electronic governor motor (12V)		

NOTE Specifications and appearance are subject to change without prior notice for improvement. In such a case, the explanation here may be a little different from the product.

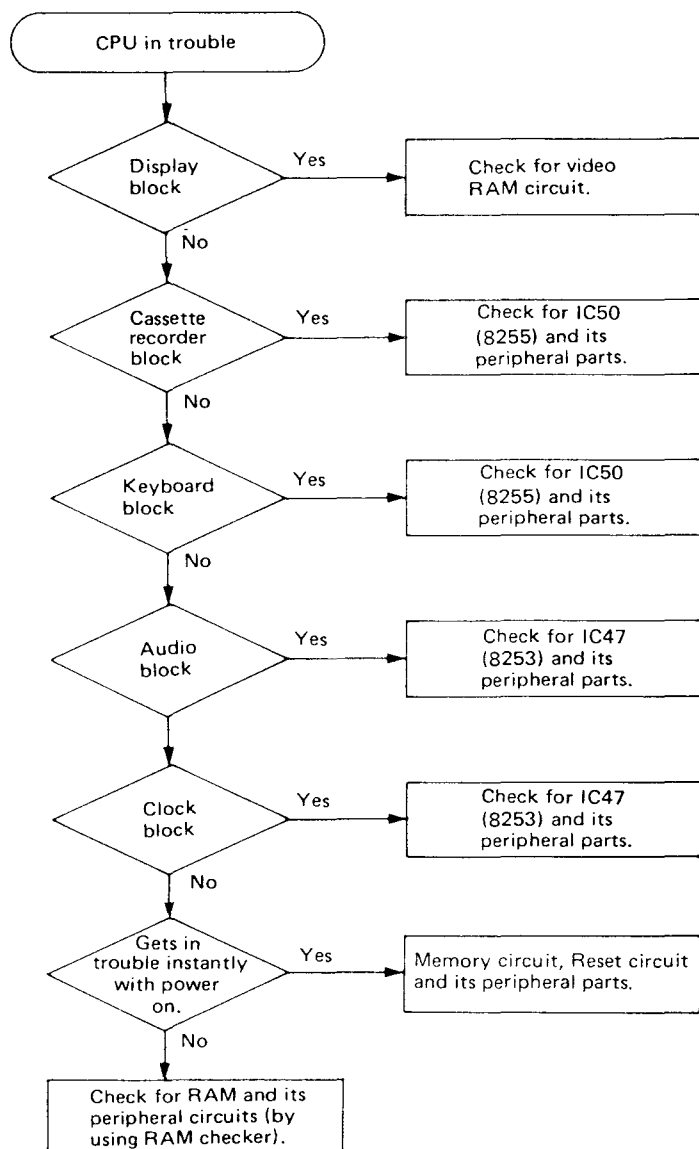
TROUBLE SHOOTING GUIDE

The machine comprises five main units, CPU board, display, cassette tape recorder, keyboard, and power supply circuits. For a quick solution to most operating difficulties, first consult the chart below to find which section of the machine is subjected to the trouble, and next to do the checkings according to more detailed instructions given in the succeeding pages.



CPU BOARD SECTION

The CPU board is composed of the following six blocks. When it gets in trouble, first locate which block is concerned with the trouble, and next try to check for its corresponding circuits; the wiring diagrams of every block will be shown separately.



■ Checking methods of each circuit

1. By touching IC insulating parts by fingers:

- If they seem too hot by heat generation;

IC is defective, IC load is heavy or components are touching each other — ROM and V-RAM are exempted from this checking, however.

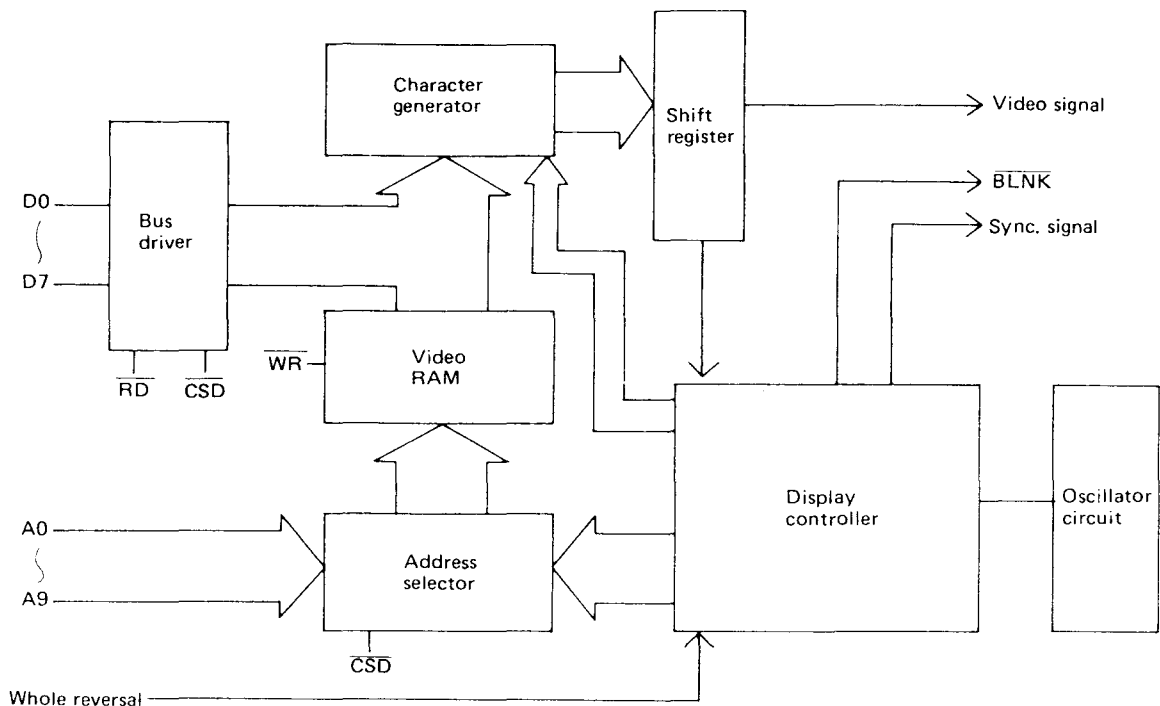
- If a circuitry state is changed to another; Soldering is poor, socket contact is improper, or printed wiring is erroneous.

2. By using a synchroscope:

- If the relation between input and output of TTL IC is illogical, this means defective IC gate.

- Check if the voltage level of TTL IC is as specified: High level: over 2.4V; Low level: below 0.5V

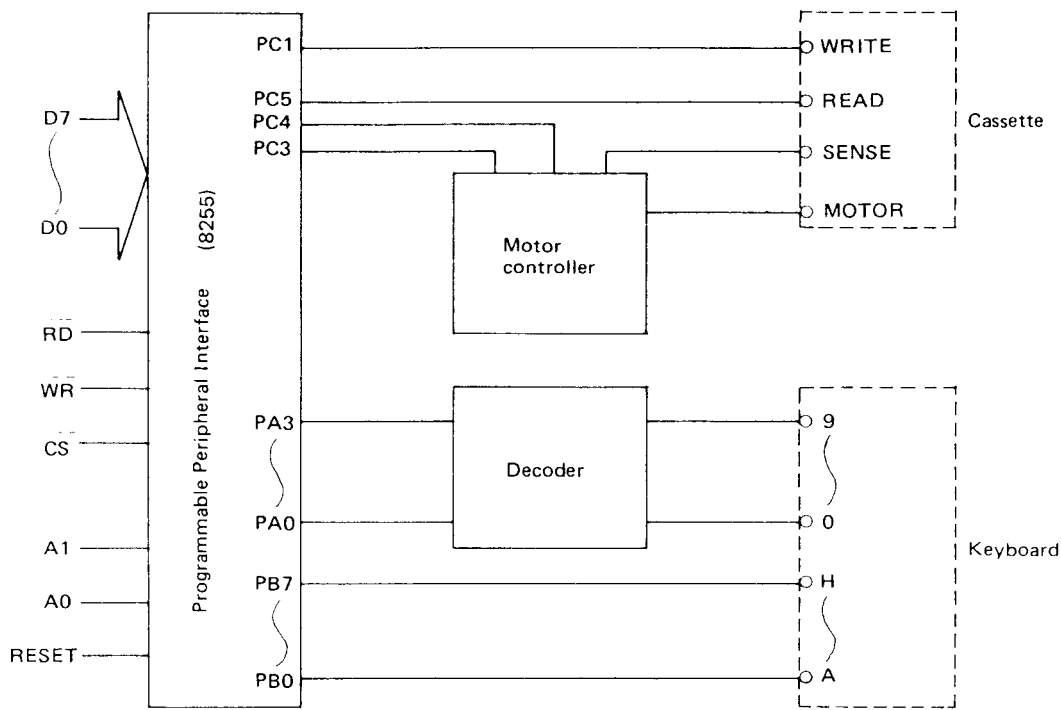
■ Display Block



Block Diagram of Parts around Video RAM

Problem	Check Point
1. Sync. signal is not produced.	Vertical sync. signal: Check for pin ⑩ of IC20. Horizontal sync. signal: Check for pin ⑦ of IC20.
2. Video signal is not produced.	Is $\overline{V-GATE}$ signal for pin ⑩ of IC2 high level? Yes; IC2 No; IC50 Is $\overline{V-BLANK}$ signal present at pin ⑧ of IC20? Yes; IC20 No; IC2 Is $\overline{H-BLANK}$ signal present at pin ① of IC20? Yes; IC20, IC31 No; IC2 Does pin ⑨ of IC8 develop video signal? Yes; IC8 No; IC2, IC10, IC4
3. Irregular display characters	Check IC14, IC20.
4. The display is positionally deviated.	Check IC21, IC22, IC26, IC27, IC32, IC33
5. Position is correct but characters are abnormal.	Check IC15 and IC16.

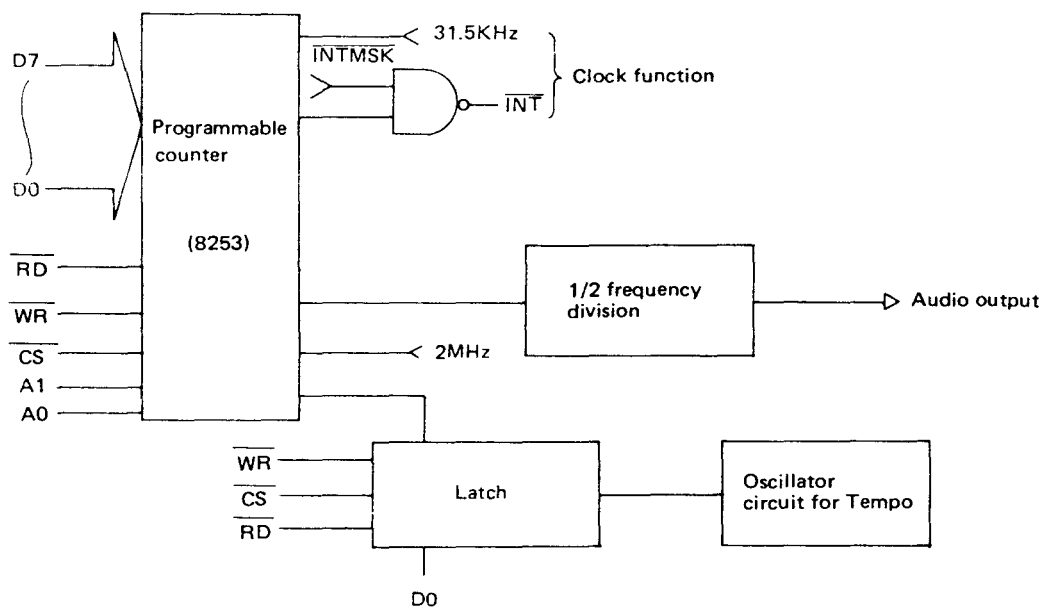
■ **Cassette recorder/Keyboard Block**



Block diagram of Parts around Cassette recorder/Keyboard.

Problem	Check Point
1. "LOAD" operation is impossible.	Is output signal present at pin ③ of IC10? Yes; IC50 No; IC10
2. "SAVE" operation is impossible.	Is output signal present at pin ⑮ of IC50? Yes; IC10 No; IC50
3. Motor doesn't rotate.	Is voltage at pin ⑧ of IC39 at "low" level? Yes; IC4, Q1 No; IC39, IC5
4. Motor doesn't stop.	Is voltage at pin ⑧ of IC39 at "high" level? Yes; IC4, Q1 No; IC39, IC5
5. Key input is ineffective.	Check for IC52 and IC50.

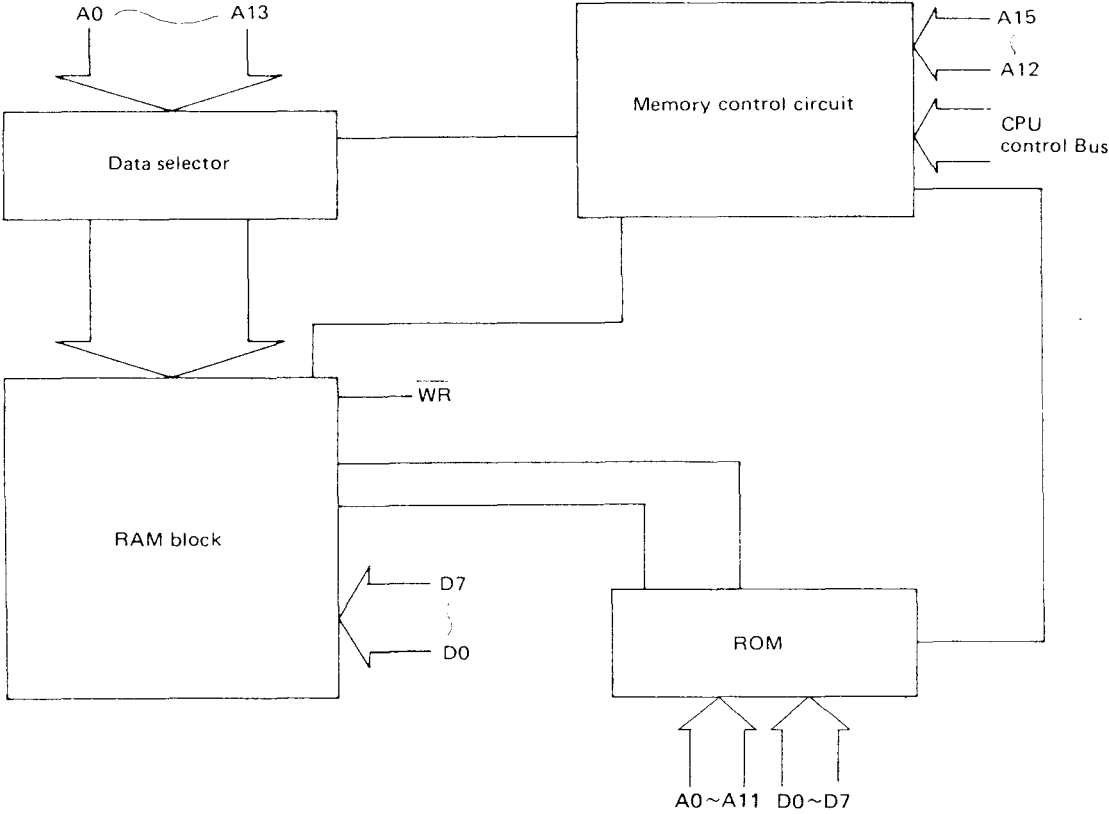
■ Audio/Clock Block



Block Diagram of Parts around Audio/Clock Block

Problem	Check Point
1. Abnormal sound output	Is output signal present at pin ⑩ of IC47? Yes; IC45, IC48 No; IC47, IC51
2. Clock function is abnormal.	Is 31.5KHz signal input to pin ⑮ of IC47? Yes; IC47 (8253) and surrounding are faulty. No; IC20 (Check if 8MHz signal is supplied to pin ⑳ of IC20)

■ Memory Circuit Block



Block Diagram of Parts around Memory Circuit

Problem	Check Point
1. Reproduced picture shows "panic".	Check for the following: ROM, IC46, CG, IC13 (CPU) and surrounding circuit Address bus line Data bus line Control line RAM (by using RAM checker),
2. Error display or misoperation is caused as a result of program execution.	RAM check
3. Returns to "MONITOR SA-1510".	RAM check
4. Error is caused after a long operation.	RAM check

* How to Use RAM Checker

Remove monitor ROM from the socket ("M-ROM" marked on the PWB) and insert RAM checker into the socket and turn on the power switch (the picture gets "panic" for about 1 second): then the following RAM TEST-1 and RAM TEST-2 will be automatically carried out from the address \$1000 to the maximum address and the tested results will be displayed.

The following is an example of the testing performed with the standard set (with RAMs being all normal).

Note: RAM 32K bytes

RAM TEST-1	1000-OK	2000-OK	3000-OK	4000-OK	5000-OK
	6000-OK	7000-OK	8000-OK	9000-ER	9000,00,7F
RAM TEST-2	00	FF	00	FF	F0 OK

1) RAM TEST-1

In the range from the address \$1000 to the maximum address, data \$00 and \$FF are subjected to automatic write/read test; if error is caused, "ER" mark is indicated in the unit of 4K bytes.

In the above table,

3000-OK: this means write/read operation has been normal from the address \$3000 to \$3FFF.

9000-ER-9000-00,7F: this means there exists error somewhere from the address \$9000 to \$9FFF; this error is because the standard set is provided with up to \$8FFF but with no more address, so it doesn't show a malfunction of RAM itself.

An example showing an error really caused:

2000-ER-235B-00, 01

An error is caused in the addresses \$2000s; namely, although data \$00 has been written in the address \$235B, its read-out data is \$01.

2) RAM TEST-2

Write/read test is carried out with the following data.

- (a) Write-in data \$00 (from the address \$1000 to the maximum address)
- (b) Write-in data \$FF (from the address \$1000 to the maximum address)
- (c) Write-in data \$00 (from the maximum address to the address \$1000)
- (d) Write-in data \$FF (from the maximum address to the address \$1000)
- (e) Write-in data \$F0 and \$0F to be entered alternately (from the address \$1000 to the maximum address and vice versa).

The above table (RAM TEST-2) shows all the items (a) thru (e) are normal — the indications "00", "FF", "00", "FF" and "F0" correspond to (a) thru (e) respectively.

An example showing an error really caused:

RAM TEST-2	00	FF	00	ER-23FF-01
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From the above, it can be seen that the tests (a) and (b) are both normal and that although data \$00 in the test (c) has been written in the address \$23FF, its read-out data is \$01, which means that an error has been caused.

In this way, which RAM block (I, II or III) has been subjected to the error is first located, and then so does which RAM component having undergone the error, by the respective information given by the RAM tester. In the above example, the display of "\$23FF" means RAM (I) block is in trouble, and the display of read-out data "\$01" (with respect to write-in data "\$00") shows RAM 1 of the block (I) is defective.

	D7	D6	D5	D4	D3	D2	D1	D0	
Write-in data \$00	0	0	0	0	0	0	0	0	← Error to occur
Read-out data \$01	0	0	0	0	0	0	0	1	

	RAM (III)	RAM (II)	RAM (I)
D0	17	9	1
D1	18	10	2
D2	19	11	3
D3	20	12	4
D4	21	13	5
D5	22	14	6
D6	23	15	7
D7	24	16	8

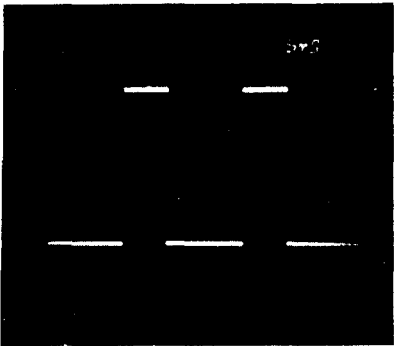
RAM (I)
\$1000 ~ \$4FFF

RAM (II)
\$5000 ~ \$8FFF

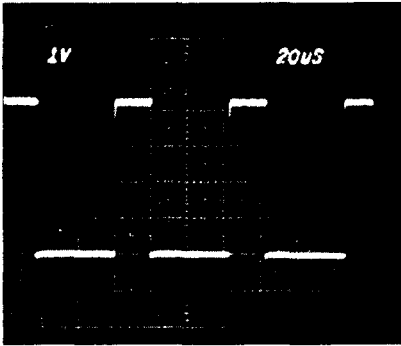
RAM (III)
\$9000 ~ \$CFFF

■ Wave form of Each Pin of CPU Board

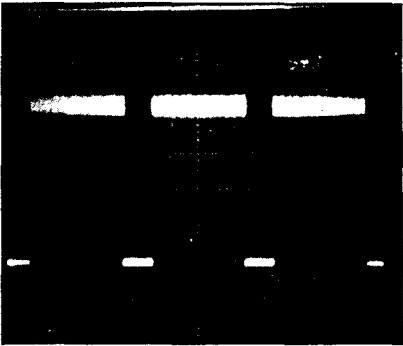
At pin 11 of IC 20
(31.5 KHz)



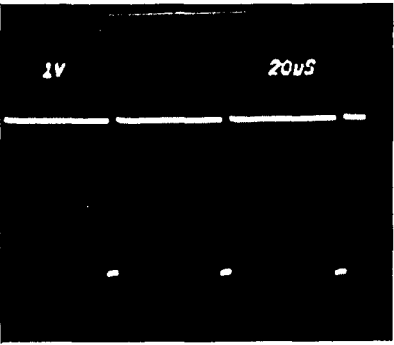
At Pin 8 of IC 11
(Horizontal Blanking Signal)



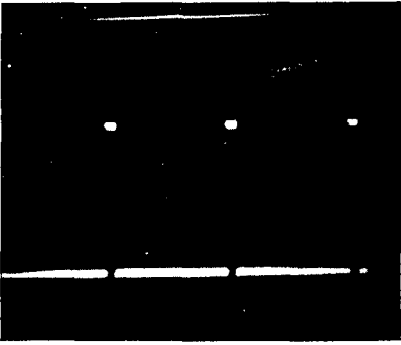
At Pin 10 of IC 50
(Vertical Blanking Signal)



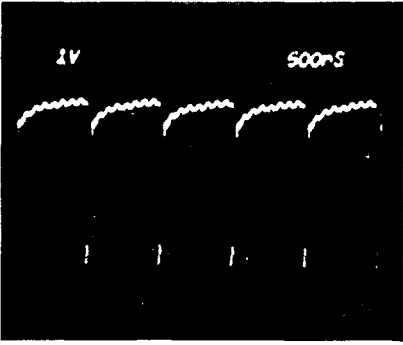
At Pin 4 of IC 3



At Pin 10 of IC 20
(Vertical Sync. Signal)



At Pin 4 of IC 3



	D7	D6	D5	D4	D3	D2	D1	D0	
Write-in data \$00	0	0	0	0	0	0	0	0	Error to occur
Read-out data \$01	0	0	0	0	0	0	0	1	

	RAM III	RAM II	RAM I
D0	17	9	1
D1	18	10	2
D2	19	11	3
D3	20	12	4
D4	21	13	5
D5	22	14	6
D6	23	15	7
D7	24	16	8

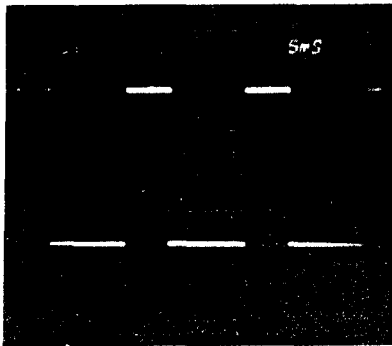
RAM (I)
\$1000 ~ \$4FFF

RAM (II)
\$5000 ~ \$8FFF

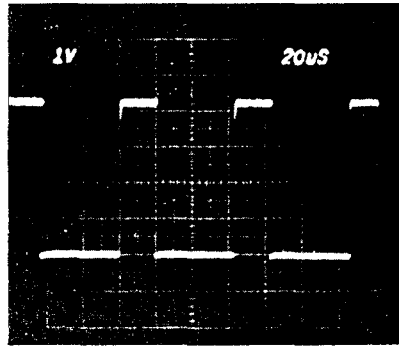
RAM (III)
\$9000 ~ \$CFFF

■ Wave form of Each Pin of CPU Board

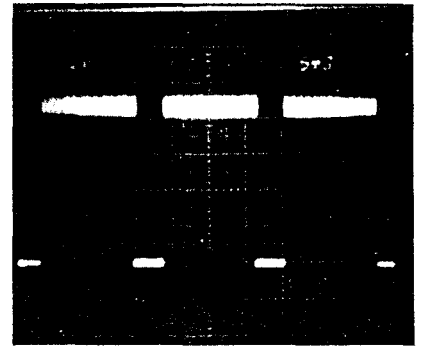
At pin 11 of IC 20
(31.5 KHz)



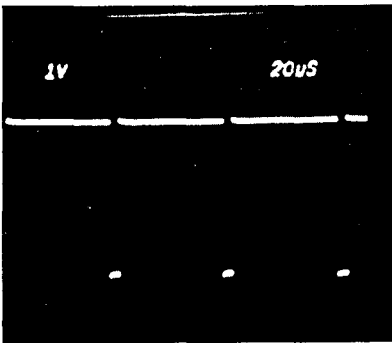
At Pin 8 of IC 11
(Horizontal Blanking Signal)



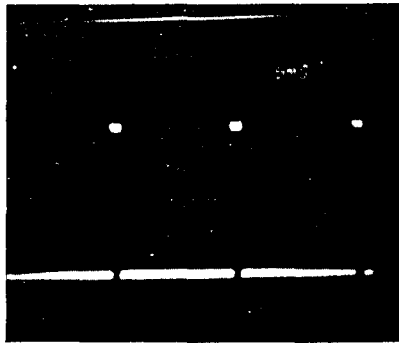
At Pin 10 of IC 50
(Vertical Blanking Signal)



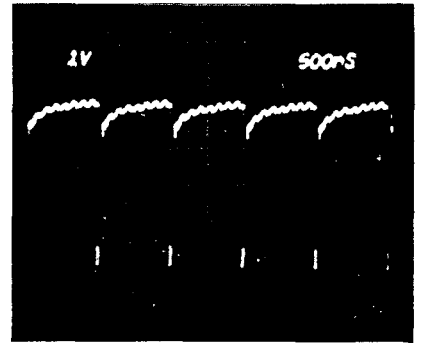
At Pin 4 of IC 3



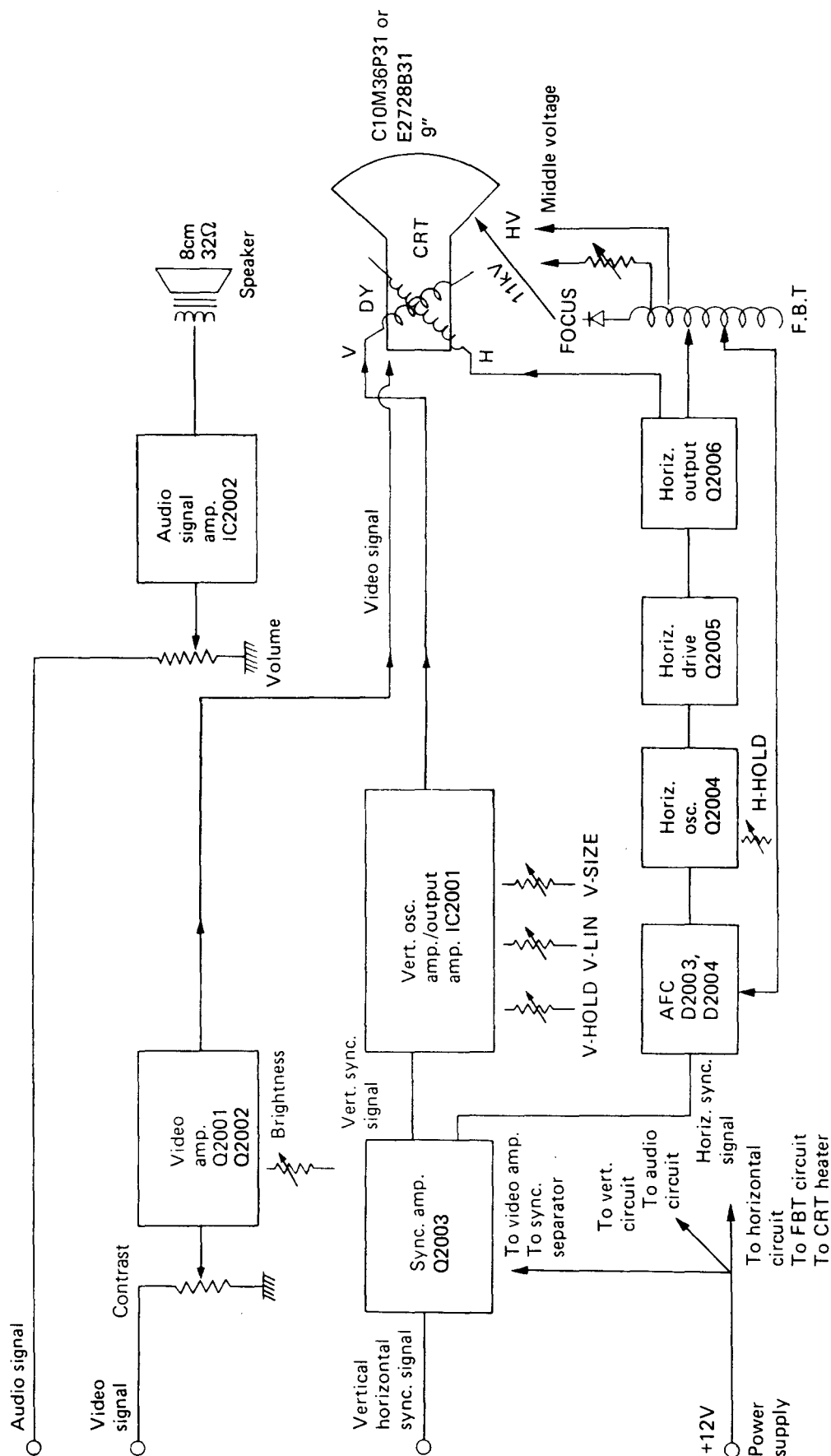
At Pin 10 of IC 20
(Vertical Sync. Signal)



At Pin 4 of IC 3



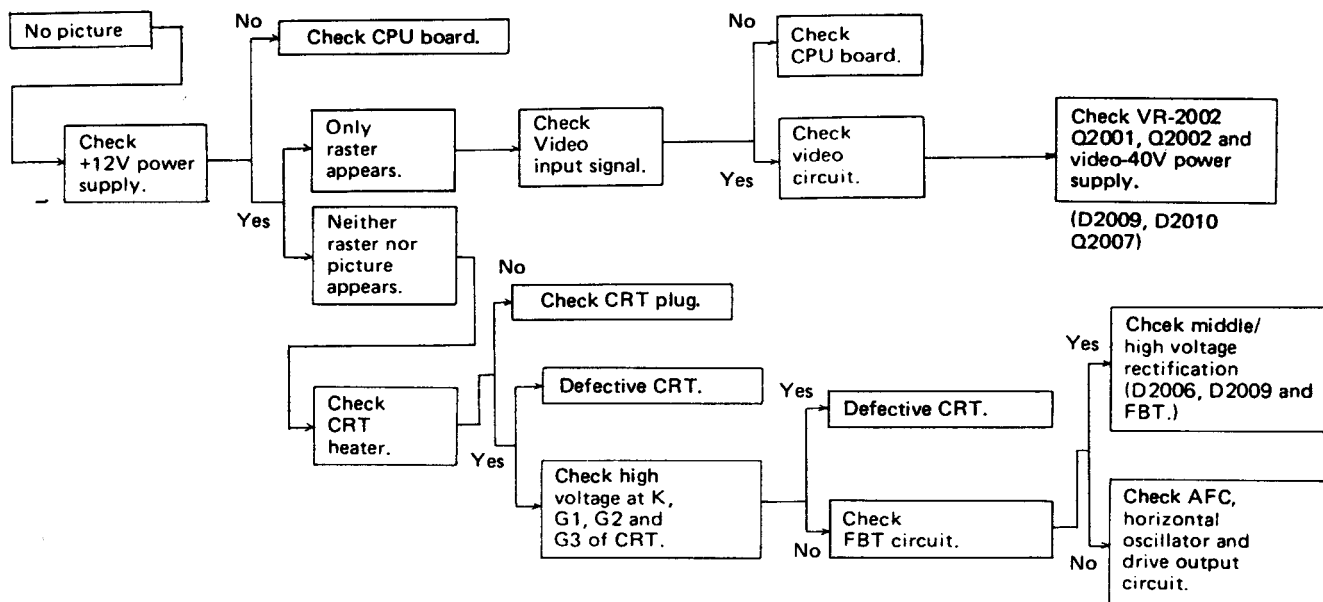
DISPLAY SECTION



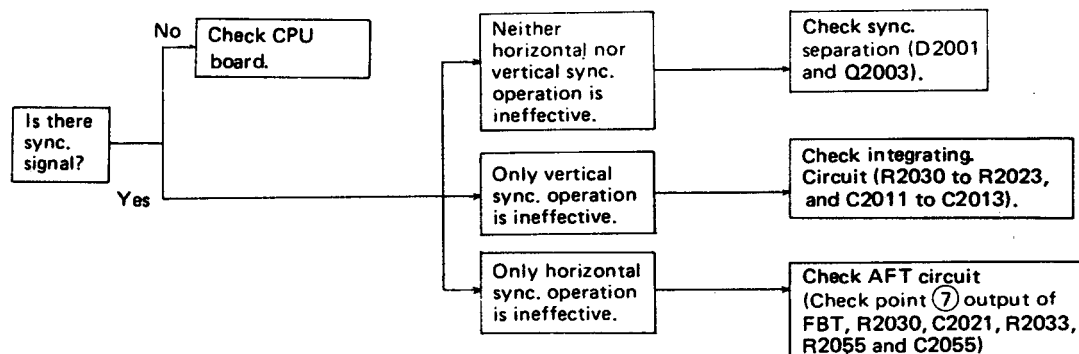
Block Diagram of Display Section

■ Trouble Shooting Chart

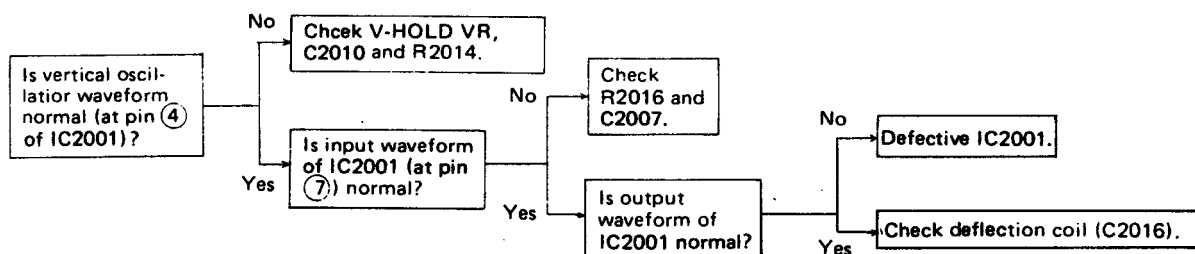
Problem 1: No picture appears.



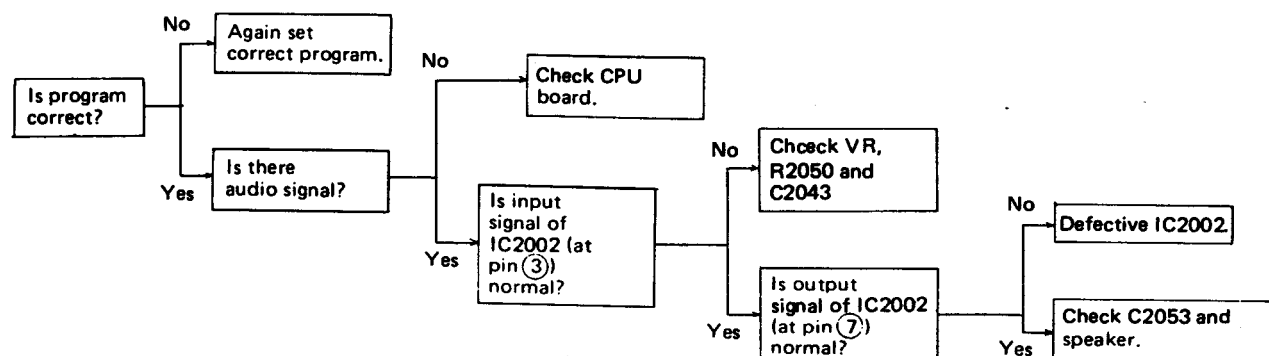
Problem 2: Sync operation remains ineffective.



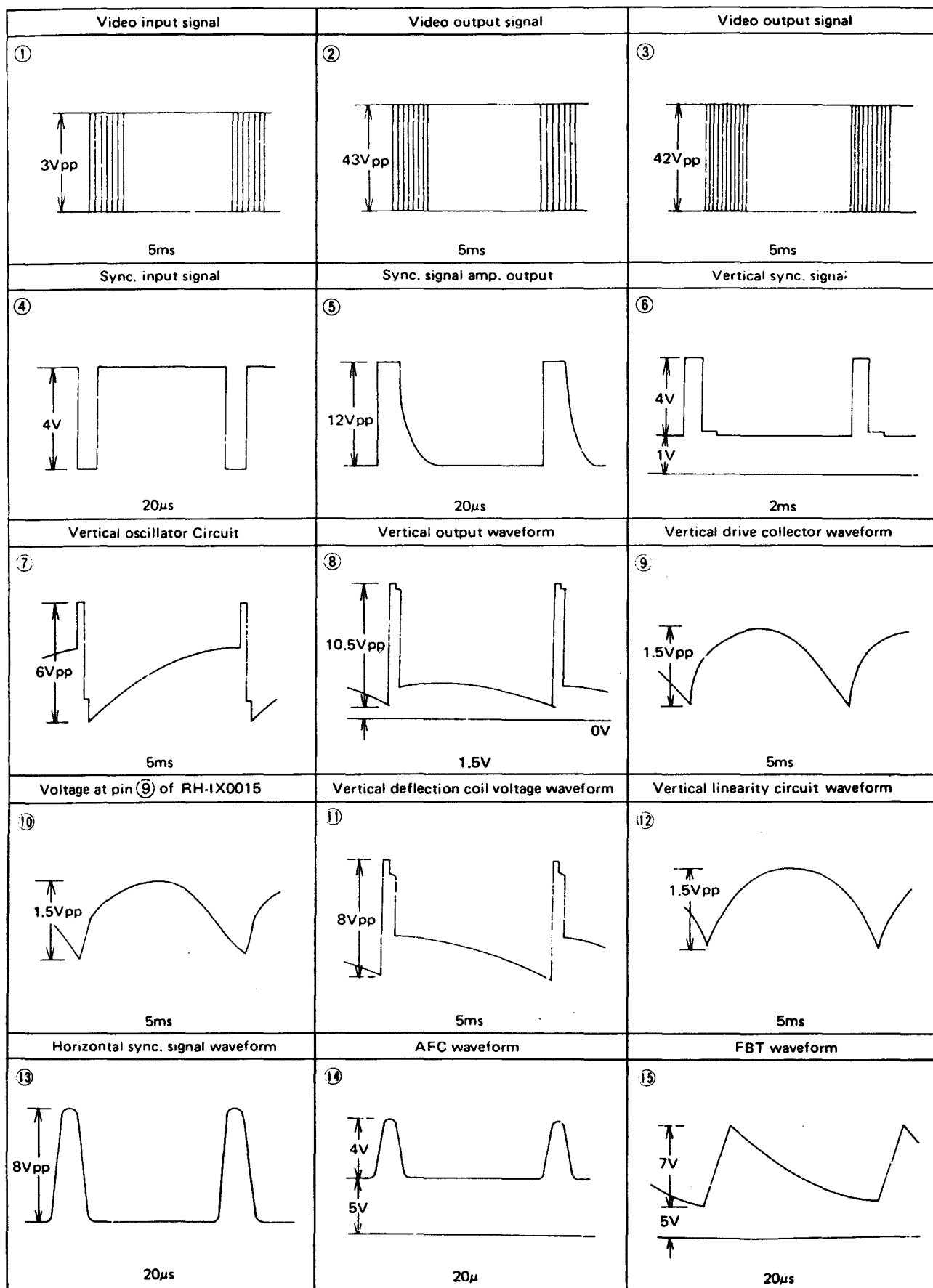
Problem 3: Raster is too narrow.

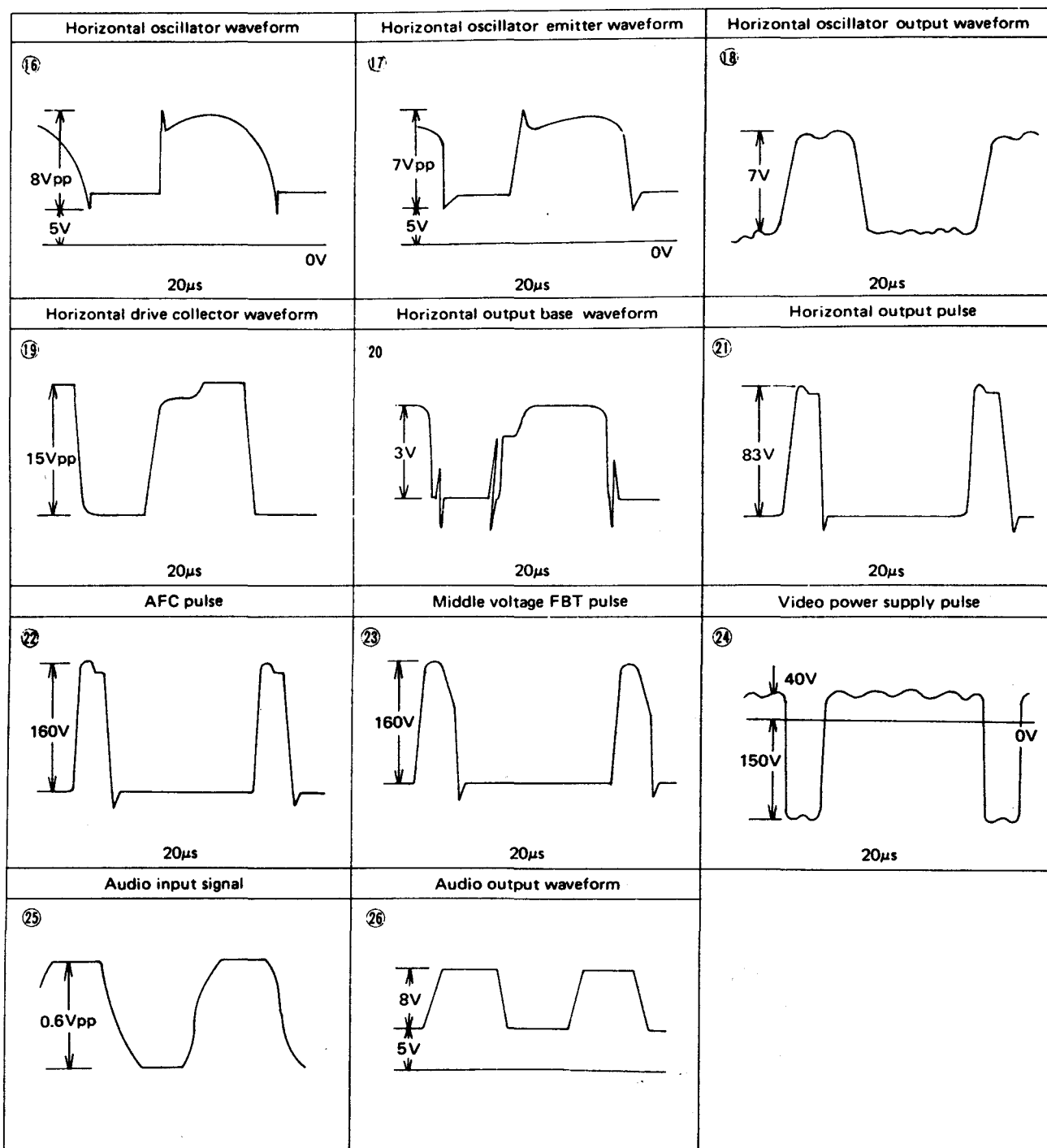


Problem 4: No sound comes out.



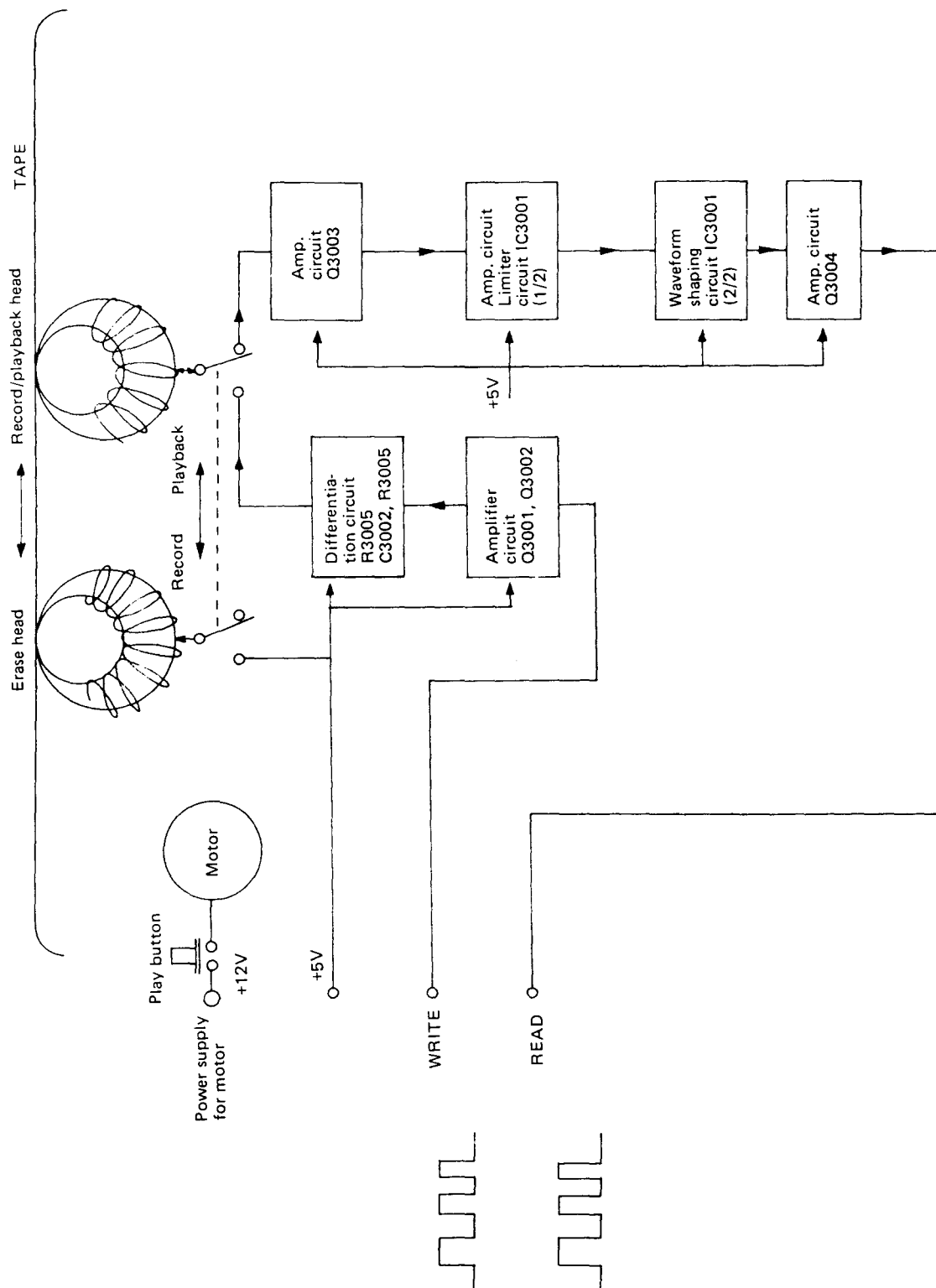
■ Waveforms of Display Section





The figures encircled by ① in the above refer to those of "Wiring Diagram" --- "Check Points of Waveforms".

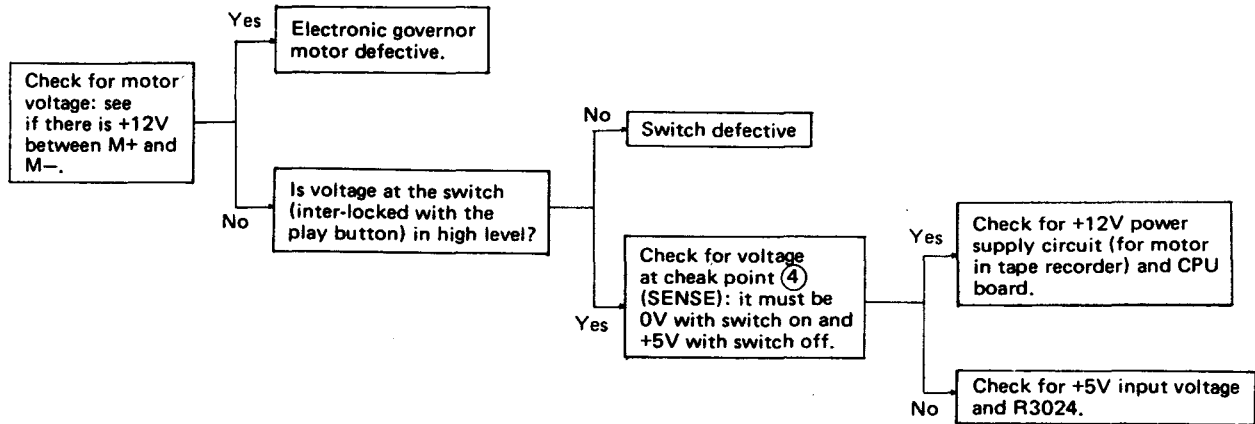
CASSETTE TAPE RECORDER SECTION



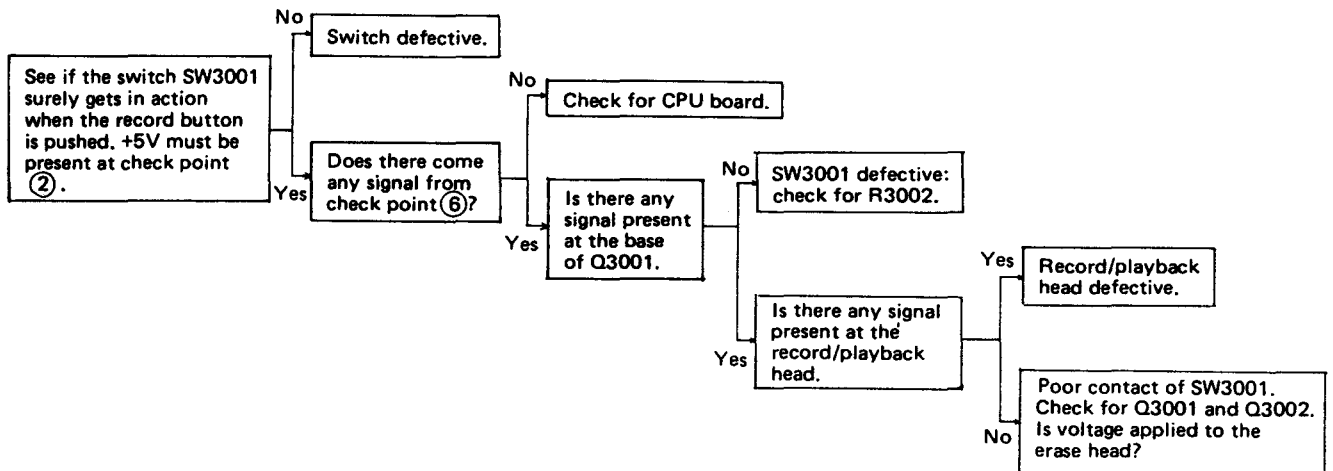
Block Diagram of Cassette Tape Recorder

■ Trouble Shooting Chart

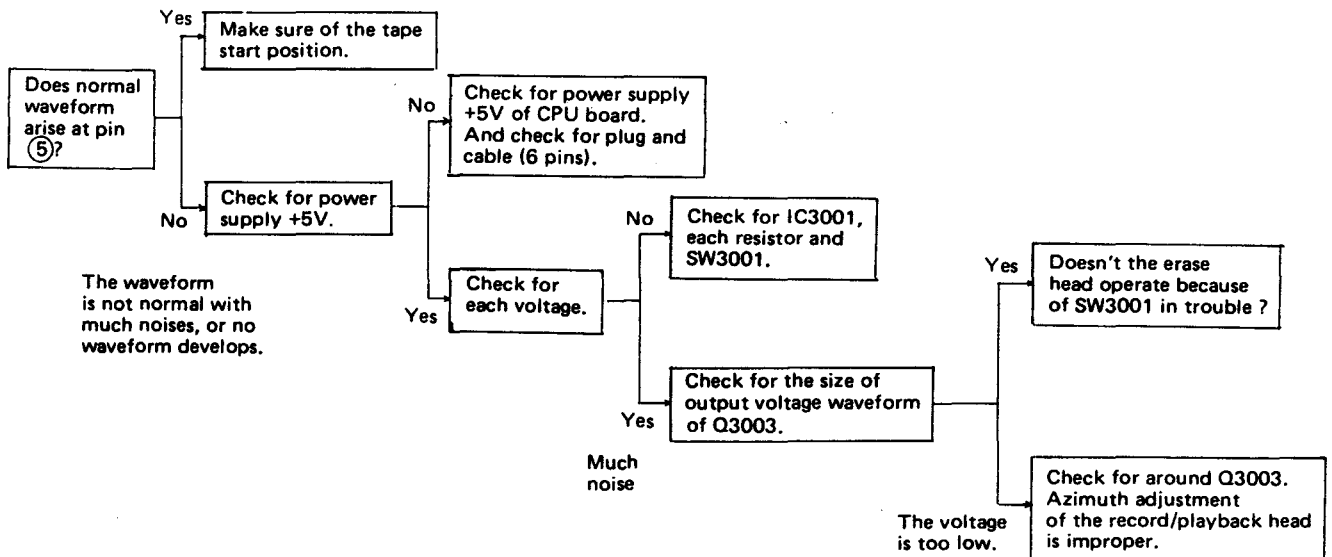
Problem 1: Even if the play button is pushed, neither motor rotates nor tape moves.



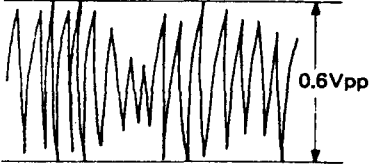
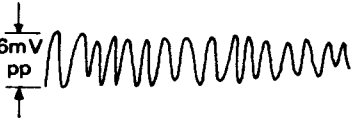

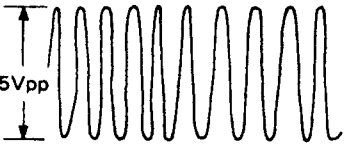
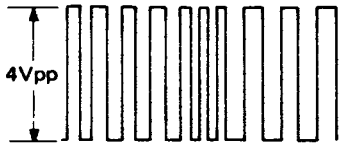
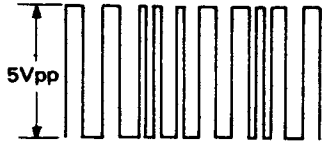
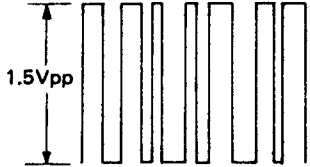
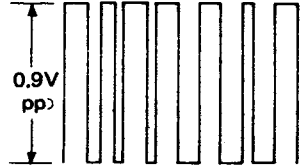
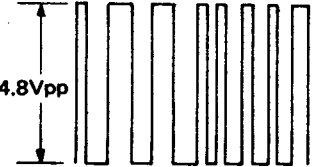

Problem 2: Record (SAVE) operation of program is impossible.



Problem 3: Playback (LOAD) of program is impossible, or error is caused.



■ Waveforms of Cassette Tape Recorder

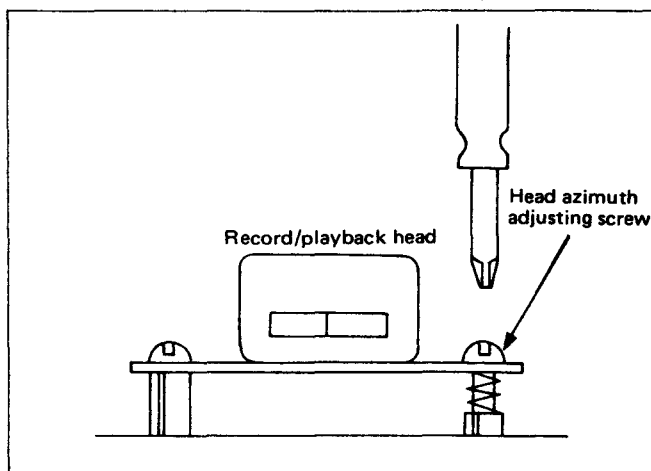
1st stage amp. output waveform ① 	Operational amp. input waveform ② 	Operational amp. input waveform ③ 
Operational amp. input waveform ④ 	Operational amp. output waveform ⑤ 	Output waveform ⑥ 
Record input waveform ⑦ 	Record amp. waveform ⑧ 	Record amp. waveform ⑨ 
Head input waveform ⑩ 		

The figures encircled by ○ correspond to those of "Wiring Diagram" — "Check Points of Waveforms".

■ Azimuth Adjustment and Head Cleaning

* Azimuth adjustment of record/playback head

1. Connect a synchroscope to the collector of Q3003.
2. Load a test tape (TEAC, 3kHz-signal recorded) and play it back.
3. Rotate the azimuth adjusting screw so that the waveform on a synchroscope will be the maximum.



Head cleaning

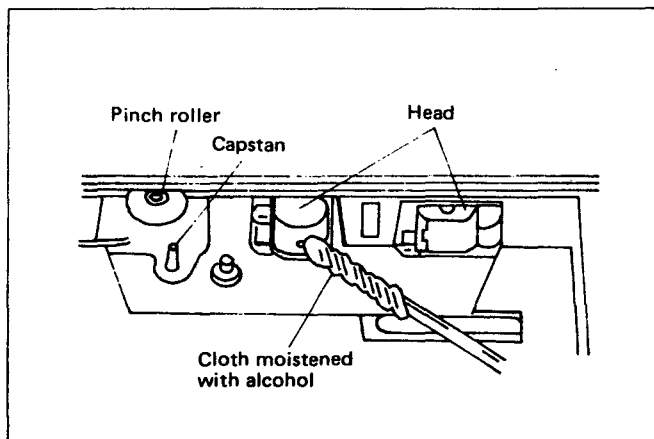
Clean the heads, capstan and pinch roller often, to remove dust and tape residue. Foreign material on them impairs the sound quality of both recording and playback.

Open the cassette holder, remove the tape, push the play button and clean them with a soft cloth moistened in alcohol.

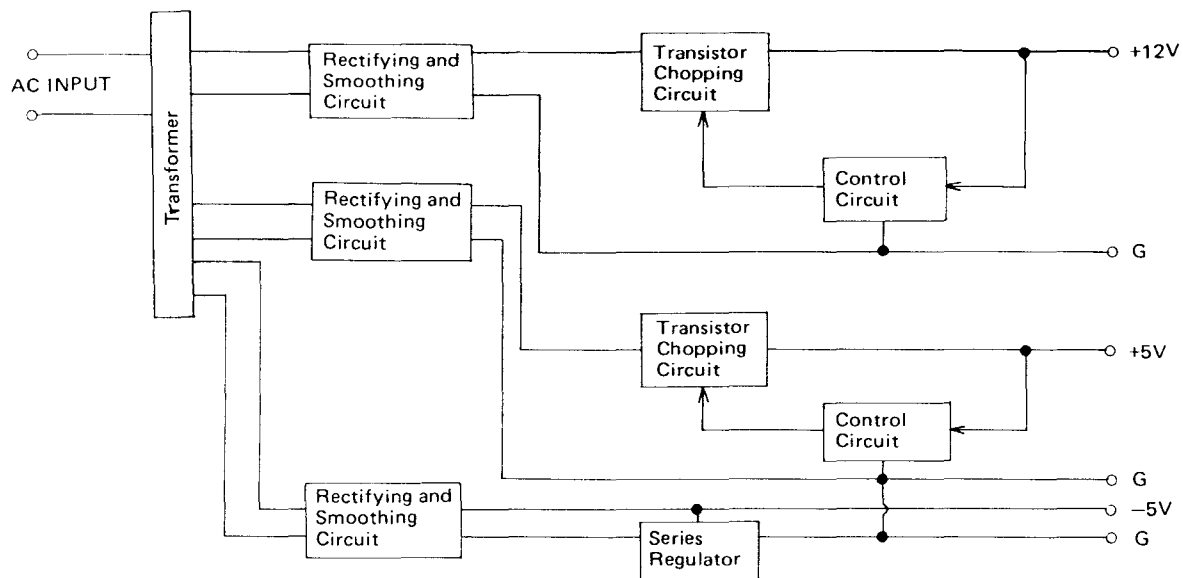
Erase protection

To protect a cassette tape from being accidentally erased it was designed with two removable tabs. When the tabs are removed, it is impossible to push the record button.

When no cassette is inside the machine, no pushing of the record button is allowed, either. Nevertheless, pushing the button strongly may cause a trouble.

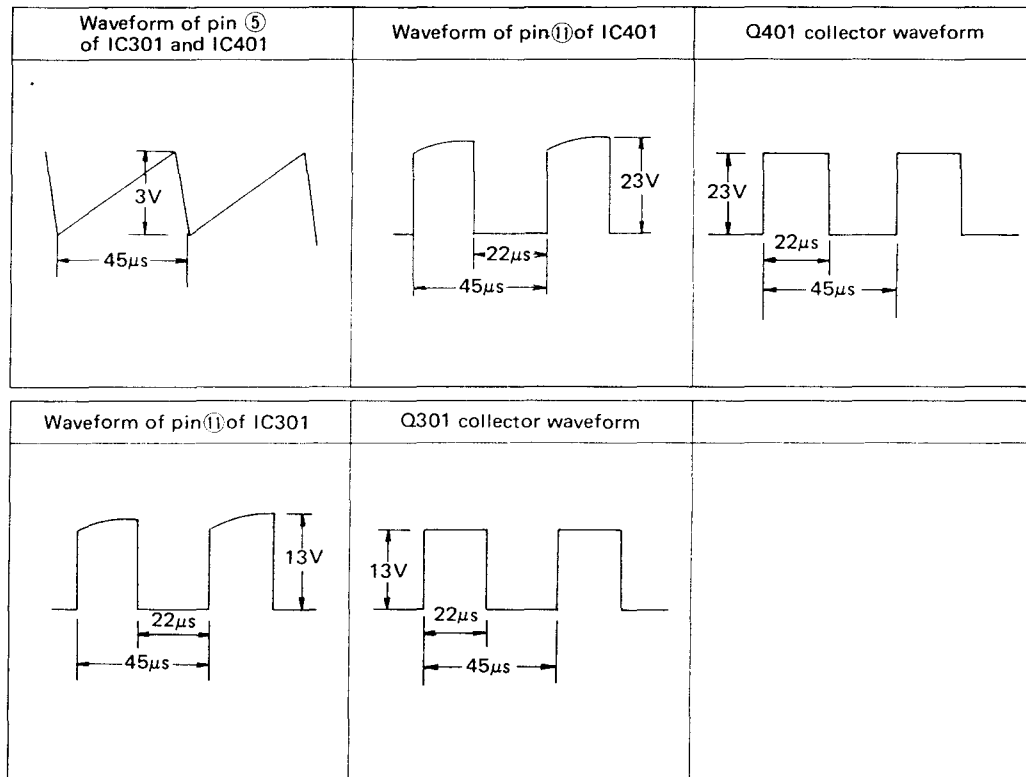


POWER SUPPLY SECTION



Block Diagram of Power Supply Section

Waveforms of Each Parts

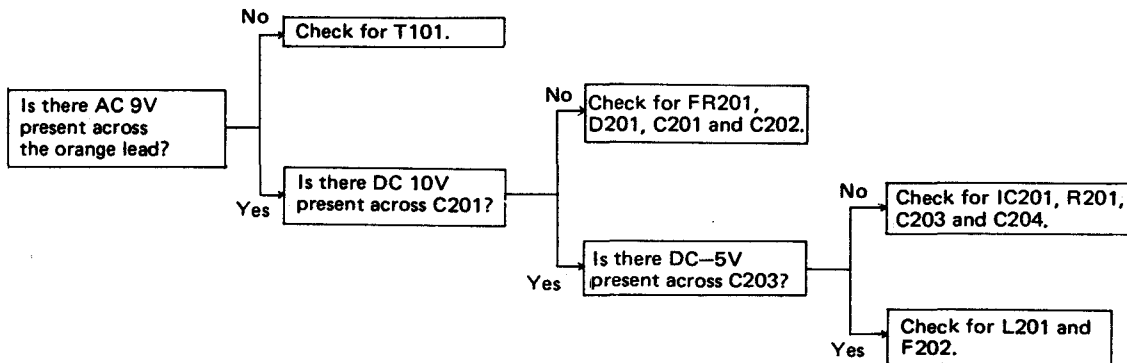


■ Trouble Shooting Chart

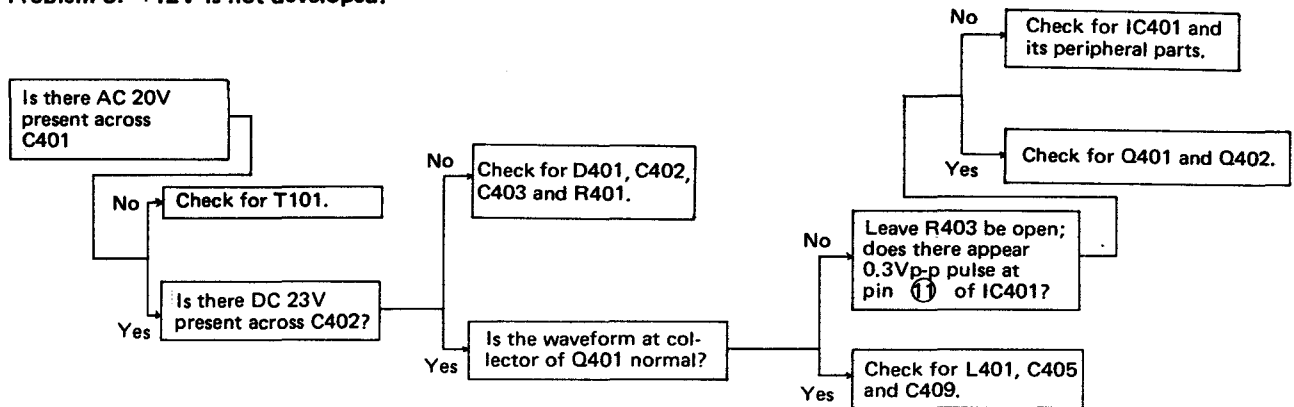
Problem 1: No voltage appears at any output terminal.

Check primary circuit which includes the transformer.

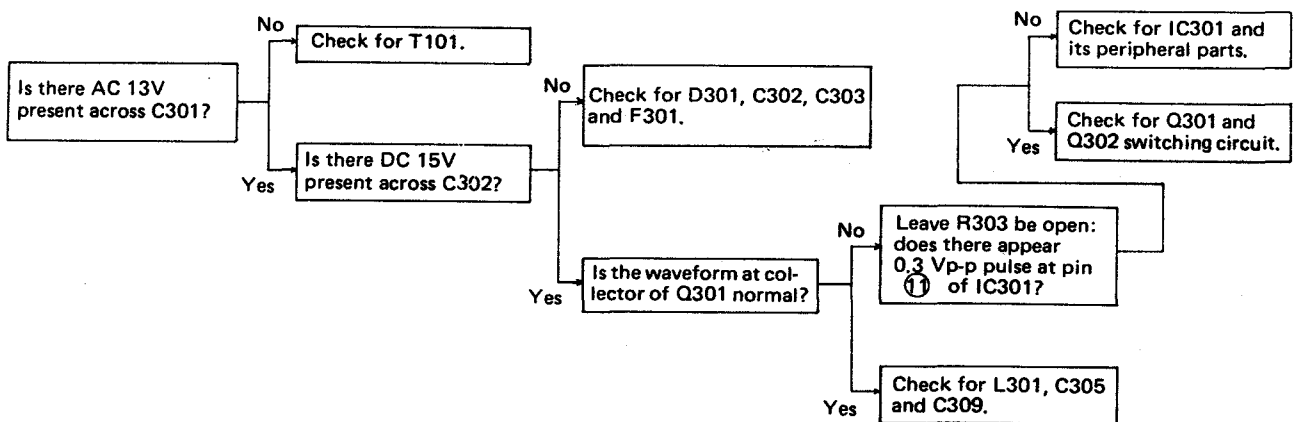
Problem 2: -5V is not developed.



Problem 3: +12V is not developed.



Problem 4: +5V is not developed.

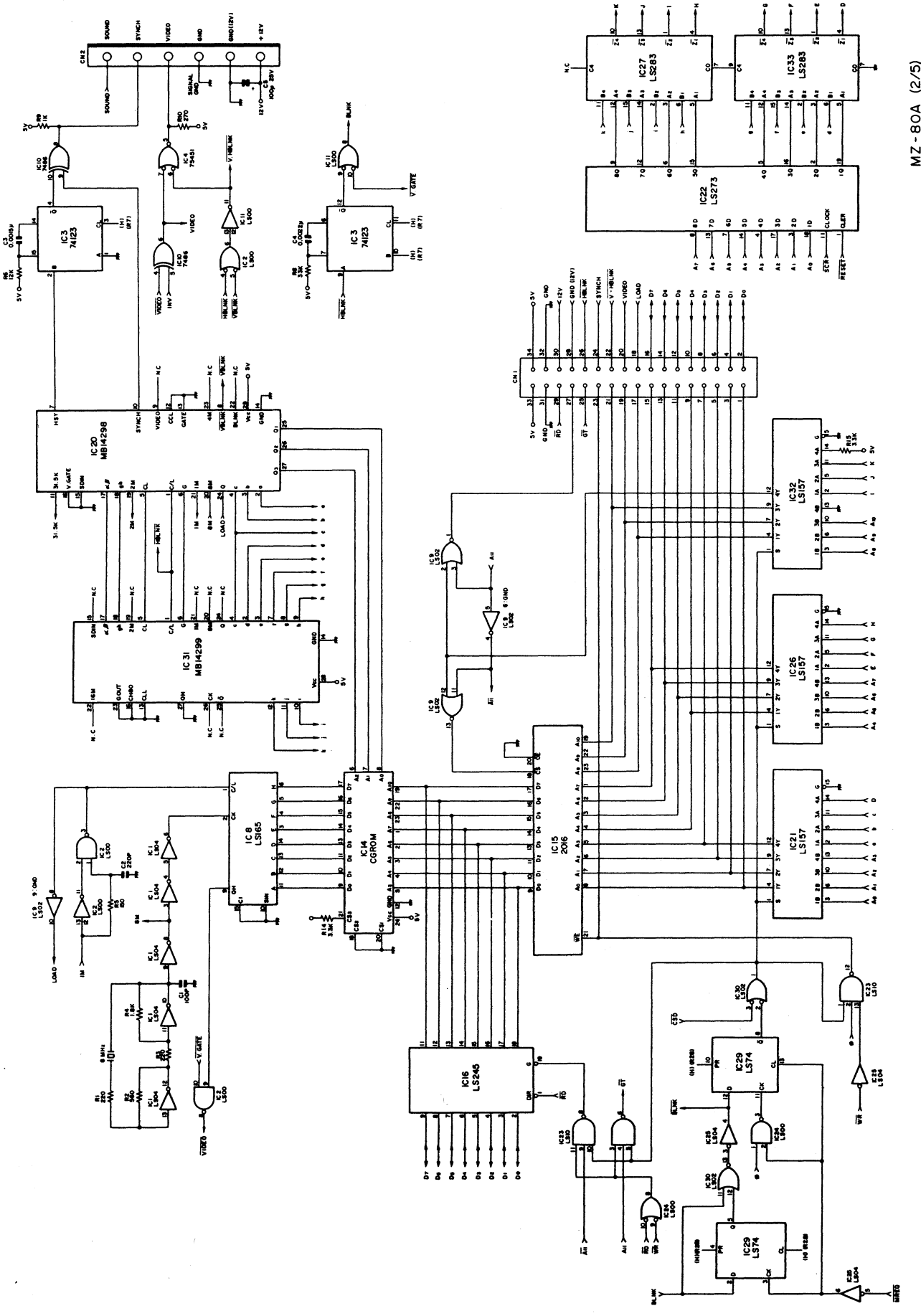


Notes: The circuit diagram and printed wiring board subject to change without prior notice.

MZ-80A (1/5)

(H): Pulled up to +5V line through 3.3K ohm.

■ CPU Board Circuits (2)



MZ-80A (2/5)

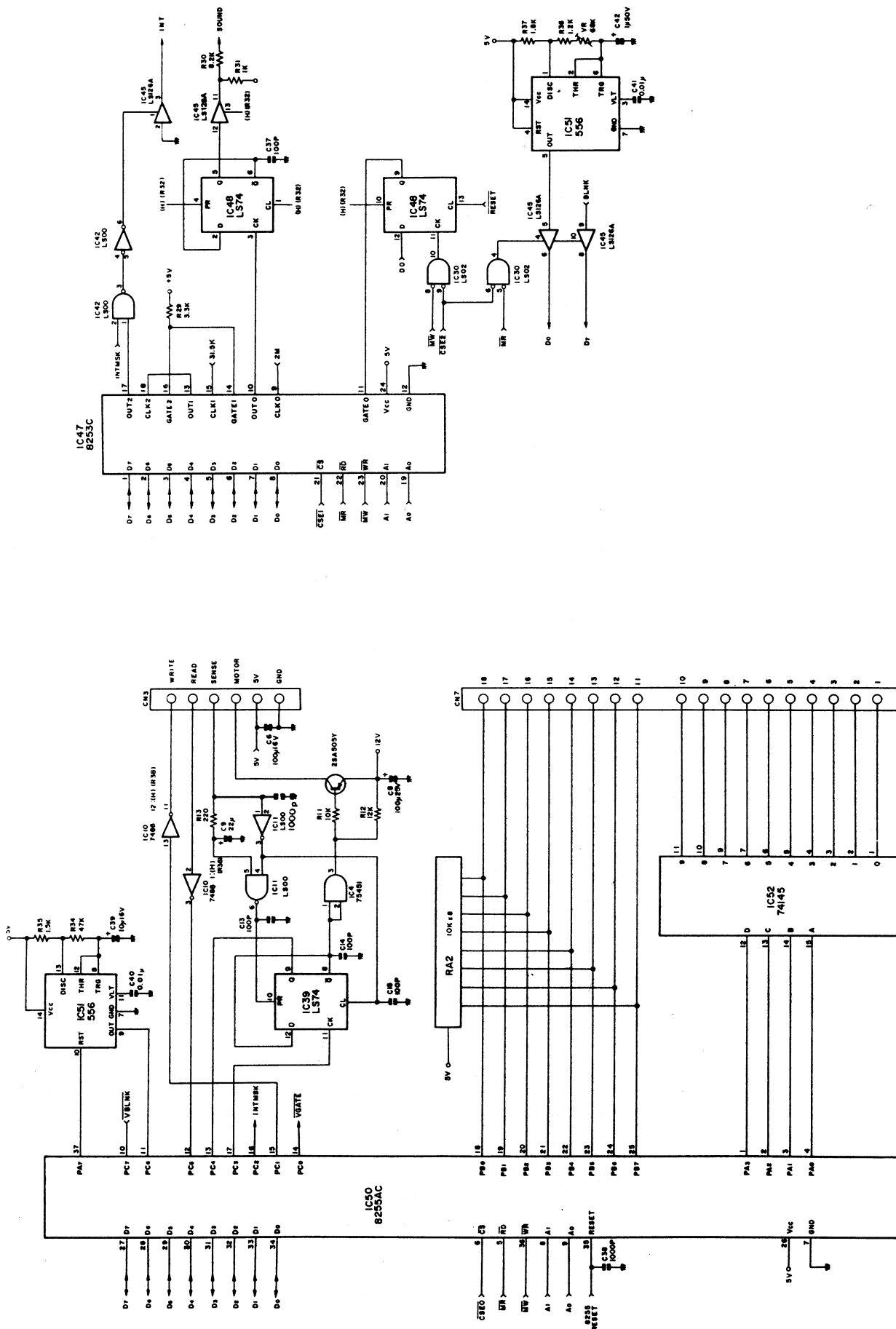
(H): Pulled up to +5V line through 3.3K ohm.

A	B	C	D	E	F	G	H
---	---	---	---	---	---	---	---



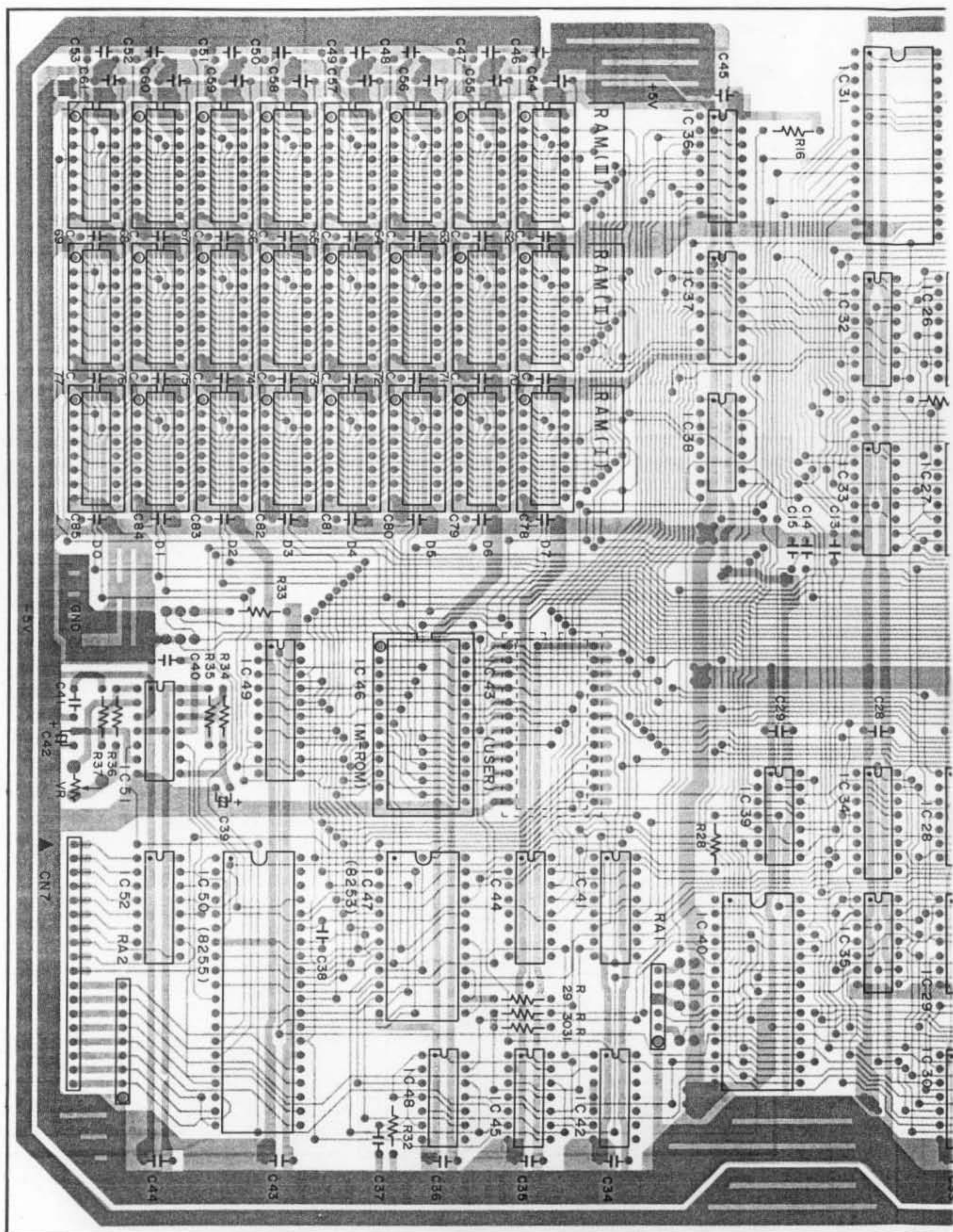
42V >
KAS >
KAS >

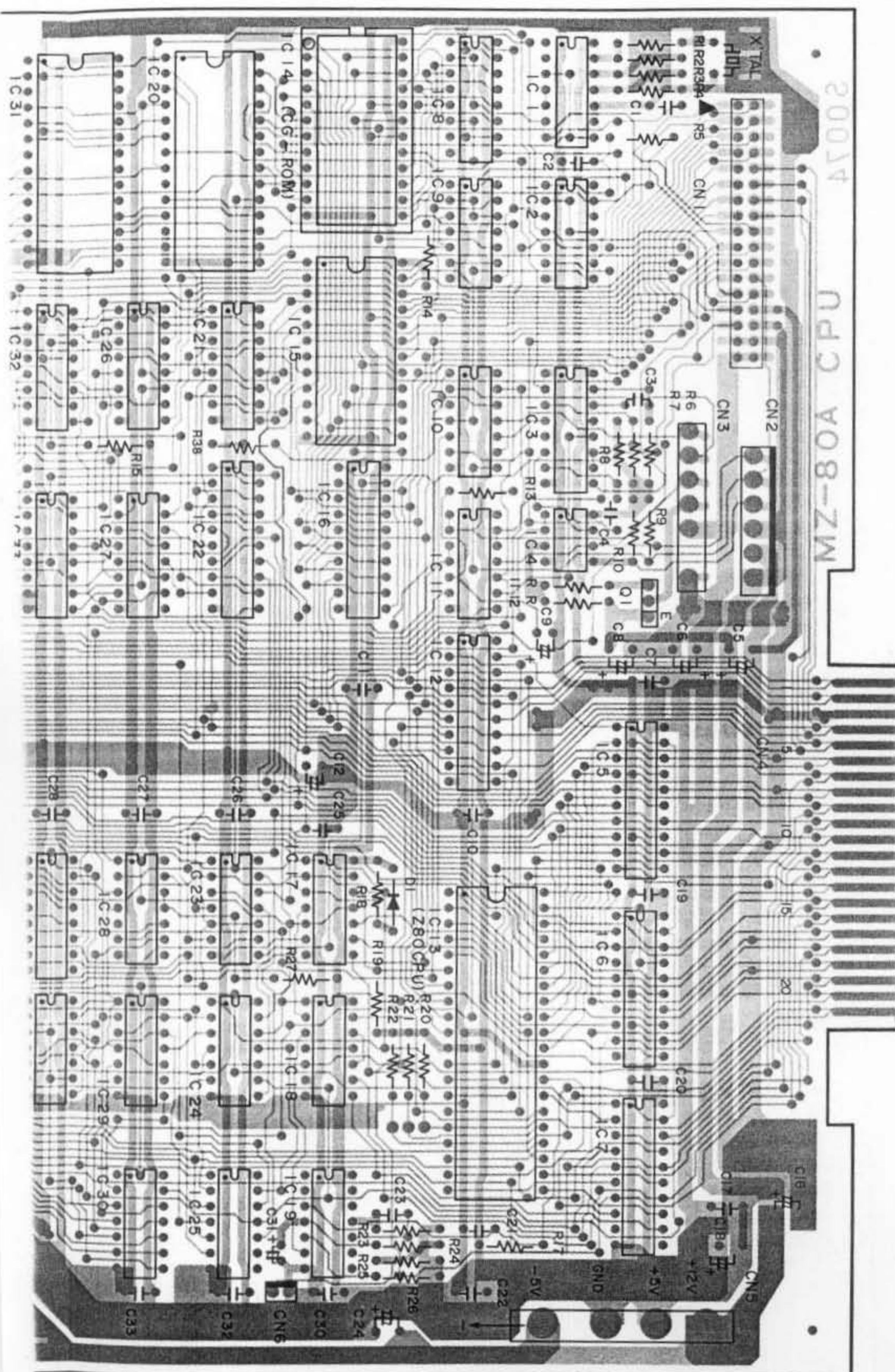
■ CPU Board Circuits (4)



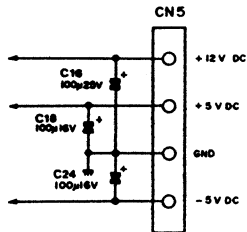
MZ-80A(4/5)

(H): Pulled up to +5V line through 3.3K ohm.





■ CPU Board Circuits (5)



CN 4		
	A	B
1	D1	D0
2	D3	D2
3	GND	GND
4	D5	D4
5	D7	D6
6	GND	A0
7	RESET	A1
8	GND	A2
9	HALT	A3
10	INT	A4
11	GND	A5
12	WR	A6
13	RD	A7
14	GND	A8
15	OREQ	A9
16	MREQ	A10
17	GND	A11
18	EXTINT	A12
19	GND	A13
20	NMI	A14
21	EX WAIT	A15
22	EX RESET	Φ

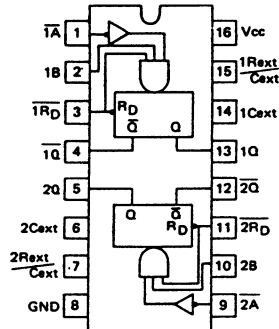
A : PARTS SIDE

MZ-80A(5/5)

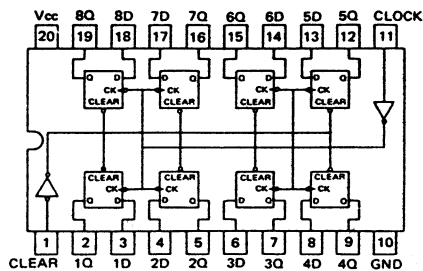
■ IC Pin Assignments (New parts)

Top View

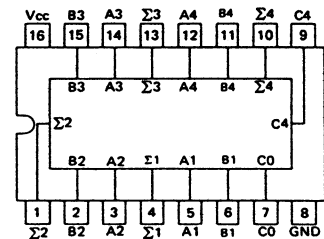
- IC 3 RH-iX0041PAZZ
SN74123N



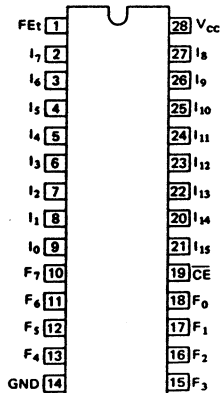
- IC22 RH-iX0250PAZZ
SN74LS273N



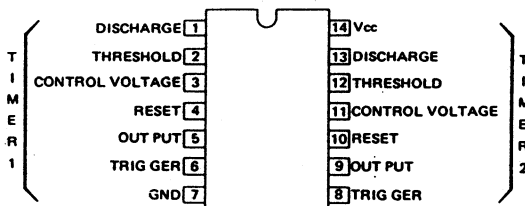
- IC27, 33 RH-iX0300PAZZ
SN74LS283N



- IC 40 RH-iX0301PAZZ
N82S 100



- IC 51 RH-iX0302PAZZ
NE555

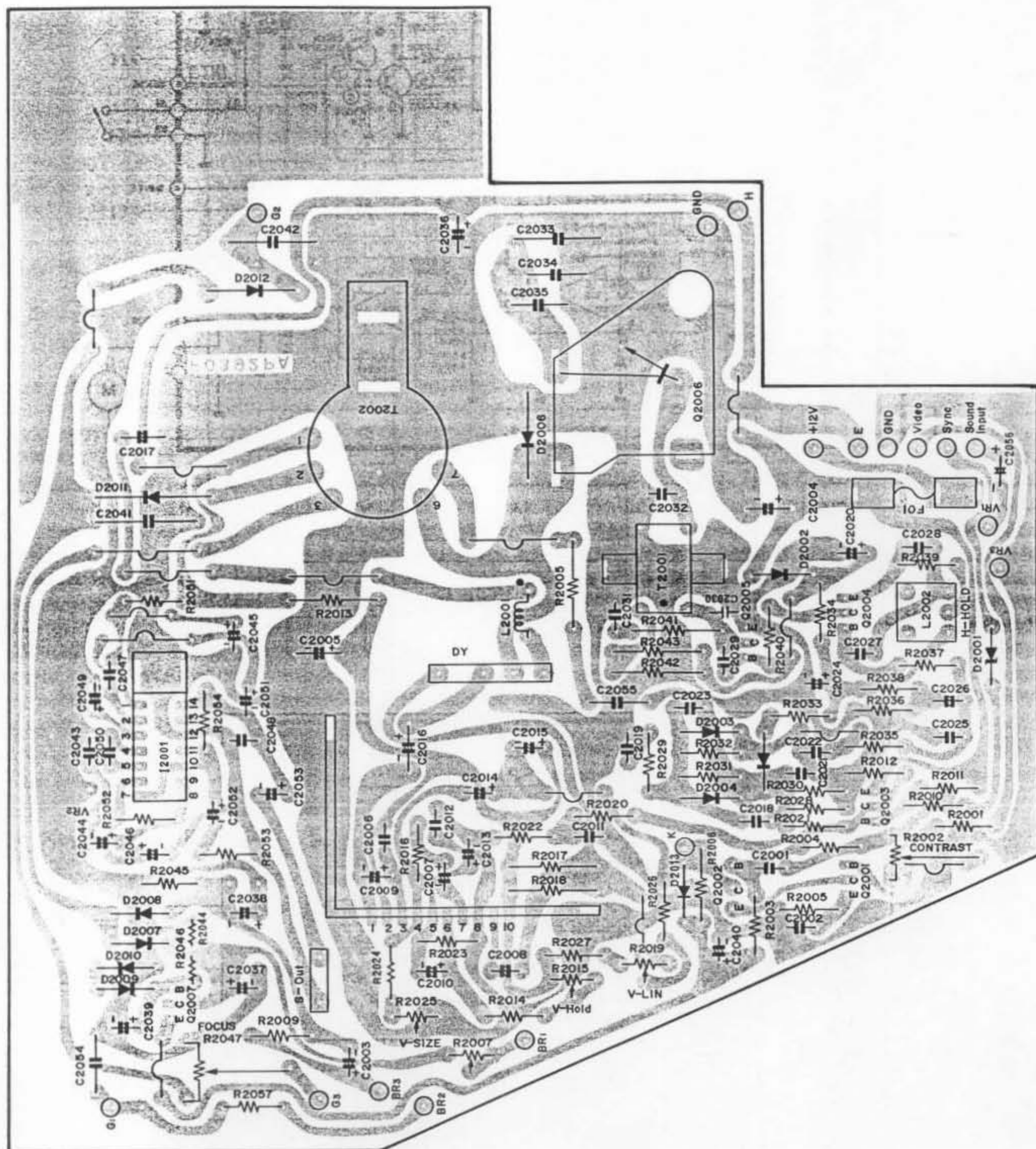


A | B | C | D | E | F | G | H

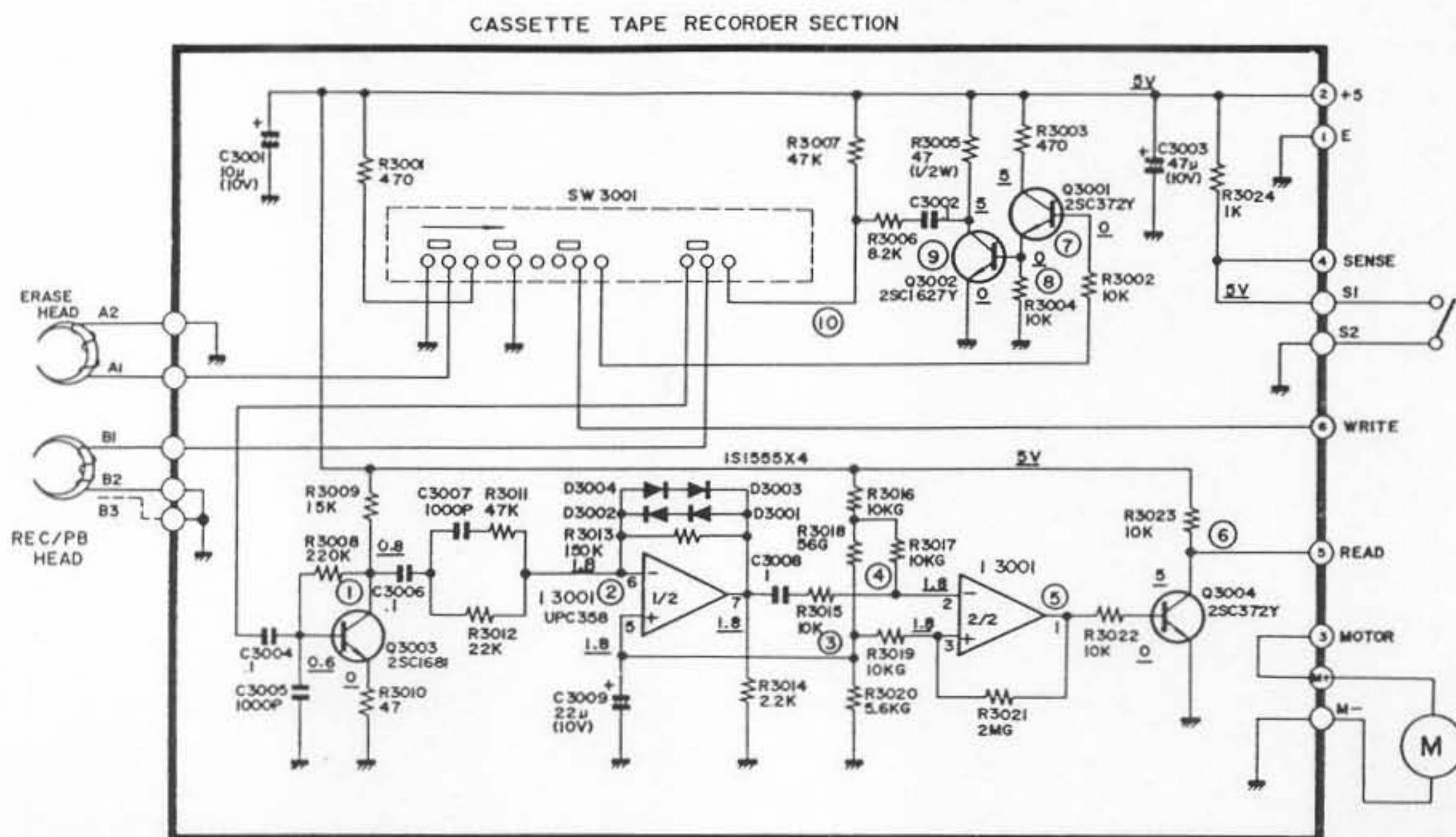


A B C D E F G H

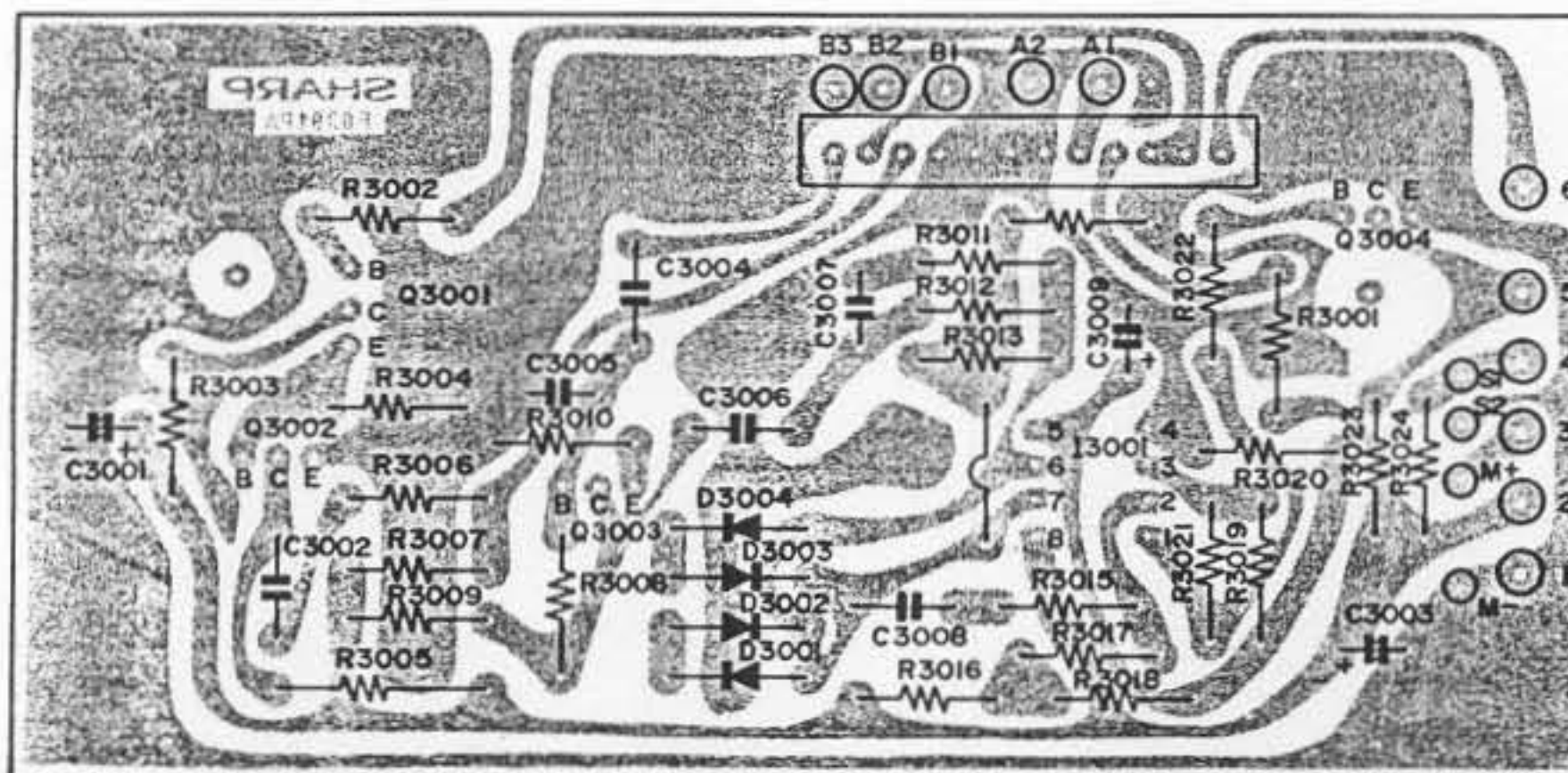
■ Display PWB



■ Cassette Circuit

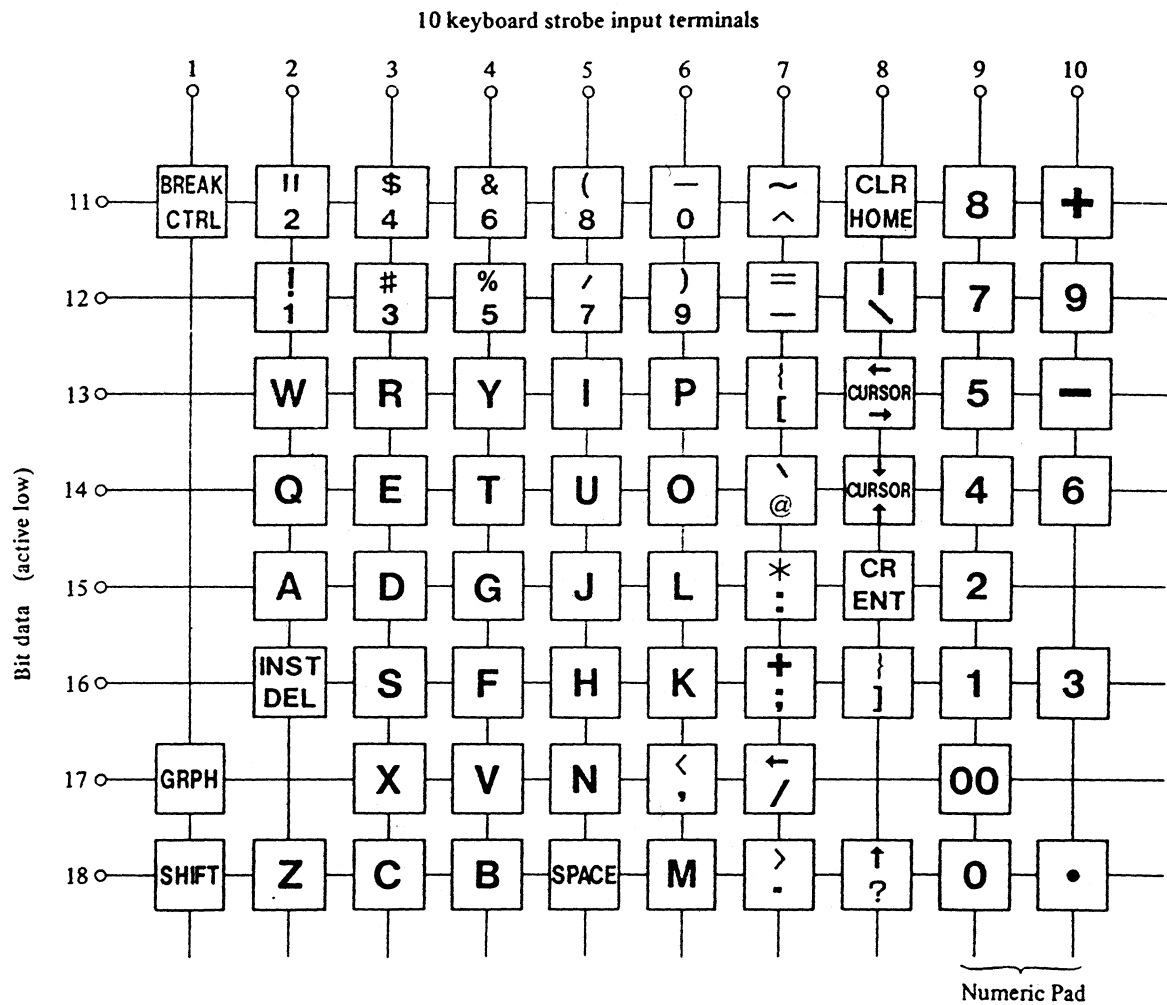


■ Cassette PWB

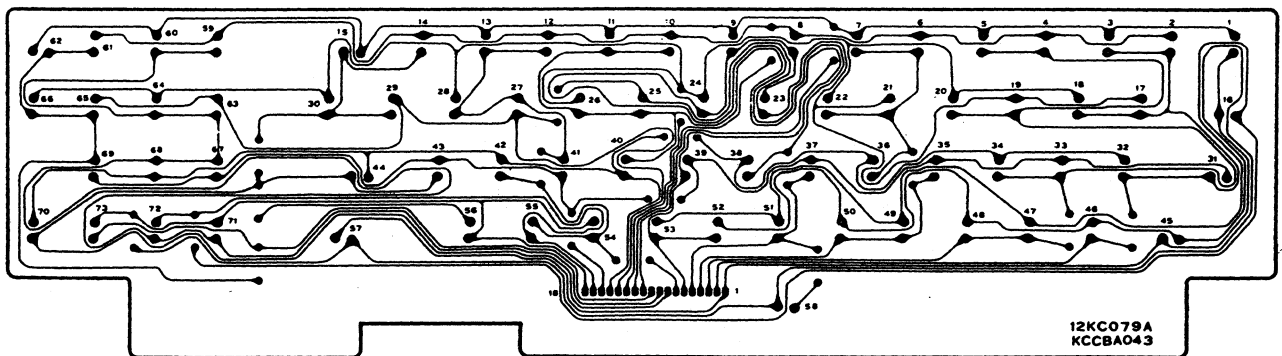


A B C D E F G H

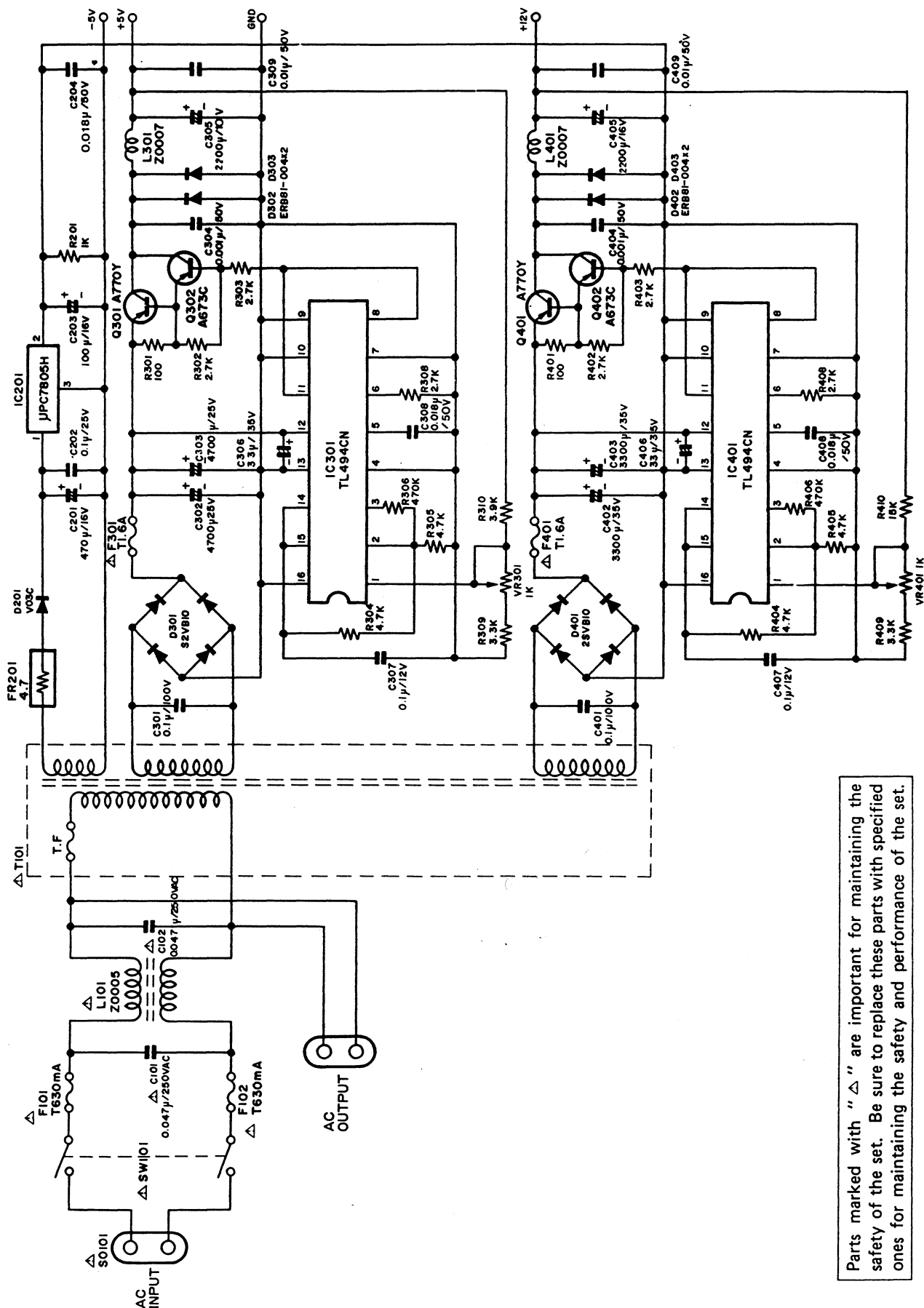
■ Key Board Circuit (Matrix)



■ Key Board PWB

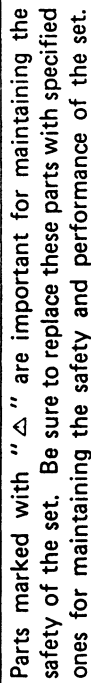


■ Power Supply Circuit (for 220V)

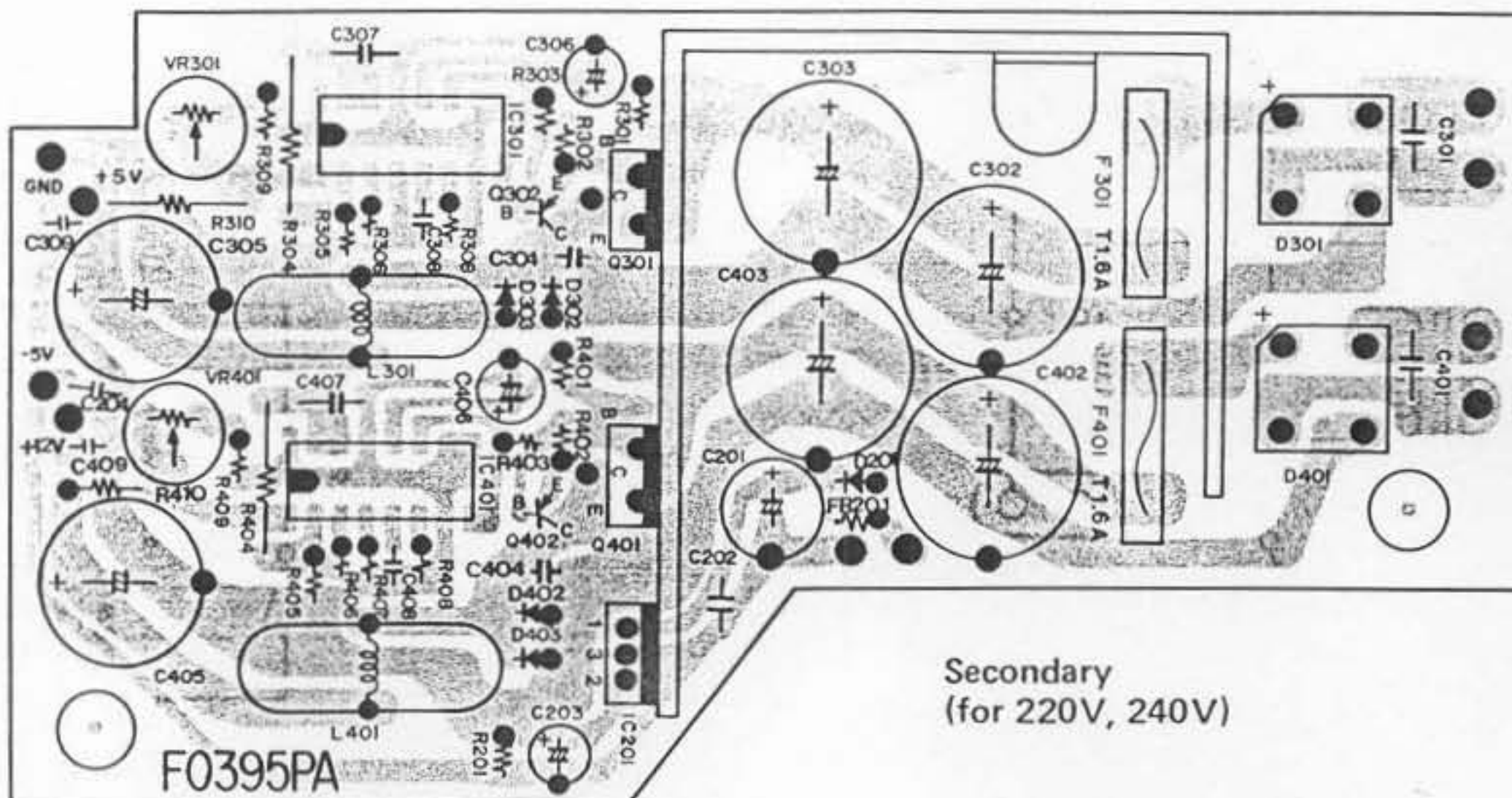
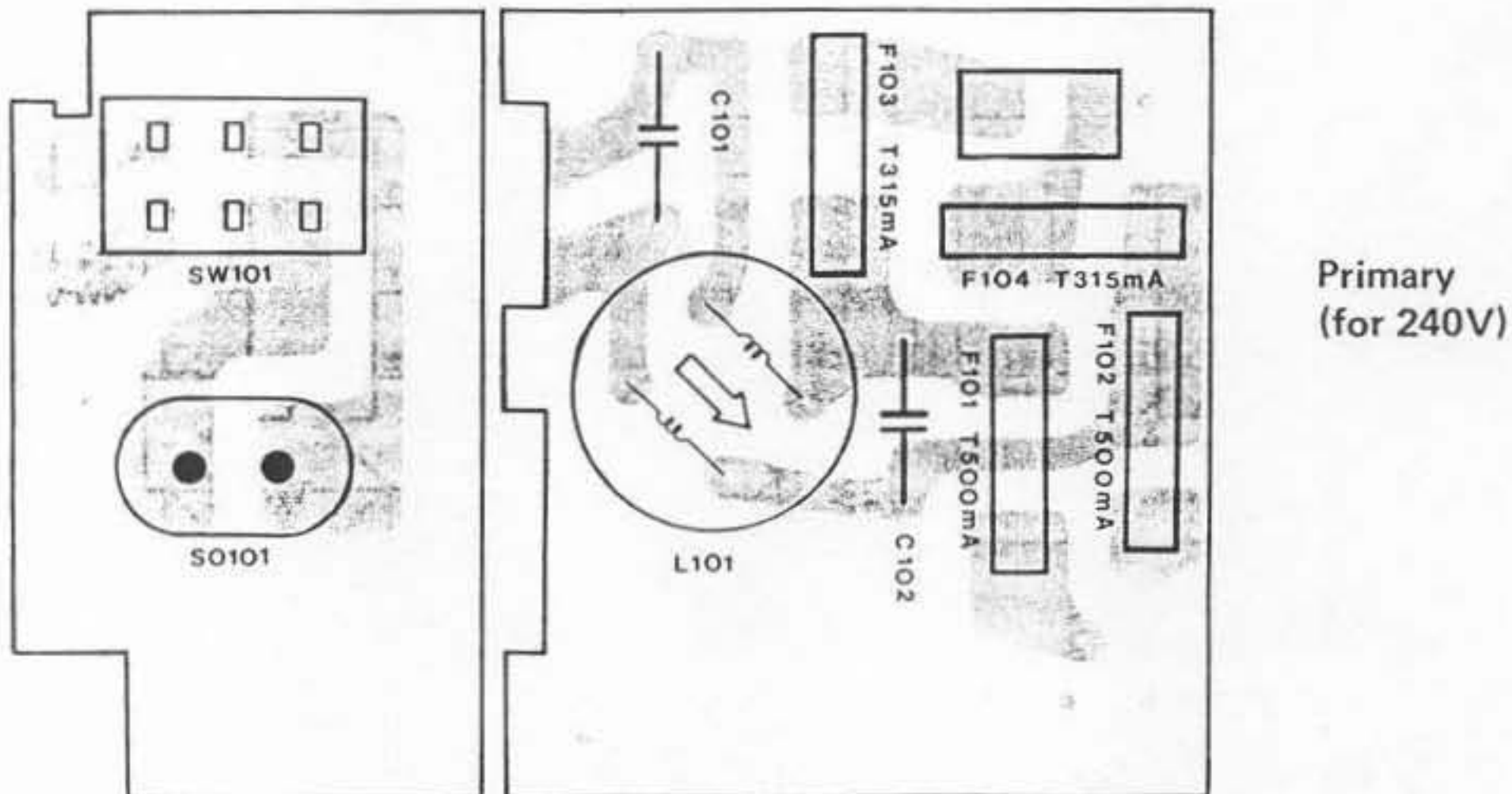
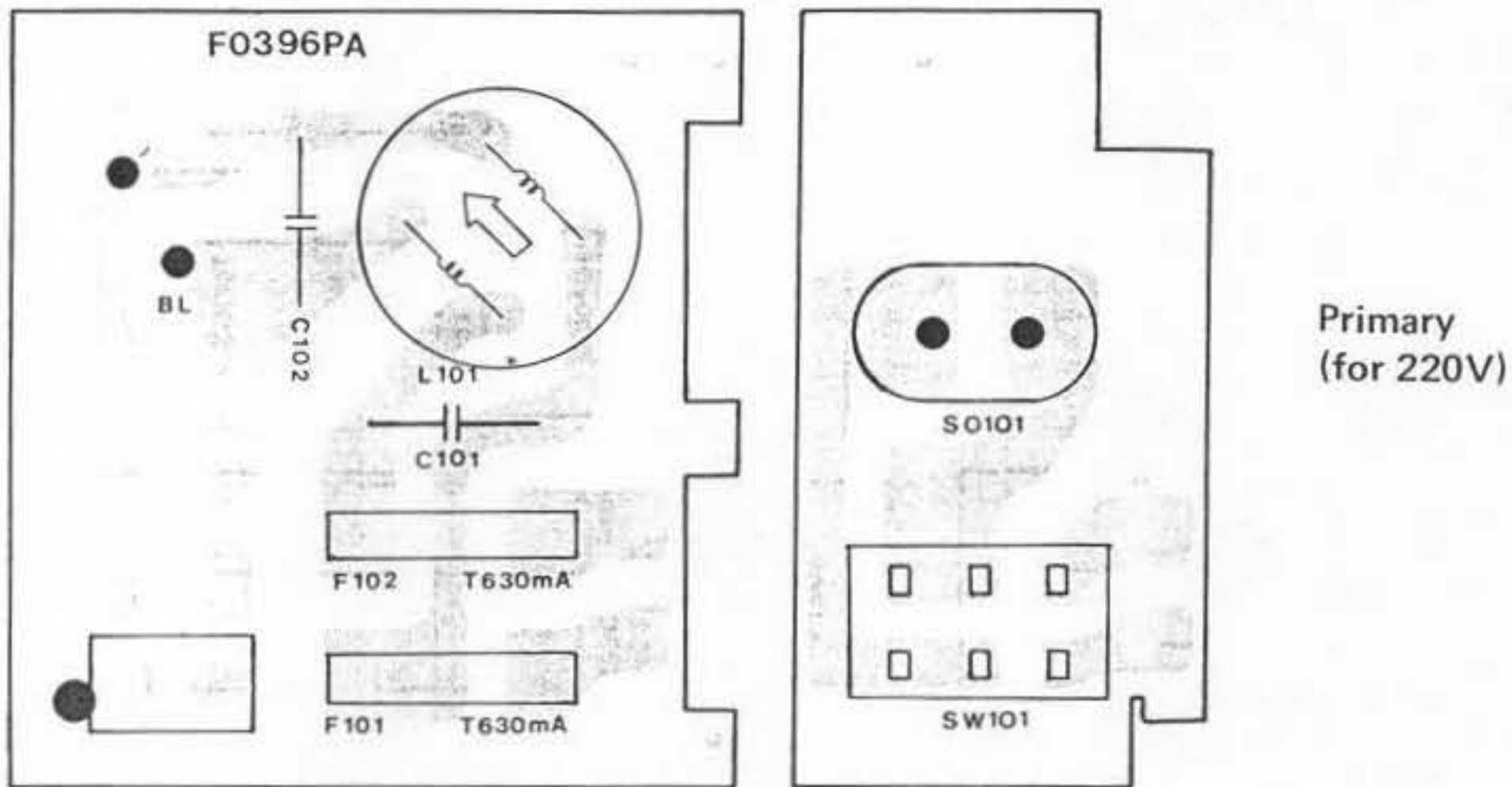


Parts marked with "△" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

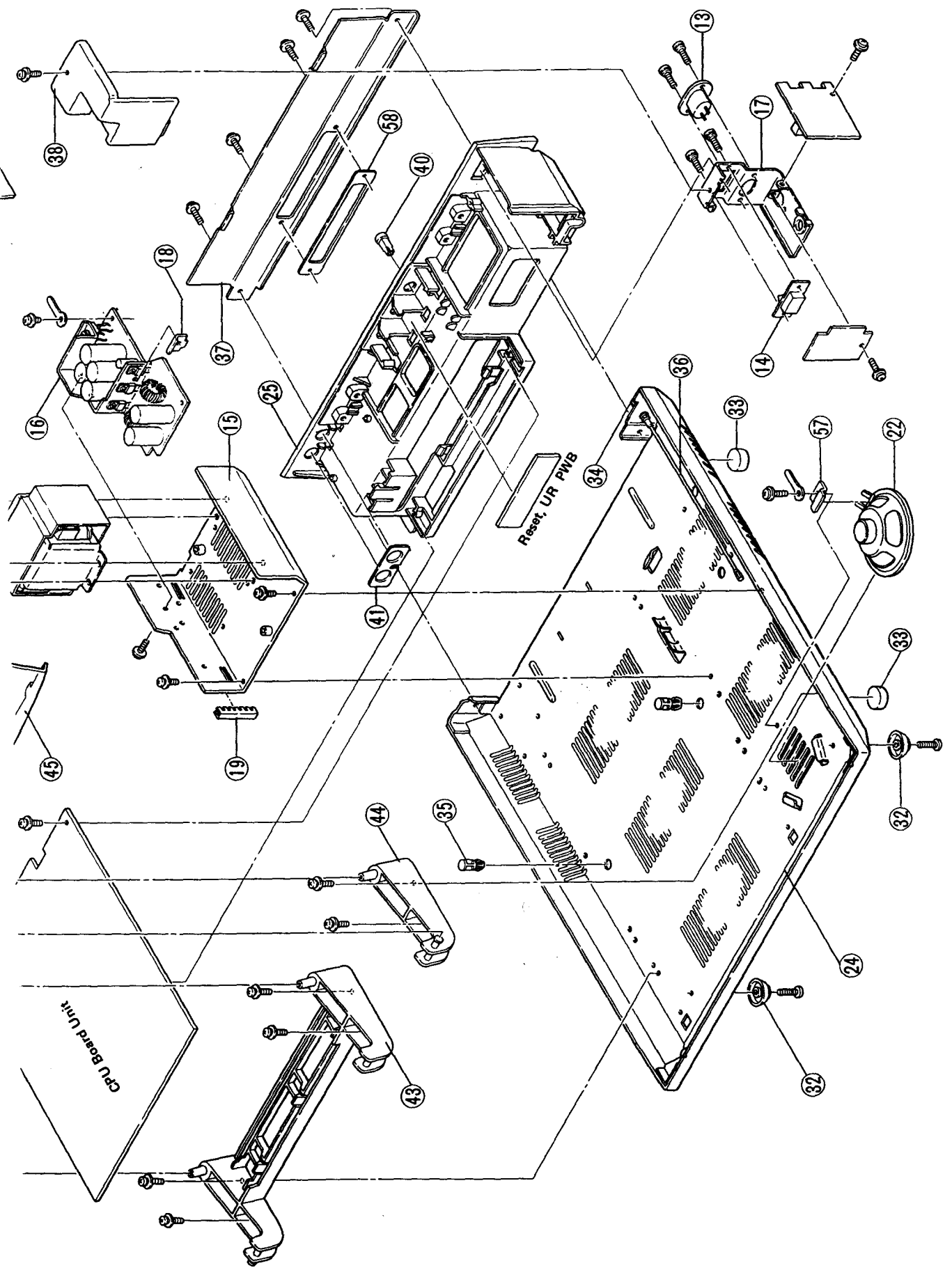
A horizontal number line with tick marks labeled A, B, C, D, E, F, G, and H. The line is divided into 8 equal segments by these points.



■ Power Supply PWB

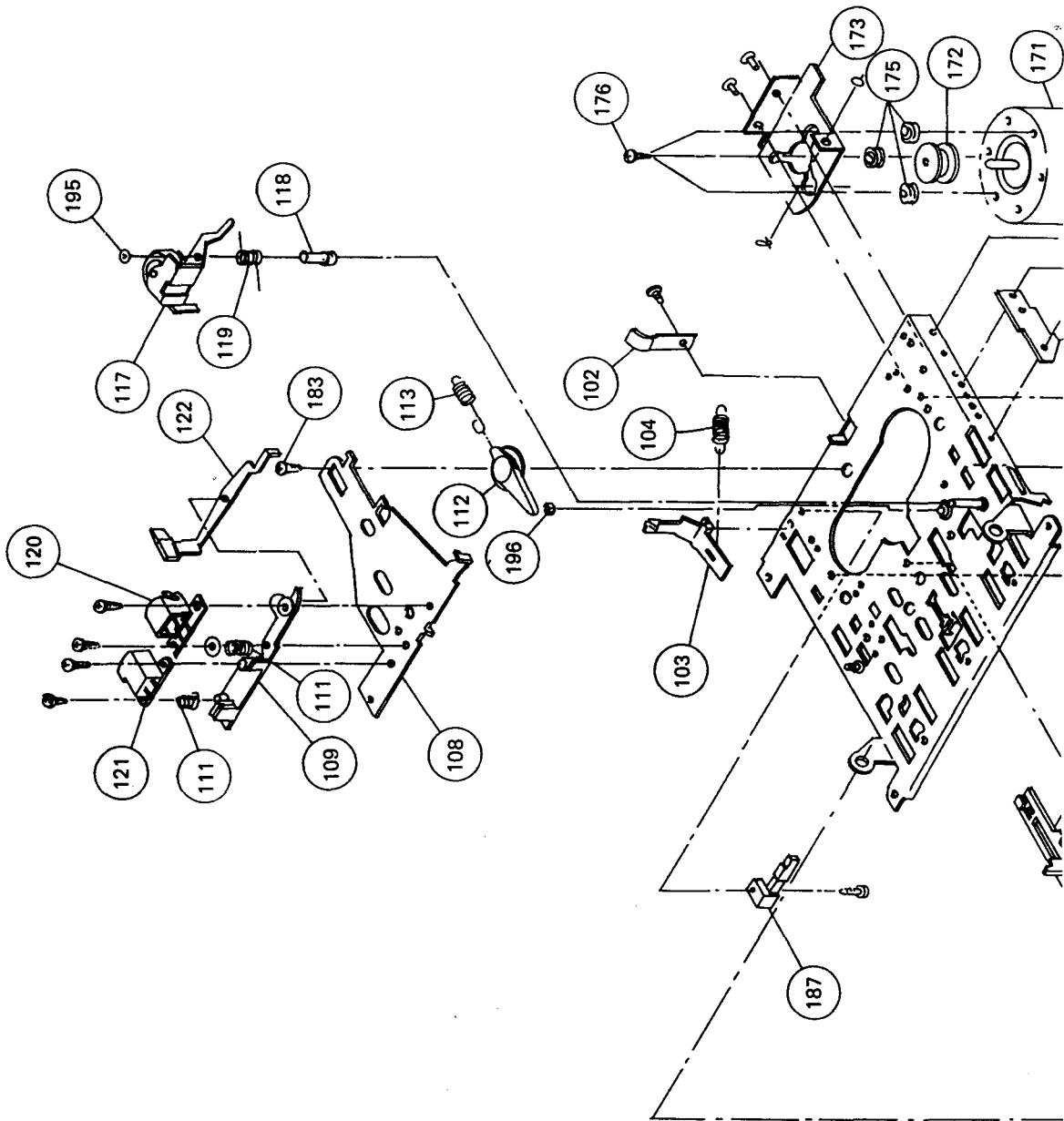


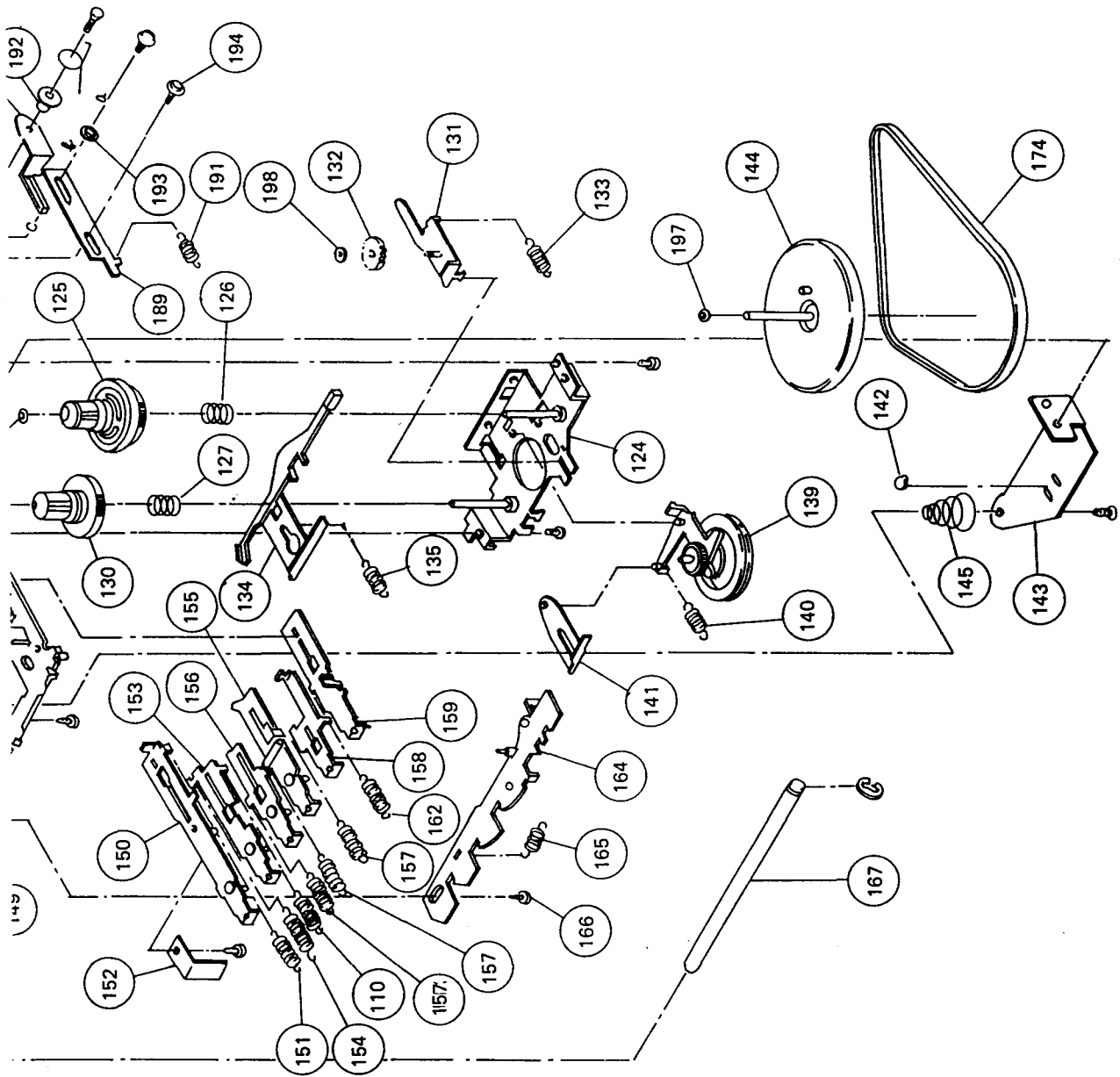
This exploded view diagram illustrates the assembly of a Sharp electronic device, likely a portable television or monitor. The components are numbered 1 through 60. The main assembly includes a front bezel (1) with a central display area (23) and a control panel (30) featuring a speaker grille and buttons. The bezel is mounted on a main chassis (48) which houses internal components like the display unit (21) and a power supply unit (50). A keyboard (12) is shown at the bottom, connected to the main unit via a cable (11). Various screws (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60) and other fasteners are shown in their respective positions. A label 'SHARP' is visible on the front bezel. A separate component, labeled 'Display P.W. Unit', is shown at the top right.



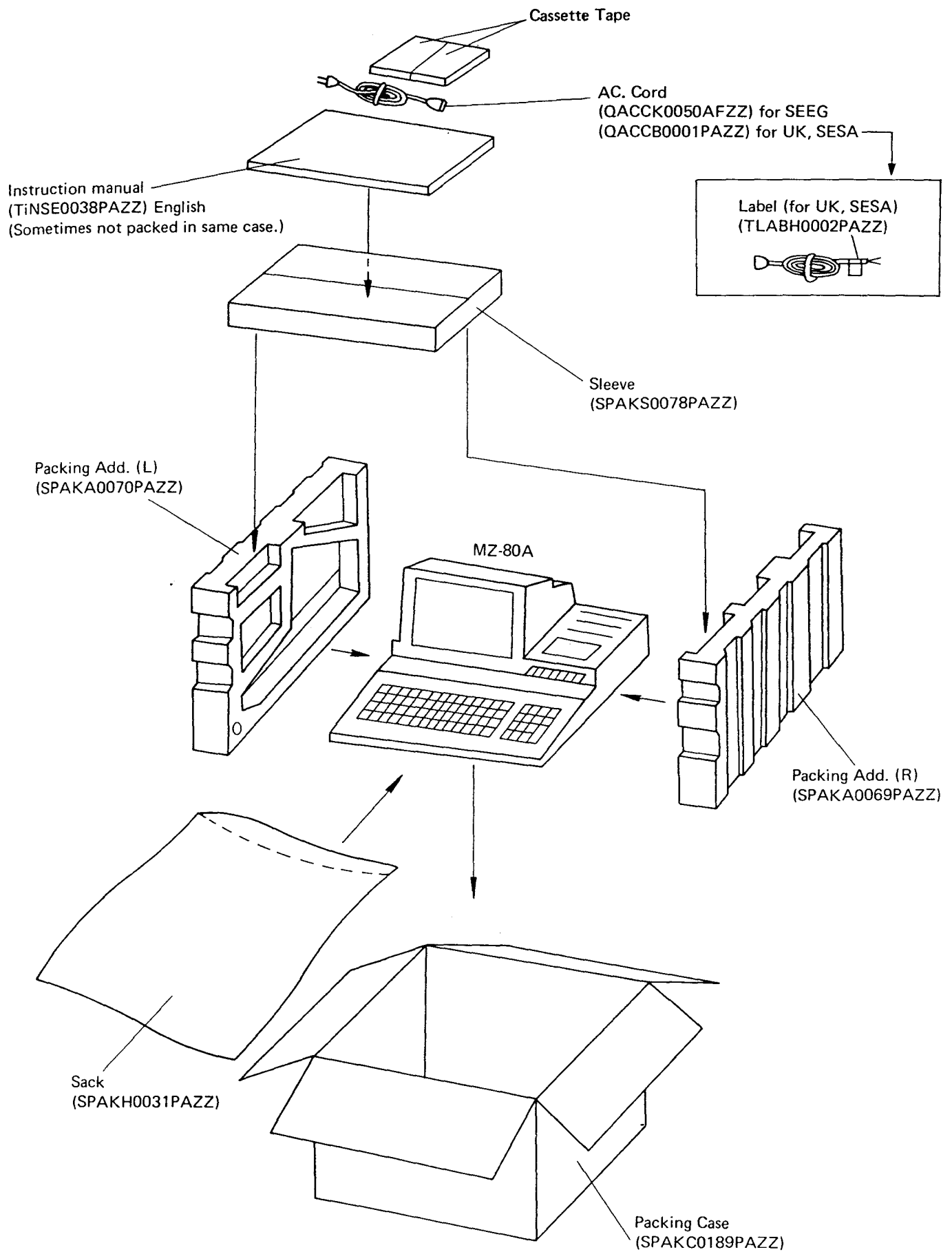
A B C D E F G H I J K

1 2 3 4 5 6 7





PACKING METHOD



REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NAME
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTES: Be sure to use regular parts for securing the safety and reliability of the set. Parts marked with "△" () are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

MODEL MZ-80A

EF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
*** CPU BOARD UNIT SECTION ***				IC46	DPR0M0028PAZZ	Monitor-ROM (4KP-ROM2732)	BB
				IC47	RH-IX0146PAZZ	8253	BC
				IC50	RH-IX0136PAZZ	8255	BA
				IC51	RH-IX0302PAZZ	NE555	AG
				IC52	RH-IX0217PAZZ	SN74145N	AM
	DCPU-0012PAZZ	Assembled CPU Board Unit (Not replacement item)	—				
INTEGRATED CIRCUITS				TRANSISTOR and DIODE			
AM	RH-IX0145PAZZ	D-RAM 4116	BE	Q1	VS2SA505Y//1A	2SA505Y	AF
1				D1	VHD1S1555//1A	1S1555	AA
25	RH-IX0074PAZZ	SN74LS04N	AE	RESISTORS			
38				R1	VRD-SC2EF221J	220 ohm 1/4W	AA
2				R3			
11				R13			
24	RH-IX0070PAZZ	SN74LS00N	AE	R24			
42				R2	VRD-SC2EF561J	560 ohm 1/4W	AA
3	RH-IX0041PAZZ	SN74123N	AK	R4	VRD-SC2EF182J	1.8K ohm 1/4W	AA
4	RH-IX0188PAZZ	SN75451N	AK	R37			
5				R5	VRD-SC2EF151J	150 ohm 1/4W	AA
7	RH-IX0123PAZZ	SN74LS244N	AS	R6	VRD-SC2EF123J	12K ohm 1/4W	AA
49				R12			
8	RH-IX0129PAZZ	SN74LS165N	AQ	R7	VRD-SC2EF332J	3.3K ohm 1/4W	AA
9				R14			
18	RH-IX0071PAZZ	SN74LS02N	AE	R17			
30				R20			
10	RH-IX0132PAZZ	SN7486N	AF	R22	VRD-SC2EF333J	33K ohm 1/4W	AA
12				R26			
16	RH-IX0124PAZZ	SN74LS245N	AR	R32			
13	RH-IX0090PAZZ	CPUZ80	BF	R33			
14	DPR0M0029PAZZ	CG-ROM, (2K P-ROM 2716)	BH	R38	VRD-SC2EF102J	1K ohm 1/4W	AA
15	RH-IX0265PAZZ	TMM 2016P (2K S-RAM)	BP	R9			
17	RH-IX0131PAZZ	SN7414N	AM	R31			
19	RH-IX0040PAZZ	SN74121N	AG	R10			
20	RH-IX0241PAZZ	MB 14298	BD	R11	VRD-SC2EF271J	270 ohm 1/4W	AA
21				R18	VRD-SC2EF103J	10K ohm 1/4W	AA
26	RH-IX0083PAZZ	SN74LS157N	AH	R25			
32				R19			
22	RH-IX0250PAZZ	SN74LS273N	AQ	R23	VRD-SC2EF153J	15K ohm 1/4W	AA
23	RH-IX0076PAZZ	SN74LS10N	AE	R30	VRD-SC2EF822J	8.2K ohm 1/4W	AA
27				R34	VRD-SC2EF473J	47K ohm 1/4W	AA
33	RH-IX0300PAZZ	SN74LS283N	AK	R35	VRD-SC2EF152J	1.5K ohm 1/4W	AA
28				R36	VRD-SC2EF122J	1.2K ohm 1/4W	AA
29				RA1	RMPTC1020PAZZ	Resistor Array 10K ohm x 5	AC
39	RH-IX0079PAZZ	SN74LS74AN	AG	RA2	RMPTC1004PAZZ	Resistor Array 10K ohm x 8	AD
48				VR	RVR-M0019PAZZ	Variable Resistor 68K ohm	AC
31	RH-IX0242PAZZ	MB14299	BD				
34	RH-IX0081PAZZ	SN74LS139N	AL				
35	RH-IX0078PAZZ	SN74LS32N	AF				
36							
37	RH-IX0148PAZZ	SN74S157N	AQ				
40	RH-IX0301PAZZ	N82S100	BK				
41							
44	RH-IX0104PAZZ	SN74LS42N	AH				
45	RH-IX0142PAZZ	SN74LS126AN	AH				

MODEL MZ-80A PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
CAPACITORS				C66			
C13				C68			
C15				C71			
C37				C73			
C2	VCCSPR1H310J	100PF, 50V, Ceramic	AA	C75	VCTYPU1ED104Z	0.1MFD, 25V, Ceramic	AB
C3	VCCSPR1H6221J	220PF, 50V, Ceramic	AA	C77			
C4	VCQYKU1HM152K	0.0015MFD, 50V, Film	AA	C78			
C5	VCQYKU1HM222K	0.0022MFD, 50V, Film	AA	C80			
C8	VCEAAU1EW107M	100MFD, 25V, Aluminum	AB	C82			
C16				C84			
C6				MISCELLANEOUS			
C18	VCEAAU1CW107M	100MFD, 16V, Aluminum	AB	X'TAL	RCRSA0018PAZZ	Crystal, 8.064MHz	AM
C24				CN1	QSOCZ0030PAZZ	34-Pin Socket	AS
C7				CN2	QPLGZ0018PAZZ	6-Pin Terminal (for Display)	AD
C10				CN3	QPLGZ0006PAZZ	6-Pin Terminal (for Cassette)	AD
C11				CN5	QPLGN0403CEZZ	4-Pin Terminal (for Power Supply)	AB
C17				CN6	QPLGZ0042PAZZ	2-Pin Terminal (for Reset SW)	AD
C19				CN7	QSOCZ0029PAZZ	18-Pin Terminal (for KeyBoard)	AG
C20					QSOCZ0022PAZZ	16-Pin IC Socket	AE
C22					QSOCZ0010PAZZ	24-Pin IC Socket	AF
C25					QSOCZ0011PAZZ	28-Pin IC Socket	AN
C30					QSOCZ0012PAZZ	40-Pin IC Socket	AH
C32					QTANL0005PAZZ	1-Pin Tip	AA
C36				*** DISPLAY PWB UNIT SECTION ***			
C43					DPWB-0296PAZZ	Assembled Display PWB Unit (Not replacement item)	—
C46	VCTYPU1BD104Z	0.1MFD, 12V, Ceramic	AB	INTEGRATED CIRCUITS			
C48				i2001	RH-iX0015TAZZ	μPC1031H, Vertical deflection	AN
C54				i2002	RH-iX0243PAZZ	LA4200 Sound Amp.	AK
C61				TRANSISTORS			
C63				Q2001	VS2SC1213-CIA	2SC1213	AC
C65				Q2005			
C67				Q2002	VS2SC1514-/1E	2SC1514	AF
C69				Q2003	VS2SA673-C/1E	2SA673	AC
C70				Q2004			
C72				Q2006	VS2SC681A-R1A	2SC681A-R	AM
C74				Q2007	VS2SC1213AC1A	2SC1213A	AC
C76				DIODES			
C79				D2001	VHD02Z7R5A//A	7.5V Zener, 02Z75A	AC
C81				D2002			
C83				D2006	RH-DX0039TAZZ	SI-RECT208	AC
C85				D2003			
C9	VCEAAU1CW226Y	22MFD, 16V, Aluminum	AC	D2004	VHD1N34A///-1	1N34A	AB
C12	VCKZPR1HF222P	2,200PF, 50V, Ceramic	AA	D2005			
C21				D2007	RH-DX0062CEZZ	RH1	AD
C23	VCKZPR1HF103P	0.01MFD, 50V, Ceramic	AA	D2008			
C40				D2011	RH-DX0043TAZZ	SiR 60	AC
C41				D2012			
C31	VCEAAU1HW105Y	1MFD, 50V, Aluminum	AB	D2009	VHD05Z20X//1A	20V Zener	AB
C42				D2010			
C38	VCKZPR1HF102P	1000PF, 50V, Ceramic	AA	D2013	VHD1S1555//1A	1S1555	AA
C39	VCEAAU1CW106Y	10MFD, 16V, Aluminum	AB				
C47							
C49							
C51	VCTYPU1ED104Z	0.1MFD, 25V, Ceramic	AB				
C53							
C62							
C64							

REF. NO.	PART NO.	DESCRIPTION	CODE
RESISTORS			
12001	VRD-ST2EF470J	47 ohm 1/4W	AA
12002	RVR-M7003TAZZ	Variable Resistor 500 ohm	AC
12003	VRD-ST2EF153J	15K ohm 1/4W	AA
12004			
12020			
12005			
12006	VRD-ST2HF122J	1.2K ohm 1/4W	AA
12007	RVR-M0005VAZZ	Variable Resistor 200K ohm	AC
12008	RVR-B4011PAZZ	Variable Resistor 250K ohm	AD
12009	VRD-ST2EF224J	220K ohm 1/4W	AA
12010	VRD-ST2EF472J	4.7K ohm 1/4W	AA
12011	VRD-ST2EF473J	47K ohm 1/4W	AA
12012	VRD-ST2EF102J	1K ohm 1/4W	AA
12027			
12028			
12038			
12013	VRD-ST2HF3R3J	3.3 ohm 1/2W	AA
12014	VRD-ST2EF273J	27K ohm 1/4W	AA
12015	RVR-M7010TAZZ	Variable Resistor 50K ohm	AC
12016	VRD-ST2EF122J	1.2K ohm 1/4W	AA
12017	VRD-ST2HF1R5J	1.5 ohm 1/2W	AA
12018			
12019	RVR-M7005TAZZ	Variable Resistor 300 ohm	AC
12021	VRD-ST2EF331J	330 ohm 1/4W	AA
12026			
12053			
12022			
12023	VRD-ST2EF123J	12K ohm 1/4W	AA
12024	VRD-ST2EF272J	2.7K ohm 1/4W	AA
12025	VRD-ST2EF103J	10K ohm 1/4W	AA
12025	RVR-M7059TAZZ	Variable Resistor 20K ohm	AC
12029	VRD-ST2EF821J	820 ohm 1/4W	AA
12030	VRD-ST2EF822J	8.2K ohm 1/4W	AA
12031	VRD-ST2EF682J	6.8K ohm 1/4W	AA
12032			
12033			
12037			
12034	VRD-ST2EF330J	33 ohm 1/4W	AA
12035	VRD-ST2EF332J	3.3K ohm 1/4W	AA
12036			
12039	VRD-ST2EF680J	68 ohm 1/4W	AA
12040	VRD-ST2EF221J	220 ohm 1/4W	AA
12041	VRD-ST2HF560J	56 ohm 1/2W	AA
12042	VRD-ST2HF330J	33 ohm 1/2W	AA
12043			
12044	VRD-RU2EE473J	47K ohm 1/4W	AA
12045	VRD-ST2EF154J	150K ohm 1/4W	AA
12046	VRD-RU2EE471J	470 ohm 1/4W	AA
12047	RVR-B4009PAZZ	Variable Resistor 1M ohm	AA
12050	RVR-A0004PAZZ	Variable Resistor 10K ohm	AD
12051	VRD-ST2EF120J	12 ohm 1/4W	AE
12052	VRD-ST2EF104J	100K ohm 1/4W	AA
12054			
12057			
12055			
12055	VRS-PU3DB222J	2.2K ohm 2W	AA
12060	VRD-ST2EF394J	390K ohm 1/4W	AA

APACITORS

2001	VCEAAU1HW476M	47MFD, 50V, Aluminum	AC
2039			
2040			
2002	VCCSPR1H6151J	150PF, 50V, Ceramic	AA

REF. NO.	PART NO.	DESCRIPTION	CODE
C2003	VCEAAU2EW106M	10MFD, 250V, Aluminum	AD
C2004	VCEAAU1CW478M	4,700MFD, 16V, Aluminum	AH
C2005	VCEAAU1CW108M	1,000MFD, 16V, Aluminum	AD
C2045			
C2006	VCQYKU1HM333K	0.033MFD, 50V, Film	AB
C2031			
C2007	VCEAAU1EW475M	4.7MFD, 25V, Aluminum	AB
C2013			
C2008	VCEAAU1AW227M	220MFD, 10V, Aluminum	AB
C2009	VCEAAU1CW226Y	22MFD, 16V, Aluminum	AB
C2010	VCSACU1VE105K	1MFD, 35V, Tantalum	AC
C2011	VCQYKU1HM332K	0.0033MFD, 50V, Film	AA
C2012			
C2014	RC-EZ0029TAZZ	22MFD, 16V, Aluminum	AC
C2015	VCEABA1CW226M	22MFD, 16V, Aluminum	AC
C2016	VCEAAU1CW228M	2,200MFD, 16V, Aluminum	AF
C2017	RC-EZ0027TAZZ	10MFD, 25V, Nonpolar Alum.	AG
C2018	VCQYKU1HM153K	0.015MFD, 50V, Film	AB
C2019			
C2020	VCEAAU1CW227M	220MFD, 16V, Aluminum	AB
C2036			
C2046	VCQYKU1HM683K	0.068MFD, 50V, Film	AB
C2021			
C2022	VCQYKU1HM223K	0.022MFD, 50V, Film	AB
C2023	VCQYKU1HM103K	0.01MFD, 50V, Film	AB
C2030			
C2024	VCEAAU1CW107M	100MFD, 16V, Aluminum	AB
C2025	VCQYKU1HM473K	0.047MFD, 50V, Film	AB
C2026	VCEAAU1EW335M	3.3MFD, 25V, Aluminum	AB
C2027	VCQYKU1HM123J	0.012MFD, 50V, Film	AB
C2028	VCQYKU1HM473J	0.047MFD, 50V, Film	AB
C2029	VCCSPR1H6101K	100PF, 50V, Ceramic	AA
C2032	VCKZPR1HF103P	0.01MFD, 50V, Ceramic	AA
C2043			
C2033	VCQPSC2DA683K	0.068MFD, 200V, Film	AB
C2034	VCQPSC2DA333K	0.033MFD, 200V, Film	AB
C2035	VCQPSC2DA153K	0.015MFD, 200V, Film	AB
C2037	VCEAAU2AW227M	220MFD, 100V, Aluminum	AF
C2038	VCEAAU2EW105M	1MFD, 250V, Aluminum	AC
C2041	VCQYSU2JM104K	0.1MFD, 630V, Film	AE
C2042			
C2044	VCEAAU1HW475M	4.7MFD, 50V, Aluminum	AB
C2047	VCKZPR1HF102Z	1,000PF, 50V, Ceramic	AA
C2050			
C2048	VCTYPU1BD104Z	0.1MFD, 12V, Ceramic	AB
C2049	VCEAAU1EW336M	33MFD, 25V, Aluminum	AB
C2051	VCEAAU1CW476M	4.7MFD, 16V, Aluminum	AB
C2052	VCEAAU1CW106M	10MFD, 16V, Aluminum	AB
C2056			
C2053	VCEAAU1CW477M	470MFD, 16V, Aluminum	AC
C2054	VCKZPU2HE103P	0.01MFD, 500V, Ceramic	AB
C2055	VCQPSC2DA104K	0.1MFD, 200V, Film	AC

COIL AND TRANSFORMERS

T2001	RTRNZ0017TAZZ	H-Drive Transformer	AF
T2002	RTRNZ0015TAZZ	H-Drive Transformer	AZ
L2001	RCILZ0057TAZZ	H-Line Coil	AG
L2002	RCILB0031TAZZ	H-Hold Coil	AG

MISCELLANEOUS

PRDAF0147TAZZ	Radiator (for IC2001)	AB
PRDAF0107TAZZ	Radiator (for 2SC681A-R)	AB
QSOVCV0013VAZZ	CRT Socket	AF

MODEL MZ-80A PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE	
F01	OPLGN0207CEZZ	2-Pin Plug (for Speaker)	AA	C3005	VCQYKU1HM102K	0.001MFD, 50V, Filum	AA	
	DSÖCN0099PAZZ	6-Pin Socket with Lead Wire	AH	C3007				
	OPLGN0404CEZZ	4-Pin Plug (for Refraction Coil)	AB	C3009		VCEAAU1AW226M	22MFD, 10V, Aluminum	AB
	QFSDH1002CEZZ	Fuse Holder	AA	MISCELLANEOUS				
	QFS-C2002TAZZ	Fuse 2A	AD	SW3001	QSW-S0015VAZZ	Slide Switch (2 contacts)	AG	
					QSÖCN0078PAZZ	6-pin Socket with Lead Wire	AH	
*** CASSETTE TAPE PWB UNIT SECTION ***				*** CASSETTE MECH. UNIT SECTION ***				
DPWB-0293PAZZ		Assembled Cassette Tape PWB Unit (Not replacement item)	—	KMECA0003PAZZ		Assembled Cassette Mech. Unit	BG	
INTEGRATED CIRCUIT				MISCELLANEOUS				
I3002	RH-iX0150PAZZ	OP Amp LM358	AK	102	94R00280ACTRM	Pack Spring	AC	
TRANSISTORS				103	94R00380ACTRM	Record Safety Lever	AC	
Q3001	VS2SC1815Y/1E	2SC1815Y	AB	104	94R00480ACTRM	Spring	AB	
Q3004								
Q3002	VS2SC1627-Y-A	2SC1627Y	AD	108	94R00880ACTRM	Head Panel	AG	
Q3003	VS2SC1681//-1	2SC1681	AD	109	94R00980ACTRM	Head Base	AC	
DIODES				110	94R01080ACTRM	Spring	AB	
D3001	VHD1S1555//1A	1S1555	AA	111	94R01180ACTRM	Head Spring	AA	
D3004								
RESISTORS				112	94R01280ACTRM	Take-up Roller Ass'y	AH	
R3001	VRD-ST2EF471J	470 ohm 1/4W	AA	113	94R01380ACTRM	Spring B	AB	
R3003								
R3002	VRD-ST2EF103J	10K ohm 1/4W	AA	117	94R01780ACTRM	Pinch Roller Ass'y	AG	
R3004								
R3015								
R3022								
R3025								
R3005	VRD-ST2HF470J	47 ohm 1/2W	AA	118	94R01880ACTRM	Pinch Roller Arm Sleeve	AB	
R3006	VRD-ST2EF822J	8.2K ohm 1/4W	AA	119	94R01980ACTRM	Pinch Roller Spring	AB	
R3007	VRD-ST2EF473J	47K ohm 1/4W	AA	120	94R06080KCTRM	Play/Record Head	AM	
R3011								
R3008	VRD-ST2EF224J	220K ohm 1/4W	AA	121	94R01680KCTRM	Erase Head	AG	
R3009	VRD-ST2EF153J	15K ohm 1/4W	AA	122	94R02280ACTRM	Sensing Plate (with Cap)	AE	
R3010	VRD-ST2EF470J	47 ohm 1/4W	AA	124	94R02480ACTRM	Reel Rest Ass'y	AG	
R3012	VRD-ST2EF223J	22K ohm 1/4W	AA	125	94R02580ACTRM	Take-up Reel Ass'y	AK	
R3013	VRD-ST2EF154J	150K ohm 1/4W	AA	126	94R02680ACTRM	Spring	AB	
R3014	VRD-ST2EF222J	2.2K ohm 1/4W	AA	127	94R02780ACTRM	Spring	AB	
R3016	VRD-ST2EF103G	10K ohm (G) 1/4W	AA	130	94R03080ACTRM	Supply Reel Ass'y	AG	
R3017								
R3019								
R3018	VRD-ST2EF560G	56 ohm (G) 1/4W	AA	131	94R03180ACTRM	FF Idler Arm Ass'y	AG	
R3020	VRD-ST2EF562G	5.6K ohm (G) 1/4W	AA	132	94R03280ACTRM	Center Gear	AC	
R3021	VRD-ST2EF205G	2M ohm (G) 1/4W	AA	133	94R03380ACTRM	Spring	AA	
R3024	VRD-ST2EF102J	1K ohm 1/4W	AA	134	94R03480ACTRM	Main Plate Ass'y	AG	
CAPACITORS				135	94R03580ACTRM	Main Plate Spring	AA	
3001	VCEAAU1AW476M	47MFD, 10V, Aluminum	AB	139	94R03980ACTRM	RF Clutch Ass'y	AN	
3002	VCQYKU1HM104K	0.1MFD, 50V, Filum	AB	140	94R04080ACTRM	Spring	AA	
3004								
3006								
3008								
3003	VCEAAU1AW106M	10MFD, 10V, Aluminum	AB	141	94R04180ACTRM	Spring	AB	
				142	94R04280ACTRM	Flywheel Plate	AA	
				143	94R04380ACTRM	Flywheel Holder	AE	
				144	94R04480ACTRM	Flywheel Capstan	AN	
				145	94R04580ACTRM	Spring	AA	
				149	94R04980ACTRM	Push Button Base	AF	
				150	94R05080ACTRM	Record Button Lever Ass'y	AF	
				151	94R05180ACTRM	Spring	AB	
				152	94R05280ACTRM	Spring	AC	
				153	94R05380ACTRM	Play Button Lever Ass'y	AF	
				154	94R05480ACTRM	Spring	AB	
				155	94R05580ACTRM	FF Button Lever Ass'y	AF	
				156	94R05680ACTRM	RWD Button Lever Ass'y	AF	
				157	94R05780ACTRM	Spring	AB	
				158	94R05880ACTRM	Stop Button Lever H	AD	
				159	94R05980ACTRM	Eject Button Lever H	AD	
				162	94R06280ACTRM	Spring	AB	
				164	94R06480ACTRM	Push Button Actuator Ass'y	AH	
				165	94R06580ACTRM	Spring	AB	
				166	94R06680ACTRM	Actuator Shaft B	AB	
				167	94R06780ACTRM	Push Button Lever Shaft	AD	
				171	94R07180ACTRM	Motor	AV	

MODEL MZ-80A PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
72	94R07280ACTRM	Motor Pulley	AD		JBTN-0064PA27	Key Top C	AE
73	94R07380ACTRM	Motor Bracket	AF		JBTN-0064PA28	Key Top D	AE
74	94R07480ACTRM	Main Belt	AG		JBTN-0064PA29	Key Top E	AE
75	94R06980KCTRM	Motor Rubber	AA		JBTN-0064PA30	Key Top F	AE
76	94R07280KCTRM	Special Screw (s)	AB		JBTN-0064PA31	Key Top G	AE
81	94R08080ACTRM	Counter Bracket	AG		JBTN-0064PA32	Key Top H	AE
82	94R08180ACTRM	Counter	AL		JBTN-0064PA33	Key Top I	AE
83	94R08280ACTRM	Counter Belt	AD		JBTN-0064PA34	Key Top J	AE
87	94R08780ACTRM	Leaf Switch	AF		JBTN-0064PA35	Key Top K	AE
89	94R08980ACTRM	Eject Slide Lever	AD		JBTN-0064PA36	Key Top L	AE
90	94R09080ACTRM	Eject Kick Lever	AC		JBTN-0064PA37	Key Top M	AE
91	94R00480KCTRM	Spring	AB		JBTN-0064PA38	Key Top N	AE
92	94R09280ACTRM	Coller	AA		JBTN-0064PA39	Key Top O	AE
93	94R09380ACTRM	Coller	AA		JBTN-0064PA40	Key Top P	AE
94	94R09480ACTRM	Eject Screw	AB		JBTN-0064PA41	Key Top Q	AE
95	94R11180ACTRM	Washer (2.1x5x0.4)	AA		JBTN-0064PA42	Key Top R	AE
96	94R11580ACTRM	Nylon Washer	AA		JBTN-0064PA43	Key Top S	AE
97	94R11880ACTRM	Nylon Washer	AA		JBTN-0064PA44	Key Top T	AE
98	94R12180ACTRM	Washer	AA		JBTN-0064PA45	Key Top U	AE
99	94R12280ACTRM	Washer	AA		JBTN-0064PA46	Key Top V	AE
					JBTN-0064PA47	Key Top W	AE
					JBTN-0064PA48	Key Top X	AE
					JBTN-0064PA49	Key Top Y	AE
					JBTN-0064PA50	Key Top Z	AE
					JBTN-0064PA51	Key Top	AE
					JBTN-0064PA52	Key Top 1	AE
					JBTN-0064PA53	Key Top 2	AE
					JBTN-0064PA54	Key Top 3	AE
					JBTN-0064PA55	Key Top 4	AE
					JBTN-0064PA56	Key Top 5	AE
					JBTN-0064PA57	Key Top 6	AE
					JBTN-0064PA58	Key Top 7	AE
					JBTN-0064PA59	Key Top 8	AE
					JBTN-0064PA60	Key Top 9	AE
					JBTN-0064PA61	Key Top 0	AE
					JBTN-0064PA62	Key Top 00	AE
					JBTN-0064PA63	Key Top +	AE
					JBTN-0064PA64	Key Top -	AE
					JBTN-0064PA65	Key Top BREAK CTRL	AE
					JBTN-0065PA01	Key Top GRPH	AD
					JBTN-0065PA02	Key Top CLR HOME	AD
					JBTN-0066PA01	Key Top INST DEL	AD
					JBTN-0066PA02	Key Top CR	AD
				9	JBTN-0067PASA	Key Top SHIFT	AG
					JBTN-0068PASA	Key Top ENT	AH
				10	JBTN-0069PASA	Key Top (for Space bar)	AL
				11	LSUB-0001PAZZ	FPC Holder Plate	
				12	LX-GZ0048PAZZ	Holder	
*** KEY BOARD UNIT SECTION ***				*** POWER SUPPLY UNIT SECTION ***			
DKEY-009PAZZ	Assembled Key Board Unit (Not replacement item)				DBOXD0033PAZZ	Assembled Power Supply Unit (for 220V) (Not replacement item)	
MISCELLANEOUS					DBOXD0037PAZZ	Assembled Power Supply Unit (for 240V) (Not replacement item)	
1	LANGK0340PAZZ	Key Plate	AT	INTEGRATED CIRCUIT			
2	QSW-P0013PAZZ	Push Switch	AE	IC201	RH-IX0281PAZZ	μPC7805H	AL
3	PGIDM0010PAZZ	Guide Pin (for Key Top of SHIFT, ENT)	AC	IC301	RH-IX0275PAZZ	TL494CN	AP
4	PCUSG0011PAZZ	Cushion (for Key Top of SHIFT, ENT)	AA				
5	LSTYP0002PAZZ	Lever (for SPACE Key)	AE				
6	LSTYP0003PAZZ	Shaft Holder (for SPACE Key)	AC				
7	MLEVS0001PAZZ	Shaft (for SPACE Key)	AD				
8	QPWBB0002PAZZ	Flexible Printed Circuit	AK				
	JBTN-0064PA01	Key Top	AE				
	JBTN-0064PA02	Key Top	AE				
	JBTN-0064PA03	Key Top	AE				
	JBTN-0064PA04	Key Top	AE				
	JBTN-0064PA05	Key Top	AE				
	JBTN-0064PA06	Key Top	AE				
	JBTN-0064PA07	Key Top	AE				
	JBTN-0064PA08	Key Top	AE				
	JBTN-0064PA09	Key Top	AE				
	JBTN-0064PA10	Key Top	AE				
	JBTN-0064PA11	Key Top	AE				
	JBTN-0064PA12	Key Top	AE				
	JBTN-0064PA13	Key Top	AE				
	JBTN-0064PA14	Key Top	AE				
	JBTN-0064PA15	Key Top	AE				
	JBTN-0064PA16	Key Top	AE				
	JBTN-0064PA17	Key Top	AE				
	JBTN-0064PA18	Key Top	AE				
	JBTN-0064PA19	Key Top	AE				
	JBTN-0064PA20	Key Top	AE				
	JBTN-0064PA21	Key Top	AE				
	JBTN-0064PA22	Key Top	AE				
	JBTN-0064PA23	Key Top	AE				
	JBTN-0064PA24	Key Top	AE				
	JBTN-0064PA25	Key Top	AE				
	JBTN-0064PA26	Key Top	AE				

MODEL MZ-80A PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
TRANSISTORS							
Q301 } Q401 }	VS2SA770-Y/-1	2SA770Y	AH	C402 } C403 }	VCEAAU1VM338M	3,300MFD, 35V, Aluminum	AC
Q302 } Q402 }	VS2SA673-C/1E	2SA673C	AC	C405	VCEAAU1CM228M	2,200MFD, 16V, Aluminum	AE
DIODES				COIL AND TRANSFORMER			
D201	RH-DX0039TAZZ	V03C	AC	△ L101	RTRNZ0005PAZZ	Line Coil	AL
D301 } D401 }	VHDS2VB10//-1	S2VB10	AG	L301 } L401 }	RTRNZ0007PAZZ	Choke Coil	AP
D302 } D303 }	VHDERB81-004/ ERB81-0004 (or VHDRK14////-1)		AG	△ T101	RTRNP0065PAZZ	Power Supply Transformer (for 220V)	BC
D402 }				△ T101	RTRNP0067PAZZ	Power Supply Transformer (for 240V)	BC
D403 }							
MISCELLANEOUS							
R201	VRD-RU2EE102J	1K ohm 1/4W	AA	△ F101 } △ F102 }	QFS-C0006PAZZ	Fuse, T 630mA (for 220V)	AD
R301 } R401 }	VRD-RU2EE101J	100 ohm 1/4W	AA	△ F101 } △ F102 }	QFS-C0002PAZZ	Fuse, T 500mA (for 240V)	AD
R302 } R303 }	VRD-RU2EE272J	2.7K ohm 1/4W	AA	△ F103 } △ F104 }	QFS-C0001PAZZ	Fuse, T 315mA (for UK)	AD
R308 }				△ F301 } △ F401 }	QFS-C0003PAZZ	Fuse, T 1.6A	AD
R402 }				13	QSOCA0003PAZZ	Appliance Inlet	AF
R403 }				14	QSW-C0003PAZZ	AC, Switch	AQ
R408 }	VRD-ST2EF472J	4.7K ohm 1/4W	AA		QSOCA0004PAZZ	2-Pin Socket	AD
R304 }					QFSHA0001PAZZ	Fuse Holder	AA
R404 }					DSOCN0161PAZZ	4-Pin with Lead Wire	AG
R305 }				15	PRDAR0054PAZZ	Radiator	AR
R405 }	VRD-RU2EE472J	4.7K ohm 1/4W	AA	16	PKDAR0055PAZZ	Radiator	AK
R306 }				17	LANGQ0035PAZZ	Switch, Appliance Inlet Fixing Metal	AE
R406 }				18	LANGQ0036PAZZ	Radiator Fixing Metal	AB
R309 }				19	LBSHC0010PAZZ	Bushing	AC
R409 }	VRD-RU2EE474J	470K ohm 1/4W	AA	*** OTHER SECTION ***			
R310				20	RCiLH4110TAZZ	Reflection Coil	AW
R410				△ 21	VBC10M36P311E	CRT (or VBE2728B31/1E)	BQ
VR301 } VR401 }				22	VSP0080P-16YA	Speaker	AQ
FR201	RR-XZ0002PAZZ	Fuse Resistor 4.7 ohm 1/4W	AB	23	DCABA3504PASA	Cabinet A	BE
CAPACITORS				24	GCABB8432PASA	Cabinet B	BK
△ C101 } △ C102 }	RC-CZ0180PAZZ	0.047MFD, 250V	AH	25	GCABC8432PASA	Cabinet C	AS
C201	VCEAAU1CM477M	470MFD, 16V, Aluminum	AC	26	MHNG-0002PAFC	Hinge	AF
C202	VCTYPU1ED104Z	0.1MFD, 25V, Ceramic	AB	27	LANGK0339PAZZ	Fixing Plate (for Spring of Cassette)	AB
C203	VCEAAU1AM107M	100MFD, 10V, Aluminum	AC	28	LANGK0356PAZZ	Fixing Plate (for Arm)	AD
C204 }	VCQYKU1HM183K	0.018MFD, 50V, Film	AB	29	MARMM0002PAZZ	Arm	AE
C308 }				30	HDECA0031PASA	Decoration Plate	AA
C408 }				31	LX-NZ0020PAZZ	3mm Nat with Washer	AA
C301 }				32	GLEGP0007PASA	Foot	AB
C401 }	RC-QZ0003PAZZ	0.1MFD, 100V, Film	AB	33	GLEGP0008PASA	Foot	AC
C302 }	VCEAAU1EM478M	4,700MFD, 25V, Aluminum	AH	34	QTANN0003PAZZ	Frame Ground Terminal	AK
C303 }				35	LHLDF0022PAZZ	Holder for CPU Board	AD
C304 }				36	DTiP-0063PAZZ	Tip with Wire	AC
C404 }				37	PFTA-0008PASA	Rear Cover	AU
C305 }	VCEAAU1AM228M	2,200MFD, 10V, Aluminum	AE	38	PFTA-0009PASA	Cover for Power Supply Primary	AF
C306 }				40	JBTDN-0070PASA	Reset Button	AC
C406 }				41	PCOV0017PAZZ	Socket Cover	AD
C307 }							
C407 }	VCTYPU1ND104Z	0.1MFD, 12V, Ceramic	AB				
C309 }	VCQYKU1HM103K	0.01MFD, 50V, Film	AB				
C409 }							

MODEL MZ-80A PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE	REF. NO.	PART NO.	DESCRIPTION	CODE
	TIINSE0038PAZZ	Instruction Manual (English)	BB	49	MSPRB0038PAFG	Spring for Cassette Button	AB
				50	LANGK0352PAZZ	Display PWB Fixing Metal	
△	TSPCE0028PAZZ	Specification Panel (for 220V)	AE	51	JBTN-0058PASA	Cassette Button (EJECT)	AD
△	TSPCE0030PAZZ	Specification Panel (for 240V)	AE	52	JBTN-0059PASA	Cassette Button (STOP)	AD
				53	JBTN-0060PASA	Cassette Button (FFWD)	AD
42	LDAi-0010PAZZ	CRT Fixing Base	AU	54	JBTN-0061PASA	Cassette Button (REWIND)	AD
43	LDAi-0011PAZZ	Key Unit Fixing Base A	AM	55	JBTN-0062PASA	Cassette Button (PLAY)	AD
44	LDAi-0012PAZZ	Key Unit Fixing Base B	AG	56	JBTN-0063PASA	Cassette Button (RECORD)	AD
45	GCÖVZ0008PAZZ	Smoky Panel	AL	57	LANGS0013CEZZ	Speaker Holder	AB
46	MSPRB0037PAFJ	Spring (for Flap of Cassette)	AB		QSOCN0160PAZZ	2-Pin with Lead Wire (for Reset SW)	AE
47	DFTAC0005PASA	Flap (for Cassette)	AK		QSW-P0005VAZZ	Reset Switch	AD
48	HBDGB3002GESA	SHARP Badge	AU		DSOCN0168PAZZ	2-Pin with Lead Wire (for Speaker)	AF
△	QACCK0050AFZZ	AC, Cord (for SEEG)	AQ				
△	QACCB0001PAZZ	AC, Cord (for UK, SESA)	AQ	58	LANGK0341PAZZ	Cover (for I/O Card)	AE
△	TLABH0002PAZZ	Label for AC Cord (for UK, SESA)	AC		MSPRT0011PAZZ	CRT Earth Spring	AB

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