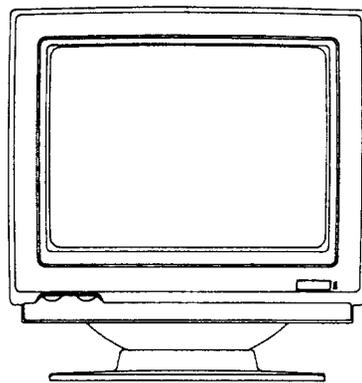


SERVICE MANUAL

For Service Manuals
MAURITRON SERVICES
8 Cherry Tree Road, Chinnor
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email:- mauritron@dial.pipex.com



**12 INCH 3-MODE
MONOCHROME
MONITOR**

**MODEL : MD-1252Y
MY2521
MY2523
MY2525
V252A
V252G**

 **SAMSUNG**



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1. SAFETY PRECAUTION

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of monitor should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in monitor sets have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage. Wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (▲) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. If any repair has been made to the chassis, it is recommended that the B+ setting should be checked or adjusted (See ADJUSTMENT OF B+ POWER SUPPLY.)
5. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
6. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a $10k\Omega$ 2W resistor to the anode button.
7. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
8. ISOLATION CHECK
(SAFETY FOR ELECTRICAL SHOCK HAZARD)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (metal cabinet, screwheads, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) DIELECTRIC STRENGTH TEST

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1,100V (3,000V AC when power input is 220V AC and over) AC (r.m.s.) for a period of one second.

... Withstand a voltage of 1,100V AC (r.m.s.) to an appliance rated up to 120V, and 3,000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.

This method of test requires a test equipment not generally found in the service trade.

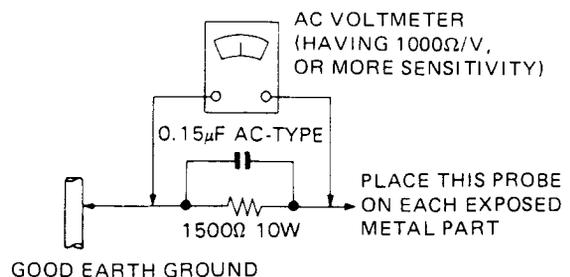
(2) LEAKAGE CURRENT CHECK

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.) Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

• ALTERNATE CHECK METHOD

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.) Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a $0.15\mu F$ AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

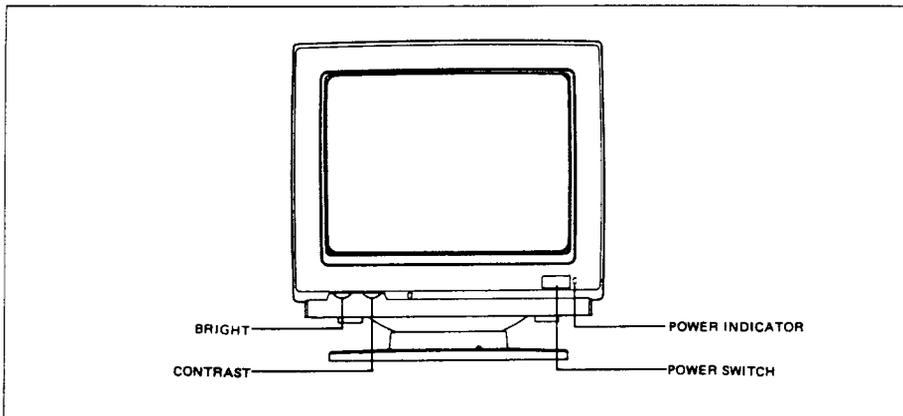


2. GENERAL INFORMATION

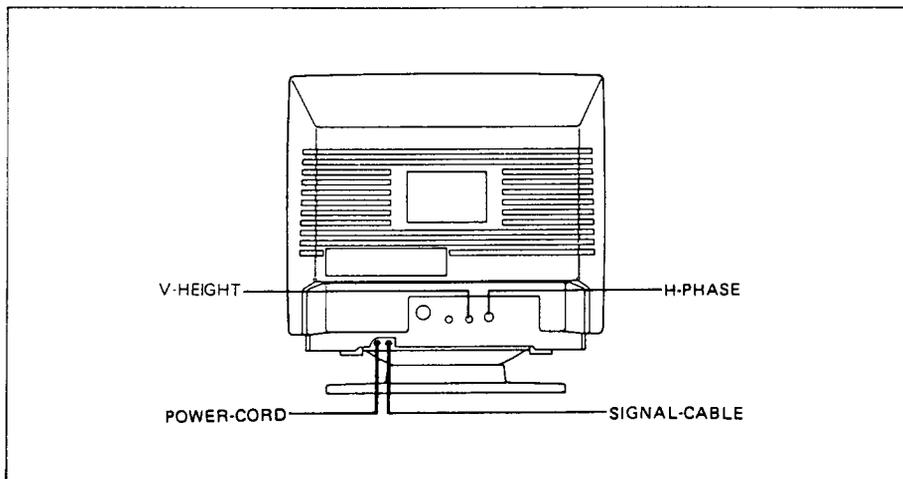
2-1. MONITOR DESCRIPTION

- 2-1-1. Tri-mode monitor is designed for clean and sharp image displays at C.G.A (Color graphic adapter)/M.D.A (Mono display adapter)/E.G.A (Enhanced graphic adapter) modes available with your personal computer.
- 2-1-2. Tri-mode monitor automatically changes the correct operating mode based upon the input sync-polarity and frequency from the PC.

2-2. OPERATING FUNCTION



- 2-2-1. Brightness control : Rotate to adjust the brightness to your comfortable level
- 2-2-2. Contrast : Rotate to adjust the contrast to your comfortable level
- 2-2-3. Power switch and power indicator : Push the power switch once. The green indicator light will be lit when the monitor power is on.
Push the power switch again then monitor power is off.



- 2-2-4. Vertical height : Adjust the height of the picture
- 2-2-5. Horizontal phase : Adjust horizontal position of the picture.

2-3. SPECIFICATION

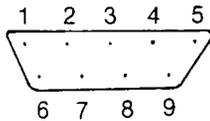
2-3-1. AC POWER INPUT :

- AC 120 V \pm 10 % / 60Hz / 45 W : For North American Version
- AC 220 V \pm 10 % / 50Hz / 45 W : For European Version
- AC 240 V \pm 10 % / 50Hz / 45 W : For U.K./Australian Version

2-3-2. SIGNAL INPUT

Input level : 3.5V \pm 1.0 V_{p-p} separate TTL

CONNECTOR : 9-PIN D-SUB TYPE



Pin connection

Pin No.	CGA	EGA	MDA/HGC
1	Ground	Ground	Ground
2	N/A	2nd-Red	N/A
3	Red	1st-Red	N/A
4	Green	1st-Green	N/A
5	Blue	1st-Blue	N/A
6	Intensity	2nd-Green	Intensity
7	N/A	2nd-Blue	Video
8	Horizontal-sync	Horizontal-sync	Horizontal-sync
9	Vertical-sync	Vertical-sync	Vertical-sync

2-3-3. VIDEO OUTPUT

Bandwidth : 20 Mhz at - 3dB

Resolution :

- mode 1(C.G.A) = 640 dots \times 200 lines 16 Level
- mode 2(E.G.A) = 640 dots \times 350 lines 64 Level
- mode 3(M.D.A) = 720 dots \times 350 lines Dual intensity

2-3-4. DISPLAY SIZE

Horizontal : 205 MM \pm 3 MM

Vertical : 154 MM \pm 3 MM

2-3-5. Linearity

Horizontal : \pm 10 %

Vertical : \pm 10 %

2-3-6. TILT
 ± 1.0 degree

2-3-7. Geometric distortion
 ± 2 MM at center

2-3-8. Retrace time

		C G A	E G A	M D A
HORIZ	RETRACE-TIME	5.4 μ S	5.2 μ S	5.2 μ S
VERT	RETRACE-TIME	370 μ S	250 μ S	250 μ S

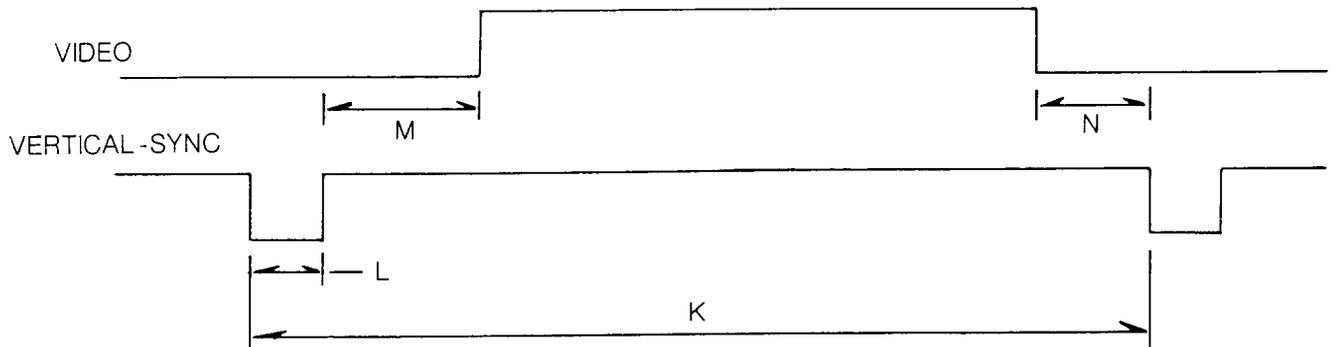
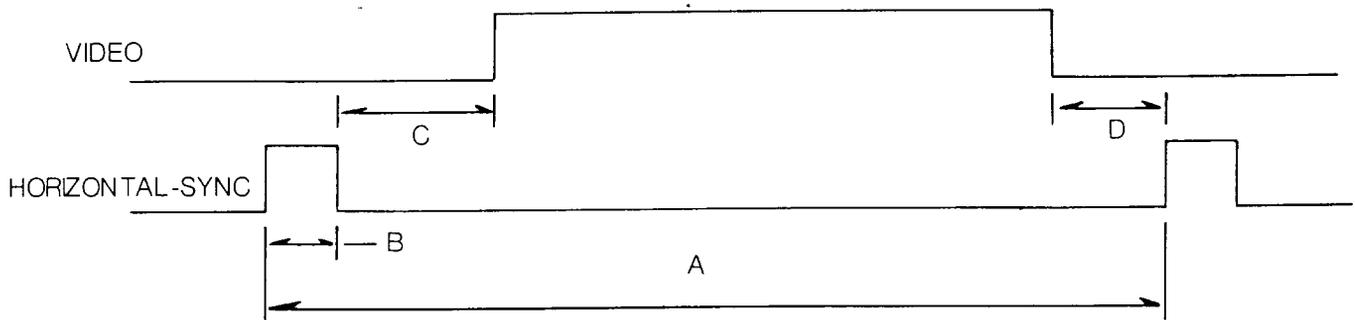
2-3-9. HOLD FREQUENCY RANGE
 Horizontal : 15.5 KHz - 24 KHz
 Vertical : 47 Hz - 62 Hz

2-3-10. CRT CHARACTERISTICS
 Size : 12 inch diagonal
 Deflection angle : 90 degree
 Implosion protection : shrinkage band with mounting lug

Face : Direct etched (Non-glare)
 Anode voltage : 13 Kv \pm 1 Kv at 0 beam of each mode

Phosphor	Green	Amber	White
Model	MD-1252 Y		
	MY2523	MY2525	MY2521
	V252G	V252A	

3. SIGNAL TIMING CHART



PARAMETER	VIDEO MODES FOR XT/AT PC		
	C G A	E G A	M D A
A	63.5 μ SEC	45.76 μ SEC	54.25 μ SEC
B	4.5 μ SEC	4.95 μ SEC	8.9 μ SEC
C	7.8 μ SEC	1.6 μ SEC	0.55 μ SEC
D	6.7 μ SEC	-0.15 μ SEC	0.55 μ SEC
H-SYNC POLARITY	Positive	Positive	Positive
K	16.67 mSEC	16.75 mSEC	20.07 mSEC
L	0.19 mSEC	0.6 mSEC	0.868 mSEC
M	2.3 mSEC	0.14 mSEC	0.208 mSEC
N	1.6 mSEC	0.0 mSEC	0.009 mSEC
V-SYNC POLARITY	Positive	Negative	Negative

4. ADJUSTMENT

* Refer to the CONTROLS LOCATION DIAGRAM(See 9 Page)

1. DC SUPPLY

- Adjust +B Adj (VR701) until +B voltage to obtain $15 \pm 0.1V$

2. REFERENCE TIME ADJUSTMENT FOR MODE SELECTION

- Before reference time adjusting, connect oscilloscope-probe to pin 3 of IC201
- Adjust (VR209) to obtain $18.7 \pm 0.3m$ SEC at CGA or EGA mode signal

3. HORIZONTAL LINEARITY

- Adjust H-linearitycoil(L302) for the best linearity

4. HORIZONTAL WIDTH

- MODE 1 : Adjust 1H-width(VR305) for the approximate desired display width.
- MODE 2 : Adjust 2H-width(L301) for the approximate desired display size.
- MODE 3 : Adjust 3H-width(VR304) for the approximate desired display size.

5. VERTICAL LINEARITY

- Adjust V-linearity VR(204) for the best linearity.

6. VERTICAL HEIGHT

- MODE 1 : Adjust 1V-height(VR201) for the approximate desired display size.
- MODE 2 : Adjust 2V-height(VR203) for the approximate desired display size.
- MODE 3 : Adjust 3V-height(VR202) for the approximate desired display size.

7. CENTERING

- Loosen the clamp of Deflection Yoke and carefully move the yoke on the neck on the neck of the picture tube as far as possible.
- Rotate the yoke until the top and bottom edge of the raster are straight

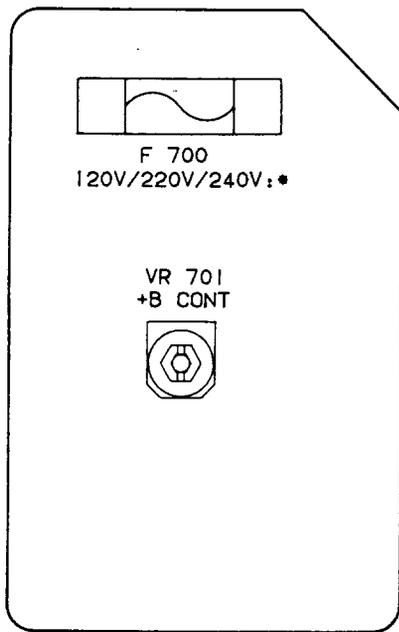
8. SUB-BRIGHTNESS

- Adjust sub-brightness control (VR308) to back raster cut-off point at contrast control (VR101) and brightness control (VR308) fully clock wise position.

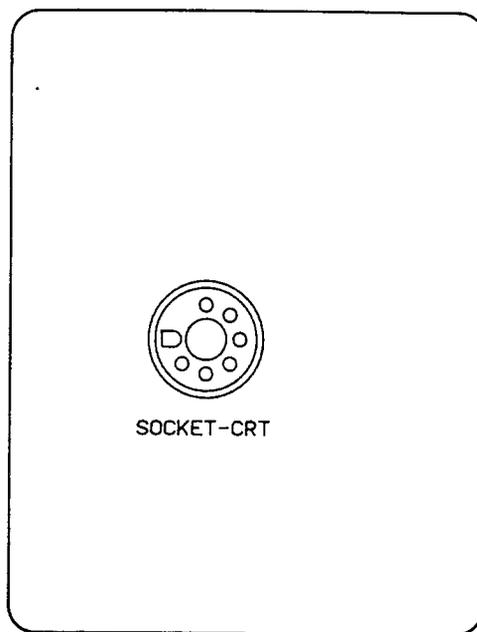
9. FOCUS

- Adjust focus control (VR309) for providing the best focus at brightness and contrast good viewable point.

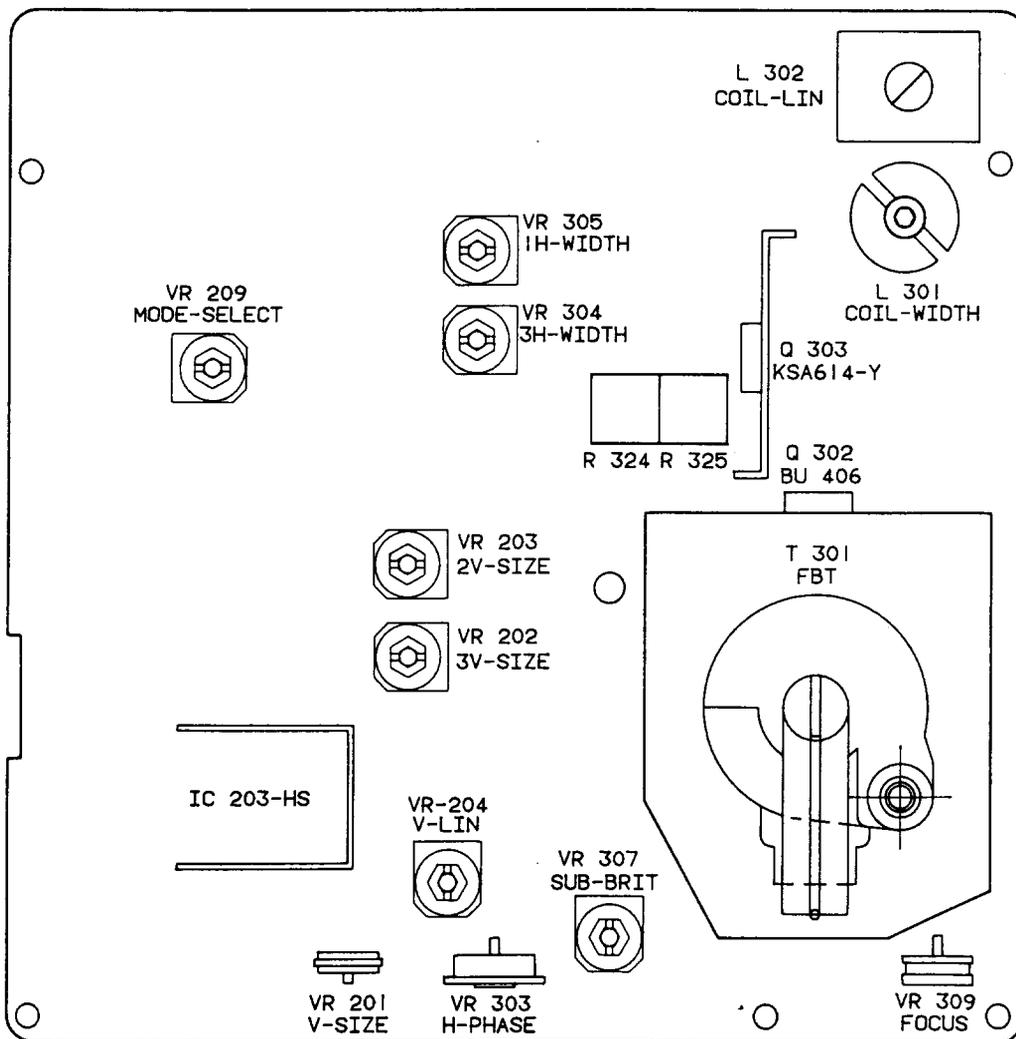
CONTROL LOCATION DIAGRAM



(POWER PCB)

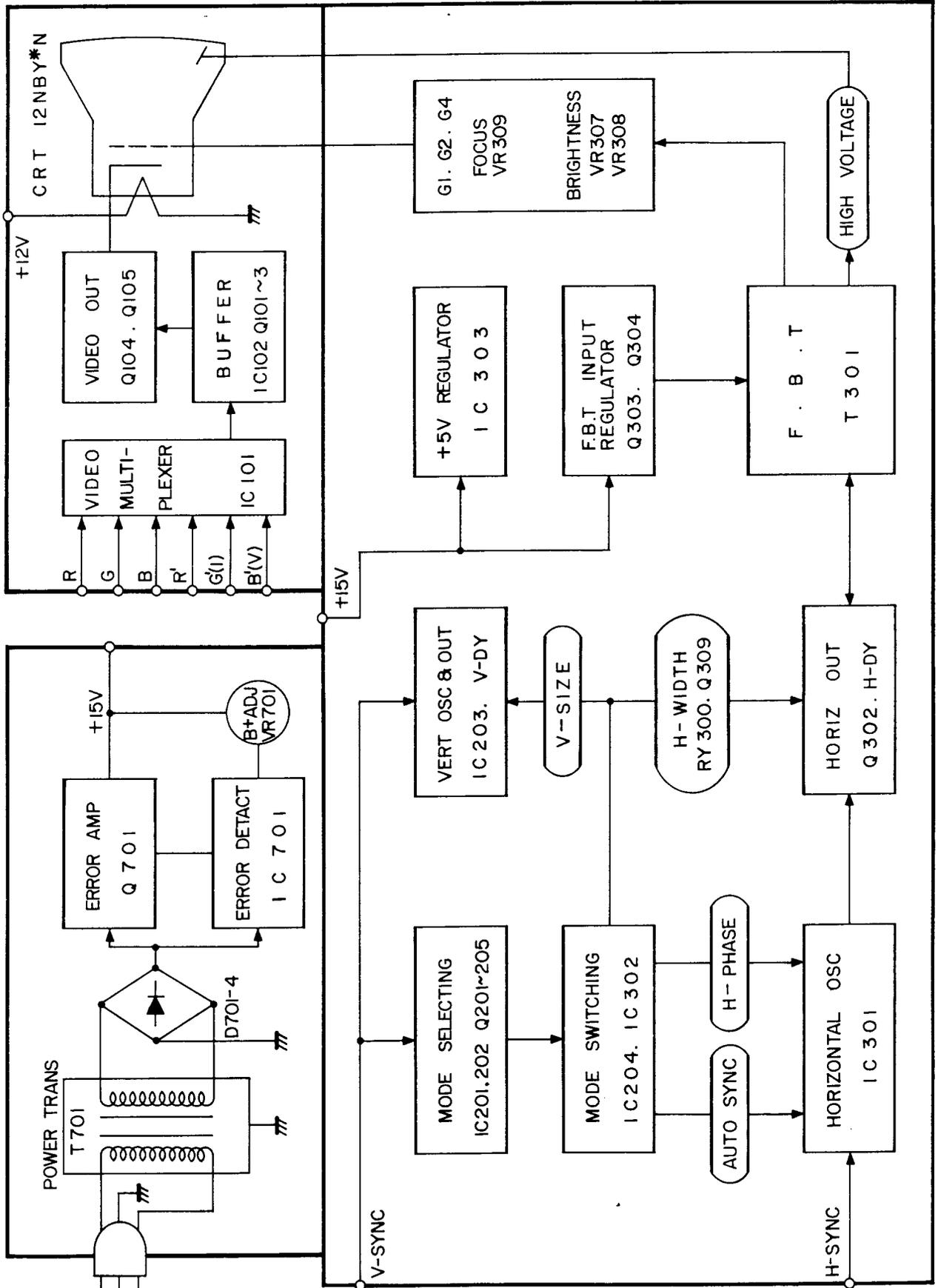


(VIDEO OUTPUT PCB)

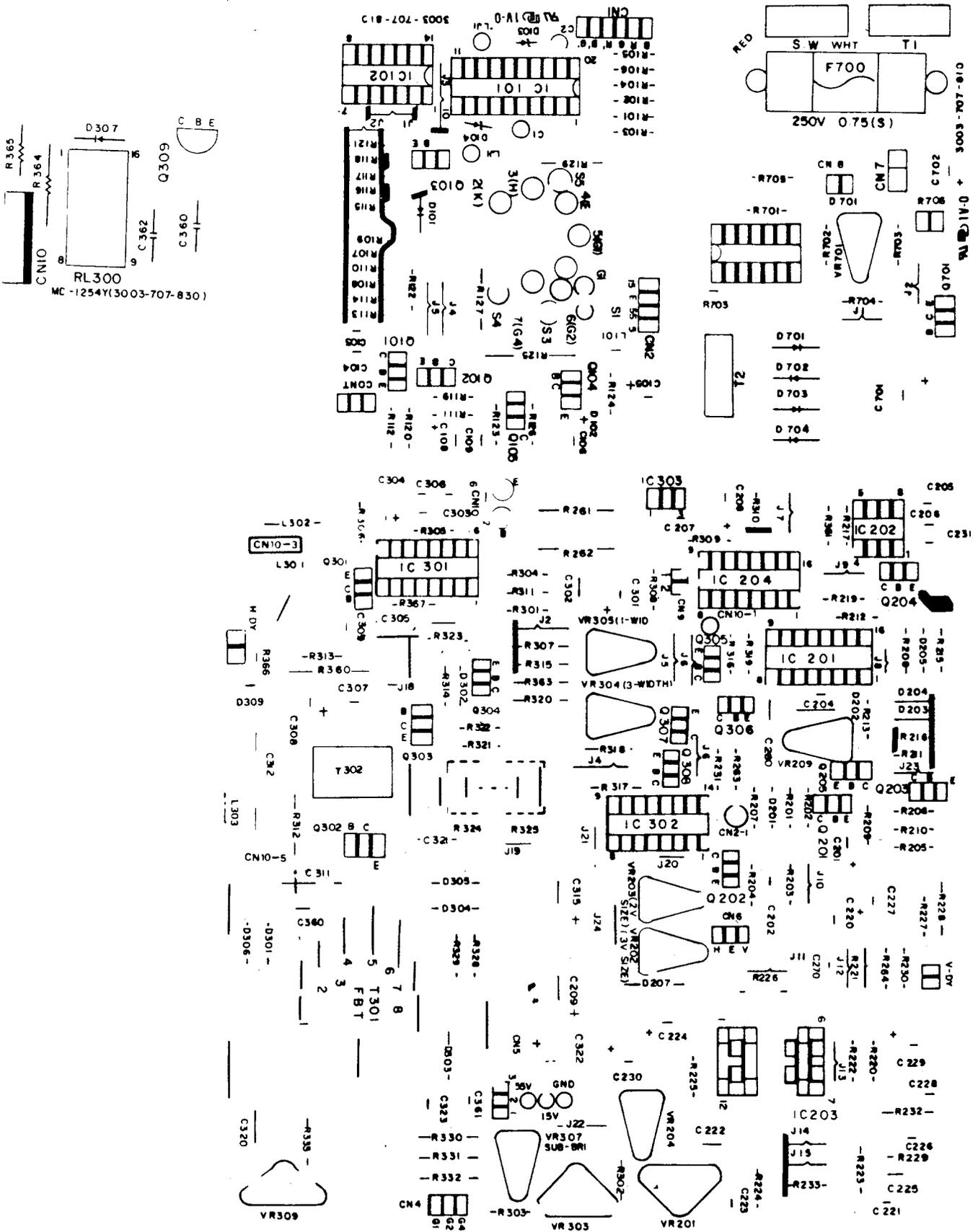


(MAIN-P.C.B)

5. BLOCK DIAGRAM

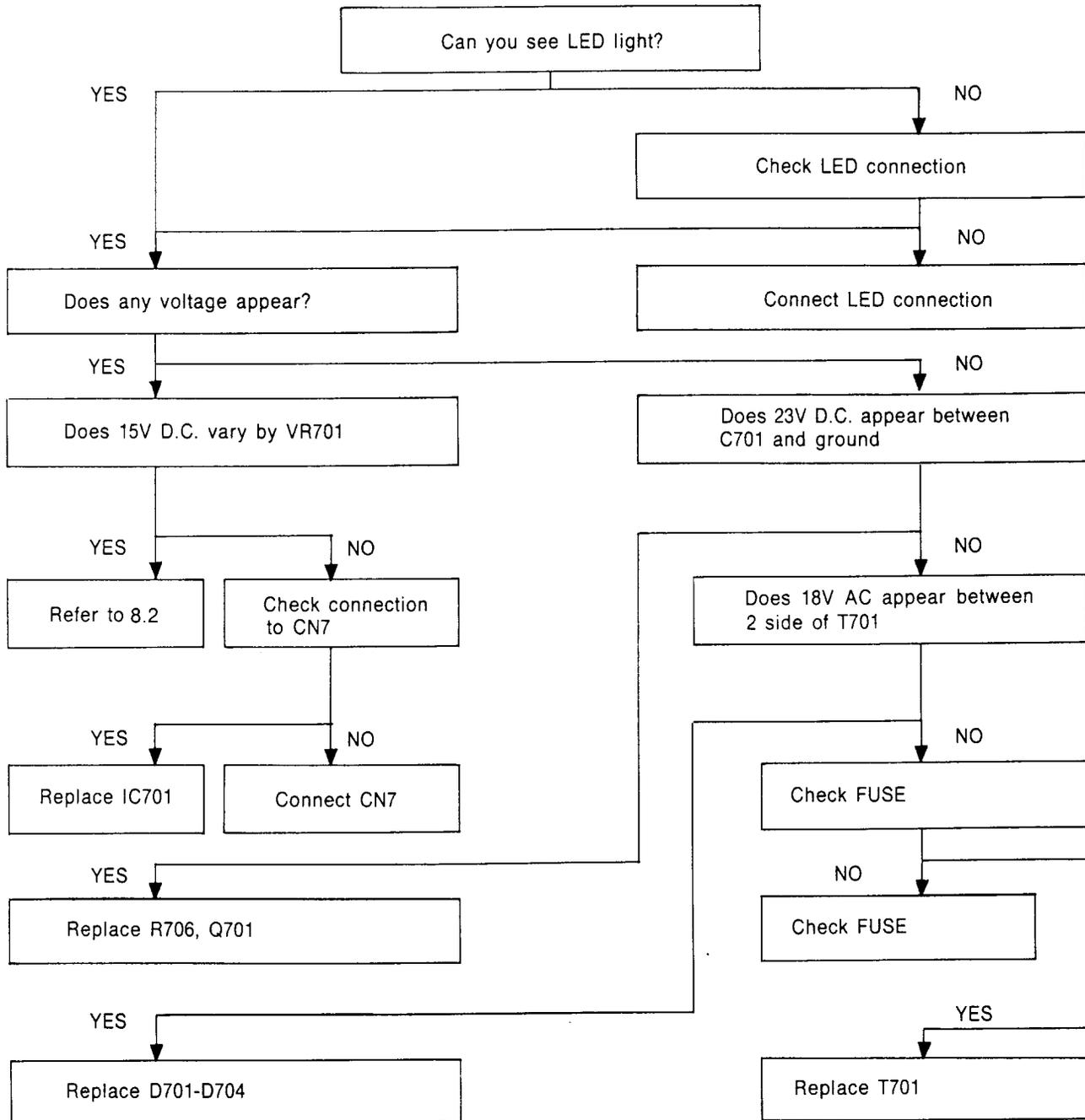


7. P.C BOARD DIAGRAM (FOIL SIDE)



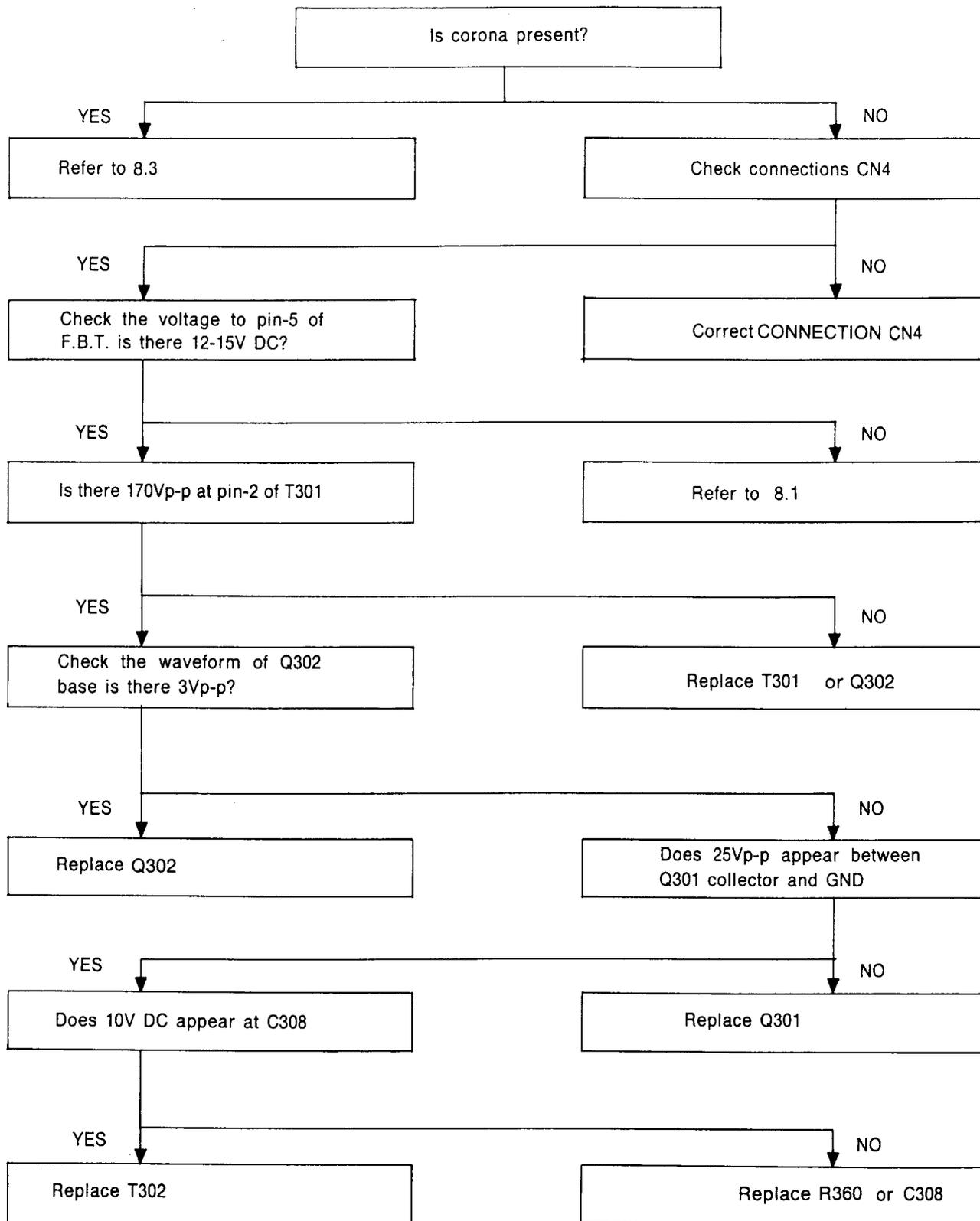
8. TROUBLE SHOOTING

8-1. NO-POWER



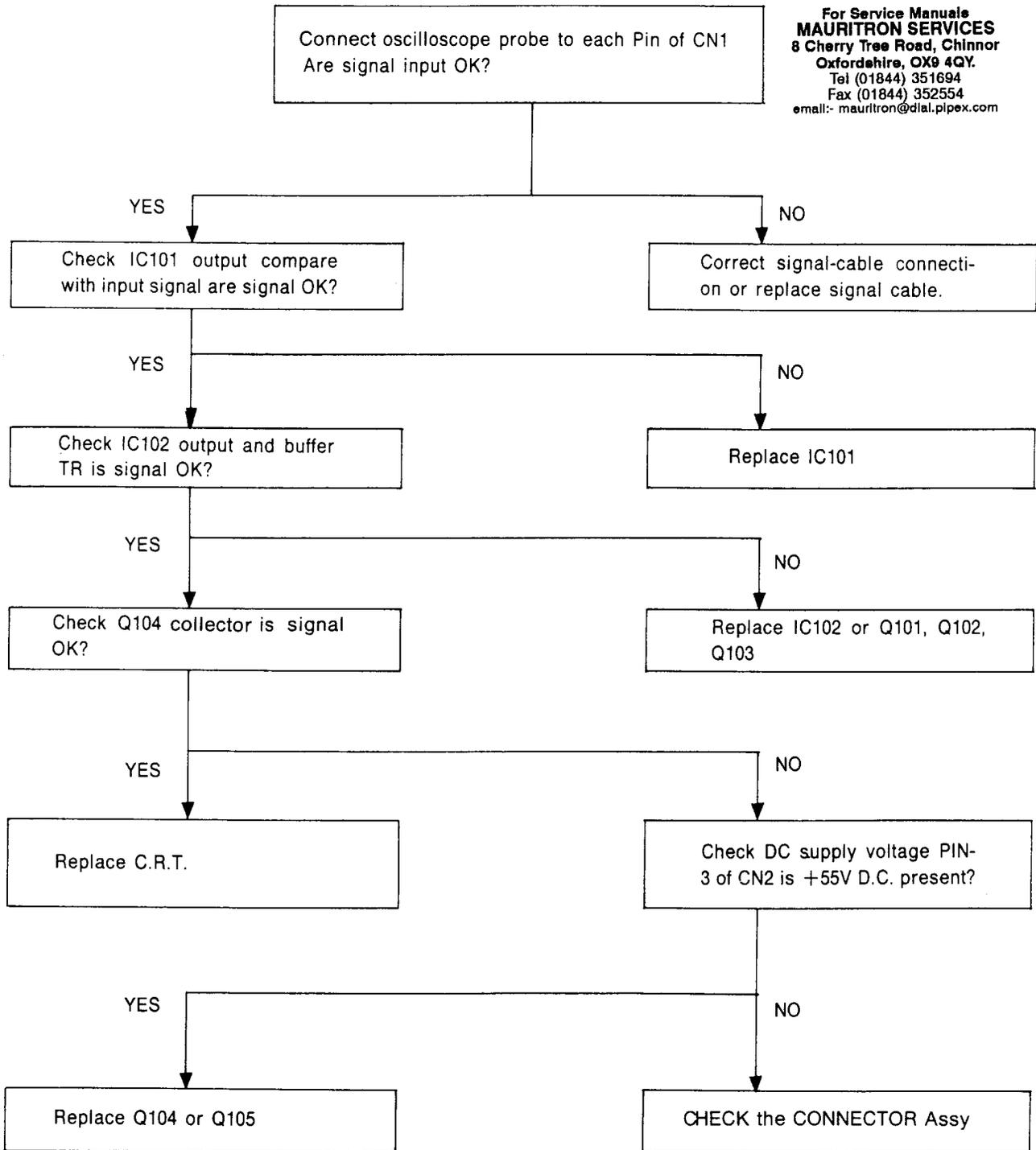
8-2. NO RASTER

Before checking see the sub-brightness (VR307) to clockwise Maximum point.

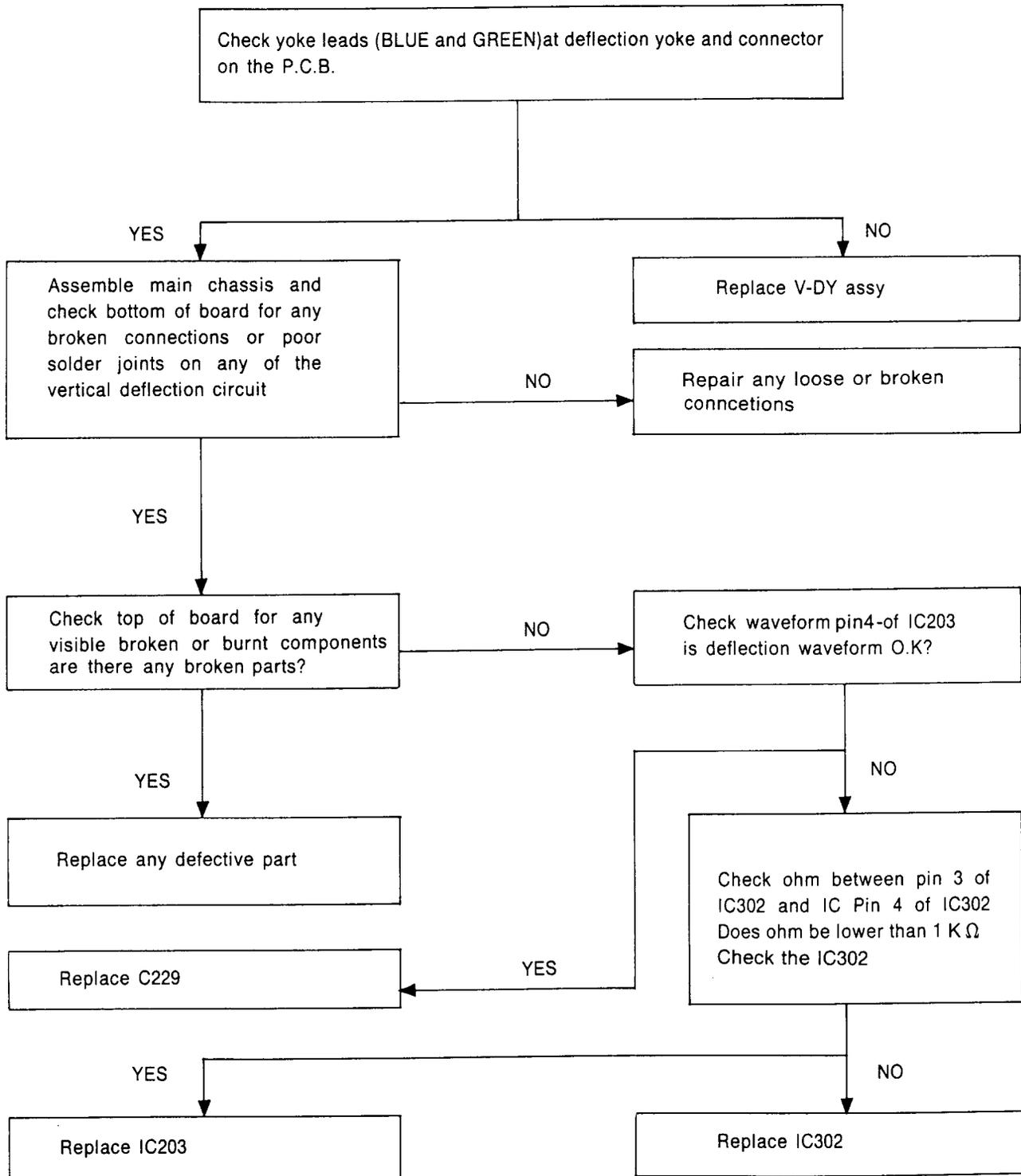


8-3. NO VIDEO

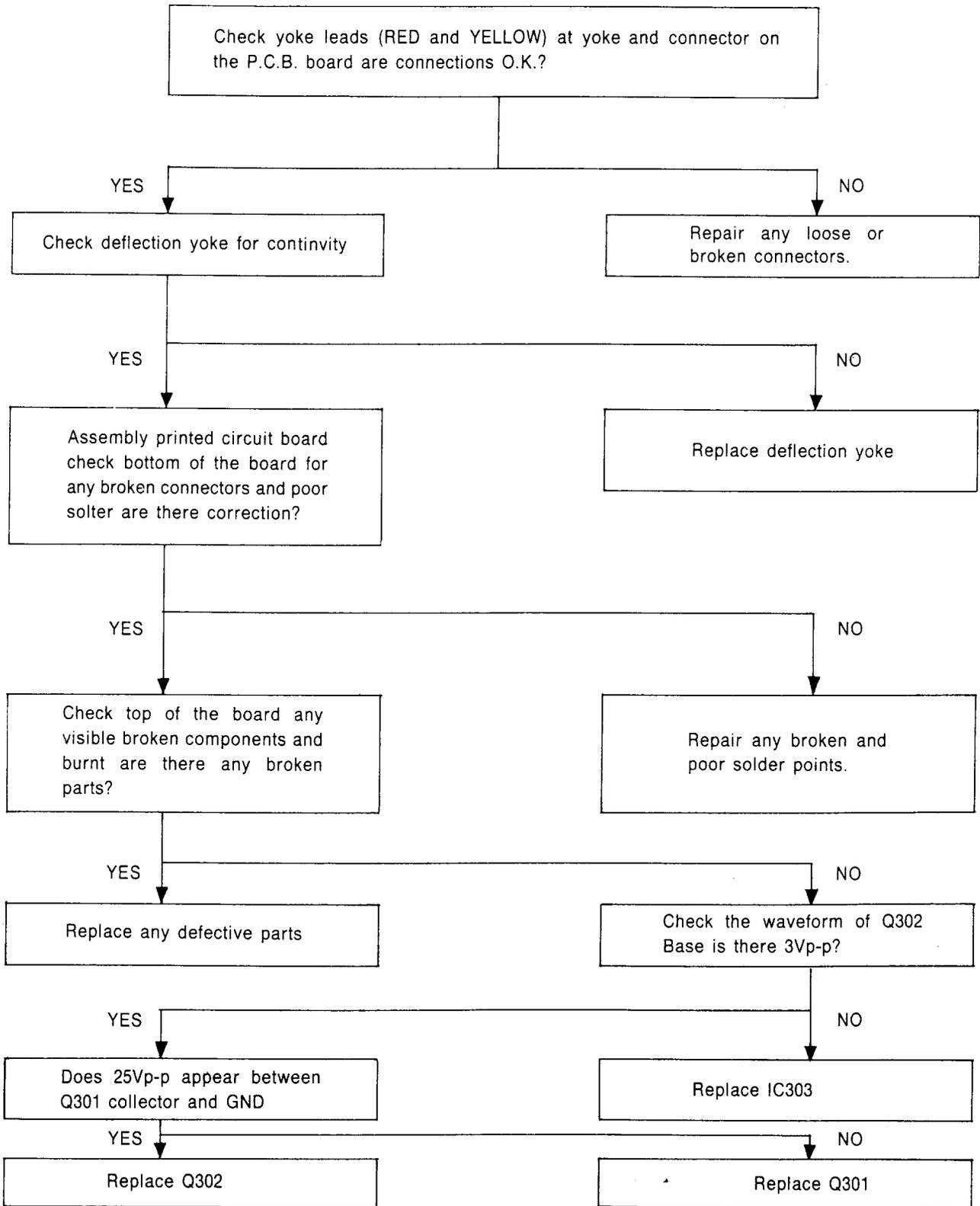
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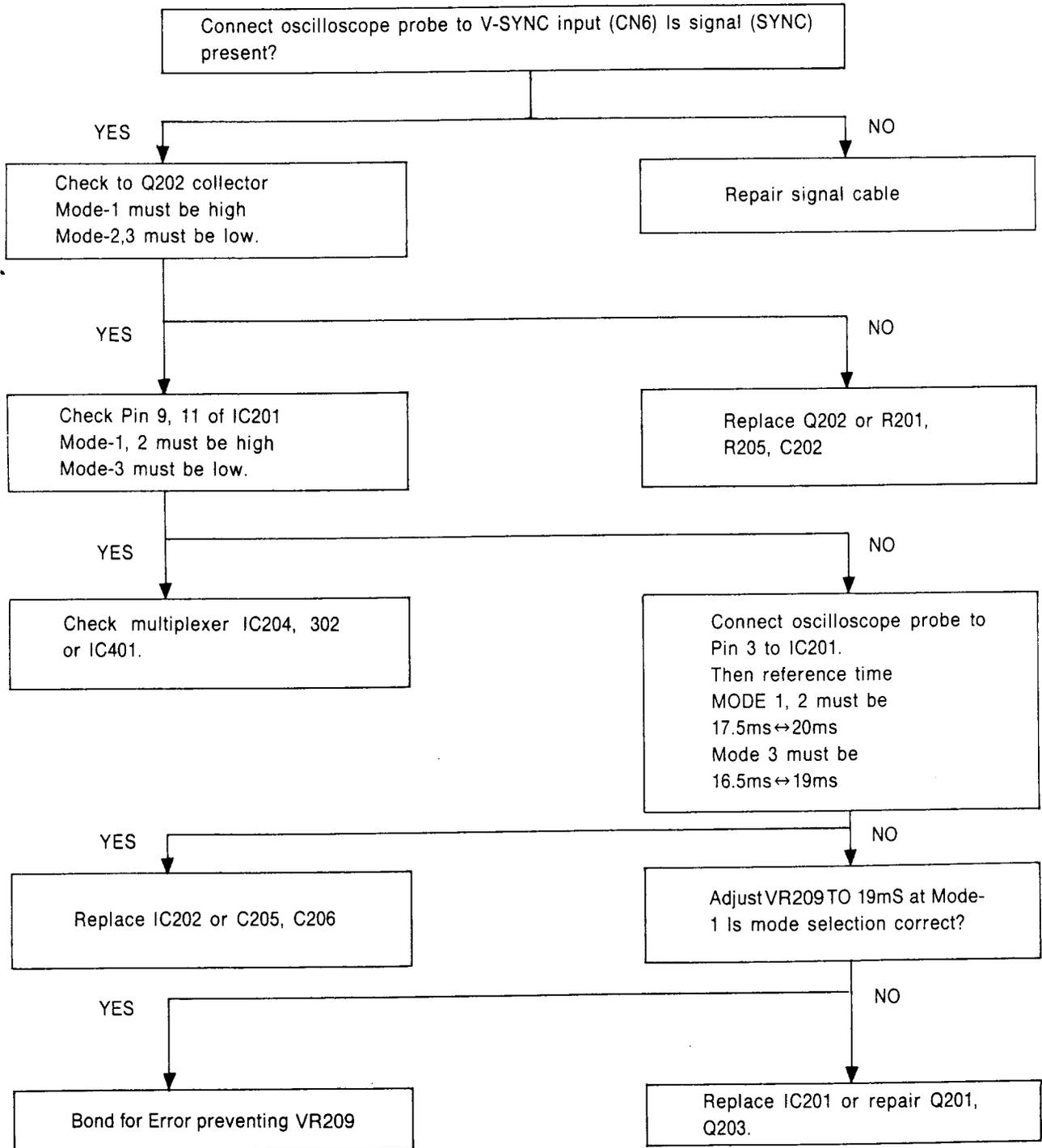
8-4. NO VERTICAL DEFLECTION



8-5. NO HORIZONTAL DEFLECTION



8-6. MODE SELECTION ERROR



POWER SUPPLY CIRCUIT

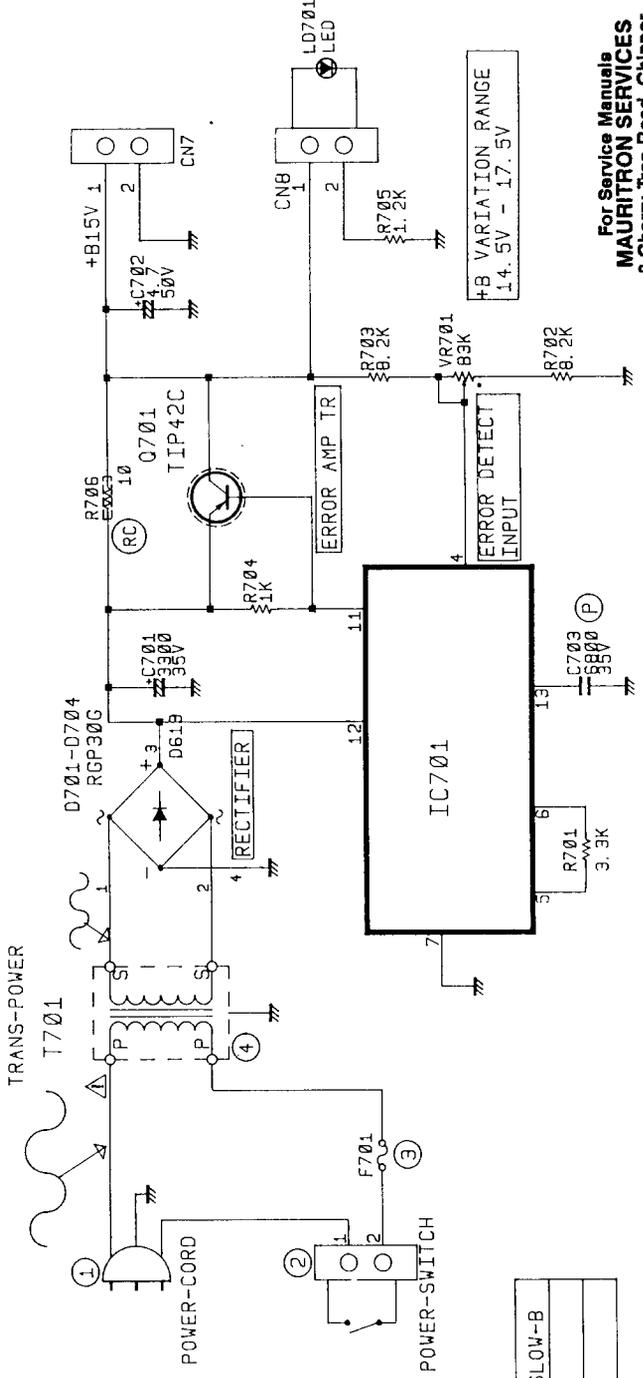
CAUTION: HIGH VOLTAGE

ON THE PARTS LIST IN SERVICE MANUAL, THE PARTS NOTED BY (Δ) HAVE SPECIAL SAFETY-RATED CHARACTERISTICS. THESE CHARACTERISTICS ARE OFTEN NOT EVIDENT FROM VISUAL INSPECTION AFFORDED BY THEM NECESSARILY BY OBTAINED BY USING REPLACEMENT COMPONENT RATED FOR HIGHER VOLTAGE, WATTAGE, ETC. REPLACEMENT PARTS WHICH HAVE THESE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED IN THE PARTS LIST OF SERVICE MANUAL.

- NOTE: 1. RESISTANCE IS SHOWN IN OHM K=1,000 M=1,000,000. RATED POWER OF RESISTOR NOT NOTED IN SCHEMATIC DIAGRAM IS 1/4W.
 2. CAPACITANCE IS SHOWN UF AND NOTED CAPACITANCE IS SHOWN PF=UF.
 3. ABBREVIATION AND SYMBOL.

- (M) R-METAL OXIDE (RC) R-CEMENT (P) POLYESTER (C) R-COMPOSITION
- (PP) C-POLYPROPYLENE (T) C-TANTAL (⚡) COLD GND (⊕) HOT GND
- (MP) C-METAL POLYESTER
- (I) THE SECONDARY VOLTAGE IS READ WITH VTVM FROM INDICATED POINT TO COLD GROUND. (⊖)
- (II) THE PRIMARY VOLTAGE IS READ WITH VTVM FROM INDICATED POINT TO HOT GROUND. (⊕)

5. THIS SCHEMATIC DIAGRAM IS SUBJECT TO CHANGE WITHOUT NOTICE FOR FURTHER IMPROVEMENT.



①

120 V / 60HZ	HC-A121	SVT 7. SFT
220 V / 50HZ	LP-33	H03VV-F
240 V / 50HZ		

②

120 V / 60HZ	ESV 8213V
220 V / 50HZ	
240 V / 50HZ	

③

120 V / 60HZ	61S 250V 0.75A U/C SLOW-B
220 V / 50HZ	
240 V / 50HZ	

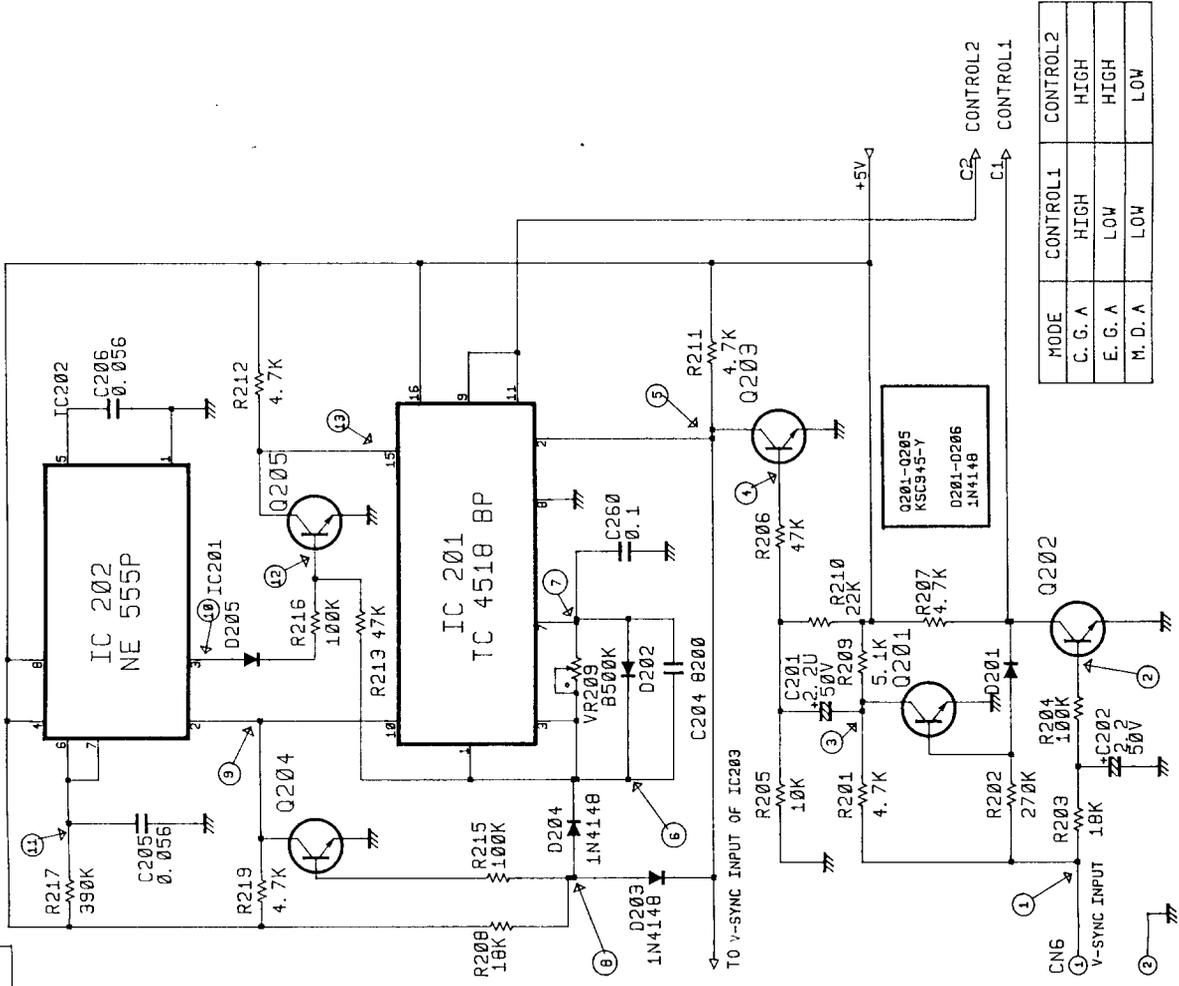
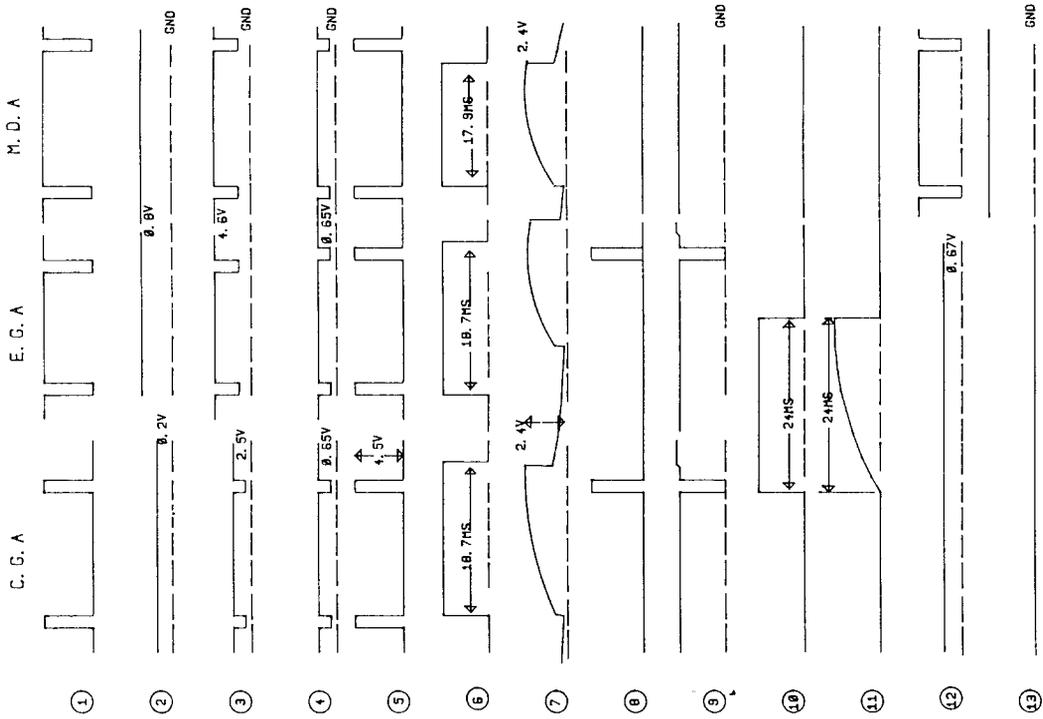
④

120 V / 60HZ	P: WHITE	S: RED
220 V / 50HZ	P: BLUE	S: RED
240 V / 50HZ	P: BROWN	S: RED

PCB-CRT, POWER, MAIN(1/3)
 (3003-707-810)

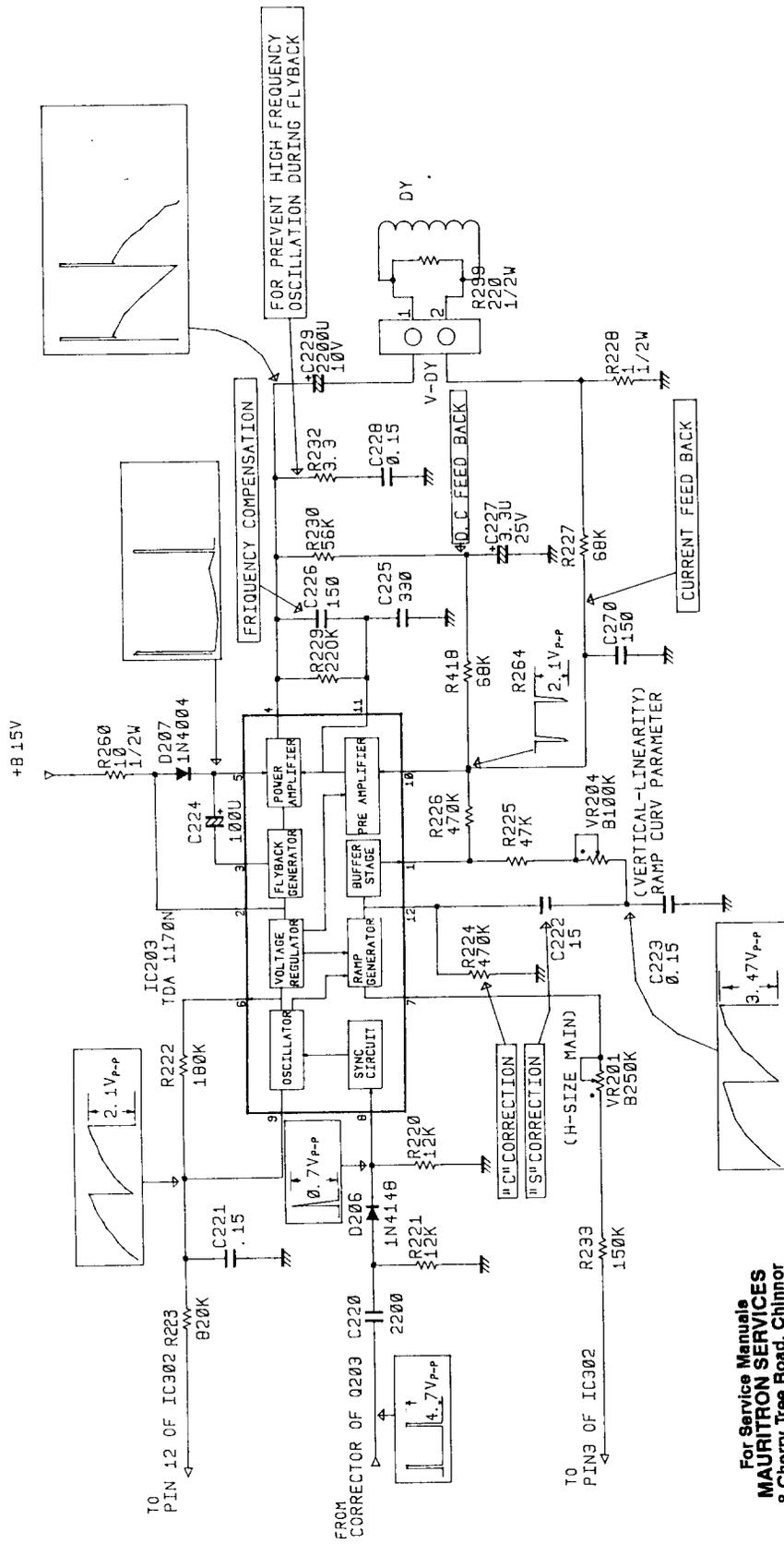
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AUTOMATIC MODE SELECTING CIRCUIT



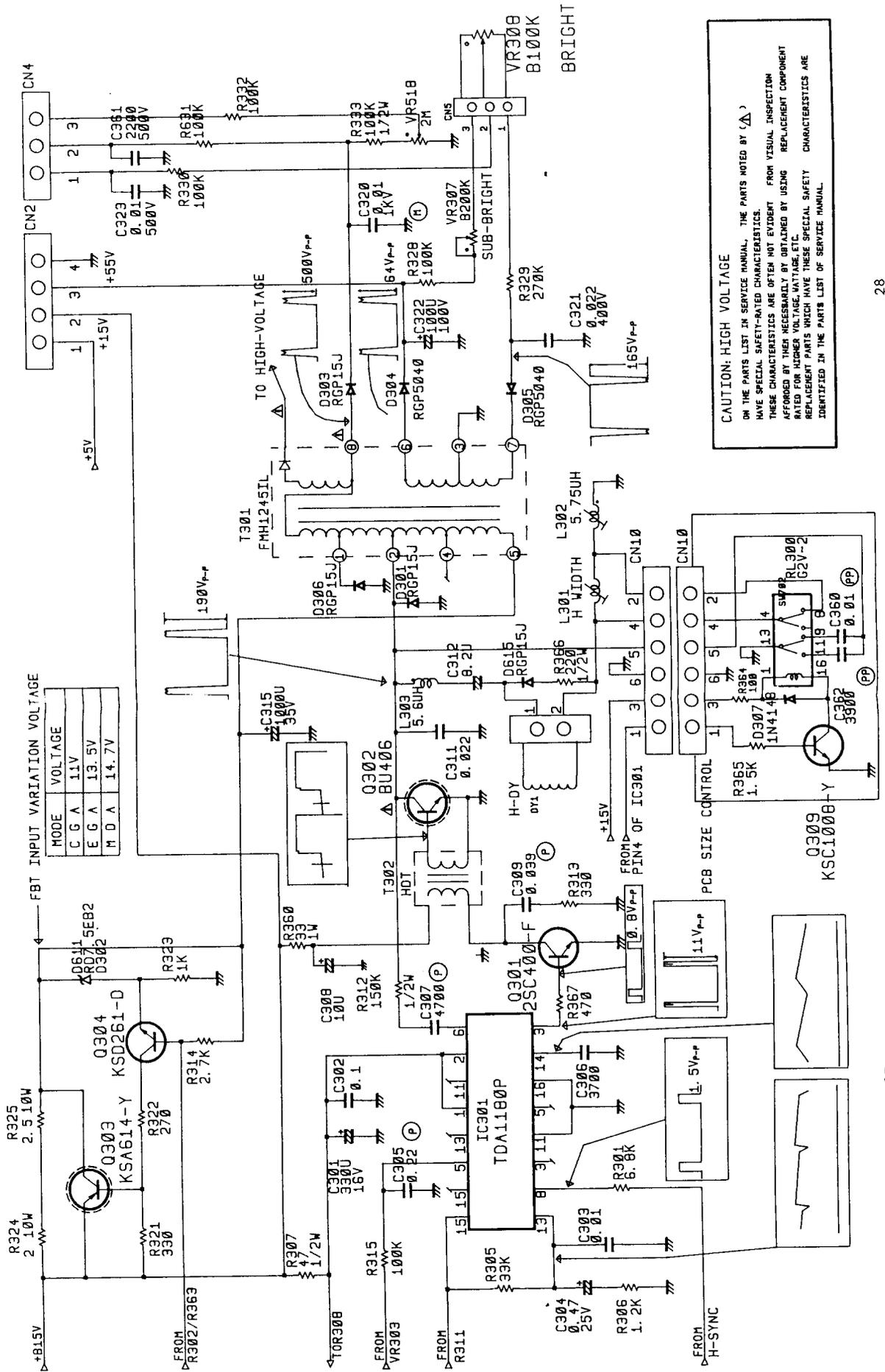
MODE	CONTROL 1	CONTROL 2
C. G. A	HIGH	HIGH
E. G. A	LOW	HIGH
M. D. A	LOW	LOW

VERTICAL DEFLECTION CIRCUIT



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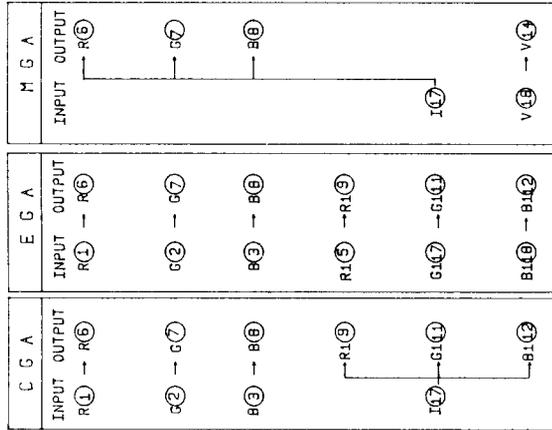
HORIZONTAL DEFLECTION CIRCUIT



CAUTION: HIGH VOLTAGE
 ON THE PARTS LIST IN SERVICE MANUAL. THE PARTS NOTED BY (Δ) HAVE SPECIAL SAFETY-RATED CHARACTERISTICS. THESE CHARACTERISTICS ARE OBTAINED BY VISUAL INSPECTION AFFORDED BY THEM NECESSARILY BY OBTAINING REPLACEMENT COMPONENT RATED FOR HIGHER VOLTAGE, WATTAGE, ETC. REPLACEMENT PARTS WHICH HAVE THESE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED IN THE PARTS LIST OF SERVICE MANUAL.

VIDEO CIRCUIT

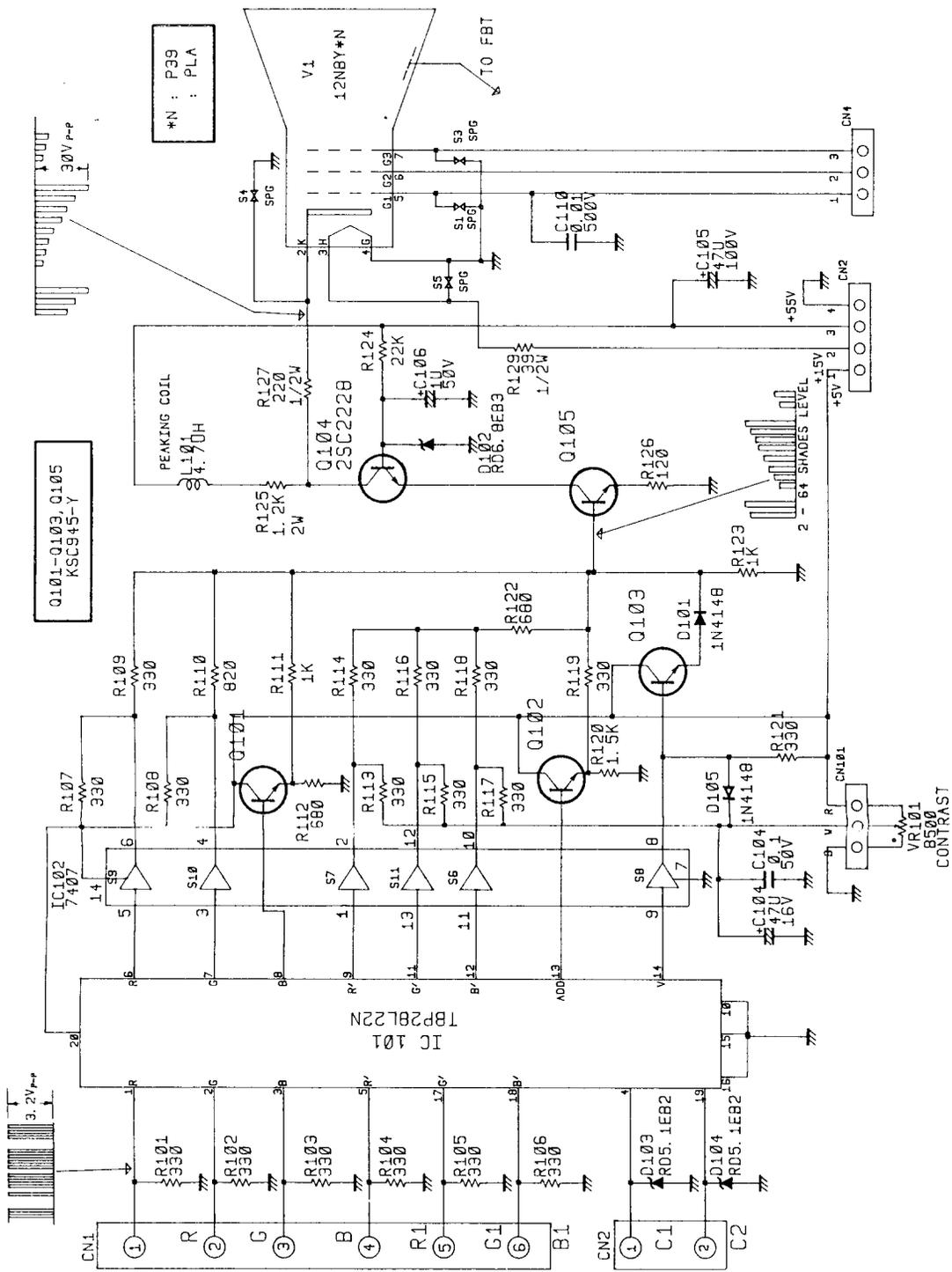
SIGNAL MULTI-PLEXING CHART OF IC:01



* IF ANY SIGNAL INPUT, THEN
ADD SIGNAL OUTPUT AT EACH MODE

MODE SELECTING SIGNAL

MODE	C1	C2
C G A	HIGH	HIGH
E G A	LOW	HIGH
M D A	LOW	LOW



Q101-Q103, Q105
KSC945-Y

*N : P39
: PLA

SCHEMATIC DIAGRAM

MODEL NO: MY252

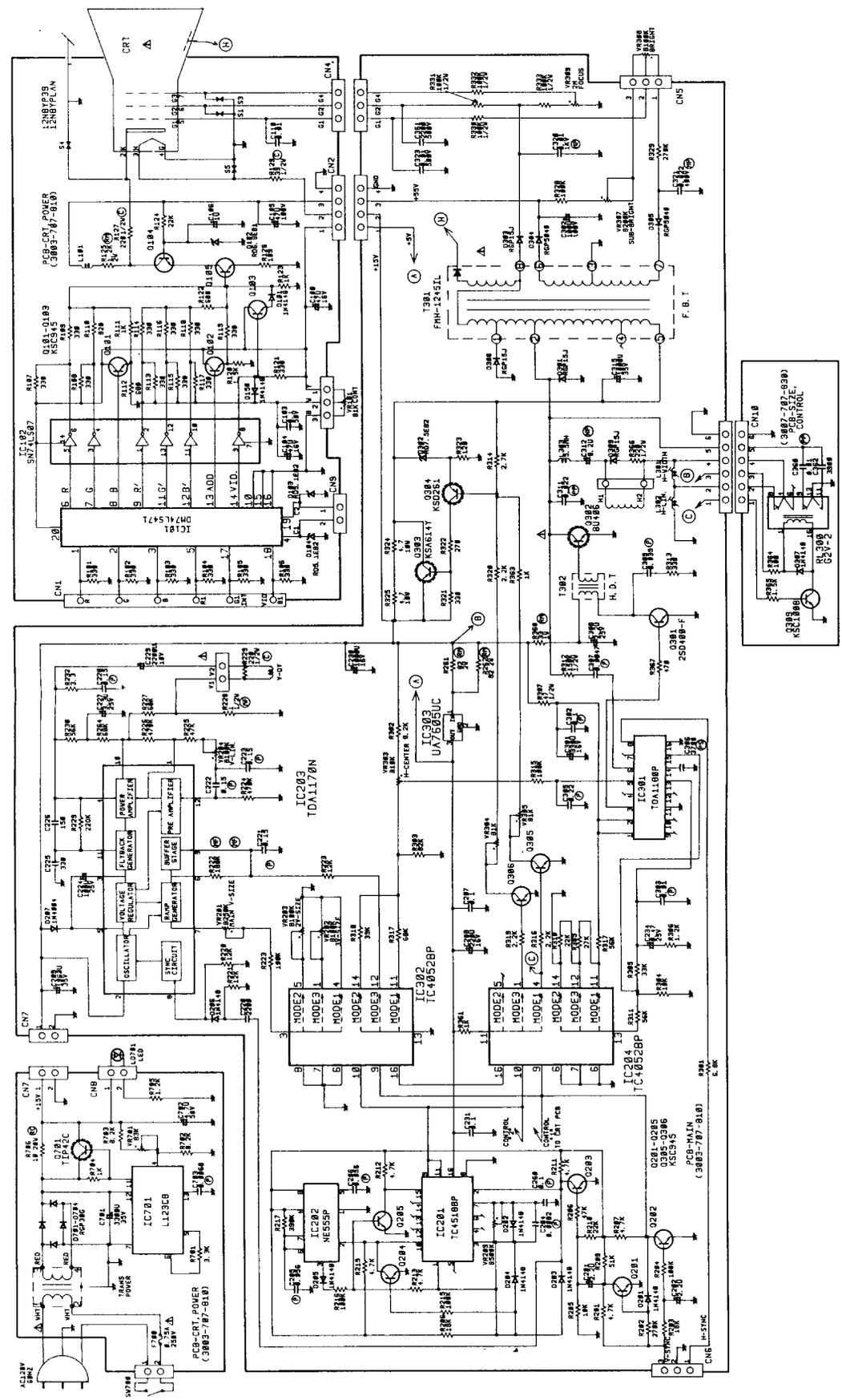
CHASSIS NO: G. S. F

WARNING: "THIS EQUIPMENT CONTAINS SAFETY CRITICAL COMPONENTS. ALL PARTS SHOWN IN THE SHADDED AREA AS OF THE SCHEMATIC ARE SAFETY CRITICAL. FOR CONTINUED SAFETY REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS LIST FOR EXACT REPLACEMENTS."

AVERTISSEMENT: "CET EQUIPEMENT CONTIEN DE COMPOSANTS CRITIQUES POUR LA SECURITE. TOUTES LES PIECES INDIQUEES DANS LES ZONES OMBREES OU SCHEMA SONT CRITIQUES POUR LA SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL NE REMPLACEZ LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE QUE PAR DES PIECES RECOMMANDEES PAR LE FABRICANT. POUR LA SECURITE DE LA NOMENCLATURE DES PIECES POUR TROUVER LES PIECES DE RECHANGE EXACTES."

SIGNAL INFORMATION

PIN	CCA	GROUND	MOA
1	GROUND	R'	GROUND
2	GROUND	R	GROUND
4	C	B	INTENSITY
5	B	D'	VIDEO
6	B	D	19.43KHZ(P)
7	INTENSITY	B'	22KHZ(P)
9	15.75KHZ(P)	50HZ(N)	50HZ(N)



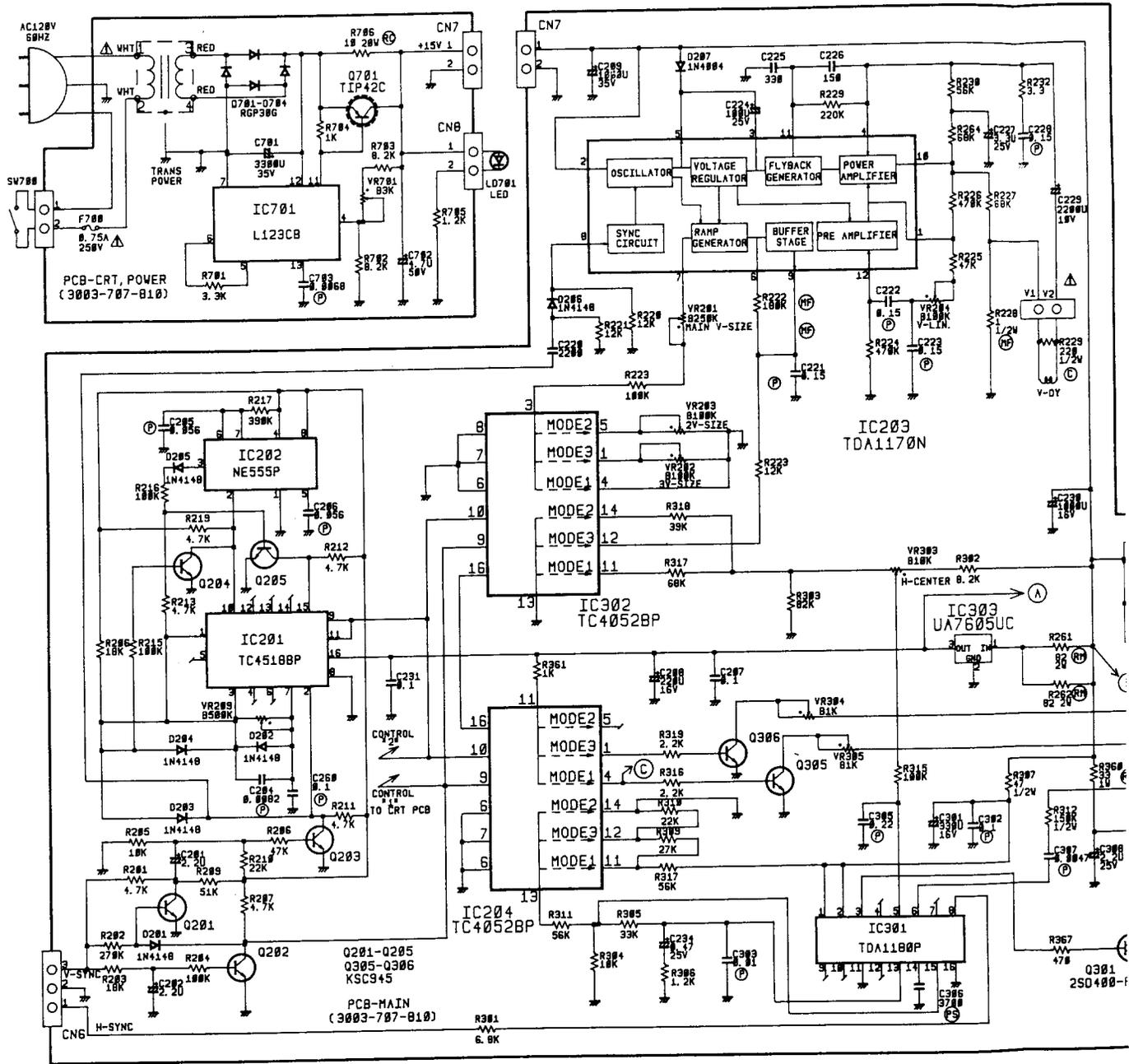
SCHEMATIC DIAGRAM

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CHASSIS NO: G. S. F

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AVERTISSEMENT : " CET EQUIPEMENT EQUIRRI POUR LA SECURITE TOUTES LES PIECES INDIQUEES SCHEMA SONT CRITIQUES POUR LA SECURITE PO SECURITE DE L'APPAREIL NE REMPLACER LES C EST CRITIQUE POUR LA SECURITE QUE PAR DES FABRICANT CONSULTER LA NOMENCLATURE DES P DE RECHANGE EXACTES. "

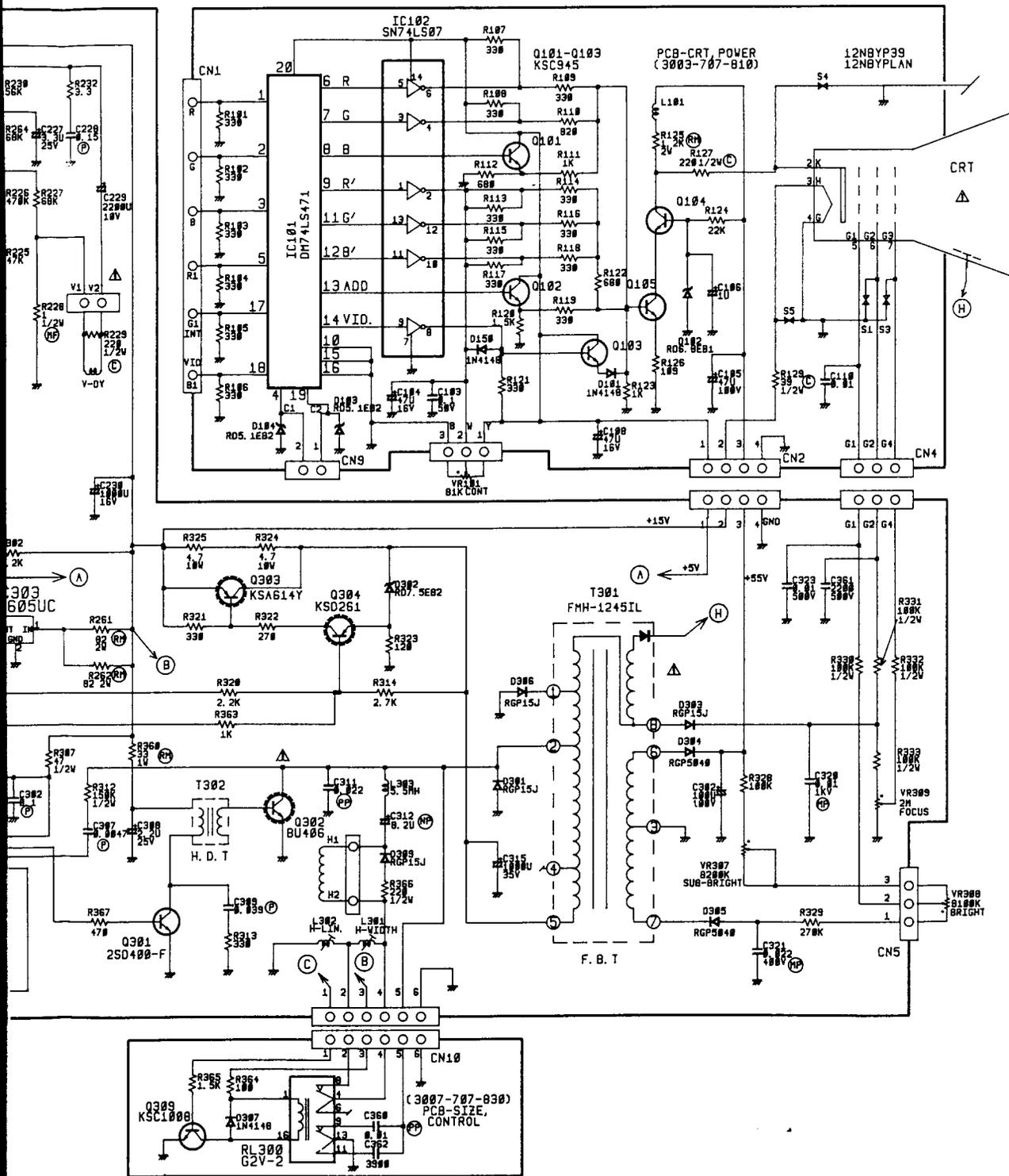


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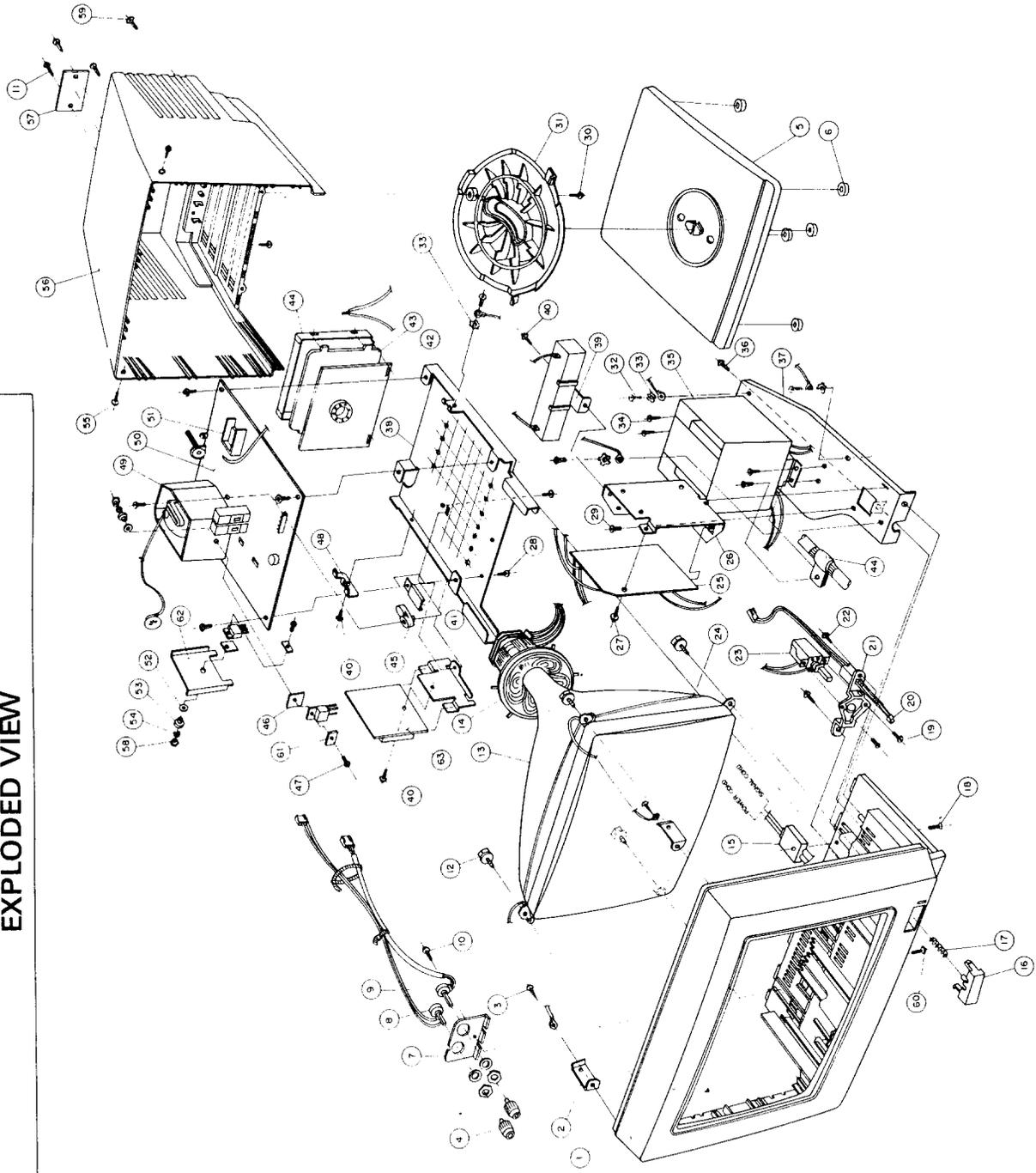
CET EQUIPEMENT EQUIRE DE COMPOSANTS CRITIQUES
 LES PIECES INDIQUEES DANS LES ZONES OMBREES DU
 POUR LA SECURITE POUR MAINTENIR LE DEGRE DE
 NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT
 SECURITE QUE PAR DES PIECES RECOMMANDEES PAR LE
 LA NOMENCLATURE DES PIECES POUR TROUVER LES PIECES

SIGNAL INFORMATION

PIN	CGA	EGA	MDA
1	GROUND	GROUND	GROUND
2	GROUND	R'	
3	R	R	
4	G	G	
5	B	B	
6	INTENSITY	G'	INTENSITY
7		B'	VIDEO
8	15.75KHZ(P)	22KHZ(P)	18.43KHZ(P)
9	60HZ(P)	60HZ(N)	50HZ(N)



EXPLODED VIEW



NO	CODE	NO	DESCRIPTION	SPECIFICATION	QTY	REMARKS
53	269-107-410	PCB SIZE CONTROL	16T 445*45		1	
62	5683-703-111	HEATSHK. TR	95B1-0 TO B		1	
61	7004-701-110	WASHER REC	56C-1 T1.5 IN		3	
50	7048-530-06	SCREW .TAP. RH	25-3X6 FE FZY		1	
59	7128-540-12	SCREW .TAP. TH	25-4X12 FE FZW		2	
58	7004-113-001	NUT HEX	1-1/4 FE FZY		2	
57	8034-762-4	LABEL RING	1027151H14 TO 3		1	
56	6001-930-040	COVER RACK	PPG VO BEE 327 22222		1	
55	7024-700-111	SCREW .TH. PAINT	4M412 FE FZ GRV WMT		2	
54	318-103-001	WASHER SPRING	PH 3.0 FE FZY		2	
53	3934-03-120	INSULATOR TR	3 B 8D 2.5H		2	
52	7304-700-770	WASHER PLAIN	104P6 SPC1 T04FEZY		2	
51	56H4-701-71	HEAT SHK. C	56C-1 T1.0 5h		1	
50	902-767-111	KEY. PAB MAIN	NO. 152		1	
49	4942-702-810	SHIELD /BT	SPFF TO 306		1	
48	6613-714-010	BRKT. SUPPORT PCB	5BHG-1 T1.0		1	
47	7048-130-08	SCREW RH	4M3X8 FE FZY		1	
46	13914-000-34	PLATE MCL3	9-13119 TO 09 REC7		1	
45	4463-701-810	BOSS SUPPORT	ABS UBE KJC V-2 PUF		1	
44	4443-702-800	SHIELD CASE VIKRO	SPF1 TO 306		1	
43	3903-700-210	BARRIER VIKRO	PVC SHEET TO B BLK		1	
42	3003-707-81	PIG. /V60	161Y 50X70		1	
41	6613-711-41	BRACKET STAND	5BHG-1 T1.0		1	
40	6604-117-410	HOLDER ELEMENT R	SPC-1 TO B		2	
39	7109-126-041	SCREW .TAP. PH	22-3X6 FE FZY		1	
38	1454-1700-91	CLASS-FRAME	5BHG-1 T1.0		1	
37	6612-707-110	BRACKET POWER TRANS	5BHG-1 T1.0		1	
36	7128-540-08	SCREW .TAP. TH	25-4X8 FE FZY		1	
35	2869-247-01	TRANS POWER	P120V 2 20V DC		1	
34	7128-540-08	SCREW .TAP. TH	25-4X8 FE FZY		2	
33	7228-105-00	WASHER TOOTHED	8-1P50 FE FZY		1	
32	7048-140-08	SCREW RH	4M4X8 FE FZY		1	
31	8301-700-110	STAND TOP	HPS VO BGE		1	
30	7148-230-121	SCREW .TAP. RH	25-3X12 FE FZY		1	
29	7128-540-08	SCREW .TAP. TH	25-4X8 FE FZY		1	
28	7148-530-06	SCREW .TAP. RH	25-3X6 FE FZY		1	
27	7148-530-06	SCREW .TAP. RH	25-3X6 FE FZY		1	
26	5683-700-71	HEATSHK. S.M.P.S	A00D5 .M14 TO 3		1	
25	3004-707-01	PCB POWER	071803 58		1	
24	6674-102-21	SPRING-EARTH	SWRM PR 8 FZW 2		1	
23	3529-702-51	SWITCH-PUSH	SDRBP 17V-31		1	
22	7128-540-01	SCREW .TAP. TH	25-4X10 FE FZY		2	
21	5613-09-71	BRACKET POWER	ABS VO BLK		1	
20	2309-110-27	LED-GRN	5LB 26 00-3		1	
19	7048-130-08	SCREW RH	4M3X8 FE FZY		2	
18	7118-540-15	SCREW .TAP. PH	25-4X15 FE FZW		1	
17	6544-713-71	SPRING-COIL	SUS-302 WRA P10 5		1	
16	7623-706-61	NLDB-POWER	PPD VO BGE		1	
15	6603-702-000	HOLDER-CORD	ABS VO BLK 00		1	
14	2498-094-51	BEFL YOKE	DMK-0294BL		1	
13	2818-102-42	CRT MONOCHROME	12BET 3IN		1	
12	7154-101-51	SCREW .TAP. HEX	25-2X25 FE FZY		4	
11	7244-700-220	RIVET	ABS HB 1VOR		2	
10	7128-540-014	SCREW .TAP. RH	25-4X10 FE FZY		1	
9	1201-02-214	VR-ROUND SOL	165W 20F B500(MB)		1	
8	201-02-012	VR-ROUND SOL	165W 20F B500(MB)		1	
7	6613-711-61	BRACKET VR	5BHG-1 T1.0		1	
6	6074-700-710	PILOT	NEOPRENE RUBBER SPR		5	
5	8301-700-211	STAND BOTTOM	PPD VO BGE		1	
4	7623-707-00	MNOB-VR	ABS VO BGE		2	
3	7128-540-12	SCREW .TAP. TH	25-4X12 FE FZY		2	
2	6614-733-51	BRACKET MOUNT	5BHG-1 T1.2		1	
1	6001-825-100	COVER FRONT	PPD VO BEE 207122 BK		1	

REPAIR PARTS LIST

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
		ASSY-CHASSIS MAIN	
RESISTER			
R201	01018-277-472	R-CARBON;RD 1/4(T) 4.7K-J	
R202	01018-277-274	R-CARBON;RD 1/4(T) 270K-J	
R203	01018-277-183	R-CARBON;RD 1/4(T) 18K-J	
R204	01018-277-104	R-CARBON;RD 1/4(T) 100K-J	
R205	01018-277-103	R-CARBON;RD 1/4(T) 10K-J	
R206	01018-277-473	R-CARBON;RD 1/4(T) 47K-J	
R207	01018-277-472	R-CARBON;RD 1/4(T) 4.7K-J	
R208	01018-277-183	R-CARBON;RD 1/4(T) 18K-J	
R209	01018-277-512	R-CARBON;RD 1/4(T) 5.1K-J	
R210	01018-277-223	R-CARBON;RD 1/4(T) 22K-J	
R211	01018-277-472	R-CARBON;RD 1/4(T) 4.7K-J	
R212	01018-277-472	R-CARBON;RD 1/4(T) 4.7K-J	
R213	01018-277-473	R-CARBON;RD 1/4(T) 47K-J	
R215	01018-277-104	R-CARBON;RD 1/4(T) 100K-J	
R216	01018-277-104	R-CARBON;RD 1/4(T) 100K-J	
R217	01018-277-394	R-CARBON;RD 1/4(T) 390K-J	
R219	01018-277-472	R-CARBON;RD 1/4(T) 4.7K-J	
R220	01018-277-123	R-CARBON;RD 1/4(T) 12K-J	
R221	01018-277-123	R-CARBON;RD 1/4(T) 12K-J	
R222	01048-275-184	R-METAL FILM;RM 1/4(T) 180K-J	
R223	01018-277-824	R-CARBON;RD 1/4(T) 820K-J	
R224	01018-277-474	R-CARBON;RD 1/4(T) 470K-J	
R225	01018-277-473	R-CARBON;RD 1/4(T) 47K-J	
R226	01018-277-474	R-CARBON;RD 1/4(T) 470K-J	
R227	01018-277-683	R-CARBON;RD 1/4(T) 68K-J	
R228	01048-377-109	R-METAL FILM;RM 1/2(T) 1-J	
R229	01018-277-224	R-CARBON;RD 1/4(T) 220K-J	
R230	01018-277-563	R-CARBON;RD 1/4(T) 56K-J	
R232	01018-377-339	R-CARBON;RD 1/4(T) 3.3K-J	
R233	01018-277-154	R-CARBON;RD 1/4(T) 150K-J	
R260	01018-377-100	R-CARBON;RD 1/2(T) 10-J	
R261	01045-527-820	R-METAL OXIDE;RS 2P 82-J	
R262	01045-527-820	R-METAL OXIDE;RS 2P 82-J	
R261	01018-277-683	R-CARBON;RD 1/4(T) 68K-J	
R301	01018-277-682	R-CARBON;RD 1/4(T) 6.8K-J	
R302	01018-277-822	R-CARBON;RD 1/4(T) 8.2K-J	
R303	01018-277-823	R-CARBON;RD 1/4(T) 82K-J	
R304	01018-277-103	R-CARBON;RD 1/4(T) 10K-J	
R305	01018-277-333	R-CARBON;RD 1/4(T) 33K-J	
R306	01018-277-122	R-CARBON;RD 1/4(T) 1.2K-J	
R307	01018-277-470	R-CARBON;RD 1/4(T) 47K-J	
R308	01018-277-563	R-CARBON;RD 1/4(T) 56K-J	
R309	01018-277-273	R-CARBON;RD 1/4(T) 27K-J	
R310	01018-277-223	R-CARBON;RD 1/4(T) 22K-J	
R311	01018-277-563	R-CARBON;RD 1/4(T) 56K-J	
R312	01018-277-514	R-CARBON;RD 1/4(T) 150K-J	
R313	01018-277-331	R-CARBON;RD 1/4(T) 330K-J	
R314	01018-277-272	R-CARBON;RD 1/4(T) 2.7K-J	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
C307	01505-723-472	C-POLYESTER;CQ 921M (T) 100V 0.0047-J	
C308	01608-904-100	C-ELECTROLYTIC;CE 04W (T) 25V 10M	
C309	01505-723-393	C-POLYESTER;CQ 921M (T) 100V 0.039M-J	
C311	01509-339-500	C-POLYPROPYLENE;CQ 922M 630V 0.022M-J	
C312	01609-803-820	C-ELECTROLYTIC NPHF;CE 04P 50V 8.2M	
C315	01609-402-140	C-ELECTROLYTIC ;CE 04W 35V 1000M	
C320	01519-005-010	C-M, POLYESTER;CF 922M 1KV 0.01M-K	
C321	01519-003-090	C-M, POLYESTER;CF 922M 400V 0.022M-K	
C322	01609-403-100	C-ELECTROLYTIC;CE 04W 100V 100M	
C323		C-CERAMIC HK;CK 45 B 500V 0.01M-K	
C361	01417-468-222	C-CERAMIC HK;CK 45 (T) B 500V 2200-K	
TRANSISTOR			
Q201	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q202	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q203	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q204	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q205	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q301	02139-401-390	TRANSISTOR;2SD400-F	
Q302	02159-301-410	TRANSISTOR;BU406	
Q303	02139-103-570	TRANSISTOR;KSA 614-Y	
Q304	02149-401-830	TRANSISTOR;KSD 261-Y	
Q305	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q306	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
IC			
IC201	021109-301-50	IC-COUNTER;TC 4518BP	
IC202	02119-501-560	IC-LOGIC;NE555P	
IC203	02119-101-270	IC-VERTICAL;TDA1170N	
IC204	02109-308-520	IC-MUX;TC 4052BP	
IC301	02119-101-251	IC-HORIZONTAL;TDA1180P	
IC302	02109-308-520	IC-MUX;TC 4052BP	
IC303	02119-601-810	IC-VOLTAGE REGULATOR;UA7805UC	
DIODE			
D201	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
D202	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
D203	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
D204	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
D205	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
D206	02169-107-410	DIODE;1N4148	
D207	02169-201-080	DIODE;1N4004 (T)	
D301	02169-206-177	DIODE;RGP 15J (T)	
D302	02169-403-097	DIODE-ZENER;RD7.5EB2 (T)	
D303	02169-206-177	DIODE;RGP15J (T)	
D304	02169-210-517	DIODE;RGP5040 (T)	
D305	02169-210-517	DIODE;RGP5040 (T)	
D306	02169-206-177	DIODE;RGP15J (T)	
D309	02169-206-170	DIODE;RGP15J	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
R315	01018-277-104	R-CARBON;RD ¼(T) 100K-J	
R316	01018-277-222	R-CARBON;RD ¼(T) 2.2K-J	
R317	01018-277-683	R-CARBON;RD ¼(T) 68K-J	
R318	01018-277-473	R-CARBON;RD ¼(T) 47K-J	
R319	01018-277-222	R-CARBON;RD ¼(T) 2.2K-J	
R320	01018-277-222	R-CARBON;RD ¼(T) 2.2K-J	
R321	01018-277-331	R-CARBON;RD ¼(T) 330K-J	
R322	01018-277-271	R-CARBON;RD ¼(T) 270K-J	
R323	01018-277-121	R-CARBON;RD ¼(T) 120K-J	
R324	01039-787-259	R-CEMENT WIRE;RW 10H 2.5-J	
R325	01039-727-479	R-CEMENT WIRE;RW 10P 4.7-J	
R328	01018-277-104	R-CARBON;RD ¼(T) 100K-J	
R329	01018-277-274	R-CARBON;RD ¼(T) 270K-J	
R330	01018-378-104	R-COMPOSITION;RC ½(T) 100K-K	
R331	01018-378-104	R-COMPOSITION;RC ½(T) 100K-K	
R332	01018-378-104	R-COMPOSITION;RC ½(T) 100K-K	
R333	01018-378-104	R-COMPOSITION;RC ½(T) 100K-K	
R360	01045-527-330	R-METAL OXIDE;RS 1P 33-J	
R361	01018-277-102	R-CARBON;RD ¼(T) 1K-J	
R363	01018-277-102	R-CARBON;RD ¼(T) 1K-J	
R366	01018-357-221	R-CARBON;RD ¼(R) 220K-J	
R367	01018-277-471	R-CARBON;RD ¼(T) 470-J	
	00509-400-116	WIRE-SO. DOPPER;TA-0.6 SN	

CAPACITOR

C201	01608-906-229	C-ELECTROLYTIC;CE 04W (T) 50V 2.2M	
C202	01608-906-229	C-ELECTROLYTIC;CE 04W (T) 50V 2.2M	
C204	01505-723-822	C-POLYESTER;CQ 921M (T) 100V 0.0082M-J	
C205	01509-121-230	C-POLYESTER;CQ 921M (T) 100V 0.056M-J	
C206	01505-724-563	C-POLYESTER;CQ 921M (T) 100V 0.056-K	
C208	01608-903-221	C-ELECTROLYTIC;CE 04W (T) 16V 220M	
C209	01609-402-140	C-ELECTROLYTIC;CE 04W 35V 1000M	
C220	01505-723-222	C-POLYESTER;CQ 921M (T) 100V 0.0022-J	
C221	01509-121-750	C-POLYESTER;CQ 921M (T) 100V 0.15M-J	
C222	01509-121-750	C-POLYESTER;CQ 921M (T) 100V 0.15M-J	
C223	01608-904-101	C-POLYESTER;CQ 921M (T) 100V 0.15M-J	
C224	01608-904-101	C-ELECTROLYTIC;CE 04W (T)25V 100M	
C225	01417-468-331	C-CERAMIC HK;CK 45 (T) B 500V 330-K	
C226	01417-318-151	C-CERAMIC HK;CK 45 (T) B 50V 3.3-K	
C227	01608-906-339	C-ELECTROLYTIC;CE 04W (T) 50V 3.3M	
C228	01509-121-750	C-POLYESTER;CQ 921M 100V 0.15M-J	
C229	01609-401-340	C-ELECTROLYTIC;CE 04W 10V 2200M	
C230	01608-904-101	C-ELECTROLYTIC;CE 04W (T) 25V 100M	
C231	01417-344-104	C-CERAMIC HK;CK 45 (T) F 50V 0.1M-Z	
C260	01505-723-104	C-POLYESTER;CQ 921M (T) 100V 0.1M-J	
C270	01417-318-151	C-CERAMIC;CK 45 (T) B 50V 150-K	
C301	01609-401-490	C-ELECTROLYTIC;CE 04W 16V 330M	
C302	01505-723-104	C-POLYESTER;CQ 921M (T) 100V 0.1M-J	
C303	01505-723-103	C-POLYESTER;CQ 921M (T) 100V 0.01M-J	
C304	01608-906-047	C-ELECTROLYTIC;CE 04W (T) 50V 0.47M	
C305	01509-121-300	C-POLYSTYRENE;CQ 921M 100V 0.22M-J	
C306	01508-213-372	C-POLYSTYRENE;CQ 09S 50V 3700-J	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
VARIABLE RESISTER			
VR201	01241-122-010	VR-SEMI;TVP 111 B 250K	
VR202	01214-108-006	VR-SEMI;CET 92A B 100K	
VR203	01214-108-006	VR-SEMI;CET 92A B 100K	
VR204	01214-108-006	VR-SEMI;CET 92A B 100K	
VR209	01241-108-014	VR-SEMI;CET 92A B 500K	
VR303	01246-101-149	VR-SEMI (SHAFT);SN-8285 B 10K CTS	
VR304	01241-108-005	VR-SEMI;CET 92A B 3K	
VR305	01241-108-005	VR-SEMI;CET 92A B 3K	
VR307	01241-108-008	VR-SEMI;CET 92A B 200K	
VR308	01241-108-006	VR-SEMI;CET 92A B 100K	
VR309	01241-141-005	VR-SEMI;CET 118C B 2M	
VR303A	05104-706-910	SHAFT-VR;SKI-201K-332-90KTS	
OTHERS			
L301	02449-409-010	COIL-WIDTH;3.5-18 μ H	
L302	02449-733-210	COIL-H LINEARITY;5.0-18.3 μ H	
L303	02449-733-510	COIL-H LINEARITY;5.5 μ H	
T301	02859-127-610	F.B.T;FMH-1245IL	
T302	02849-031-710	TRANS-HORI.DRIVER;16*5.2 M/M, 8.7MH	
CN2	03054-609-210	CONNECTOR-DCS ASSY	
CN7	03054-618-820	CONNECTOR-PWR ASSY	
CN9	03054-619-660	CONNECTOR-SELEC ASSY	
CN10	03054-641-510	CONNECTOR-S.C ASSY	
CN4	03349-062-020	CONNECTOR-WAFER;5045-03A MOLEX	
CN5	03349-062-020	CONNECTOR-WAFER;5045-03A MOLEX	
CN6	03349-062-020	CONNECTOR-WAFER;5045-03A MOLEX	
H.DY	03349-106-810	CONNECTOR-WAFER;5045-02A MOLEX	
V.DY	03349-106-810	CONNECTOR-WAFER;5045-02A MOLEX	
Q302	04542-702-810	SHIELD-FBT;SBC-1 T0.5FT	
Q303	05683-703-111	HEATSINK-TR;BSB1-0 T0.8	
	03914-100-340	PLATE-MICA;5-B \times 19 T0.09RECT	
	03934-103-120	INSULATOR-TR;3.8-8D 2-5H N66V-O	
	07048-130-122	SCREW-RH;+M3+12 FE FZW	
	07208-113-001	NUT-HEX;1-M3 FE FZY	
	07034-700-770	WASHER-PLAIN;1D4216 SPC-1 FZY	
	07304-701-110	WASHER-REC;SBC-1 T1.5NI	
	07318-103-001	WASHER-SPRING;P13.0 FE FZY	
	03124-788-810	PIN-GT;14.2MM 2.35PI	
		ASSY-POWER P.C.B	
RESISRER			
R701	01018-277-332	R-CARBON;RD $\frac{1}{4}$ (T) 3.3K-J	
R702	01018-277-822	R-CARBON;RD $\frac{1}{4}$ (T) 8.2K-J	
R703	01018-277-822	R-CARBON;RD $\frac{1}{4}$ (T) 8.2K-J	
R704	01018-277-102	R-CARBON;RD $\frac{1}{4}$ (T) 1K-J	
R705	01018-277-122	R-CARBON;RD $\frac{1}{4}$ (T) 1.2K-J	
R706	01039-927-100	R-CEMENT WIRE;RD 20P 10-J	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
CAPACITOR			
C701	01609-401-970	C-ELECTROLYTIC;CE 04W 35V 3300M	
C702	01608-905-479	C-ELECTROLYTIC;CE 04W (T) 35V 4.7M	
C703	01505-723-682	C-POLYESTER;CQ 921M (T) 100V 0.0068-J	
SEMICONDUCTORS			
IC701	02119-601-080	IC-REGULATOR;L123CB	
Q701	02149-401-440	TRANSISTOR;TIP42C	
D701	02169-206-190	DIODE;RGP30G	
D702	02169-206-190	DIODE;RGP30G	
D703	02169-206-190	DIODE;RGP30G	
D704	02169-206-190	DIODE;RGP30G	
LD701	02309-110-270	LED-GRN;SLB-26 GG-3	
LD701A	03054-619-650	CONNECTOR-LED ASSY	
LD701B	03344-106-810	CONNECTOR-WAFER;5045-02A MOLEX	
T701	02869-290-010	TRANS-POWER;P-120, S-22(66M)	
F700	04709-090-010	FUSE;61S 250V 0.75A U/C SLOW-B	
F700A	03164-700-111	CLIP-FUSE;PBP3 1/2H 0.4T SN	
SW700	03529-702-210	SWITCH-PUSH;EBS 8213V	
VR701	01241-108-005	VR-SEMI;CET 92A B 3K	
R706A	03054-619-640	CONNECTOR-RESISTOR ASSY	
R706B	06604-117-410	HOLDER-CEMENT RESISTOR;SPC-1 T0.8	
CN7	03344-122-010	CONNECTOR-WAFER;5273-02A MOLEX	
	03124-101-250	PIN-GT;24MM 235PI	
	03054-810-310	POWER CORD-AC ASSY	
	00528-732-202	WIRE-VINYL U/C;1015 # 22 (T) RED	
	06613-709-710	BRACKET-POWER;ABS VO BLK	
	03124-700-810	PIN-GT;14.2MM 2.35 PI	
ASSY-CRT PCB			
RESISTER			
R101	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R102	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R103	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R104	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R105	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R106	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R107	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R108	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R109	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R110	01018-277-821	R-CARBON;RD 1/4 (T) 820-J	
R111	01018-277-102	R-CARBON;RD 1/4 (T) 1K-J	
R112	01018-277-681	R-CARBON;RD 1/4 (T) 680-J	
R113	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R114	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R115	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R116	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R117	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R118	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	
R119	01018-277-331	R-CARBON;RD 1/4 (T) 330-J	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
R120	01018-277-152	R-CARBON;RD ¼ (T) 1.5K-J	
R121	01018-277-331	R-CARBON;RD ¼ (T) 330-J	
R122	01018-277-681	R-CARBON;RD ¼ (T) 680-J	
R123	01018-277-102	R-CARBON;RD ¼ (T) 1K-J	
R124	01018-277-223	R-CARBON;RD ¼ (T) 22K-J	
R125	01045-527-122	R-METAL OXIDE;RS 2P 1.2K	
R126	01045-527-121	R-CARBON;RD ¼ (T) 120-J	
R127	01028-378-221	R-COMPOSITION;RC ½ (T) 220-J	
R129	01028-378-391	R-COMPOSITION;RC ½ (T) 39-K	
CAPACITOR			
C103	01417-344-104	C-CERAMIC HK;CK45 (T) F 50V 0.1M-Z	
C104	01608-903-470	C-ELECTROLYTIC;CE04W (T) 16V 47M	
C105	01609-403-090	C-ELECTROLYTIC;CE04W (T) 100V 47M	
C106	01608-906-109	C-ELECTROLYTIC;CE04W (T) 50V 1M	
C108	01608-903-470	C-ELECTROLYTIC;CE04W (T) 16V 47M	
C110	01419-106-470	C-CERAMIC HK;CK45 E 500V 0.1M-P	
TRANSISTOR			
Q101	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q102	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q103	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
Q104	02139-303-220	TRANSISTOR;2SC 2228A-D	
Q105	02139-302-747	TRANSISTOR;KSC 945-Y (T)	
IC			
IC101	02109-410-010	IC-PROM;TBP28L22N (NON-MASKING)	
IC102	02109-101-880	IC-TTL;SN74LS07	
DIODE			
D101	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
D102	02169-403-730	DIODE-ZENER;RD 6.8 EB3 (T)	
D103	02169-403-690	DIODE-ZENER;RD 6.8 EB1	
D104	02169-403-690	DIODE-ZENER;RD 6.8 EB1	
D150	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
OTHERS			
S1	02029-010-010	LAMP-NEON;DMS 90-130V DC	
S3	04569-001-010	SPARK-GAP;Ag20F 1000-1 +/-250V	
S4	02029-010-010	LAMP-NEON;DMS 90-130V DC	
S5	02029-010-010	LAMP-NEON;DMS 90-130V DC	
L101	02429-827-017	COIL-PEAKING;4.7μH(T)	
	03359-018-010	SOCKET-CRT;CY4811 OR PBTP UL	
CN1	03349-062-050	CONNECTOR-WAFER;5045-06A MOLEX	
CN2	03344-106-920	CONNECTOR-WAFER;5045-04A MOLEX	
CN4	03054-620-020	CONNECTOR-SCREEN ASSY	
CONT	03349-062-020	CONNECTOR-WAFER;5045-03A MOLEX	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
ASSY-SINE CONTROL R.C.B.			
R364	01028-327-101	R-CARBON;RD ½P 100-J	
R365	01028-277-152	R-CARBON;RD ½P 1.5K-J	
C360	01509-339-450	C-POLYPROPYLENE;CQ922M	
Q309	02149-301-430	TANSISTOR;KSC 1008-Y	
D307	02169-107-410	DIODE-SWITCHING;1N4148 (T)	
CN10	03344-124-910	CONNECT-WAFER;5045-06A MOLEX	
RL300	04724-102-010	RELAY;G2V-2 12V DC (DMRON)	
C362	01502-554-392	C-POLYPROPYLENE;CQ 922M 630V 0.003µF-K	
ASSY-D.Y.			
R299	01028-378-221	R-COMPOSITION;RC ½ (T) 220-K	
	02439-054-210	DEFL-YOKE;DMK-1294EL	
H-DY	03054-619-620	CONNECTOR-H.DY ASSY	
V-DY	03054-619-630	CONNECTOR-V.DY ASSY	
ASSY SIGNAL CABLE			
	03054-401-310	CABLE-SIGNAL ASSY	
SUGNAL	06634-704-210	CLAMP-CABLE;A1050S H14 T0.8	
ASSY-CONTROL			
VR101	01201-102-011	VR-ROUN SGL;18SN 20F E1K (M8)	
VR308	01201-102-012	VR-ROUND SGL;18SN 20F B100K (M8)	
BRIT	03054-620-030	CONNECTOR-BRIGHT ASSY	
CONT	03054-620-040	CONNECTOR-CONTROL ASSY	
	06613-711-610	BRACKET-VR;SBHG-1 T1.0	
	07623-707-010	KNOB-VR;ABS V0 BGE 00	
	00742-185-069	RESIN-ABS;LUCK-AF 303 # 1447	
CRT			
	02019-122-620	CRT-MONOCHROME; 12NBY39N (NDS001) GREEN	
	02019-122-510	CRT-MONOCHROME-U/C; 12NB/LAN"A" AMBER (DARK PANEL)	
PCB			
	03003-707-810	PCB-MAIN/CRT/POWER	
	03003-707-830	RCB-SIZE CONTROL	
GROUND WIRE			
	00528-732-200	WIRE-VINYL U/C;1015 # 22CT	
	03054-222-460	CONNECTOR 1P ASSY	
	03054-222-480	CONNECTOR 1P ASSY	
	4554-701-010	EARTH PLATE;PBS3 SP-H TO.	
	00528-732-200	WIRE-VINYL U/C;1015 # 22CT	
	03054-222-070	LUG TERMINAL ASSY	

LOCATION NO.	CODE NO.	DESCRIPTION	REMARK
ASSY-ACCESSORY			
	08124-702-710 08654-107-030	WARRANTY CARD;WHITE PAPER INSTRUCTION CARD;ART PAPER PE-BAG;HDPE T0.02×230×36	