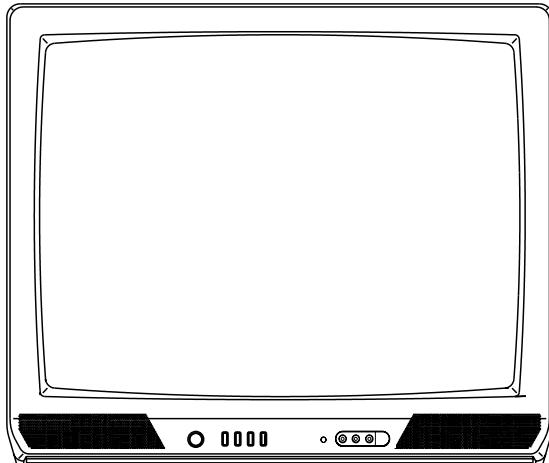




MT1125A

SERVICE MANUAL

COLOR TELEVISION RECEIVER



**ORIGINAL
MFR'S VERSION B**



MT1125A

SERVICE MANUAL

COLOR TELEVISION RECEIVER

**REVISION 1
MFR'S VERSION G**

MFR'S VERSION	IC101	CRT
F	OEC7044A	A63AHC26X
G	OEC7044B	A63AFW36X

Please file this revision with the original version.

NOTE FOR THE REPLACING OF MEMORY IC

ADDRESS	MFR'S VERSION F	MFR'S VERSION G
	DATA	DATA
03	31	30
0A	F4	FF

DIFFERENCES

Alteration of IC.

REF.NO	MFR'S VERSION F		MFR'S VERSION G	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
IC101	I56F07044A	IC OEC7044A	I56F07044B	IC OEC7044B
PCB010	A3I055H01A	MAIN PCB ASS'Y TMX458A	A3I055F01A	MAIN PCB ASS'Y TMX458A

MAIN PCB's are interchangeable.

Alteration of CRT.

REF.NO	MFR'S VERSION F		MFR'S VERSION G	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
△ V801	0984250502	COLOR PICTURE TUBE A63AHC26X	092T250501	COLOR PICTURE TUBE A63AFW36X
△ R429	R6558A1R8J	R,FUSE 1.8 OHM 2W	R6558A4R7J	R,FUSE 4.7 OHM 2W
△ R406	R801R7332J	RC 3.3K OHM 1/10W	R801R7272J	RC 2.7K OHM 1/10W
PCB110	A3I055H11A	CRT PCB ASS'Y TCX318A	A3I055F11A	CRT PCB ASS'Y TCX318A

CRT PCB's are not interchangeable.

SPEC.NO.	M3I0-55F
O/R NO.	A083528



MT1125A

SERVICE MANUAL

COLOR TELEVISION RECEIVER

**REVISION 1
MFR'S VERSION D**

MFR'S VERSION	IC101
B	OEC3041A
D	OEC3041B

Please file this revision with the original version.

DIFFERENCES

Alteration of IC.

REF.NO	MFR'S VERSION B		MFR'S VERSION D	
	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
IC101	I53F53041A	IC OEC3041A	I53F53041B	IC OEC3041B
PCB010	A3I011H01A	MAIN PCB ASS'Y TM9441A	A3I011H01B	MAIN PCB ASS'Y TM9441A

MAIN PCB's are interchangeable.

SPEC.NO.	M3I0-11H
O/R NO.	A9Y3521

SERVICING NOTICES ON CHECKING

1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.

Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a  mark, the designated parts must be used.

4. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

5. TAKE CARE TO DEAL WITH THE CATHODE-RAY TUBE

In the condition that an explosion-proof cathode-ray tube is set in this equipment, safety is secured against implosion. However, when removing it or serving from backward, it is dangerous to give a shock. Take enough care to deal with it.

6. AVOID AN X-RAY

Safety is secured against an X-ray by considering about the cathode-ray tube and the high voltage peripheral circuit, etc.

Therefore, when repairing the high voltage peripheral circuit, use the designated parts and make sure not modify the circuit.

Repairing except indicates causes rising of high voltage, and it emits an X-ray from the cathode-ray tube.

7. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

(INSULATION CHECK PROCEDURE)

1. Unplug the plug from the AC outlet.
2. Remove the antenna terminal on TV and turn on the TV.
3. Insulation resistance between the cord plug terminals and the eternal exposure metal [Note 2] should be more than 1M ohm by using the 500V insulation resistance meter [Note 1].
4. If the insulation resistance is less than 1M ohm, the inspection repair should be required.

[Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

[Note 2]

External exposure metal: Antenna terminal

HOW TO ORDER PARTS

Please include the following informations when you order parts. (Particularly the VERSION LETTER.)

1. MODEL NUMBER and VERSION LETTER

The MODEL NUMBER can be found on the back of each product and the VERSION LETTER can be found at the end of the SERIAL NUMBER.

2. PART NO. and DESCRIPTION

You can find it in your SERVICE MANUAL.

IMPORTANT

Inferior silicon grease can damage IC's and transistors.

When replacing an IC's or transistors, use only specified silicon grease (YG6260M).

Remove all old silicon before applying new silicon.

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GENERAL SPECIFICATIONS

G-1. Outline of the Product

25 inch (626 mmV): Measured diagonally
 Color CRT 100 degree deflection

G-2. Broadcasting System

US System M

G-3. Color System NTSC PAL SECAM or Monochrome signal

G-4. NTSC Playback(PAL 60Hz) Yes No

G-5. NTSC 3.58+4.43/PAL60Hz Yes No

G-6. Antenna Input Impedance

VHF/UHF 75 ohm unbalanced

G-7. Tuner and Receiving

Contactless Electric tuner

1Tuner System

2Tuner System

channel Tuner

Oscar(W/O HYPER)
 France CATV)

Oscar(W/ HYPER)
 Others

Receiving channel

VHF (LOW)	<u>2</u> ch~ <u>6</u> ch	<u>J</u> ch~ <u>W+29</u> ch	<u>GGG</u> ch~ <u>W+84</u> ch
(HIGH)	<u>7</u> ch~ <u>13</u> ch		
(CATV)	<u>A5</u> ch~ <u>I</u> ch		
UHF	<u>14</u> ch~ <u>69</u> ch		

Tuning System

Frequency syn. Voltage syn. Others

G-8. Preset Channel

-- channels

G-9. Intermediate Frequency

Picture(fP)	<u>45.75</u> MHz	<u> </u> MHz	<u> </u> MHz
Sound (fS)	<u>41.25</u> MHz	<u> </u> MHz	<u> </u> MHz
fP-fS	<u>4.50</u> MHz	<u> </u> MHz	<u> </u> MHz

G-10. Stereo/Dual TV Sound

Yes (NICAM) GERMAN USA JAPAN) No

G-11. Tuner Sound Muting

Yes No

G-12. Power Source

120 V AC 50Hz AC 60Hz

G-13. Power Consumption:

110 W at AC 120 V 60 Hz

 W at DC V

Stand by: 8 W at AC 120 V 60 Hz

Per Year: - kWh / Year

G-14. Dimensions(Approx.)

618 mm(W) 504 mm(D) 525 mm(H)

G-15. Weight(Approx.) Net : 27 kg (59.9 lbs)

Gross: 29 kg (64.3 lbs)

G-16. Cabinet Material

Cabinet Front:	<input checked="" type="checkbox"/> PS <input type="checkbox"/> ABS	<input type="checkbox"/> 94HB <input type="checkbox"/> 94V2 <input checked="" type="checkbox"/> 94V0	<input checked="" type="checkbox"/> DE CABROM <input type="checkbox"/> NON-DECA
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Back Panel:	<input checked="" type="checkbox"/> PS <input type="checkbox"/> ABS	<input type="checkbox"/> 94HB <input type="checkbox"/> 94V2 <input checked="" type="checkbox"/> 94V0	<input checked="" type="checkbox"/> DE CABROM <input type="checkbox"/> NON-DECA
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GENERAL SPECIFICATIONS

G-17.Protector:	<input checked="" type="checkbox"/> Power Fuse																																																													
G-18.Regulation Safety	<input checked="" type="checkbox"/> UL <input type="checkbox"/> BS <input type="checkbox"/> SEMKO <input type="checkbox"/> NOM	<input checked="" type="checkbox"/> CSA <input type="checkbox"/> NF <input type="checkbox"/> NZ <input type="checkbox"/> AS3159	<input type="checkbox"/> SAA <input type="checkbox"/> NEMKO <input type="checkbox"/> HOMOLO <input type="checkbox"/> DENTORI	<input type="checkbox"/> SI <input type="checkbox"/> FEMKO <input type="checkbox"/> SABS <input type="checkbox"/> UNE	<input type="checkbox"/> CE <input type="checkbox"/> DEMKO <input type="checkbox"/> CNS <input type="checkbox"/> GOST	<input type="checkbox"/> SEV <input type="checkbox"/> IEC65 <input type="checkbox"/> SISIR <input type="checkbox"/> NONE																																																								
Radiation	<input checked="" type="checkbox"/> FCC <input type="checkbox"/> SABA <input type="checkbox"/> CNS	<input checked="" type="checkbox"/> DOC <input type="checkbox"/> SI <input type="checkbox"/> CISPR13	<input type="checkbox"/> FTZ <input type="checkbox"/> NF <input type="checkbox"/> DENTORI	<input type="checkbox"/> PTT <input type="checkbox"/> NZ <input type="checkbox"/> AS/NZS	<input type="checkbox"/> CE <input type="checkbox"/> HOMOLO <input type="checkbox"/> NONE	<input type="checkbox"/> SEV <input type="checkbox"/> UNE																																																								
X-Radiation	<input type="checkbox"/> PTB	<input checked="" type="checkbox"/> DHHS	<input checked="" type="checkbox"/> HWC	<input type="checkbox"/> DENTORI	<input type="checkbox"/> NONE																																																									
G-19.Temperature	Operation <u> 5 </u> °C ~ <u>40</u> °C Storage <u>-20</u> °C ~ <u>60</u> °C																																																													
G-20.Operating Humidity	Less than <u>80</u> %RH																																																													
G-21.Clock and Timer	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td>Sleep Timer</td> <td><input checked="" type="checkbox"/>Yes Max <u>120</u> Min. (<u>10</u> Min. Step)</td> <td><input type="checkbox"/>No</td> </tr> <tr> <td>On/Off Timer</td> <td><input type="checkbox"/>Yes _____ Programs</td> <td><input checked="" type="checkbox"/>No</td> </tr> <tr> <td>Wake Up Timer</td> <td><input type="checkbox"/>Yes _____ Programs</td> <td><input checked="" type="checkbox"/>No</td> </tr> </table>						Sleep Timer	<input checked="" type="checkbox"/> Yes Max <u>120</u> Min. (<u>10</u> Min. Step)	<input type="checkbox"/> No	On/Off Timer	<input type="checkbox"/> Yes _____ Programs	<input checked="" type="checkbox"/> No	Wake Up Timer	<input type="checkbox"/> Yes _____ Programs	<input checked="" type="checkbox"/> No																																															
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G-22.Timer back up Time	More than <u>--</u> Minutes (at Power Off Mode)																																																													
G-23.Terminals	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/>VHF/UHF Antenna</td> <td><input type="checkbox"/>Din Type</td> <td><input checked="" type="checkbox"/>F-Type</td> <td><input type="checkbox"/>France Type</td> </tr> <tr> <td><input checked="" type="checkbox"/>Video Input(Front)</td> <td><input checked="" type="checkbox"/>Phono Jack (RCA ø8.3)</td> <td><input type="checkbox"/>BNC</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/>Video Input(Rear)</td> <td><input checked="" type="checkbox"/>Phono Jack (RCA ø8.3)</td> <td><input type="checkbox"/>BNC</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/>Video Output(Rear)</td> <td><input checked="" type="checkbox"/>Phono Jack (RCA ø8.3)</td> <td><input type="checkbox"/>BNC</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/>Audio Input(Front)</td> <td><input checked="" type="checkbox"/>Phono Jack (RCA ø8.3) x2</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/>Audio Input(Rear)</td> <td><input checked="" type="checkbox"/>Phono Jack (RCA ø8.3) x2</td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/>Audio Output(Rear)</td> <td><input checked="" type="checkbox"/>Phono Jack (RCA ø8.3) x2</td> <td></td> <td></td> </tr> <tr> <td><input type="checkbox"/>21 Pin</td> <td><input type="checkbox"/>DC Jack(Center +)</td> <td></td> <td><input type="checkbox"/>Ear Phone Jack(ø3.5)</td> </tr> <tr> <td><input type="checkbox"/>Head Phone Jack(ø3.5)</td> <td><input type="checkbox"/>AC Outlet</td> <td></td> <td><input type="checkbox"/>Ext Speaker</td> </tr> <tr> <td><input type="checkbox"/>Diversity</td> <td><input type="checkbox"/>S Input(Front)</td> <td></td> <td><input type="checkbox"/>S Input(Rear)</td> </tr> </table>						<input checked="" type="checkbox"/> VHF/UHF Antenna	<input type="checkbox"/> Din Type	<input checked="" type="checkbox"/> F-Type	<input type="checkbox"/> France Type	<input checked="" type="checkbox"/> Video Input(Front)	<input checked="" type="checkbox"/> Phono Jack (RCA ø8.3)	<input type="checkbox"/> BNC		<input checked="" type="checkbox"/> Video Input(Rear)	<input checked="" type="checkbox"/> Phono Jack (RCA ø8.3)	<input type="checkbox"/> BNC		<input checked="" type="checkbox"/> Video Output(Rear)	<input checked="" type="checkbox"/> Phono Jack (RCA ø8.3)	<input type="checkbox"/> BNC		<input checked="" type="checkbox"/> Audio Input(Front)	<input checked="" type="checkbox"/> Phono Jack (RCA ø8.3) x2			<input checked="" type="checkbox"/> Audio Input(Rear)	<input checked="" type="checkbox"/> Phono Jack (RCA ø8.3) x2			<input checked="" type="checkbox"/> Audio Output(Rear)	<input checked="" type="checkbox"/> Phono Jack (RCA ø8.3) x2			<input type="checkbox"/> 21 Pin	<input type="checkbox"/> DC Jack(Center +)		<input type="checkbox"/> Ear Phone Jack(ø3.5)	<input type="checkbox"/> Head Phone Jack(ø3.5)	<input type="checkbox"/> AC Outlet		<input type="checkbox"/> Ext Speaker	<input type="checkbox"/> Diversity	<input type="checkbox"/> S Input(Front)		<input type="checkbox"/> S Input(Rear)																
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G-24.Indicator	<input type="checkbox"/> Power (<u> </u>)	<input type="checkbox"/> Stand By (<u> </u>)	<input type="checkbox"/> On Timer (<u> </u>)	<input checked="" type="checkbox"/> NONE																																																										
G-25.Display	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td>On Screen Display</td> <td><input checked="" type="checkbox"/>Clock Set(<input type="checkbox"/>12H <input type="checkbox"/>24H)</td> <td><input type="checkbox"/>System Selec</td> <td><input type="checkbox"/>On/Off Timer</td> </tr> <tr> <td></td> <td><input type="checkbox"/>Hotel Lock</td> <td><input type="checkbox"/>Area Code</td> <td><input checked="" type="checkbox"/>CH Tuning</td> </tr> <tr> <td></td> <td><input type="checkbox"/>Sound 1/2</td> <td><input type="checkbox"/>NICAM Auto Off</td> <td><input checked="" type="checkbox"/>Picture</td> </tr> <tr> <td></td> <td><input type="checkbox"/>Guide CH Set</td> <td><input checked="" type="checkbox"/>Audio</td> <td><input checked="" type="checkbox"/>Language</td> </tr> <tr> <td></td> <td><input type="checkbox"/>CATV</td> <td><input type="checkbox"/>Pin Code Registration</td> <td><input checked="" type="checkbox"/>V-Chip</td> </tr> <tr> <td>Control Level</td> <td><input checked="" type="checkbox"/>Sound</td> <td><input checked="" type="checkbox"/>Brightness</td> <td><input checked="" type="checkbox"/>Contrast</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/>Color</td> <td><input checked="" type="checkbox"/>Tint(NTSC Only)</td> <td><input checked="" type="checkbox"/>Sharpness</td> </tr> <tr> <td></td> <td><input type="checkbox"/>Tuning</td> <td><input checked="" type="checkbox"/>Bass</td> <td><input checked="" type="checkbox"/>Treble</td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/>Balance</td> <td><input type="checkbox"/>Back Light</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/>Stereo,Audio Output,Bilingual</td> <td><input type="checkbox"/>Picture Menu</td> <td></td> </tr> <tr> <td></td> <td><input checked="" type="checkbox"/>Stereo,Audio Output, SAP</td> <td><input type="checkbox"/>Mid Night Theater</td> <td></td> </tr> <tr> <td></td> <td><input type="checkbox"/>Stereo,Audio Output</td> <td><input type="checkbox"/>GAME</td> <td></td> </tr> <tr> <td>AV</td> <td><input checked="" type="checkbox"/>Channel</td> <td><input type="checkbox"/>Clock</td> <td><input type="checkbox"/>Hotel Lock</td> </tr> <tr> <td>Sleep Timer</td> <td><input checked="" type="checkbox"/>Sound Mute</td> <td><input type="checkbox"/>Pin Code</td> <td></td> </tr> </table>						On Screen Display	<input checked="" type="checkbox"/> Clock Set(<input type="checkbox"/> 12H <input type="checkbox"/> 24H)	<input type="checkbox"/> System Selec	<input type="checkbox"/> On/Off Timer		<input type="checkbox"/> Hotel Lock	<input type="checkbox"/> Area Code	<input checked="" type="checkbox"/> CH Tuning		<input type="checkbox"/> Sound 1/2	<input type="checkbox"/> NICAM Auto Off	<input checked="" type="checkbox"/> Picture		<input type="checkbox"/> Guide CH Set	<input checked="" type="checkbox"/> Audio	<input checked="" type="checkbox"/> Language		<input type="checkbox"/> CATV	<input type="checkbox"/> Pin Code Registration	<input checked="" type="checkbox"/> V-Chip	Control Level	<input checked="" type="checkbox"/> Sound	<input checked="" type="checkbox"/> Brightness	<input checked="" type="checkbox"/> Contrast		<input checked="" type="checkbox"/> Color	<input checked="" type="checkbox"/> Tint(NTSC Only)	<input checked="" type="checkbox"/> Sharpness		<input type="checkbox"/> Tuning	<input checked="" type="checkbox"/> Bass	<input checked="" type="checkbox"/> Treble		<input checked="" type="checkbox"/> Balance	<input type="checkbox"/> Back Light			<input type="checkbox"/> Stereo,Audio Output,Bilingual	<input type="checkbox"/> Picture Menu			<input checked="" type="checkbox"/> Stereo,Audio Output, SAP	<input type="checkbox"/> Mid Night Theater			<input type="checkbox"/> Stereo,Audio Output	<input type="checkbox"/> GAME		AV	<input checked="" type="checkbox"/> Channel	<input type="checkbox"/> Clock	<input type="checkbox"/> Hotel Lock	Sleep Timer	<input checked="" type="checkbox"/> Sound Mute	<input type="checkbox"/> Pin Code	
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GENERAL SPECIFICATIONS

G-26.OSD Language

Eng Ger Fre Spa Ita Por Jpn

OSD Language Setting

Eng Ger Fre Spa Ita Por Jpn
Not Applicable

G-27.Speaker

Position	<input checked="" type="checkbox"/> Front	<input type="checkbox"/> Side	<input type="checkbox"/> Bottom
Size	<u>1.5 x 2.7</u> inches		
Imp.	<u>8</u>	ohm x	<u>2</u> pcs
Power	Max	<u>2.5 + 2.5</u> W	
	10%	<u>2.0 + 2.0</u> W (Typical)	

G-28.EXT Speaker

Yes -- W Imp -- ohm

G-29.Carton

Master Carton: Need No Need
 Content: ----- Set
 Material: ----- / ----- Corrugated Carton
 Dimensions: ----- mm(W) ----- mm(D) ----- mm(H)
 Description of Origin Yes No

Gift Box

Material AB Double/Brown Corrugated Carton (with Photo Label)
AB Double/White Corrugated Carton (with Photo Label)
AB Double Full Color Carton W/Photo

Dimensions: 689 mm(W) 577 mm(D) 620 mm(H)

Design: As Per BUYER's

Description of Origin: Yes No

Drop Test Natural Dropping At 1 Corner / 3 Edges / 6 Surfaces

Height 25cm 31cm 46cm 62cm 80cm

Container Stuffing: 204 Sets / 40' container

G-30.Accessories

- | | |
|---|---|
| <input checked="" type="checkbox"/> Owner's Manual (<input checked="" type="checkbox"/> W/Guarantee Card) [English/French] | |
| <input type="checkbox"/> AC Plug Adapter | <input type="checkbox"/> Channel Film |
| <input type="checkbox"/> Battery (UM- <u> </u> x <u> </u>) | <input checked="" type="checkbox"/> Remote Control Unit |
| <input type="checkbox"/> Safety Tip | <input type="checkbox"/> Toll Free Insert Sheet |
| <input type="checkbox"/> Guarantee Card <input type="checkbox"/> Audio-Video Cord (RCA) | |
| <input type="checkbox"/> Registration Card | <input type="checkbox"/> Warning Sheet |
| <input type="checkbox"/> Quick Set-Up Sheet | <input type="checkbox"/> Schematic Diagram |
| <input type="checkbox"/> Information Sheet | <input type="checkbox"/> U/V Mixer |
| <input type="checkbox"/> 75 ohm Coaxial Cable (<input type="checkbox"/> Single Shield | <input type="checkbox"/> Double Shield) |
| <input type="checkbox"/> 300 ohm to 75 ohm VHF Antenna Adaptor | |
| <input type="checkbox"/> 21pin Cable | <input type="checkbox"/> Car Cord |
| <input type="checkbox"/> Rod Antenna | |
| <input type="checkbox"/> One Pole | <input type="checkbox"/> Two Pole (<input type="checkbox"/> F-Type |
| <input type="checkbox"/> Loop Antenna | (<input type="checkbox"/> F-Type |
| | <input type="checkbox"/> Din Type <input type="checkbox"/> France Type) |
| | <input type="checkbox"/> Din Type <input type="checkbox"/> France Type) |

GENERAL SPECIFICATIONS

G-31.Other Features

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Auto Degauss | <input type="checkbox"/> Auto Search | <input type="checkbox"/> Full OSD |
| <input checked="" type="checkbox"/> Auto Shut Off | <input type="checkbox"/> CH Allocation | <input type="checkbox"/> Premiere |
| <input type="checkbox"/> Canal+ | <input checked="" type="checkbox"/> SAP | <input type="checkbox"/> Comb Filter |
| <input checked="" type="checkbox"/> CATV(181CH) | <input type="checkbox"/> Channel Lock | <input checked="" type="checkbox"/> Auto CH Memory |
| <input type="checkbox"/> Anti-Theft | <input type="checkbox"/> Just Clock Function | <input type="checkbox"/> Hotel Lock |
| <input type="checkbox"/> Rental | <input type="checkbox"/> Game Position | <input type="checkbox"/> Fastext |
| <input type="checkbox"/> Unitext | <input type="checkbox"/> TopText | <input checked="" type="checkbox"/> Closed Caption |
| <input type="checkbox"/> Picture Menu | <input type="checkbox"/> Mid Night Theater | <input checked="" type="checkbox"/> V-Chip |

G-32.Switch

Front

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Power(Tact) | <input checked="" type="checkbox"/> Channel Up/Reset | <input type="checkbox"/> Volume Up/Set Up |
| <input type="checkbox"/> System Select | <input checked="" type="checkbox"/> Channel Down/Enter | <input checked="" type="checkbox"/> Volume Down/Set Down |
| <input type="checkbox"/> Main Power SW | <input type="checkbox"/> Sub Power | <input checked="" type="checkbox"/> Menu.Vol UP + Vol Down |

Rear

- | | |
|----------------------------------|---|
| <input type="checkbox"/> AC/DC | <input type="checkbox"/> TV/CATV Selector |
| <input type="checkbox"/> Degauss | <input type="checkbox"/> Main Power SW |

G-33.Magnetic Field

- | | | |
|---|--------------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> BV : +0.45G | <input type="checkbox"/> BV : +0.35G | <input type="checkbox"/> BV : +0.25G |
| BH : 0.18G | BH : 0.30G | BH : 0.30G |
| <input type="checkbox"/> BV : -0.15G | <input type="checkbox"/> BV : -0.25G | <input type="checkbox"/> BV : -0.50G |
| BH : 0.15G | BH : 0.15G | BH : 0.30G |

GENERAL SPECIFICATIONS

G-34.Remote Control Unit:

Power Source:

Total 28 Key

<input checked="" type="checkbox"/> Power	<input checked="" type="checkbox"/> Quick View	<input checked="" type="checkbox"/> TV/AV
<input type="checkbox"/> Stand By	<input type="checkbox"/> Status	<input type="checkbox"/> Bar Select
<input checked="" type="checkbox"/> 0	<input type="checkbox"/> Time Select	<input type="checkbox"/> PAL/SECAM
<input checked="" type="checkbox"/> 1	<input type="checkbox"/> Time Set	<input checked="" type="checkbox"/> Volume Up
<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> Muting	<input checked="" type="checkbox"/> Volume Down
<input checked="" type="checkbox"/> 3	<input type="checkbox"/> CH Skip	<input type="checkbox"/> CH Call
<input checked="" type="checkbox"/> 4	<input checked="" type="checkbox"/> CH1/CH2	<input checked="" type="checkbox"/> CH Down
<input checked="" type="checkbox"/> 5	<input type="checkbox"/> Channel	<input checked="" type="checkbox"/> CH Up
<input checked="" type="checkbox"/> 6	<input type="checkbox"/> Text/Mix/TV	<input type="checkbox"/> CH Down/Page Down
<input checked="" type="checkbox"/> 7	<input type="checkbox"/> Display Cancel	<input type="checkbox"/> CH Up/Page Up
<input checked="" type="checkbox"/> 8	<input type="checkbox"/> Initial	<input type="checkbox"/> Page +/-
<input checked="" type="checkbox"/> 9	<input type="checkbox"/> Store	<input type="checkbox"/> Program
<input type="checkbox"/> 10	<input type="checkbox"/> Reveal	<input type="checkbox"/> F/T/B
<input type="checkbox"/> 11	<input checked="" type="checkbox"/> Sleep	<input type="checkbox"/> Hold
<input type="checkbox"/> 12	<input type="checkbox"/> Aft/Skip	<input type="checkbox"/> List
<input type="checkbox"/> 1	<input type="checkbox"/> Preset	<input type="checkbox"/> Rotate
<input type="checkbox"/> 2	<input type="checkbox"/> 5.5/6.5MHz	<input type="checkbox"/> Browse
<input type="checkbox"/> 0/10	<input type="checkbox"/> Auto Memory	<input type="checkbox"/> Std/Auto
<input type="checkbox"/> Tone 1/2	<input type="checkbox"/> Auto	<input type="checkbox"/> Memory
<input type="checkbox"/> Info	<input checked="" type="checkbox"/> Call	<input type="checkbox"/> Band Select
<input type="checkbox"/> Mono/Auto	<input checked="" type="checkbox"/> Reset	<input type="checkbox"/> Search
<input checked="" type="checkbox"/> TV/Caption/Text	<input checked="" type="checkbox"/> Menu	<input type="checkbox"/> Clock/Program
<input type="checkbox"/> Expand	<input checked="" type="checkbox"/> Enter	<input type="checkbox"/> Clock/Set
<input type="checkbox"/> Red	<input type="checkbox"/> Add	<input type="checkbox"/> Ch Set
<input type="checkbox"/> Cyan	<input type="checkbox"/> Delete	<input checked="" type="checkbox"/> Set +
<input type="checkbox"/> Normal	<input type="checkbox"/> Yellow	<input checked="" type="checkbox"/> Set -
<input type="checkbox"/> Color System	<input type="checkbox"/> Random	<input type="checkbox"/> Green
<input type="checkbox"/> Wide Selec	<input type="checkbox"/> Tuning Up/Time Text	<input type="checkbox"/> Nicam/Mono
<input type="checkbox"/> Auto Wide On/Off	<input type="checkbox"/> Tuning Down/Reset	<input type="checkbox"/> Tone A/B
<input type="checkbox"/> Picture Position	<input type="checkbox"/> Navi	<input type="checkbox"/> FM Transmitter
<input type="checkbox"/> Direct Change/Auto Search	<input type="checkbox"/> Back Light	
<input type="checkbox"/> Picture Menu	<input type="checkbox"/> Mid Night Theater	<input checked="" type="checkbox"/> Audio Select

DISASSEMBLY INSTRUCTIONS

1. REMOVAL OF ANODE CAP

Read the following **NOTED** items before starting work.

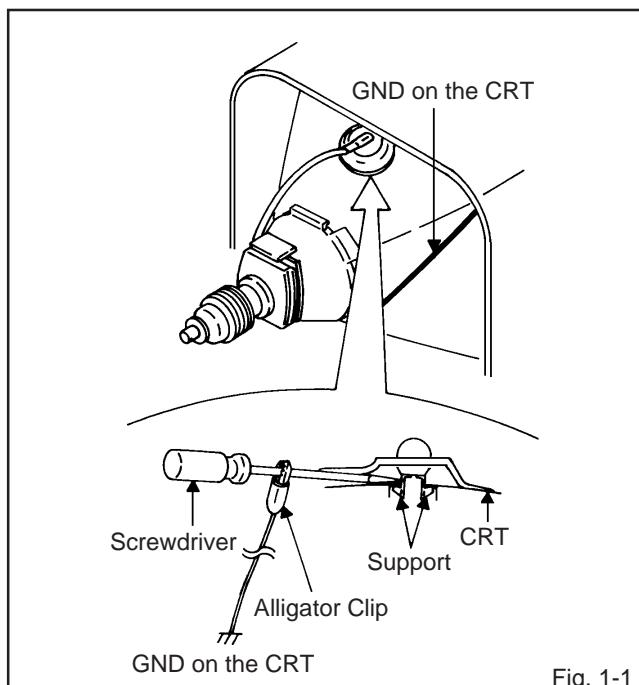
- * After turning the power off there might still be a potential voltage that is very dangerous. When removing the Anode Cap, make sure to discharge the Anode Cap's potential voltage.
- * Do not use pliers to loosen or tighten the Anode Cap terminal, this may cause the spring to be damaged.

REMOVAL

1. Follow the steps as follows to discharge the Anode Cap. **(Refer to Fig. 1-1.)**

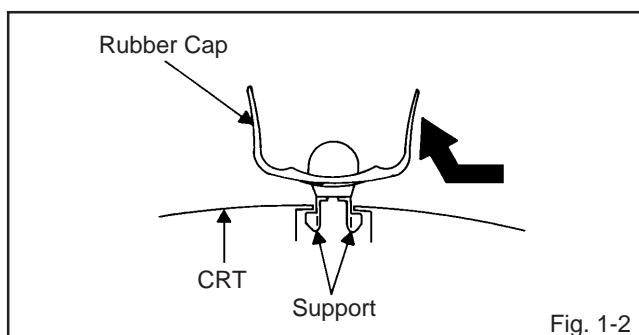
Connect one end of an Alligator Clip to the metal part of a flat-blade screwdriver and the other end to ground. While holding the plastic part of the insulated Screwdriver, touch the support of the Anode with the tip of the Screwdriver.

A cracking noise will be heard as the voltage is discharged.



2. Flip up the sides of the Rubber Cap in the direction of the arrow and remove one side of the support.

(Refer to Fig. 1-2.)



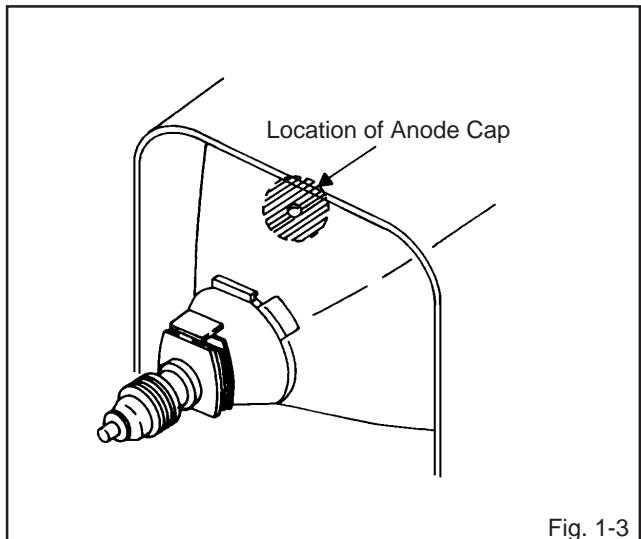
3. After one side is removed, pull in the opposite direction to remove the other.

NOTE

Take care not to damage the Rubber Cap.

INSTALLATION

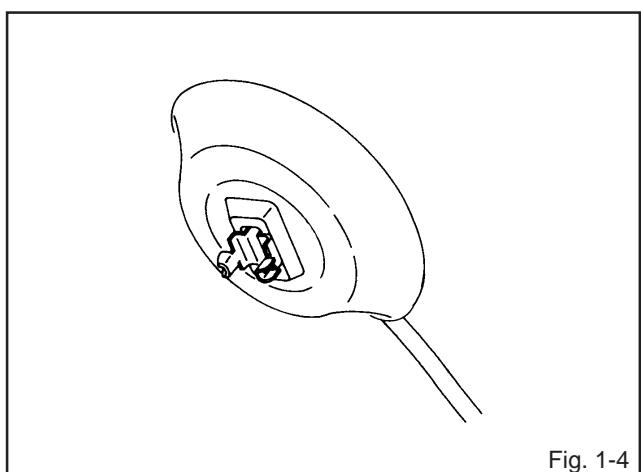
1. Clean the spot where the cap was located with a small amount of alcohol. **(Refer to Fig. 1-3.)**



NOTE

Confirm that there is no dirt, dust, etc. at the spot where the cap was located.

2. Arrange the wire of the Anode Cap and make sure the wire is not twisted.
3. Turn over the Rubber Cap. **(Refer to Fig. 1-4.)**



DISASSEMBLY INSTRUCTIONS

4. Insert one end of the Anode Support into the anode button, then the other as shown in **Fig. 1-5**.

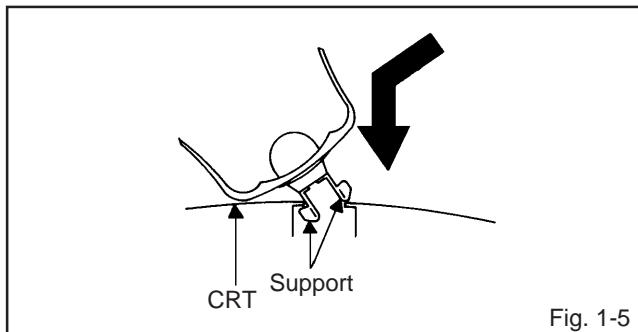


Fig. 1-5

5. Confirm that the Support is securely connected.
6. Put on the Rubber Cap without moving any parts.

2. REMOVAL OF DEFLECTION YOKE

(Refer to Fig. 2-1)

1. Loosen the screw ①.
2. Remove the Convergence • Purity Magnet in the direction of arrow (A).
3. Loosen the screw ②.
4. Remove the 3 Wedges.
5. Remove the Deflection Yoke in the direction of arrow (B).

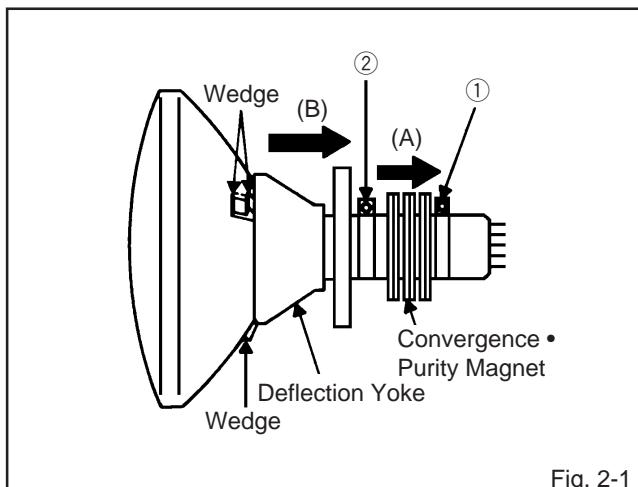


Fig. 2-1

INSTALLATION

Install new Deflection Yoke in reverse steps of REMOVAL.

NOTE

After adjusting the purity and the convergence, fix the screw ② and lock the wedges.

SERVICE MODE LIST

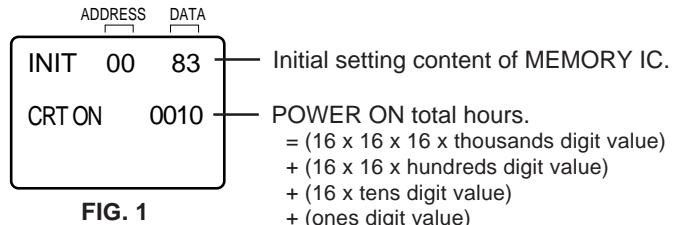
This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.
To enter the Service Mode, press both set key and remote control key for more than 2 seconds.

Set Key	Remocon Key	Operations
VOL. (-) MIN	0	Releasing of V-CHIP PASSWORD.
VOL. (-) MIN	1	Initialization of the factory. NOTE: Do not use this for the normal servicing.
VOL. (-) MIN	6	POWER ON total hours is displayed on the screen. Refer to the "CONFIRMATION OF USING HOURS". Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "NOTE FOR THE REPLACING OF MEMORY IC".
VOL. (-) MIN	8	Writing of EEPROM initial data. NOTE: Do not use this for the normal servicing.
VOL. (-) MIN	9	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).

CONFIRMATION OF USING HOURS

POWER ON total hours can be checked on the screen. Total hours are displayed in 16 system of notation.

1. Set the VOLUME to minimum.
2. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds.
3. After the confirmation of using hours, turn off the power.



NOTE FOR THE REPLACING OF MEMORY IC

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to TABLE 1.

NOTE: No need the setting for after INI 09.

ADDRESS	INI 00	INI 01	INI 02	INI 03	INI 04	INI 05	INI 06	INI 07	INI 08	INI 09
DATA	88	2C	80	00	00	00	00	1B	07	04

Table 1

1. Enter DATA SET mode by setting VOLUME to minimum.
2. Press both VOL. DOWN button on the set and Channel button **(6)** on the remote control for more than 2 seconds.
3. ADDRESS and DATA should appear as FIG 1.
4. ADDRESS is now selected and should "blink". Using the SET + or - keys on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
5. Press ENTER to select DATA. When DATA is selected, it will "blink".
6. Again, step through the DATA using SET + or - until required DATA value has been selected.
7. Pressing ENTER will take you back to ADDRESS for further selection if necessary.
8. Repeat steps 4 to 7 until all data has been checked.
9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.
The unit will now have the correct DATA for the new MEMORY IC.

ELECTRICAL ADJUSTMENTS

1. BEFORE MAKING ELECTRICAL ADJUSTMENTS

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

CAUTION

- Use an isolation transformer when performing any service on this chassis.
- Before removing the anode cap, discharge electricity because it contains high voltage.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- Inferior silicon grease can damage IC's and transistors.
- When replacing IC's and transistors, use only specified silicon grease (YG6260M).
- Remove all old silicon before applying new silicon.

1-1: Prepare the following measurement tools for electrical adjustments.

1. Synchro Scope
2. Digital Voltmeter

2. BASIC ADJUSTMENTS

On-Screen Display Adjustment

In the condition of NO indication on the screen. Press both VOL. DOWN button on the set and the Channel button (9) on the remote control for more than 2 seconds to appear the adjustment mode on the screen as shown in Fig. 2-1.

NOTE

Use the Channel buttons (1-8) on the remote control to select the options shown in Fig. 2-1.

Press the Channel button (0) on the remote control to end the adjustments.

1. H/V
2. AKB
3. COLOR TEMP
4. PICTURE
5. OTHERS
6. TEST PATTERN
7. STEREO/SAP
8. (VOL TEST)
0. END

Fig. 2-1

2-1: RF AGC DELAY

1. Receive an 80dB monoscope pattern.
2. Connect the digital voltmeter between the **pin 2 of CP101** and the **pin 6 (GND) of CP101**.
3. Activate the adjustment mode display of Fig. 2-1 and press the channel button (5) on the remote control. The Fig. 2-2 appears on the display.
4. Press the channel button (1) on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the digital voltmeter is $2.25 \pm 0.05V$.

1. RF AGC DELAY
2. VIDEO LEVEL
3. FM LEVEL
4. OSD H
5. CUT OFF
6. X-RAY
- 7.
8. 0. RETURN

Fig. 2-2

2-2: CUT OFF

1. Using the remote control, set the brightness and contrast to normal position.
2. Activate the adjustment mode display of Fig. 2-1 and press the channel button (5) on the remote control. The Fig. 2-2 appears on the display.
3. Press the channel button (5) on the remote control.
4. Adjust the **Screen Volume** until a dim raster is obtained.

2-3: WHITE BALANCE

NOTE:

Adjust after performing adjustments in section 2-2.

1. Receive the color bar pattern.
2. Activate the adjustment mode display of Fig. 2-1 and press the channel button (2) on the remote control. The Fig. 2-3 appears on the display.
3. Adjust the adjustment mode display of Fig. 2-3 until the white color is looked like a white.

1. AKB AUTO
2. R. BIAS
3. G. BIAS
4. B. BIAS
5. R. DRIVE
6. G. DRIVE
7. B. DRIVE
8. AGC AUTO
0. RETURN

Fig. 2-3

2-4: SUB BRIGHTNESS (TV)

1. Receive the monoscope pattern. (RF Input)
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of Fig. 2-1 and press the channel button (4) on the remote control. The Fig. 2-4 appears on the display.
4. Press the channel button (1) on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the white 10% is starting to be visible.

1. BRIGHT
2. CONTRAST
3. COLOR
4. TINT
5. SHARPNESS
6. OSD CONT
- 7.
8. 0. RETURN

Fig. 2-4

ELECTRICAL ADJUSTMENTS

2-5: SUB BRIGHTNESS (AV)

1. Receive the monoscope pattern. (Audio Video Input)
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(4)** on the remote control. The **Fig. 2-4** appears on the display.
4. Press the channel button **(1)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the white 10% is starting to be visible.

2-6: SUB TINT/SUB COLOR (TV)

1. Receive the color bar pattern. (RF Input)
2. Connect the synchro scope to **pin 1 of CP101** and the **pin 6 (GND) of CP101**.
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(4)** on the remote control. The **Fig. 2-4** appears on the display.
4. Press the channel button **(4)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the waveform becomes as shown in **Fig. 2-5**.
6. Press the CH DOWN button once to set to "COLOR" mode.
7. Adjust the LEVEL "A" section of Blue to the LEVEL "D" section of White by pressing the VOL. UP/DOWN button on the remote control. (**Refer to Fig. 2-6**)
8. If the LEVEL "A" section through "C" section are not the same compared with "D" section, adjust the LEVEL again.

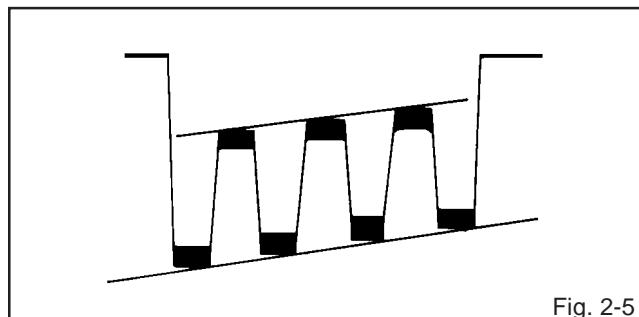


Fig. 2-5

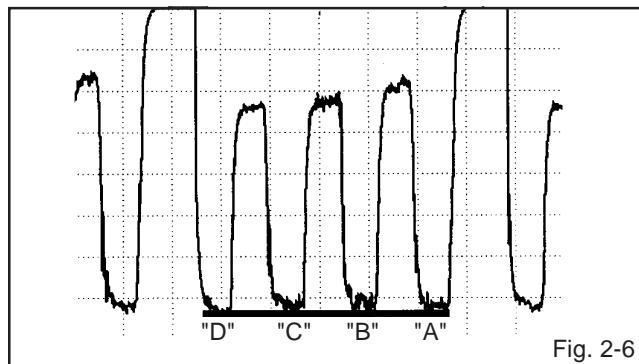


Fig. 2-6

2-7: SUB TINT/SUB COLOR (AV)

1. Receive the color bar pattern. (Audio Video Input)
2. Connect the synchro scope to **pin 1 of CP101** and the **pin 6 (GND) of CP101**.
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(4)** on the remote control. The **Fig. 2-4** appears on the display.
4. Press the channel button **(4)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the waveform becomes as shown in **Fig. 2-5**.
6. Press the CH DOWN button once to set to "COLOR" mode.
7. Adjust the LEVEL "A" section of Blue to the LEVEL "D" section of White by pressing the VOL. UP/DOWN button on the remote control. (**Refer to Fig. 2-6**)
8. If the LEVEL "A" section through "C" section are not the same compared with "D" section, adjust the LEVEL again.

2-8: FOCUS

1. Receive an 80dB monoscope pattern.
2. Adjust the **Focus Volume** until picture is distinct.

2-9: VERTICAL POSITION

1. Receive the color bar pattern.
2. Using the remote control, set the brightness and contrast to normal position.
3. Adjust the **VR401** until the horizontal line of the color bar comes to approximate center of the CRT.

2-10: VERTICAL SIZE

1. Receive the crosshatch pattern.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(1)** on the remote control. The **Fig. 2-7** appears on the display.
4. Press the channel button **(3)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the center of crosshatch is square.

- | | |
|-------------|-----------|
| 1. H. PHASE | 0. RETURN |
| 2. H. BLK | |
| 3. V. SIZE | |
| 4. V. POSI | |
| 5. V. LIN | |
| 6. V. SC | |
| 7. V. COMP | |
| 8. (H FREQ) | |

Fig. 2-7

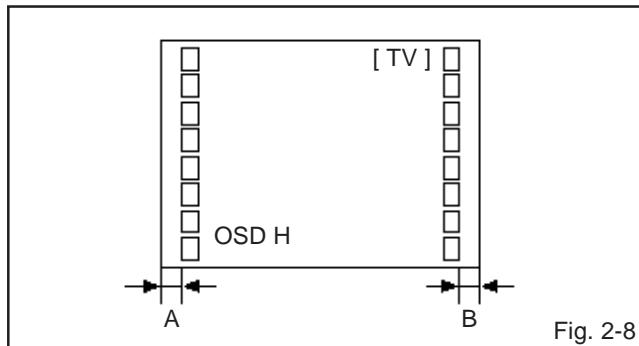
ELECTRICAL ADJUSTMENTS

2-11: HORIZONTAL PHASE

1. Receive the color bar pattern.
2. Using the remote control, set the brightness and contrast to normal position.
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(1)** on the remote control.
The **Fig. 2-7** appears on the display.
4. Press the channel button **(1)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the SHIFT quantity of the OVER SCAN on right and left becomes minimum.

2-12: OSD HORIZONTAL

1. Using the remote control, set the brightness and contrast to normal position.
2. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(5)** on the remote control.
The **Fig. 2-2** appears on the display.
3. Press the channel button **(4)** on the remote control.
4. Press the VOL. UP/DOWN button on the remote control until the difference of A and B becomes minimum.



2-13: VCO FREERUN

1. Receive an 80dB monoscope pattern.
2. Connect the digital voltmeter between the **TP201** and the **Ground**.
3. Adjust the **L205** until the digital voltmeter is $3.1 \pm 0.05V$.

2-14: SEPARATION 1, 2

1. Receive the stereo broadcasting signal.
2. Connect the AC voltmeter to **AUDIO OUT JACK** through stereo filter ($L=400Hz$, $R=2KHz$).
3. Activate the adjustment mode display of **Fig. 2-1** and press the channel button **(7)** on the remote control.
The **Fig. 2-9** appears on the display.
4. Press the channel button **(2)** on the remote control.
5. Press the VOL. UP/DOWN button on the remote control until the output of L-CH and R-CH become minimum.
6. Press the CH UP button once to set to "SEPARATION 2" mode.
7. Press the VOL. UP/DOWN button on the remote control until the output of L-CH and R-CH become minimum.

1. LEVEL ADJ
2. SEPARATION 1
3. SEPARATION 2
- 4.
- 5.
- 6.
- 7.
8. 0. RETURN

Fig. 2-9

2-15: CONSTANT VOLTAGE

1. Using the remote control, set the brightness and contrast to normal position.
2. Connect the digital voltmeter to **TP401**.
3. Set condition is AV MODE without signal.
4. Adjust the **VR502** until the digital voltmeter is $131 \pm 0.5V$.

ELECTRICAL ADJUSTMENTS

3. PURITY AND CONVERGENCE ADJUSTMENTS

NOTE

1. Turn the unit on and let it warm up for at least 30 minutes before performing the following adjustments.
2. Place the CRT surface facing east or west to reduce the terrestrial magnetism.
3. Turn ON the unit and demagnetize with a Degauss Coil.

3-1: STATIC CONVERGENCE (ROUGH ADJUSTMENT)

1. Tighten the screw for the magnet. Refer to the adjusted CRT for the position. (**Refer to Fig. 3-1**)
If the deflection yoke and magnet are in one body, untighten the screw for the body.
2. Receive the green raster pattern from the color bar generator.
3. Slide the deflection yoke until it touches the funnel side of the CRT.
4. Adjust center of screen to green, with red and blue on the sides, using the pair of purity magnets.
5. Switch the color bar generator from the green raster pattern to the crosshatch pattern.
6. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
7. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.
8. Adjust the crosshatch pattern to change to white by repeating steps 6 and 7.

3-2: PURITY

NOTE

Adjust after performing adjustments in section 3-1.

1. Receive the green raster pattern from color bar generator.
2. Adjust the pair of purity magnets to center the color on the screen.
Adjust the pair of purity magnets so the color at the ends are equally wide.
3. Move the deflection yoke backward (to neck side) slowly, and stop it at the position when the whole screen is green.
4. Confirm red and blue colors.
5. Adjust the slant of the deflection yoke while watching the screen, then tighten the fixing screw.

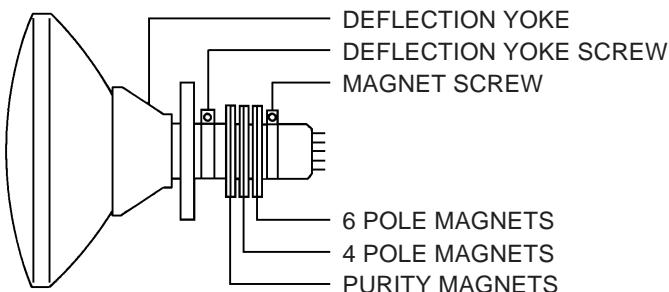


Fig. 3-1

3-3: STATIC CONVERGENCE

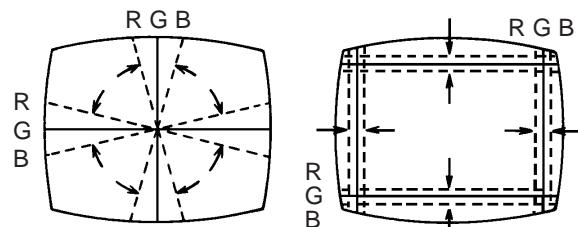
NOTE

- Adjust after performing adjustments in section 3-2.
1. Receive the crosshatch pattern from the color bar generator.
 2. Combine red and blue of the 3 color crosshatch pattern on the center of the screen by adjusting the pair of 4 pole magnets.
 3. Combine red/blue (magenta) and green by adjusting the pair of 6 pole magnets.

3-4: DYNAMIC CONVERGENCE

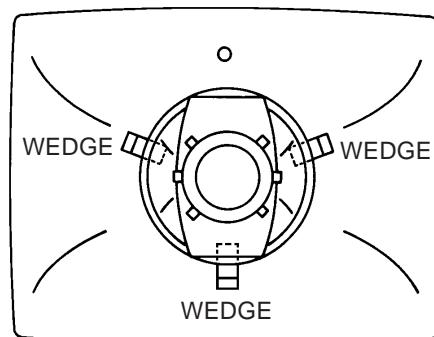
NOTE

- Adjust after performing adjustments in section 3-3.
1. Adjust the differences around the screen by moving the deflection yoke upward/downward and right/left. (**Refer to Fig. 3-2-a**)
 2. Insert three wedges between the deflection yoke and CRT funnel to fix the deflection yoke. (**Refer to Fig. 3-2-b**)



UPWARD/DOWNWARD SLANT RIGHT/LEFT SLANT

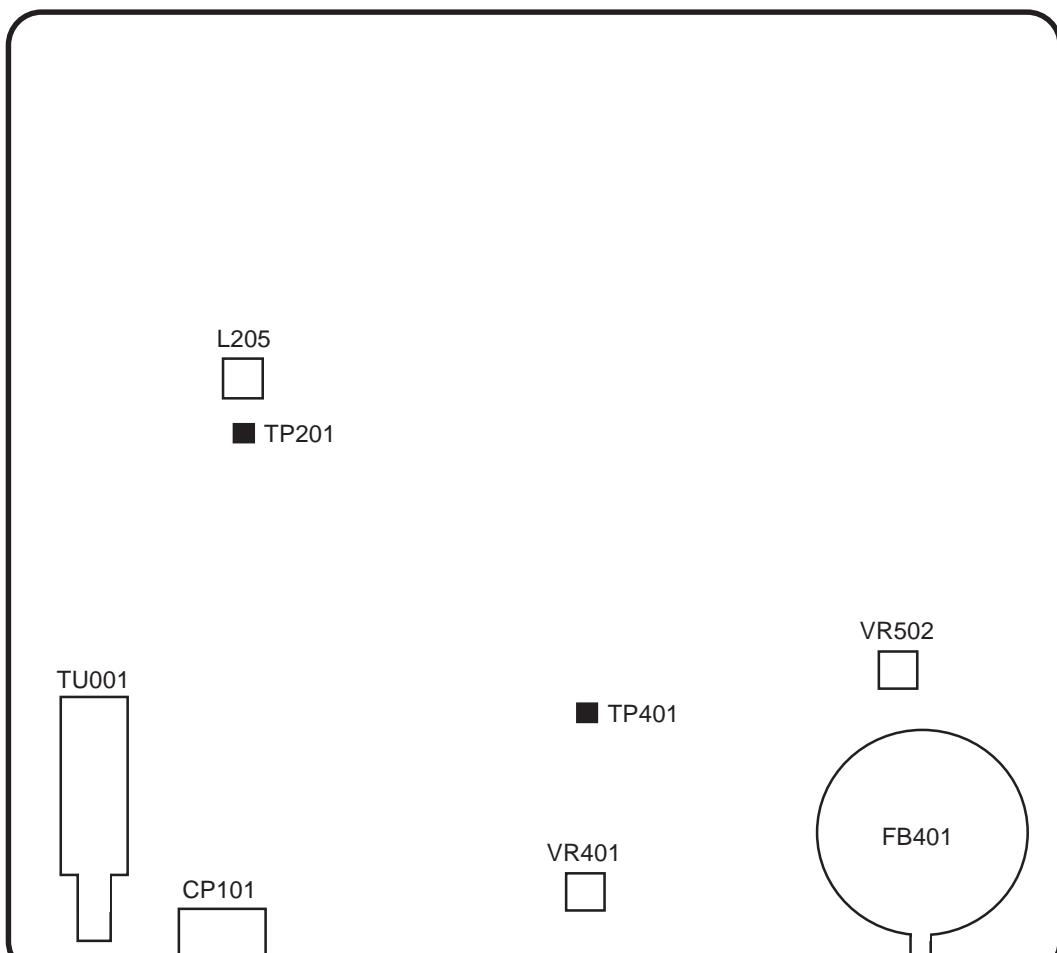
Fig. 3-2-a



WEDGE POSITION

Fig. 3-2-b

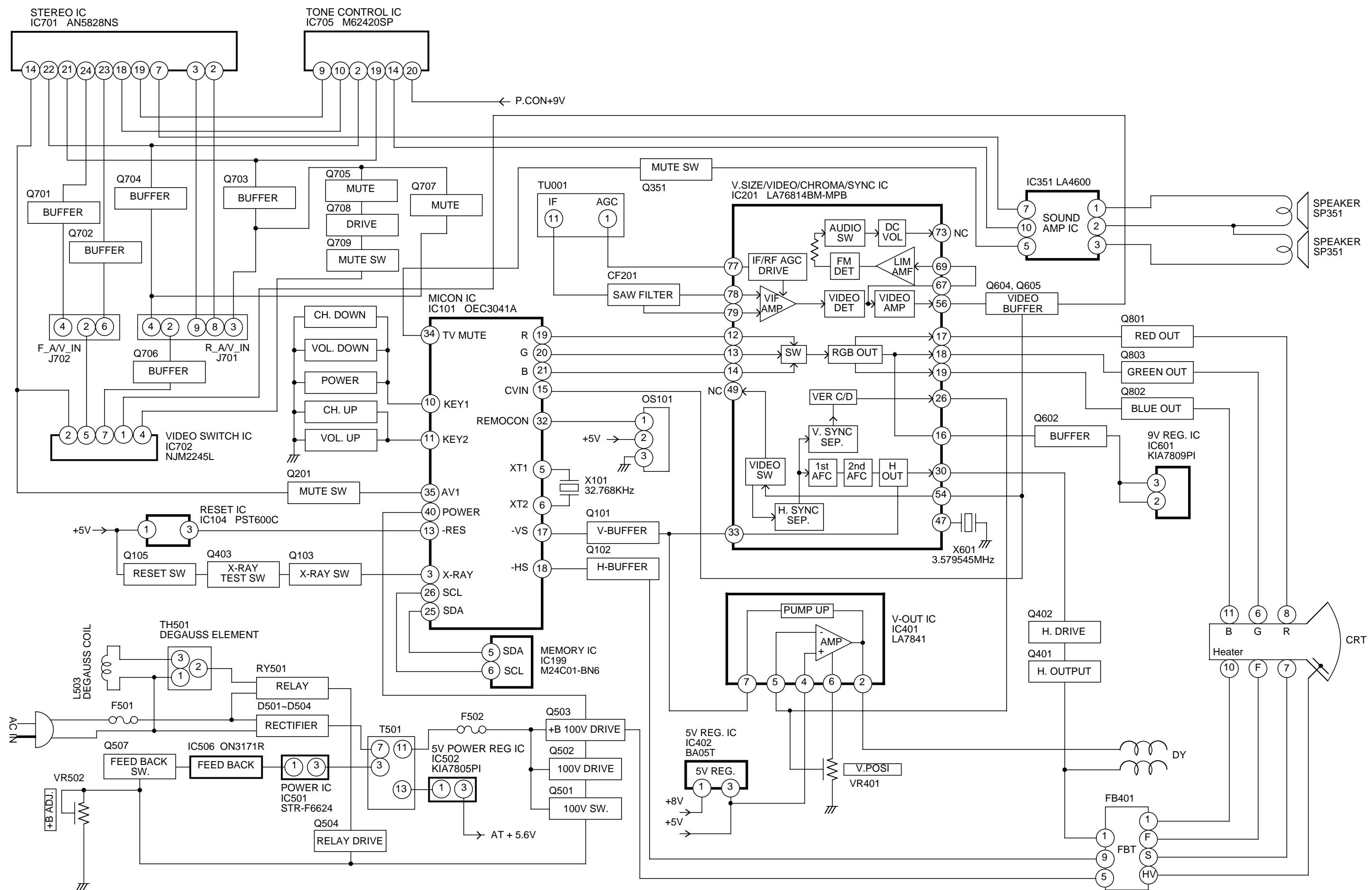
MAJOR COMPONENTS LOCATION GUIDE



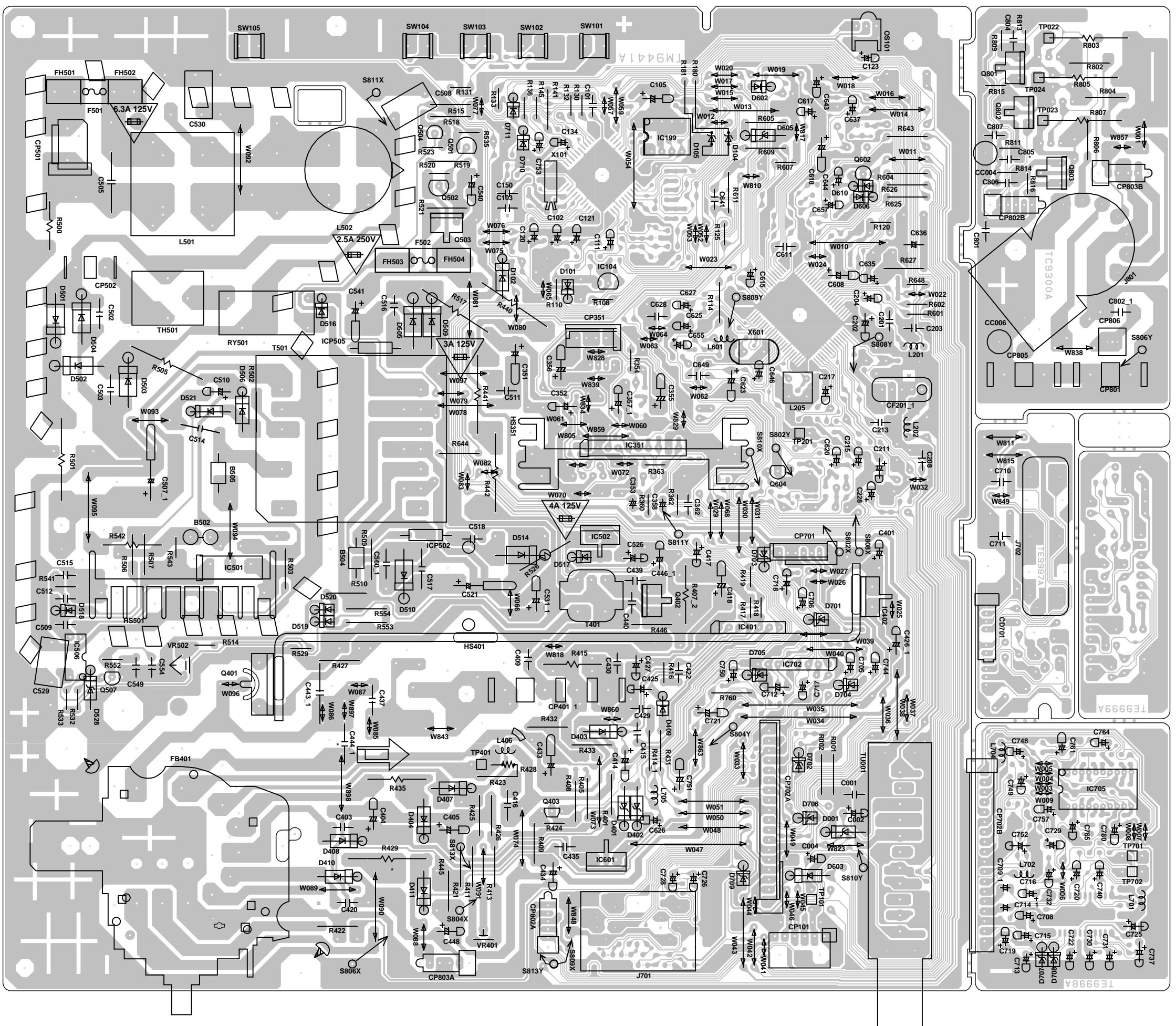
FOCUS VOLUME
SCREEN VOLUME

MAIN

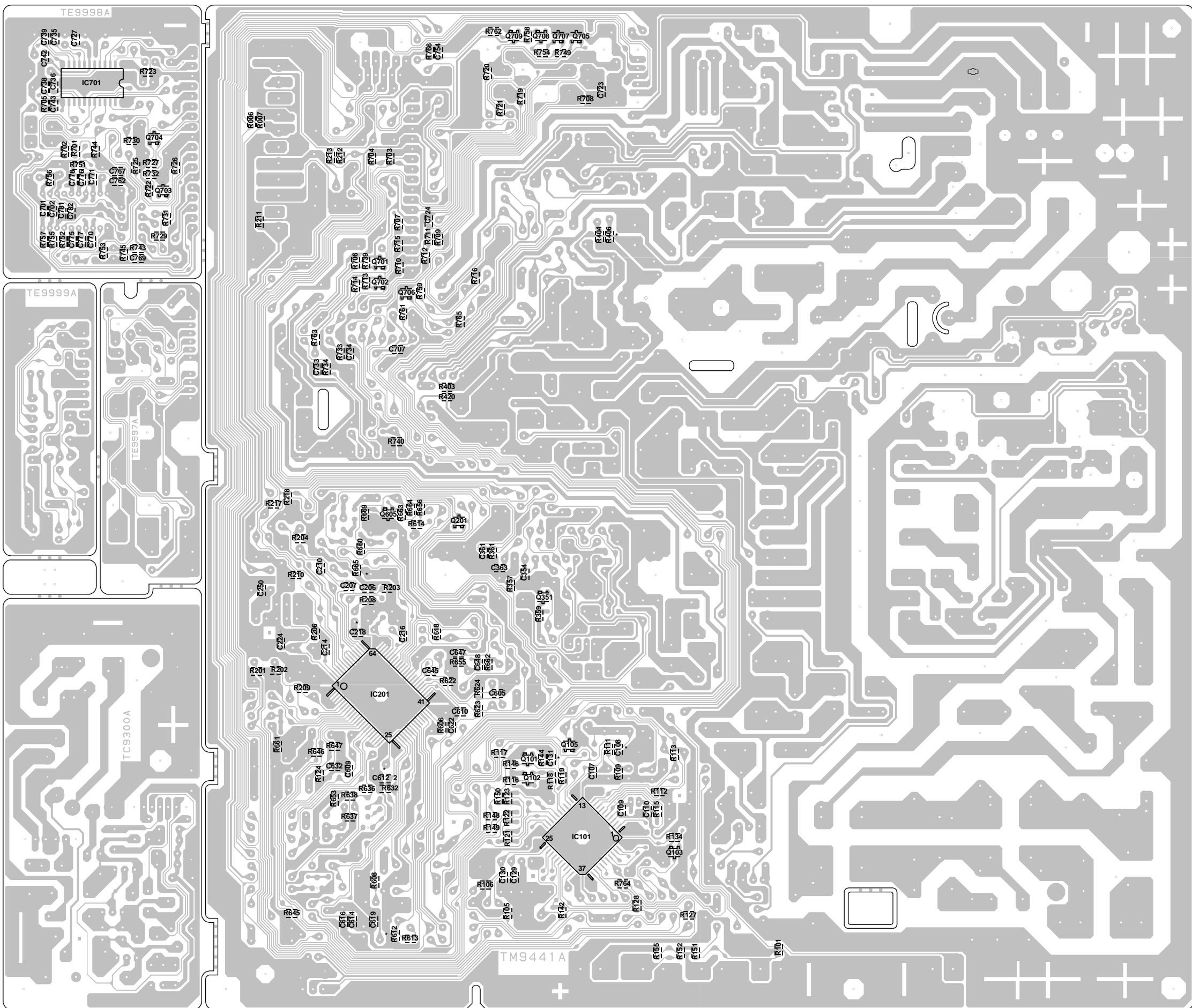
BLOCK DIAGRAM



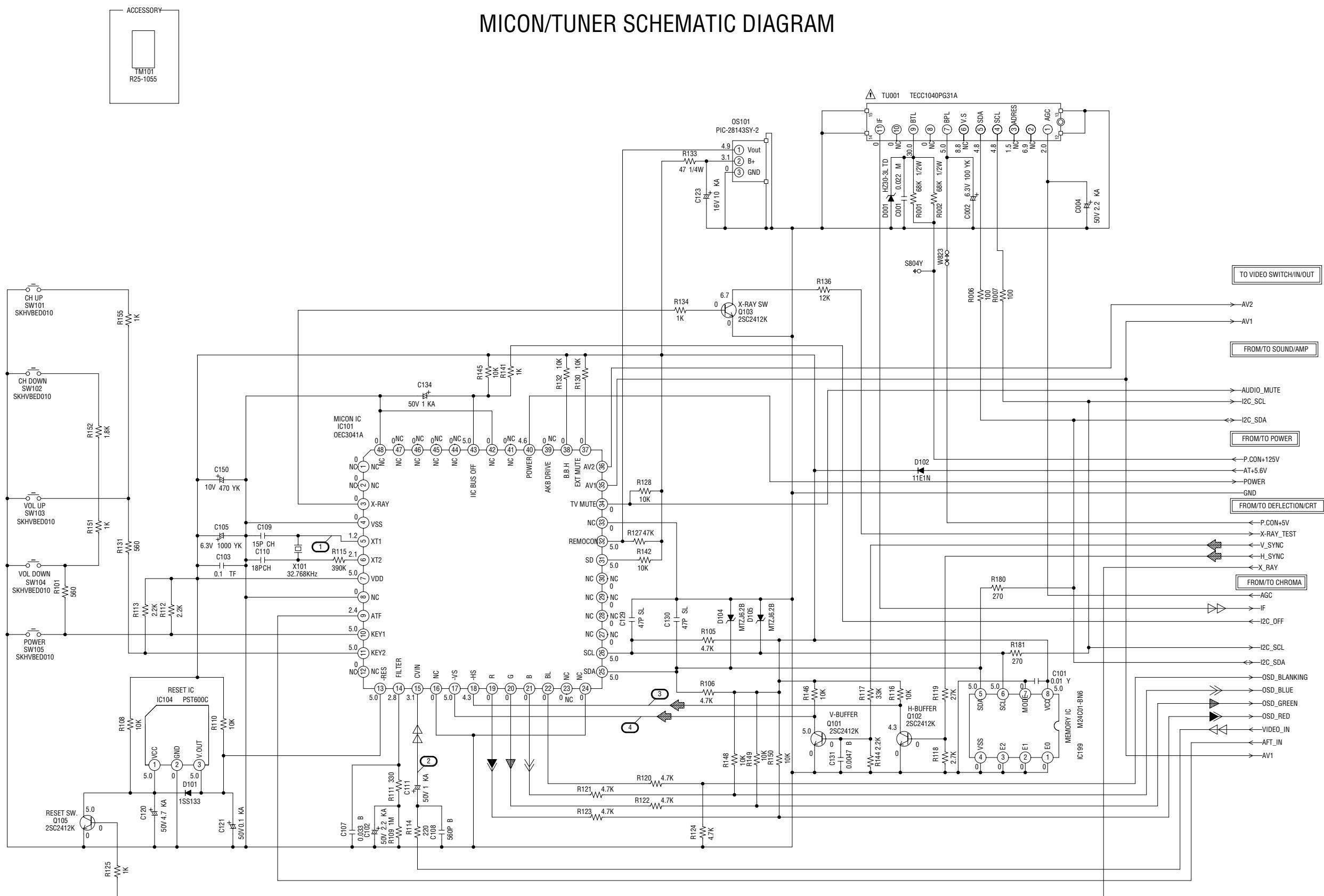
**PRINTED CIRCUIT BOARDS
MAIN/CRT/AV/STEREO (INSERTED PARTS)
SOLDER SIDE**



**PRINTED CIRCUIT BOARDS
MAIN/STEREO (CHIP MOUNTED PARTS)
SOLDER SIDE**



MICON/TUNER SCHEMATIC DIAGRAM



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

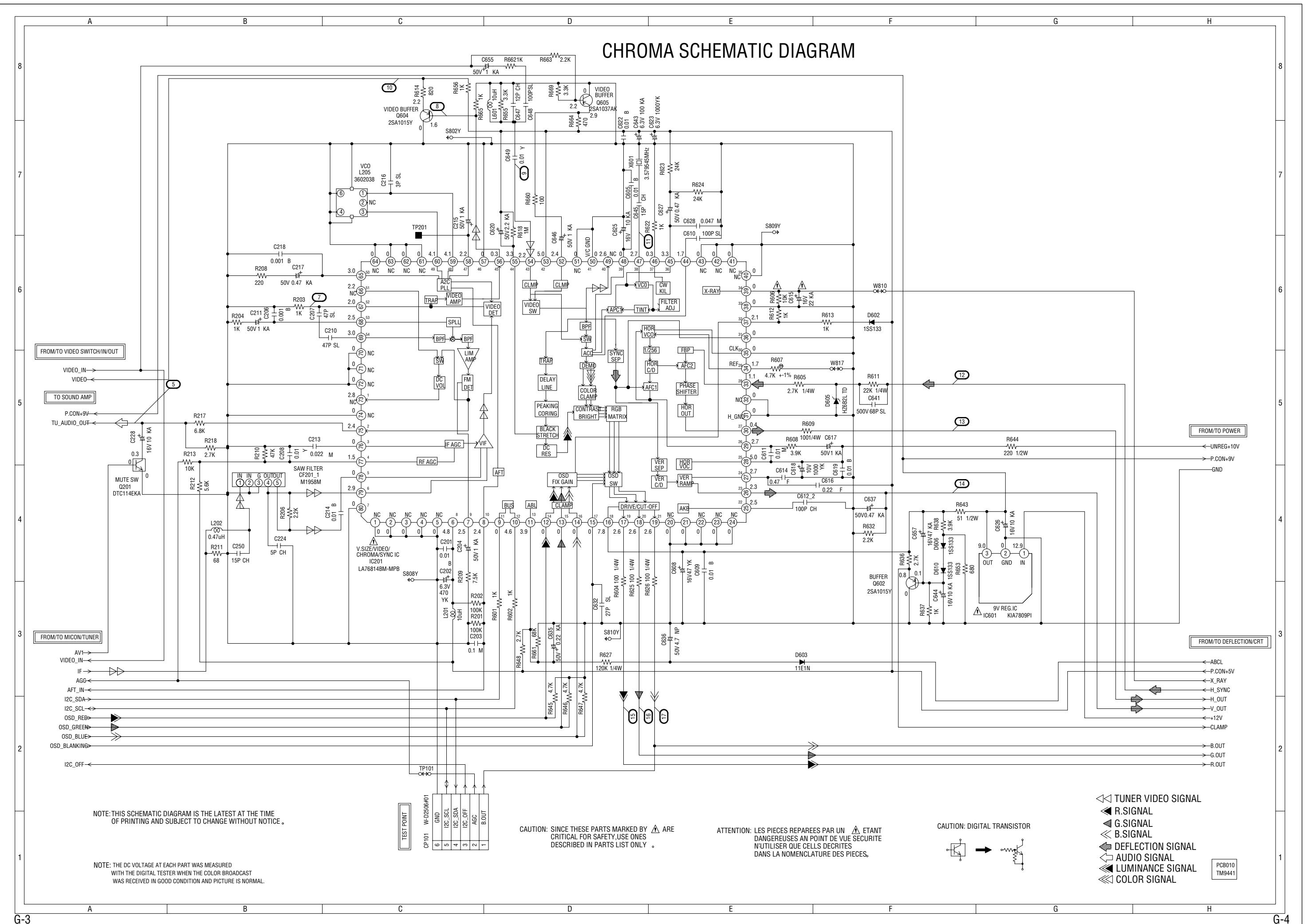
CAUTION: SINCE THESE PARTS MARKED BY \triangle ARE
CRITICAL FOR SAFETY, USE ONES
DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPEREES PAR UN \triangle ETANT
DANGEREUSES AU POINT DE VUE SECURITE
N'UTILISER QUE CELLES DÉCRITES
DANS LA NOMENCLATURE DES PIÈCES.

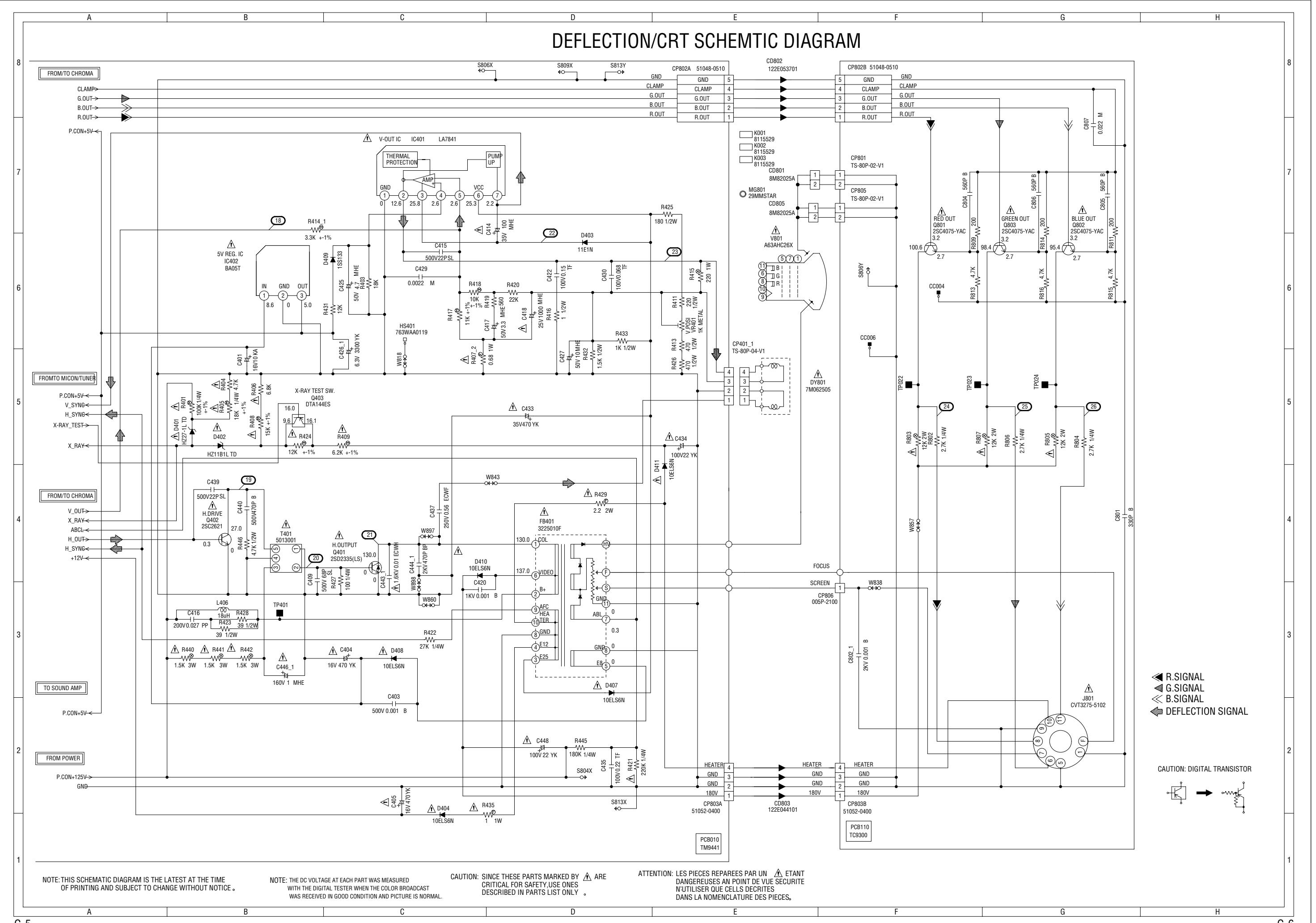
\triangleleft TUNER VIDEO SIGNAL
 \blacktriangleleft R.SIGNAL
 \blacktriangleright G.SIGNAL
 \blacktriangleleft B.SIGNAL
 \blacktriangleleft DEFLECTION SIGNAL

PCB010
TM9441

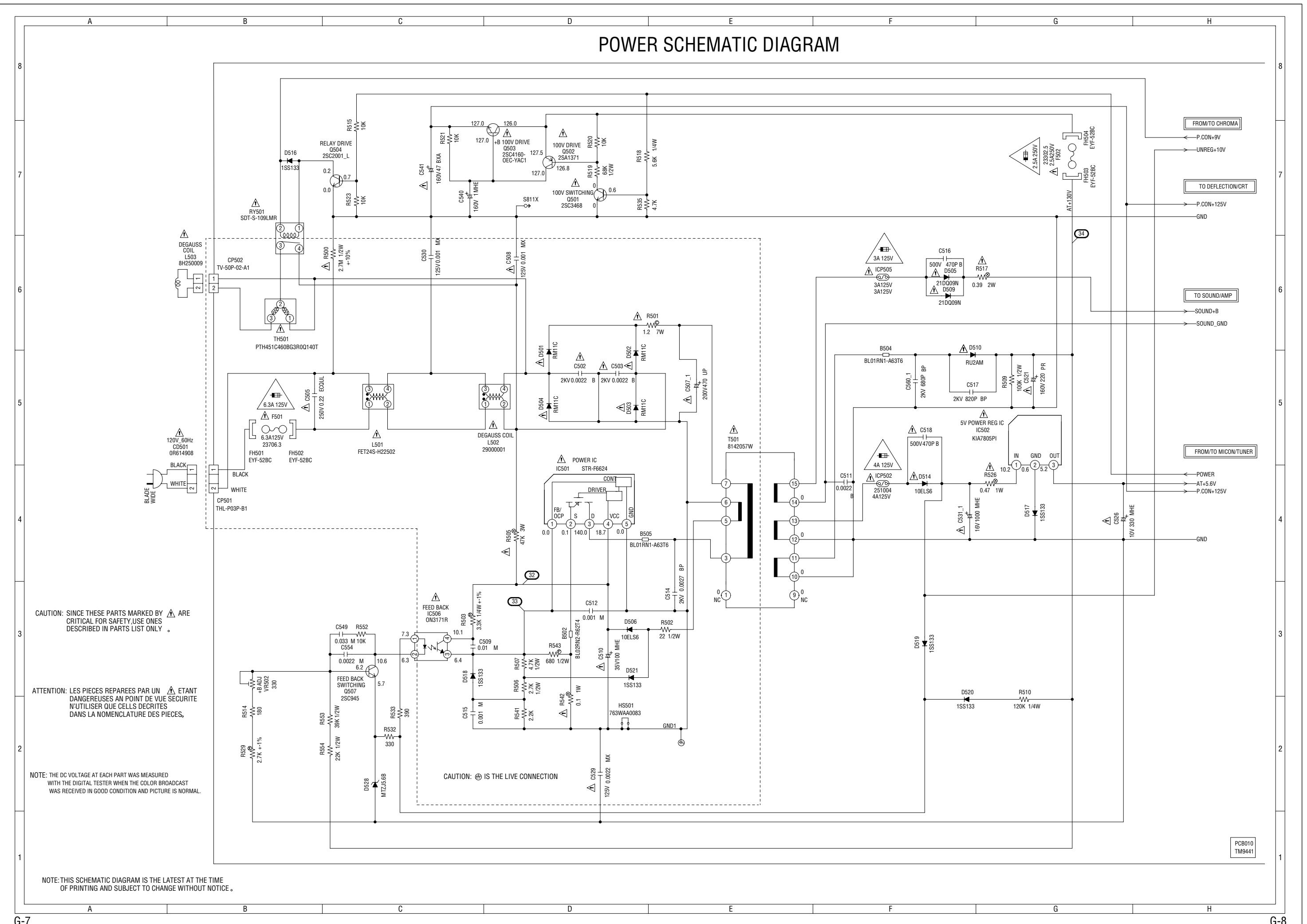
CHROMA SCHEMATIC DIAGRAM



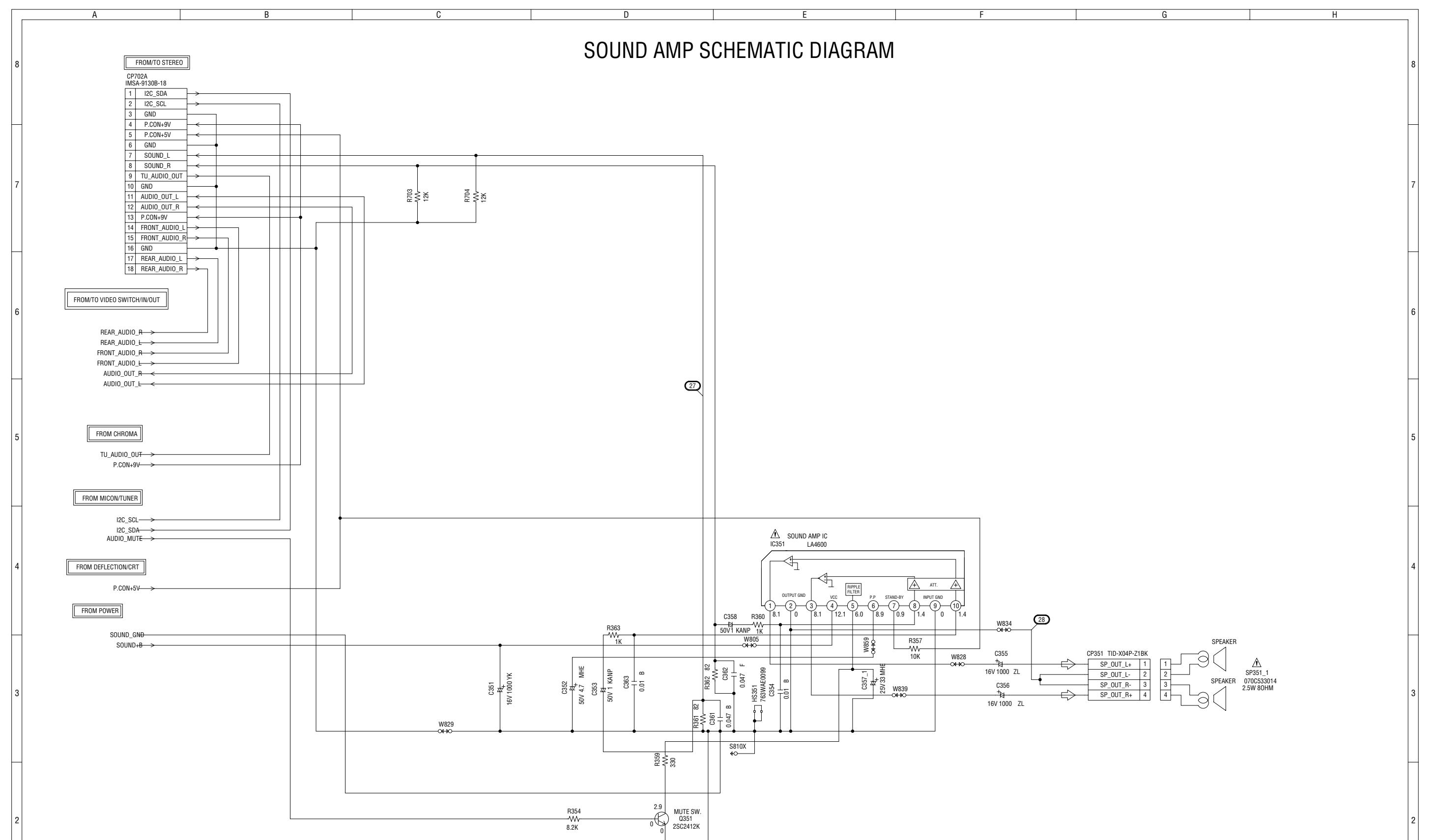
DEFLECTION/CRT SCHEMATIC DIAGRAM



POWER SCHEMATIC DIAGRAM



SOUND AMP SCHEMATIC DIAGRAM



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORM

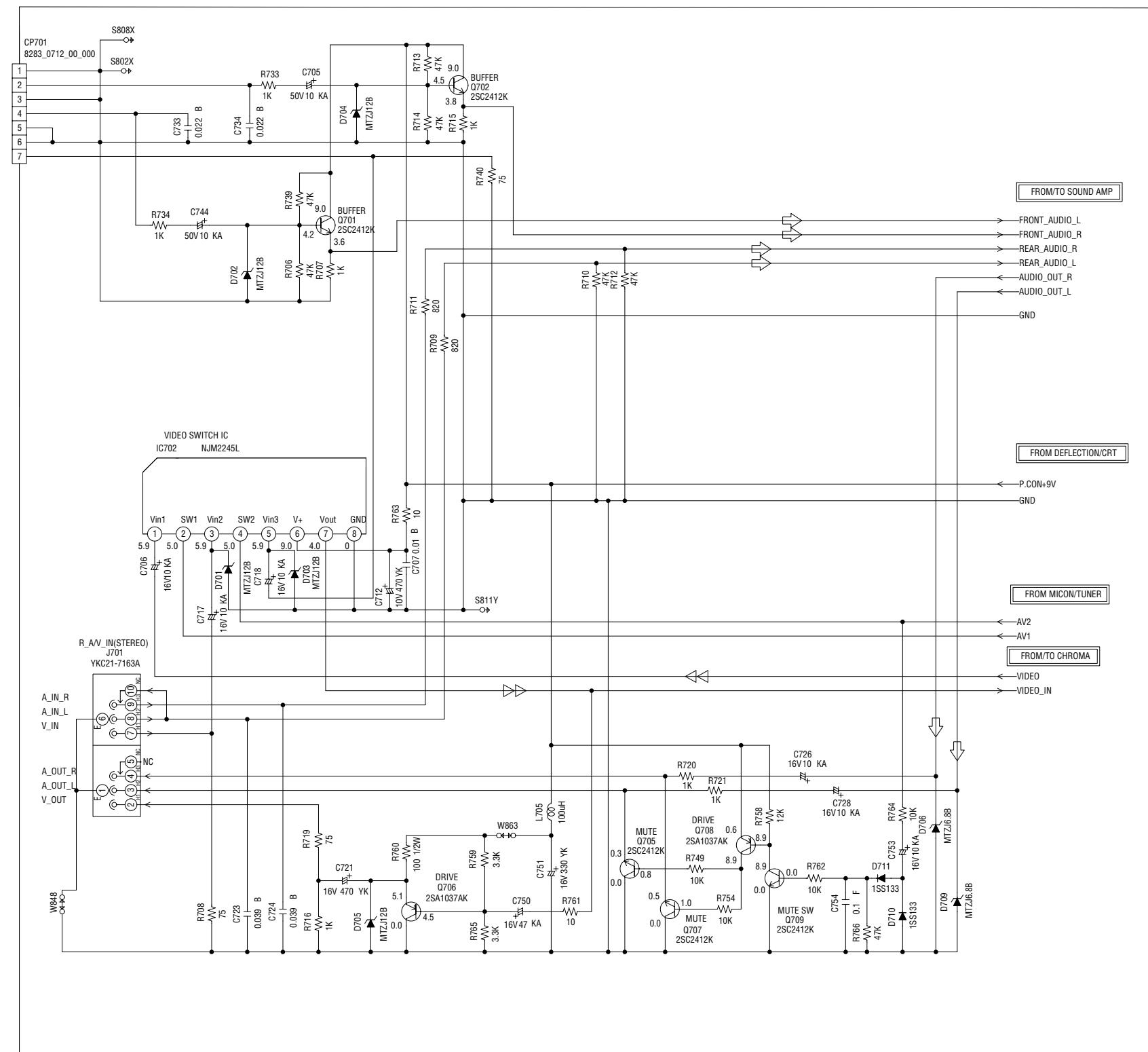
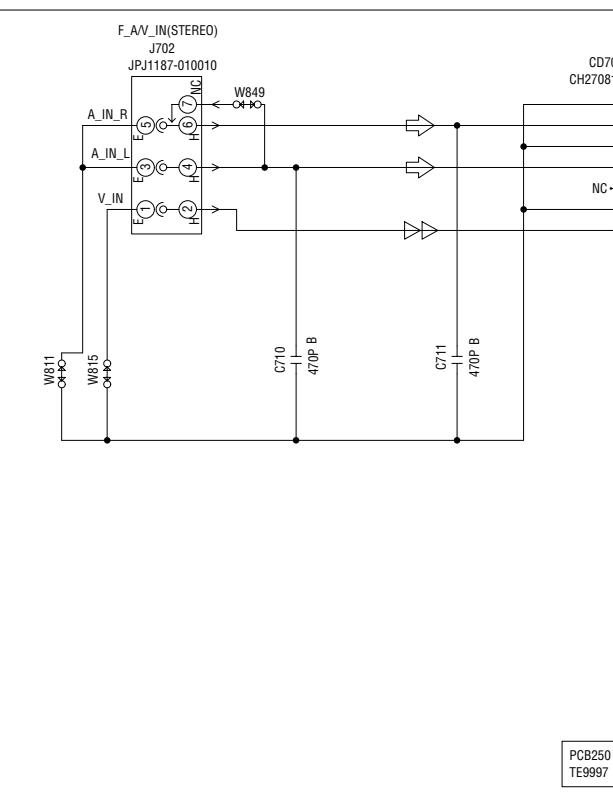
CAUTION: SINCE THESE PARTS MARKED BY  ARE CRITICAL FOR SAFETY, USE ONES DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LES PIECES REPARÉES PAR UN ETANT DANGEREUSES AU POINT DE VUE SÉCURITÉ, NE PAS UTILISER QUE CELLES DÉCRITES DANS LA NORME CI-ATTEINDE DES PIÈCES.

← AUDIO SIGNAL

PCB010
TM9441

VIDEO SWITCH/IN/OUT SCHEMATIC DIAGRAM



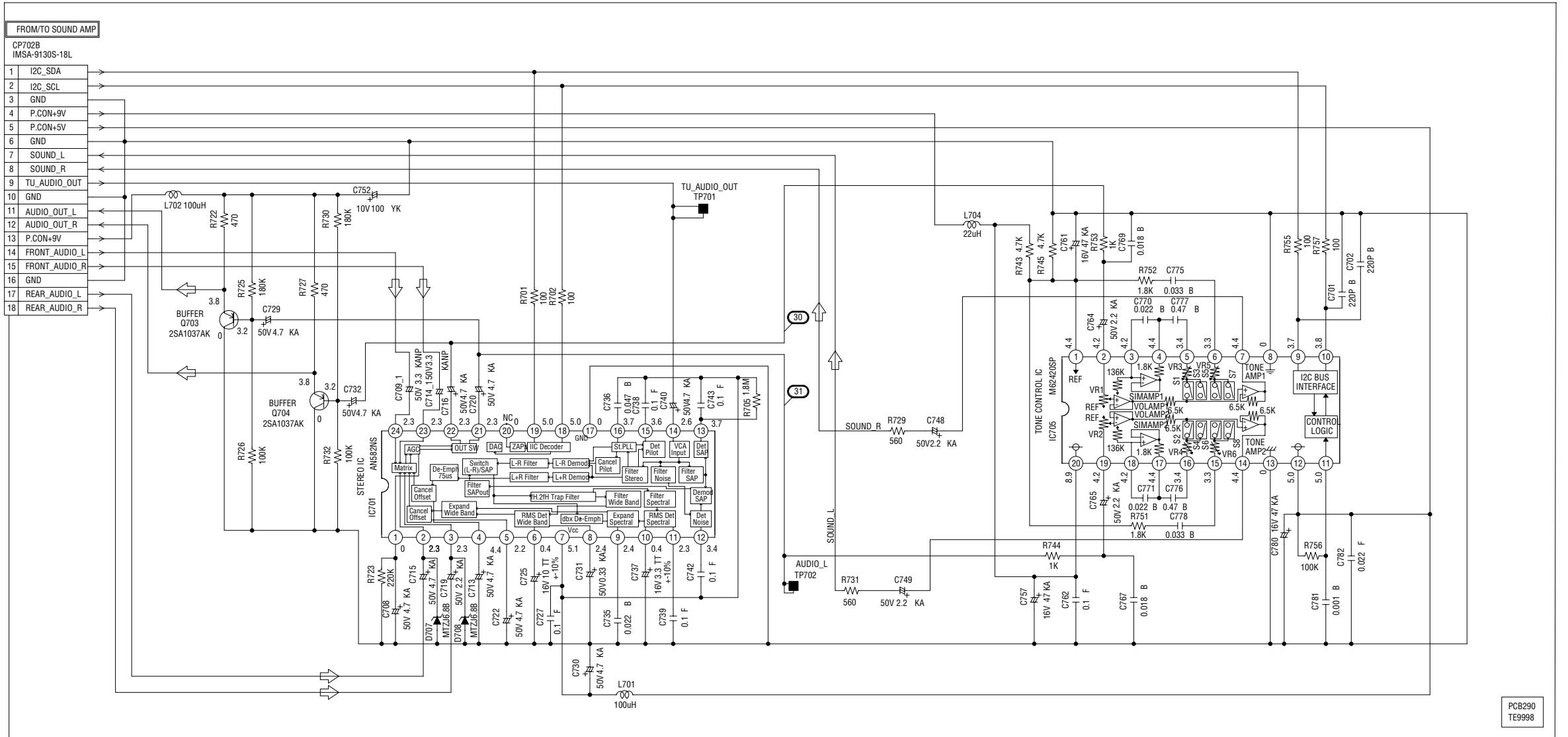
NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

 AUDIO SIGNAL

<< TUNER VIDEO SIGNAL

STEREO SCHEMATIC DIAGRAM



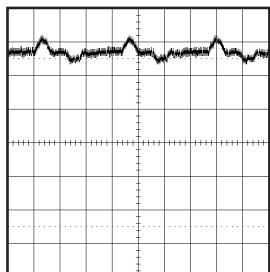
↔ AUDIO SIGNAL

NOTE: THE DC VOLTAGE AT EACH PART WAS MEASURED
WITH THE DIGITAL TESTER WHEN THE COLOR BROADCAST
WAS RECEIVED IN GOOD CONDITION AND PICTURE IS NORMAL.

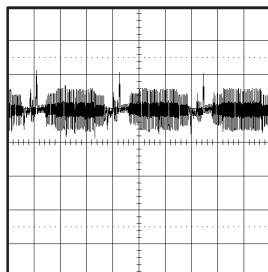
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

WAVEFORMS

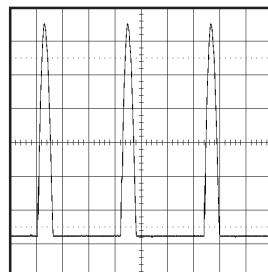
MICON/TUNER



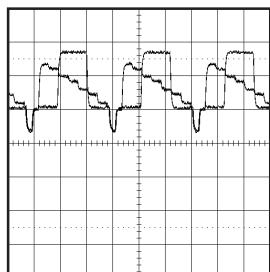
① 200mV 5ms/div



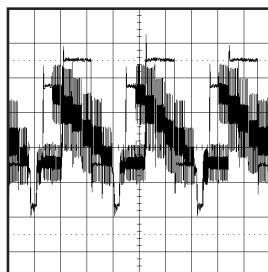
⑦ 0.5V 20μs/div



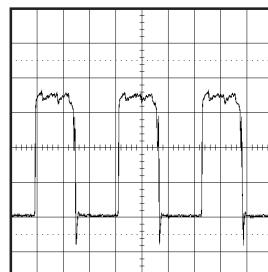
⑫ 20V 20μs/div



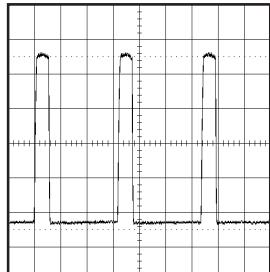
② 0.5V 20μs/div



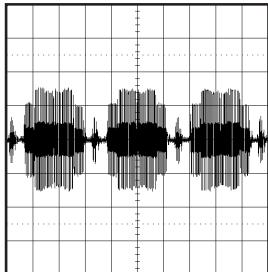
⑧ 0.5V 20μs/div



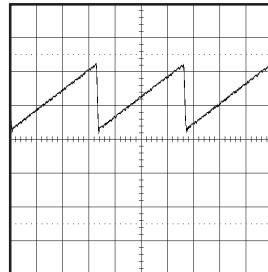
⑬ 200mV 20μs/div



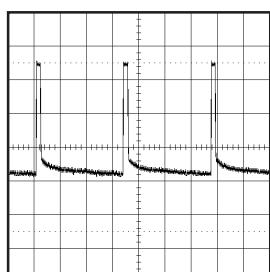
③ 200mV 20μs/div



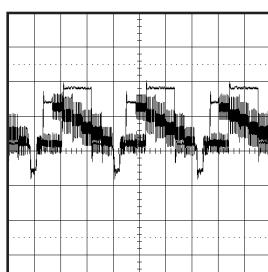
⑨ 200mV 20μs/div



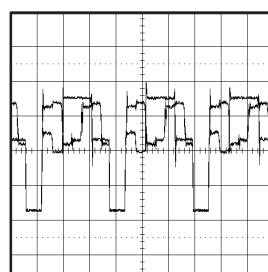
⑭ 0.5V 5ms/div



④ 200mV 5ms/div

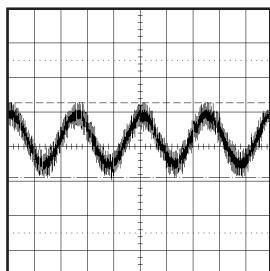


⑩ 0.5V 20μs/div

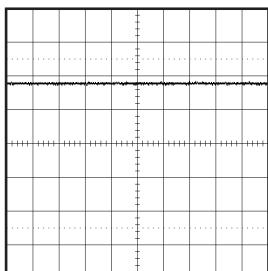


⑯ 1V 20μs/div

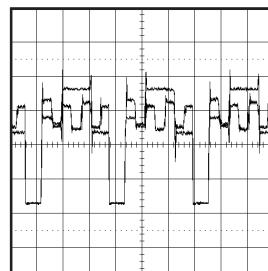
CHROMA



⑤ 0.5V 1ms/div



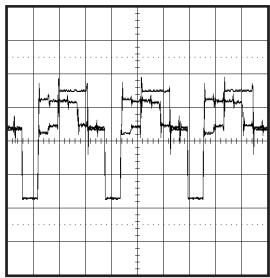
⑪ 1V 0.5ms/div



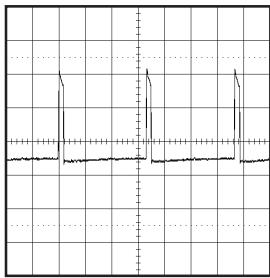
⑯ 1V 20μs/div

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS

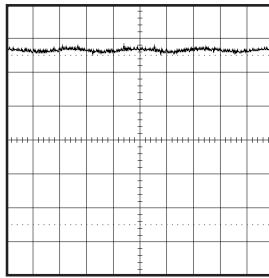


⑯ 1V 20μs/div



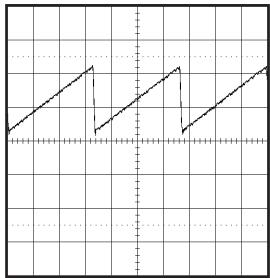
⑰ 10V 5ms/div

SOUND AMP

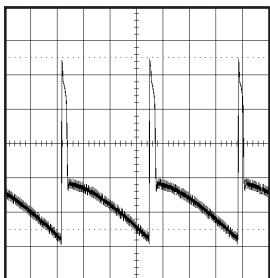


⑱ 0.5V 1ms/div

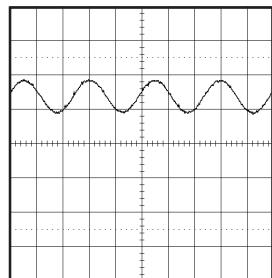
DEFLECTION/CRT



⑲ 0.5V 5ms/div

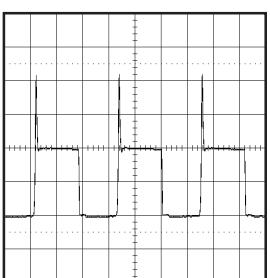


⑳ 10V 5ms/div

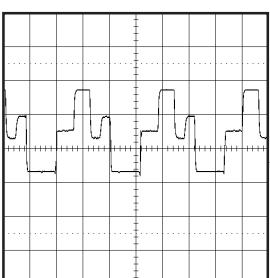


㉑ 1V 1ms/div

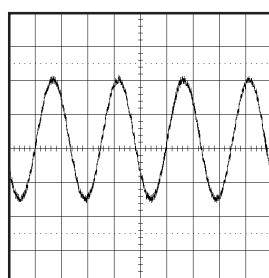
STEREO



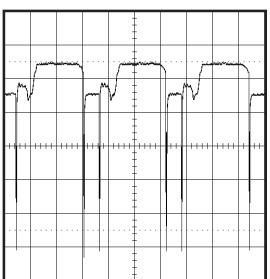
㉒ 20V 20μs/div



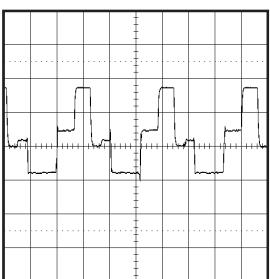
㉓ 50V 20μs/div



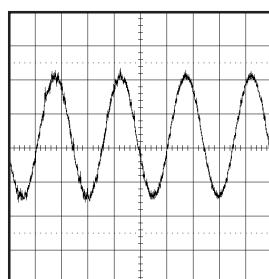
㉔ 200mV 1ms/div



㉕ 2V 20μs/div

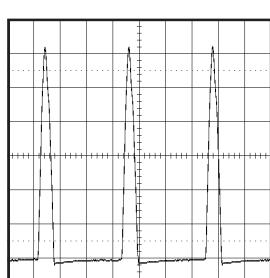


㉖ 50V 20μs/div

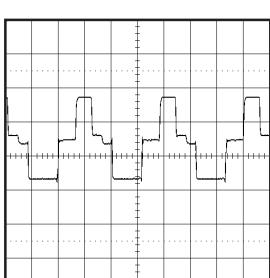


㉗ 200mV 1ms/div

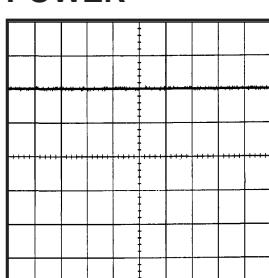
POWER



㉘ 200V 20μs/div



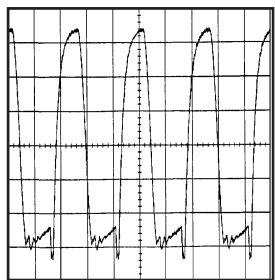
㉙ 50V 20μs/div



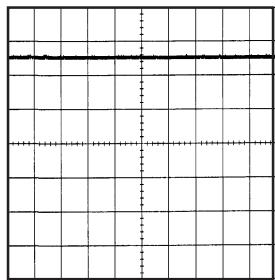
㉚ 5.0V 20ms/div

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

WAVEFORMS



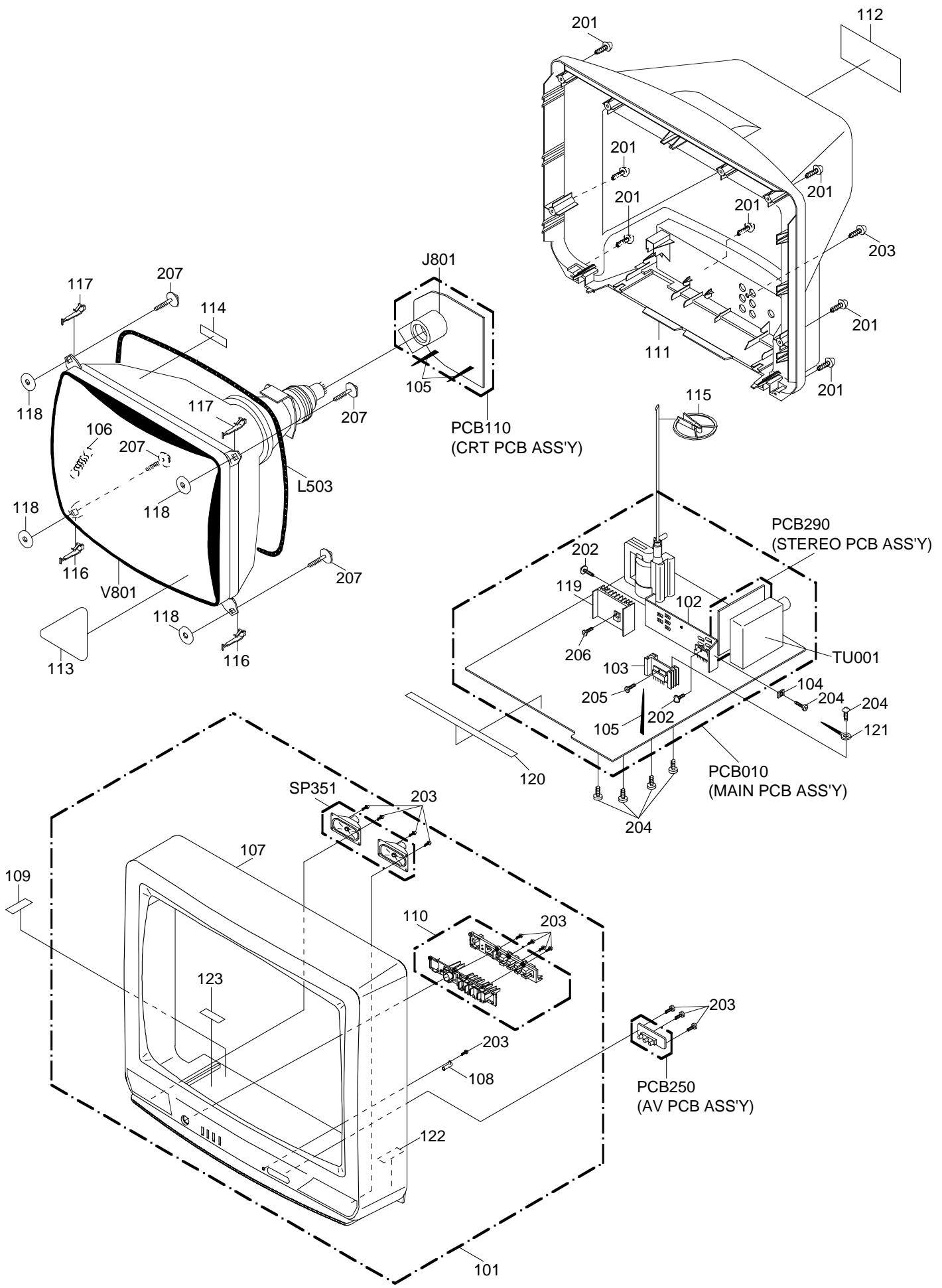
(33) 500mV 5μs/div



(34) 20.0V 20μs/div

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

MECHANICAL EXPLODED VIEW



MECHANICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION			
101	A3I011H720	CABINET,FRONT ASS'Y			
102	---	HEAT SINK			
103	---	HEAT SINK			
104	---	METAL SPACER			
105	---	COATING CLIP			
106	741WUA0016	SPRING,EARTH			
107	701APJ0078	CABINET,FRONT			
108	713WPA0096	GUIDE,REMOCON			
109	7230006856	SHEET,CAUTION			
110	735WPA0426	BUTTON ASS'Y			
111	702APA0104	CABINET,BACK			
112	722A080005	SHEET,RATING			
113	7230006924	FILM,DECORATION			
114	7232020733	SHEET,BRAND			
115	759WPA0006	HOLDER,ANODE WIRE			
116	762WPA0009	HOLDER,CRT WIRE			
117	8994201000	HOLDER,CRT WIRE			
118	769WSA0009	WASHER,CRT T=1			
119	---	HEAT SINK			
120	800WQ00045	FELT SHEET		5x150xT0.5	
121	8995034000	CORD CLIP UL CO.			
122	7240001041	SHEET,CSA WARNING			
123	7220001109	SHEET,HWC			
201	8117540B04	SCREW,TAPPING (B0)	TRUSS	4x20	
202	8117D30A04	SCREW,TAPPING (B0)	WH8 BRAZIER	3x10	
203	8110630A04	SCREW,TAP TITE (P)	BRAZIER	3x10	
204	8109630802	SCREW,TAP TITE (B)	BRAZIER	3x8	
205	810A130804	SCREW/WASHER (A)		M3x8	
206	810B130A04	SCREW/WASHER (B)		M3x10	
207	8111J50D04	SCREW,TAPPING (A)	GW22	5x40	
---	JB5K0100	POLY BAG			
---	J3I01101	INSTRUCTION BOOK			
---	791AHA0014	LAMIFILM BAG			
---	792AHA0073	PACKAGE,TOP			
---	792AHA0074	PACKAGE,BOTTOM			
---	793ACD0475	GIFT BOX			

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION		
RESISTORS				DIODES				
△ R401	R4X5T4104F	R, METAL	100K OHM 1/4W	△ D410	D28TELS6N6	DIODE, RECTIFIER	10ELS6N-TA1B2	
△ R404	R801R7472J	RC	4.7K OHM 1/10W	△ D411	D28TELS6N6	DIODE, RECTIFIER	10ELS6N-TA1B2	
△ R405	R4X5T4183F	R, METAL	18K OHM 1/4W	△ D501	D2BTRM11C0	DIODE, RECTIFIER	RM11C	
△ R406	R801R7682J	RC	6.8K OHM 1/10W	△ D502	D2BTRM11C0	DIODE, RECTIFIER	RM11C	
△ R407	R65581R68J	R, FUSE	0.68 OHM 1W	△ D503	D2BTRM11C0	DIODE, RECTIFIER	RM11C	
△ R408	R4X5T6153F	R, METAL	15K OHM 1/6W	△ D504	D2BTRM11C0	DIODE, RECTIFIER	RM11C	
△ R409	R4X5T6622F	R, METAL	6.2K OHM 1/6W	△ D505	D28T21DQN9	DIODE, SCHOTTKY	21DQ09N-TA2B1	
R415	R3X181221J	R, METAL OXIDE	220 OHM 1W	D506	D28T10EL56	DIODE, RECTIFIER	10ELS6TA1B2	
R418	R425T6103F	R, METAL	10K OHM 1/6W	△ D509	D28T21DQN9	DIODE, SCHOTTKY	21DQ09N-TA2B1	
△ R421	R001T4224J	RC	220K OHM 1/4W	△ D510	D2BTRU2AM0	DIODE, SILICON	RU2AM V1	
R423	R002T2390J	RC	39 OHM 1/2W	△ D514	D28X10EL56	DIODE, RECTIFIER	10ELS6-TA2B5	
△ R424	R4X5T6123F	R, METAL	12K OHM 1/6W	D516	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R429	R6558A2R2J	R, FUSE	2.2 OHM 2W	D517	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R435	R63581010J	R, FUSE	1 OHM 1W	D518	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R440	R3X18B152J	R, METAL OXIDE	1.5K OHM 3W	D519	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R441	R3X18B152J	R, METAL OXIDE	1.5K OHM 3W	D520	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R442	R3X18B152J	R, METAL OXIDE	1.5K OHM 3W	D521	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R500	R21202275K	R, SOLID	2.7M OHM 1/2W	D528	D97U05R61B	DIODE, ZENER	MTZJ5.6B T-77	
△ R501	R5Y2CE1R2J	R, CEMENT	1.2 OHM 7W	D602	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R505	R3X28B473J	R, METAL OXIDE	47K OHM 3W	D603	D28T11E1N1	DIODE, SILICON	11E1N-TA1B2	
△ R517	R3X28AR39J	R, METAL	0.39 OHM 2W	D605	D94TA6RB12	DIODE, ZENER	HZ6B2L TD	
△ R526	R3X181R47J	R, METAL	0.47 OHM 1W	D606	D1VT001330	DIODE, SILICON	1SS133T-77	
△ R542	R336810R1J	R, METAL	0.1 OHM 1W	D610	D1VT001330	DIODE, SILICON	1SS133T-77	
R543	R635U2681J	R, FUSE	680 OHM 1/2W	D701	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
△ R606	R801R7103J	RC	10K OHM 1/10W	D702	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
△ R803	R3X18A123J	R, METAL OXIDE	12K OHM 2W	D703	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
△ R805	R3X18A123J	R, METAL OXIDE	12K OHM 2W	D704	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
△ R807	R3X18A123J	R, METAL OXIDE	12K OHM 2W	D705	D97U01201B	DIODE, ZENER	MTZJ12B T-77	
CAPACITORS				D706	D97U06R81B	DIODE, ZENER	MTZJ6.8B T-77	
C351	E0ELF2102M	CE	1000 UF 16V	D707	D97U06R81B	DIODE, ZENER	MTZJ6.8B T-77	
C355	E62FF2102M	CE	1000 UF 16V	D708	D97U06R81B	DIODE, ZENER	MTZJ6.8B T-77	
C356	E62FF2102M	CE	1000 UF 16V	D709	D97U06R81B	DIODE, ZENER	MTZJ6.8B T-77	
△ C404	E02LT2471M	CE	470 UF 16V	D710	D1VT001330	DIODE, SILICON	1SS133T-77	
△ C405	E02LT2471M	CE	470 UF 16V	D711	D1VT001330	DIODE, SILICON	1SS133T-77	
△ C414	E5EZT4101M	CE	100 UF 35V	ICS				
C416	P3N1F2273J	CPP	0.027 UF 200V	IC101	I53F53041A	IC	OEC3041A	
△ C418	E5EZF3102M	CE	1000 UF 25V	IC104	I9UJ0T600C	IC	PST600C	
C426	E02L00332M	CE	3300 UF 6.3V	IC199	A3I011H015	IC	M24C01-BN6	
△ C433	E02LF4471M	CE	470 UF 35V	△ IC201	I03FE814B0	IC	LA76814BM-MPB	
△ C434	E02LT8220M	CE	22 UF 100V	△ IC351	I03SP46000	IC	LA4600	
C437	P411F3564J	CMPP	0.56 UF 250V ECWF	△ IC401	I03SD78410	IC	LA7841	
△ C443	P414F9103H	CMPP	0.01 UF 1.6KV ECWH	△ IC402	I07K9A05T0	IC	BA05T	
C444	C01BBP7Q2K	CC	470 PF 2KV BP	△ IC501	I2BT066240	IC	STR-F6624	
△ C446	E53ZTB010M	CE	1 UF 160V VZ	△ IC502	I1KA978050	IC	KIA7805PI	
△ C448	E02LT8220M	CE	22 UF 100V	△ IC506	000210001R	PHOTO COUPLER	ON3171R	
△ C502	C13HB07H3K	CC	0.0022UF 2KV B	△ IC601	I1KA978090	IC	KIA7809PI	
△ C503	C13HB07H3K	CC	0.0022UF 2KV B	IC701	I01FF58280	IC	AN5828NS	
△ C505	P2122B224M	CMP	0.22 UF 250V ECQUL	IC702	I0QS02245L	IC	NJM2245L	
△ C507	E52TFC471M	CE	470 UF 200V	IC705	I06DF62420	IC	M62420SP	
△ C508	C034E0J13M	CC	0.001 UF 125V MX	TRANSISTORS				
△ C510	E5EZT4101M	CE	100 UF 35V	Q101	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
C514	C01BBP7K3K	CC	0.0027UF 2KV BP	Q102	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
C517	C01BBP7W2K	CC	820 PF 2KV BP	Q103	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
△ C518	C0JTB05Q2K	CC	470 PF 500V B	Q105	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
△ C521	E53VFB221M	CE	220 UF 160V	Q201	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146	
△ C526	E5EZT1331M	CE	330 UF 10V	Q351	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
△ C529	C034E0JH3M	CC	0.0022UF 125V MX	△ Q401	TDKU023350	TRANSISTOR, SILICON	2SD2335(LS)	
C530	C034E0J13M	CC	0.001 UF 125V MX	△ Q402	TC3Q026210	TRANSISTOR, SILICON	2SC2621(D,E)-RAC	
△ C531	E53ZT2102M	CE	1000 UF 16V	Q403	TPYTD03001	COMPOUND TRANSISTOR	DTA144ESTP	
△ C541	E62DFB470M	CE	47 UF 160V	△ Q501	TC3T034680	TRANSISTOR, SILICON	2SC3468(D,E)-AE	
C560	C01BBP7U2K	CC	680 PF 2KV BP	△ Q502	TA3T1371A0	TRANSISTOR, SILICON	2SA1371(D,E)-AE	
△ C615	E50HU2220M	CE	22 UF 16 V	△ Q503	TCWQ4160E0	TRANSISTOR, SILICON	2SC4160-OEC-YAC11	
DIODES				Q504	TCST02001L	TRANSISTOR, SILICON	2SC2001(C)-T_L	
D001	D94TA30013	DIODE, ZENER	HZ30-3L TD	Q507	TCST009450	TRANSISTOR, SILICON	2SC945(C)-T(P,Q)	
D101	D1VT001330	DIODE, SILICON	1SS133T-77	Q602	TA5T010154	TRANSISTOR, SILICON	2SA1015Y(TPE2)	
D102	D28T11E1N1	DIODE, SILICON	11E1N-TA1B2	Q604	TA5T010154	TRANSISTOR, SILICON	2SA1015Y(TPE2)	
D104	D97U06R21B	DIODE, ZENER	MTZJ6.2B T-77	or	Q605	T6YJ1037K0	TRANSISTOR, SILICON	2SA1037AKT146(R,S)
D105	D97U06R61C	DIODE, ZENER	MTZJ5.6C T-77	Q701	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
D97U05R61C	DIODE, ZENER	MTZJ5.6C T-77	or	Q702	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
△ D401	D94TA27011	DIODE, ZENER	HZ27-1L TD	Q703	T6YJ1037K0	TRANSISTOR, SILICON	2SA1037AKT146(R,S)	
△ D402	D94TA11B11	DIODE, ZENER	HZ11B1L TD	Q704	T6YJ1037K0	TRANSISTOR, SILICON	2SA1037AKT146(R,S)	
D403	D28T11E1N1	DIODE, SILICON	11E1N-TA1B2	Q705	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
△ D404	D28TELS6N6	DIODE, RECTIFIER	10ELS6N-TA1B2	Q706	T6YJ1037K0	TRANSISTOR, SILICON	2SA1037AKT146(R,S)	
△ D407	D28TELS6N6	DIODE, RECTIFIER	10ELS6N-TA1B2	Q707	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
△ D408	D28TELS6N6	DIODE, RECTIFIER	10ELS6N-TA1B2	Q708	T6YJ1037K0	TRANSISTOR, SILICON	2SA1037AKT146(R,S)	
D409	D1VT001330	DIODE, SILICON	1SS133T-77	Q709	T8YJ2412K0	TRANSISTOR, SILICON	2SC2412KT146(R,S)	
				△ Q801	TC3Q040750	TRANSISTOR, SILICON	2SC4075-YAC	

ELECTRICAL REPLACEMENT PARTS LIST

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
TRANSISTORS				MISCELLANEOUS			
△ Q802	TC3Q040750	TRANSISTOR, SILICON	2SC4075-YAC	OS101	077Q014003	REMOTE RECEIVER	PIC-28143SY-2
△ Q803	TC3Q040750	TRANSISTOR, SILICON	2SC4075-YAC	△ RY501	0560Q10114	RELAY	SDT-SS-109DM
COILS & TRANSFORMERS				△ SP351	070C533014	SPEAKER	070C533014
L201	021LA6100K	COIL	10 UH	△ TH501	DF20G3R0Q0	DEGAUSS ELEMENT	PTH451C460BG3R0Q140T
L202	021673R47M	COIL	0.47 UH	TM101	076R074160	TRANSMITTER	R25-1055
L205	0336020388	COIL, VIDEO IFT	3602038	△ TU001	0145K00050	TUNER, UHF-VHF	TECC1040PG31A
L406	021U6D180K	COIL	18 UH	△ V801	0984250502	COLOR PICTURE TUBE	A63AHC26X
△ L501	029X000074	COIL, LINE FILTER	SS24H-20025	X101	100C32R803	CRYSTAL DSVT-200	32.767KHz
△ L502	029K000010	COIL, LINE FILTER	29000001	X601	100CT3R505	CRYSTAL HC-49/C	3.579545MHz
△ L503	028H250009	COIL, DEGAUSS	8H250009	or			
	028R250009	COIL, DEGAUSS	8R250009	RESISTOR			
L601	021LA6100K	COIL	10 UH	RC..... CARBON RESISTOR			
L701	021673101K	COIL	100 UH	CAPACITORS			
L702	021673101K	COIL	100 UH	CC..... CERAMIC CAPACITOR	CE..... ALUMI ELECTROLYTIC CAPACITOR	CP..... POLYESTER CAPACITOR	CPP..... POLYPROPYLENE CAPACITOR
L704	021LA6220K	COIL	22 UH	CPL..... PLASTIC CAPACITOR	CMP..... METAL POLYESTER CAPACITOR	CMPL..... METAL PLASTIC CAPACITOR	CMPP..... METAL POLYPROPYLENE CAPACITOR
L705	021673101K	COIL	100 UH				
△ T401	045013001J	TRANS, HORIZONTAL DRIVE	5013001				
△ T501	048142057W	TRANSFORMER, SWITCHING	8142057W				
JACKS							
J701	060Q471003	RCA, JACK	YKC21-7163A				
J702	0602431013	RCA, JACK	JPJ1187-010010				
△ J801	066C130015	SOCKET, CRT	CVT3275-5102				
SWITCHES							
SW101	0504201T31	SWITCH, TACT	SKHVBED010				
SW102	0504201T31	SWITCH, TACT	SKHVBED010				
SW103	0504201T31	SWITCH, TACT	SKHVBED010				
SW104	0504201T31	SWITCH, TACT	SKHVBED010				
SW105	0504201T31	SWITCH, TACT	SKHVBED010				
VARIABLE RESISTORS							
VR401	V126213BT2	VOLUME, SEMI FIXED	RH0684C13R				
VR502	V1263L2BTC	VOLUME, SEMI FIXED	RH063MCN2R				
P.C.BOARD ASSEMBLIES							
PCB010	A3I011H01A	PCB ASS'Y	TM9441A				
PCB110	A3I011H11A	PCB ASS'Y	TC9300A				
PCB250	A3I008F25A	PCB ASS'Y	TE9997A				
PCB290	A3I011H29A	PCB ASS'Y	TE9998A				
MISCELLANEOUS							
B502	024AT03482	CORE, BEADS	BL02RN2-R62T4				
B504	024AT03655	CORE, BEADS	BL01RN1-A63T6				
B505	024AT03655	CORE, BEADS	BL01RN1-A63T6				
△ CD501	120R614908	CORD, AC	0R614908				
CD701	06CH27081A	CORD, CONNECTOR	CH27081A				
CD801	068M82025A	CORD, CONNECTOR	8M82025A				
CD802	122E053701	CORD, JUMPER	122E053701				
CD803	122E044101	CORD, JUMPER	122E044101				
CD805	068M82025A	CORD, CONNECTOR	8M82025A				
CF201	102E245R71	FILTER, SAW	M1958M				
CP101	069Q160058	CONNECTOR PCB SIDE	W-D2506#01				
CP351	069W14T290	CONNECTOR PCB SIDE	TID-X04P-Z1BK				
CP401	069W340018	CONNECTOR PCB SIDE	TS-80P-04-V1				
CP501	0697320039	CORD, UX CONNECTOR	THL-P03P-B1				
CP502	069W420029	CONNECTOR PCB SIDE	TV-50P-02-A1				
CP701	069E270129	CONNECTOR PCB SIDE	8283_0712_00_000				
CP801	069W320018	CONNECTOR PCB SIDE	TS-80P-02-V1				
CP805	069W320018	CONNECTOR PCB SIDE	TS-80P-02-V1				
CP806	069W010010	CONNECTOR PCB SIDE	005P-2100				
CP702A	069J10038	CONNECTOR PCB SIDE	IMSA-9130B-18				
CP702B	069J10048	CONNECTOR PCB SIDE	IMSA-9130S-18L				
CP802A	067R005019	WIRE HOLDER	51048-0510				
CP802B	067R005019	WIRE HOLDER	51048-0510				
CP803A	067R104019	WIRE HOLDER	51052-0400				
CP803B	067R104019	WIRE HOLDER	51052-0400				
CUS001	800WF00004	CUSHION-A					
△ DY801	027M062505	DY	7M062505				
△ F501	081PA6R302	FUSE	23706.3				
△ F502	080PA2R501	FUSE	23302.5-MB000				
△ FB401	043225010F	TRANSFORMER, FLYBACK	3225010F				
FH501	06710T0006	HOLDER, FUSE	EYF-52BC				
FH502	06710T0006	HOLDER, FUSE	EYF-52BC				
FH503	06710T0006	HOLDER, FUSE	EYF-52BC				
FH504	06710T0006	HOLDER, FUSE	EYF-52BC				
△ ICP502	083PC04002	MICRO FUSE	251004				
△ ICP505	083PC03002	MICRO FUSE	251003				
K001	129A000010	WEDGE	8115529				
K002	129A000010	WEDGE	8115529				
K003	129A000010	WEDGE	8115529				
MG801	026A062704	MAGNET CONVERGENCE	29MMSTAR				

SPEC.NO.	M3I0-11H
O/R NO.	A993514